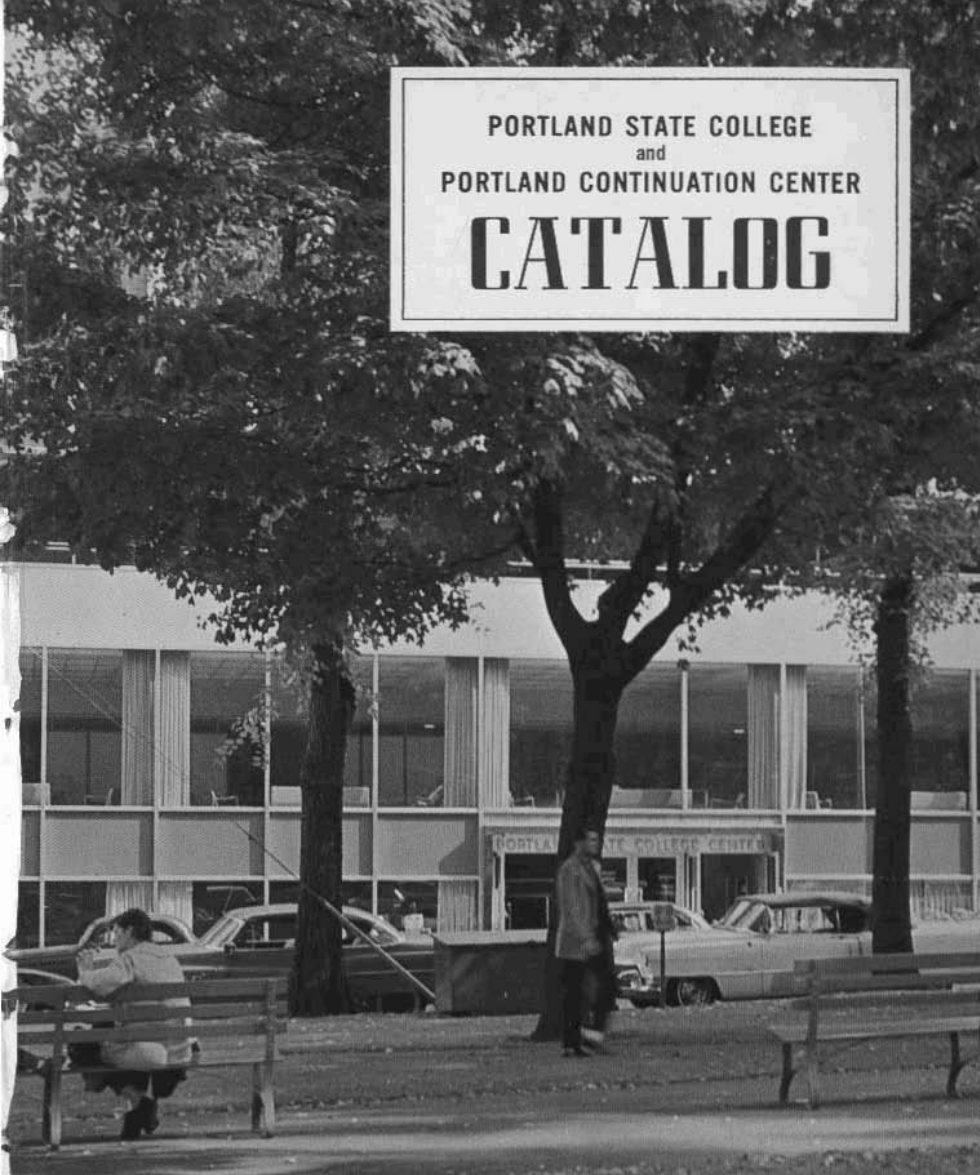




PORTLAND STATE COLLEGE
and
PORTLAND CONTINUATION CENTER

CATALOG

1964

Portland Summer Term

Eight Week Session

June 22 - August 14



Eleven Week Session

June 22 - September 4

OREGON STATE SYSTEM OF HIGHER EDUCATION

**Portland State College
Portland Continuation Center**

1964 SUMMER TERM

Eight-Week Session

June 22 - August 14

Eleven-Week Session

June 22 - September 4

Registration: June 15-20 and 22

**Portland Summer Term
1633 S.W. Park Avenue
Portland 1, Oregon**

State Board of Higher Education*

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T. RAY YASUI, Hood River.....	1965
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* Board members are appointed to six-year terms by the Governor of Oregon with confirmation by the State Senate.

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Oregon State System of Higher Education Officers

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Former Chancellors Oregon State System of Higher Education

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

1964 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				

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					

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	

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 23)

June 15-19, Monday through Friday: 8:00 a.m. - 5:00 p.m.

June 20, Saturday: 9:00 a.m. - 11:30 a.m.

June 22-23 Monday and Tuesday: 8:00 a.m. - 8:30 p.m.

June 24, Wednesday: 8:00 a.m. - 5:00 p.m.

ADVISING: (Classes begin Tuesday, June 23)

June 15-19, Monday through Friday: 8:00 a.m. - 5:00 p.m. in Division of Continuing Education building for convenience of students who wish to avoid first week rush at registrar's office.

June 22, Monday: 11:00 a.m. Advising and program planning for master's candidates, Room 71 State Hall.

June 22, Monday: Consultation and advising in instructor's offices.

EVENTS:

June 23, Tuesday: First day of classes for eight-week and eleven-week sessions.

June 25, Thursday: Late fee begins. Last day to enroll in class without instructor's signature. Last day to change program.

June 27, Saturday: Last day to register or make program changes, 9:00 a.m. - 11:30 a.m.

July 8, Wednesday: 8:00 a.m. - 5:00 p.m. Last day to withdraw without responsibility for grades (both 8 and 11 week terms). Responsible for grades in short courses after three calendar days.

August 13-14, Thursday and Friday: Final examinations for eight-week session.

August 14, Friday: eight-week session ends.

September 3-4, Thursday and Friday: Final examinations for eleven-week session.

September 4, Friday: Eleven-week session ends.

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

The Summer Program

The Portland Summer Term is a joint program of Portland State College and Portland Continuation Center, representing all of Oregon's state colleges and universities. The summer term offers a broad selection of undergraduate and graduate courses from the various institutions in the State System of Higher Education.

Portland State College offers a wide range of undergraduate courses as well as graduate courses leading to the Master of Arts or Master of Science degree in Teaching. The Portland Continuation Center offers selected non-credit courses and undergraduate courses, as well as an extensive listing of graduate courses leading to advanced degrees at institutions in the State System other than Portland State. Students may, by a single enrollment, register for courses offered by Portland State College and extended from other state colleges and universities.

Summer term includes an eight-week and an eleven-week term, some evening classes being included in the eight-week term. While a large number of summer classes are held on the Portland State College campus, various other locations throughout the city and in some instances away from the city are utilized.

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 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, 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

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

opening date of the eight-week term or which begin after the eight-week term has closed.

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

Graduate Work

Work toward completing master's degree requirements granted by various institutions within the Oregon State System of Higher Education may be completed at the Portland Summer Term as shown below. Information concerning admission to any of the following graduate programs should be obtained from the registrar of the institution from which the degree is sought or from the Coordinator of Student Affairs at Portland Continuation Center.

Master of Arts in Teaching—Master of Science in Teaching: Degree is taken from Portland State College.

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, through performance, their competence. Scores on the Graduate Record Examination, or similar tests, may be submitted if it appears necessary.

The Professional Diploma: Taken through Portland State College. Secondary teacher certification in Oregon, presently optional but required after July 1, 1965, states 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 Education: Degree may be taken either at University of Oregon or Oregon State University.

University of Oregon has a 30 credit hour residence requirement. This requirement may be met by attending three Portland Summer Terms. Oregon State has a 12 credit hour residence requirement. This requirement must be met by attendance on Oregon State University campus proper.

At both 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".

For the degree at either of these Oregon institutions, a well integrated program is planned for each individual candidate designed to improve his educational competence as a teacher, supervisor, 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 handicap); 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 on the University of Oregon campus in Eugene.

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

Master of Science in Education: 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. Only 21 hours may be transferred from the regular evening courses offered at Portland during fall, winter and spring quarters.

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

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 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.

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 University of Oregon have been offered in Portland. However, 12 credit hours of residence at Eugene campus will be required by School of Health, Physical Education and Recreation.

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

Master of Education in Library Science: Since fall term, 1961, sequential programs leading to Master of Education at University of Oregon have been offered in Portland. Heavy specialization in library will be required. Mrs. Ione Pierron, assistant professor of librarianship, School of Education, University of Oregon, will serve as major adviser for those enrolled in Portland.

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 of the degree-granting school selected. On approval by the major department a maximum of 15 hours of graduate work may be completed in Portland.

Master of Science in Engineering: Oregon State University offers a graduate engineering program in Portland. For the Master of Science degree, the student must complete a program of study that includes a minimum of 45 term hours in courses approved for graduate credit. The program is divided into 18 to 21 term hours of course work in the student's major field of engineering; 15 to 18 hours in the minor field; and a thesis which normally consists of nine term hours.

Course work will be available in the following major areas: chemical, civil, electrical, mechanical and industrial engineering. Work in the minor area, subject to the approval of the student's adviser, will be in mathematics, physics, other areas of engineering, chemistry, business and technology, statistics or any other area approved by the major department.

Advising: Advisers for any of the masters' 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 a.m. to 5:00 p.m. June 15 to 19, and 9:00 to 11:30 a.m. June 20. 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 22. Information will be presented about all the master's degrees offered at the various colleges and universities within the Oregon State System of Higher Education. Advisers will be available throughout the duration of the summer term, by appointment. Appointments may be made by contacting the Office of the Coordinator of Student Advising, or for the Master of Arts or Master of Science in Teaching, by appointment with the appropriate Divisional Coordinator for the MAT-MST program at Portland State College.

Admission: Graduate students enrolling at the Portland 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, 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 15-19, from 8:00 a.m.-5:00 p.m., Saturday, June 20, from 9:00-11:30 a.m., and Monday, June 22, from 8:00 a.m.-8:30 p.m. Registration is also possible Tuesday evening, June 23, from 5:00 p.m.-8:30 p.m. The registrar's office is located at 724 S.W. Harrison Street.

Students living in Portland or vicinity are urged to register during the registration period, June 15-20. Normally, registration may be completed more easily and quickly during this period.

Registration packets, available at the registrar's office, will contain detailed instructions for registering and paying fees. 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 (World War II or Korean) should contact the veterans 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 in 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.-5:00 p.m., Monday through Friday, entire session.

9:00-11:30 a.m., Saturdays, during June only.

5:00-8:30 p.m., Monday and Tuesday, June 22 and 23.

Summer term registration fees are as follows:

Full time students and auditors (8 credit hours more)

8-week session	\$132.00
11-week session	132.00

Part time students and auditors

(for 7 credit hours or less) \$16.50 per credit hour (minimum \$33.00)

No. of hours	Total	No. of hours	Total
1 or 2 credit hours	\$33.00	5 credit hours	\$ 82.50
3 credit hours	49.50	6 credit hours	99.00
4 credit hours	66.00	7 credit hours	115.50

For non-credit college preparatory courses, charges shall be based upon units of time spent in class each week on a basis equivalent to \$16.50 per credit hour.

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

Special fees—late registration full time students (due after third day of session), not applicable to short courses..... per day, \$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

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 22 to the date of application for the refund and not from the date the student may have registered or may have ceased attending classes. Claims for refunds must be made in writing.

Library Regulations and Charges

NOTE: The library card is issued upon presentation of the student's tuition receipt. This receipt should be preserved, even when payment of tuition is by check.

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

The following regulations govern library fines and charges:

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

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

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

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

5. Borrowers losing books are charged the replacement cost of the book, plus the amount of fine incurred up to the time the book is reported missing. In addition, a charge of \$3.00 is made to cover the cost of cataloging and processing the replacement copy.

6. When a lost book, for which the borrower has been billed, is returned before a replacement has been ordered, a refund not exceeding the replacement cost may be made at the discretion of the librarian.

7. Borrowers are issued a library card for use in the charge-out machine. The card should be turned in upon withdrawing during the term, or at the end of the term.

The summer term library, located on S.W. Broadway at Montgomery Street, will be open Monday through Thursday from 7:30 a.m. to 8:00 p.m., and on Friday from 7:30 a.m. to 4:30 p.m.

Entrance to the library is made from the concourse which extends between the middle of the block on Broadway in the college center. The reserve book collection and small general reference collection are located on the ground floor. The bulk of the collection is distributed on three upper floors, education books on first floor, science and social science on second, and humanities on third.

Facilities and Services

Audio-Visual Department: This department is in the basement of the library and is reached by stairway directly off the concourse.

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

Students and faculty may use college center cafeteria and snack bar, and the dining rooms where group luncheons and dinners are served. There are also meeting rooms and a spacious lounge where art and other special exhibits are displayed.

All college center facilities are open from 7:30 a.m.-8:30 p.m., Monday through Thursday and until 4:30 p.m. on Friday. College center facilities are financed through student fees and are for the use and enjoyment of all summer term as well as regular term students.

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

Housing: Portland Summer Term has no housing of its own, but efforts will be made to find accommodations for both faculty and students. Requests should be addressed to John F. Jenkins, 1620 S.W. Park Avenue, Portland 1, Oregon.

Recreation: Summer term students may enjoy the varied recreational facilities of the Portland metropolitan area. Conveniently located parks and playgrounds, swimming pools, golf courses and tennis courts, theaters and musical events, Portland art museum, and excellent library services are available. A fine new zoo and the Oregon Museum of Science and Industry are additional attractions. In addition, Portland offers easy access to the beautiful beaches of the famed Oregon coast, and to alpine resorts in the surrounding Cascades and Coast mountain ranges. A summer term recreational program, including organized trips and other activities, will be directed by the college center staff.

Special Events: Lectures, concerts and other special events open to summer term students and the public have been scheduled.

Human Relations Laboratory: This laboratory is a facility whereby special programs may be designed to fit particular and unique needs of educational, business and civic organizations. The complex is comprised of a lecture-demonstration room capable of seating approximately sixty people. This room has accoustical folding walls which can be used to divide the large area into two equal sections. Eight offices located in the perimeter of the large lecture-demonstration room are equipped with one-

way glass for viewing from either side through light control. A control room provides the communication for listening, transmitting and auditory observation at all stations without involvement of personnel in individual stations. Additional information and arrangements for the use of the facility may be obtained by calling 226-6601, extension 1145. It is located in the Division of Continuing Education Building, 1633 S.W. Park Avenue.

Counseling Center For Adults: The Counseling Center was established in 1958 with the objective of offering training opportunities in the techniques and methods of training counselors and of providing counseling services to students who were enrolled each term in the Division of Continuing Education programs.

Counseling: The counseling aspect of the Counseling Center is divided into three major categories: vocational, educational and personal. The Counseling Center has been of service to individuals who, for various reasons, are seeking readjustment in the world of work. Some feel trapped by original vocational selections; others feel they must change their occupation for reasons of health or technological changes. Educational planning for those who need extensive assistance has been an important facet of the Counseling Center's operation. A comprehensive testing program is available which aids individuals in setting goals commensurate with their interests and abilities. Personal problems are explored when they have attained proportions of sufficient magnitude to interfere with the individual's ability to function at accustomed or expected efficiency.

Office Hours: Office hours are from 8:00 to 4:30 p.m. Monday through Friday. Information regarding programs or services may be obtained by calling 226-6601, extension 1156. The Counseling Center is located on the second floor of the Division of Continuing Education Building, 1633 S.W. Park Ave., Portland, Oregon.

Special Programs

Portland State College

For further information contact the director of the Portland State College Summer Term.

AA 401. Special Studies: Children's Art. 3 hours. (June 26-August 14).

Opportunities to plan, present and evaluate art experiences for school-age children. A wide variety of materials will be used during the eight sessions. Seminar-type discussion and library work 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 hours of studio classes in painting, drawing and/or ceramics. Two hours will be spent with youngsters, grades four through six. There will be places for 12 college students and approximately 25 children. Fridays, 9:00 to 12:00, Room 235 SPH.

AA 501. Special Studies: Children's Art. 3 hours. (June 26-August 14)

(See AA 401)

Ed 507. Seminar: Building a Modern Educational Environment Within the School (Part of the Oregon Program). 3 hours.

(See Education section, Portland State College Program)

Demonstration School

An eight room elementary school will be operated at Shattuck School, 1914 S.W. Park Avenue, 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 contact Dr. Ray O. Wolf, Director of Student Teaching. 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 19-August 7)

A program of intensive instruction in the German language and literature for advanced students. A distinguished faculty of German-born teachers from colleges and universities in the Pacific Northwest will give courses in German poetry, drama and the Novelle, as well as intensive training in 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 the mountains and beaches, sports, parties and games are included in the program.

For further information, write Dr. H. F. Peters, Portland State College, P. O. Box 751, Portland 7, Oregon. After consultation with Dr. Peters,

students will register for a combination of courses selected from the listing below, totaling 9 to 12 hours credit. An additional course fee of \$60 is required for this program.

GL 334, 335, 336. Intermediate German Conversation and Composition. 2 hours. Peters and staff.

GL 401. Special Studies: German Life and Thought. 2 hours. Peters and staff.

GL 407. Seminar: The Novelle. 4 hours. Langhammer.

GL 407. Seminar: Sec. 1 The Romantic Tradition. (g) 4 hours.

Sec. 2 The Classic Ideal. (g) 4 hours. Peters.

Sec. 3 Twentieth Century Literature. 4 hours. Eaton.

Ed 408. Special Secondary Methods: German. 1-3 hours. Eaton.

GL 424, 425, 426. Advanced German Composition and Conversation. (G) 2 hours. Peters and staff.

Portland Continuation Center

WORKSHOPS, SEMINARS, SPECIAL PROGRAMS often meet on a schedule all their own, and may require special fees. Read the information carefully. For information, unless otherwise noted, call 226-6601, ext. 1130 or write to Special Programs, 1633 S.W. Park Avenue, Portland 1, Oregon.

AA 401. Special Studies: Advanced Ceramics Workshop. 3 hours. (August 17-28) (PSC)

Hum 507. Seminar: Advanced Ceramics Workshop. 3 hours. (August 17-28) (PSC)

This workshop, consisting of lectures, labs, seminars and field trips, is especially designed for potters, though secondary school art teachers would also gain from this program. Work will be on wheel-thrown and hand-built pottery. Field trips will permit students to learn about Oregon clays, to be followed by experimentation with clays and glazes for high temperature reduction firing with emphasis on reduced copper and iron. Discussions will assist students in learning about the development of studio kilns, kiln building, and design and form in pottery. Students will fire kiln and develop glazes. Workshop will be directed by Ray Grimm, Assistant Professor of Art, Portland State College who, in addition to participating in a number of national and regional shows and exhibitions including one-man shows, has won many awards for his work in pottery. There will be a fee for materials and cost will be based on five cents per pound after firing. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 298 SPH.

ArE 411. Methods and Research Materials: Art in Elementary Schools. (G) 3 hours. (August 17-28) (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. This special program will be directed by Dr. Alexander Masley, Chairman, Department of Art Education, University of New Mexico, Albuquerque, New Mexico. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 235 SPH.

BA 35. Review in Municipal Accounting. (non-credit) (July 21-August 25) (DCE)

This course is designed especially for financial officers of state and local governments and nonprofit institutions, 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 members of the public accounting profession engaged in the examination of municipalities and nonprofit organizations. The course will consist of special theory of accounting for municipalities and nonprofit organizations requiring accounting by "funds," a review of budgetary and other laws relating to municipalities in the State of Oregon and auditing standards and procedures observed in the examination of financial statements of municipalities and nonprofit organizations. Course fee \$30. Savage. Tuesday, 6:45 to 9:30 p.m., Room 185 SH.

Ec 20. Seminar: Economics for School Administrators. (non-credit) (August 17-22) (DCE)

A full-time, week-long seminar designed for school superintendents and administrators in their role as literate and sophisticated citizens. A staff of professional economists will undertake a comprehensive and rigorous analysis of contemporary economic problems: economic growth and stability, the workings of the free enterprise system, incomes and poverty, the Oregon economy and others. Members of the seminar faculty will also meet with participants in small groups for informal discussion of these matters and will be available for consultation on ways and means of introducing economic concepts into the school curriculum. Tuition will be paid by the Oregon Council on Economic Education. Participants will pay living expenses only. Daily, Monday through Saturday, 9:00 to 12:00, 1:00 to 4:00 and 6:00 to 9:00. Location in Portland to be announced. Limited to thirty administrators. Application must be received by July 20. For further information and application form write Dr. Hugh G. Lovell, Associate Professor of Economics, Portland Continuation Center, 1633 S.W. Park Avenue, Portland, Oregon 97201, or call 226-6601, ext. 1130.

Ed 507. Seminar: Intergroup Relations. 3 hours. (August 17-28) (PSC)**Soc 508. Workshop: Intergroup Relations.** 3 hours. (August 17-28) (UO)

A program to aid school personnel, community workers, and other interested persons to understand the nature of our intergroup society, the racial, religious and ethnic groups that compose it, and intergroup conflict arising from prejudice and discrimination. The current situation and programs for amelioration will be considered in the light of American values and of 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. Guy, Cunningham. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 250 SH.

Ed 508. Workshop: Aerospace. 6 hours. (July 13-August 9) (OSU)

Especially planned for elementary and secondary teachers and administrators to consider economic, political, social, geographical, military and technical aspects of the aerospace age. Covers complete scope from earliest history of flight 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 to Portland 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 and should be addressed to Robert A. Wilcox, Coordinator, Special Programs, 1633 S.W. Park Ave., Portland. Haas. Daily, Portland Air Base.

Ed 508. Workshop: Foreign Language Laboratory for Teachers. 3 hours. (August 17-28) (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, Curland. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 49 SPH.

Ed 508. Workshop: Problems of Adolescents. 3 hours. (June 22-July 17) (OSU)

This four week workshop is designed as a dynamic experience in learning how to work more effectively with adolescents. The focus of attention is on the forces which influence behavior. Current pressures on adolescents, communication between adults and adolescents, the art of counseling, factors in delinquency will be some of the major topics under consideration. A group of adolescents will be available as a sounding board for ideas to those enrolled in the workshop. Parents, school administrators and teachers, and adults who work with youth in agencies will find this workshop helpful in understanding adolescents. Ed 508 *will not* be substituted on transcripts for Ed 461 or Psy 461. Schulz, Daily, 2:00 to 4:00, Room 201 SH.

Eng 508. Workshop: Creative Writing in the Elementary School. 3 hours. (August 17-28) (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. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 147 SH.

GS 407. Seminar: Biology Institute. 6 hours. (June 29-July 25) (OSU)

A four week field institute in biology designed especially for elementary and secondary teachers. First week, June 29-July 3, will be on the Portland State College campus. Particularly valuable to teachers new to Oregon and those who have not had the opportunity to study the biology of Oregon. Study of plants and animals in areas of Astoria, Cape Falcon, Charleston, Crater Lake, Klamath Falls, Malheur Lake, John Day, Clarno and Mt. Hood. This institute will enable the teacher to become more familiar with the life found in the sea, along the shore, the shore itself, in the mountains (both Cascade and Steens), in the desert and in the marsh. The fossils found in the state will also be studied. Three side trips to study alpine flowers of Coast Range, Mt. Hood and Steens Mountains as well as tours of the migratory bird refuges. Instruction by Miss Ruth Winchell and field personnel of the departments of Forestry and Fish and Wildlife. Prerequisite, any of the following: General Biology; Natural History of Oregon; Botany; Zoology. Tuition, \$99; bus transportation, \$42, both sums payable at time of registration. Lodging will be primarily in motels. Students will pay for lodging and meals at time service is rendered. Registration should be completed by June 15. Winchell and special staff. Daily, 9:00 to 12:00 and 1:00 to 4:00, 154 SH (first week).

GS 507. Seminar: Biology Institute. 6 hours. (June 29-July 25) (OSU)
(See GS 407)

Lib 508. Workshop: Audio Visual Services for School Librarians. 3 hours. (July 13-31) (UO)

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 planning 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. Shaffer. Monday through Thursday, 10:30 to 12:00 and 1:00 to 4:00, Friday, 9:00 to 12:00 and 1:00 to 4:00, Room 345 SPH.

Mus 507. Seminar: Elementary School Music. 3 hours. (August 17-28) (PSC)

This music workshop will be concerned with a unique contribution of music in the general education of children and early adolescents. Particular attention will be given to the implications for music in the current trends of curriculum change and development. Stress will be placed on the music curriculum, appropriate learning activities, and teaching techniques, to meet the various individual differences within the scope and sequence of the planned music program. Opportunity will be provided within the workshop structure to consider recent publications and teaching materials as well as to seek solutions to the problems in the elementary music program. Wilmot. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 453 SH.

Mus 507. Seminar: French Horn. 3 hours. (August 17-28) (PSC)

Two weeks of 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 include 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. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 301 SH.

Mus 507. Seminar: Percussion. 3 hours. (August 17-28) (PSC)

A percussion workshop consisting of the theoretical and *practical* study of the percussion instruments of the band and orchestra. The workshop will be geared to the needs of elementary and secondary instrumental music teachers and those undergraduates who contemplate doing such work. Aim of the two week session will be to give each participant a better understanding of the proper function and potential of the percussion section that will make any band or orchestra sound better. Included in this course of study will be instruction in the techniques of playing the snare drum, bass drum, cymbals, gong, triangle, xylophone, tambourine, wood block, castanets, tympani, orchestra bells and chimes. Information on each will be given concerning a short background history, criteria for selection and purchase, the upkeep of each, examples of correct musical notation for each, and an annotated bibliography of percussion method texts (both class and private study methods), as well as solos and ensembles will be provided. Browne. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 449 SH.

OA 407. Seminar: Briefhand. 3 hours. (June 22-July 3) (OSU)

OA 508. Workshop: Briefhand. 3 hours. (June 22-July 3) (OSU)

Learning Fundamentals and Teaching Techniques Briefhand is a well-established simplified system of note-taking that can be of practical use to all who desire such a skill. No symbols are used—only the alphabet. Briefhand can be a time-saving

tool from the point of view of the learner or user. All students should be able to double their longhand writing speed in one term. Many will write considerably faster. The workshop will be devoted to a combination of learning and teaching techniques. Members of the workshop group (both business and nonbusiness teachers are welcome) will be prepared to teach as well as write Briefhand at the end of the two-week period. Yerian. Daily, 9:00 to 11:00 and 1:00 to 3:00, Room 183 SH.

PE 480. Driver Education and Training. (G) 3 hours. (August 17-28) (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. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 101 SH.

Rec 407. Seminar: Camping Education and Counseling, Section I. 3 hours. (UO) (First week: June 15-19, Portland) (Second week, Dates and Place: TBA)

An analysis of techniques, principles, and problems of individual and group leadership in the organized summer camp. Particular emphasis on the camp program as an education process in the out-of-doors. Field trips, lectures, discussions, projects, and supervised group experience. First week, June 15-19, will be classroom work on Portland State College campus. The second week is a supervised experience in an approved resident or day camp with dates to be arranged. *Good physical condition is imperative.* Board and room at camp will approximate \$3 a day and will be paid at time service is rendered. Registration must be completed by June 1. Ford. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 244 SH (first week).

Rec 407. Seminar: Camping Education and Counseling, Section II. 9 hours. (UO) (First week: June 15-19, Portland) (8 weeks in organized camp)

An analysis of techniques, principles, and problems of individual and group leadership in the organized summer camp. Particular emphasis on the camp programs as an educational process in the out-of-doors. Field trips, lectures, discussions, projects, and supervised group experience. First week, June 15-19, will be on Portland State College campus, with the remainder of the summer to be spent in employment in an organized resident or private day camp approved for seminar credit. *Good physical condition is imperative.* All students will be supervised throughout the summer by both camp staff members and Dr. Ford. Tuition \$132 with board and room to be arranged on an individual basis with the camp. Registration must be completed by June 1. Ford. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 224 SH (first week).

Rec 507. Seminar: Camping Education and Counseling, Section I. 3 hours. (UO)

(See Rec 407)

SEd 407. Seminar: Conservation Education (Basic). 3 hours. (Section I: August 2-8; Section II: August 9-15; Section III: August 16-22) (OSU)

Study of forestry, lumber, fish and wildlife, soils, crops, irrigation, water and power potentials and outdoor living for elementary and secondary teachers and administrators. This workshop, offered in three identical sections, will be held at Hoodoo Ski Bowl near the summit of Oregon's Santiam Pass, just off Highway 20. Students may enroll for one section only. Open only to students who have never participated in any previous Conservation workshop in the Portland Summer Term. *Good physical condition is imperative.* Tuition, \$49.50; food and lodging for seven days, \$40.00; both sums are payable at the time of registration. Registration must be completed on or before July 22. Scholarships are available for qualified students. Applications should be addressed to Robert J. Gridley, Chairman, Special Programs, 1633 S.W. Park Avenue, Portland. Hopson, Stradling and special staff. Daily, Hoodoo Ski Bowl.

SEd 407. Seminar: Conservation Education (Advanced). 3 hours. (August 16-22) (OSU)

Resource management, stressing interrelationships of resources and basis of conflict and harmony in resource use in the Pacific Northwest. Water resources will be highlighted, and recreation, forest, wildlife, and soil resources will be studied in association with water. This workshop will be held at 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. Prerequisite: Basic Conservation Workshop, or college course in Conservation, or permission of instructor. *Good physical condition imperative.* Tuition, \$49.50, food and lodging for seven days, \$31.50, bus transportation, \$10.00; total of \$91.00 payable at time of registration. Registration must be completed on or before August 6. Scholarships are available for qualified students. Applications should be addressed to Robert J. Gridley, Chairman, Special Programs, 1633 S.W. Park Ave., Portland. Rockie. Daily, Timothy Lake.

SEd 407. Seminar: Radiation and Health. 3 hours. (August 3-14) (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 is director of public health of the Indiana University Medical Center. Colasuonno and special staff. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 201 SH.

SEd 507. Seminar: Conservation Education (Basic). 3 hours. (OSU)

(See SEd 407)

SEd 507. Seminar: Conservation Education (Advanced). 3 hours. (OSU)

(See SEd 407)

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

SEd 507. Seminar: Smoking and Health. 2 hours. (June 15-19) (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 attention will be given to the physiological, psychological, sociological and pathological effects of smoking on youth. 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. Scholarships in the amount of \$40 will be offered by the Oregon Tuberculosis and Health Association and the American Cancer Society, Oregon Chapter. Scholarship application forms and information may be obtained from Special Programs, 1633 S.W. Park Avenue, Portland. G. Anderson. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 245 SH.

Sp 507. Seminar: High School Forensics (teachers). 3 hours. (August 17-28) (UO)

Two weeks of intensive study and practice of theory and methods in high school speech activities including debate, oratory, extemporaneous speaking, and interpretative reading encompassing lectures, discussions, demonstration; 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. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 490 SPH.

Sp 33. High School Forensics Workshop (students). (non-credit). (August 17-28) (DCE)

Two weeks of 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. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 490 SPH.

Certificate Program for Teachers of the Mentally Retarded

Teachers who have the necessary qualifications may complete the Certificate Program for Teachers of the Mentally Retarded in the eight-week session of either the University of Oregon or the Portland Continuation Center. A twelve-hour program in this specialty is scheduled. 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 1, Oregon.

Ed 489. Curriculum for the Mentally Retarded. (G) 3 hours. (UO)

Ed 409. Practicum: Teaching the Mentally Retarded. (G) 3 hours. (UO)

ArE 409. Practicum: Art Experiences for the Mentally Retarded. (G) 3 hours. (UO)

Ed 464. The Mentally Retarded Child. (G) 3 hours. (UO)

American Heritage Association Joint Sponsorship Programs

Hum 407. Seminar: Similarities and Differences in Western European Cultures and American Culture. 3 hours. (July 6-17) (OCE)

Study locale, The Hague. This seminar will concern pertinent differences in cultural attitudes toward the arts and literature. Hart.

Hum 407. Seminar: Western Europe and the Arts. 3 hours. (August 3-14) (OCE)

Study locale, Paris. This seminar will investigate some of the cultural trends and achievements in the fine arts in Western Europe. Hart.

Hum 507. Seminar: Similarities and Differences in Western European Cultures and American Culture. 3 hours. (July 6-17) (OCE)

(See Hum 407, with same title, above.)

Hum 507. Seminar: Western Europe and the Arts. 3 hours. (August 3-14) (OCE)

(See Hum 407, with same title, above.)

SSE 407. Seminar: Similarities and Differences in Western European Cultures and American Culture. 3 hours. (June 22-July 3) (OCE)

Study locale, The Hague. The seminar will concern itself with differing attitudes

towards economic systems, religious institutions, class differentiations, and historicity. White, Hoffman.

SSc 407. Seminar: The Common Market. 3 hours. (July 20-31) (OCE)

Study locale, Brussels. This seminar will study the economic, political, and cultural impact of the Common Market in Western Europe. White, Hoffman.

SSc 507. Seminar: Similarities and Differences in Western European Cultures and American Culture. 3 hours. (June 22-July 3) (OCE)

(See SSc 407, with same title, above.)

SSc 507. Seminar: The Common Market. 3 hours. (July 20-31) (OCE)

(See SSc 407, with same title, above.)

The Portland Continuation Center of the Division of Continuing Education is jointly sponsoring this program with the American Heritage Association. Prerequisite: Approval by instructor and A.H.A. For further information contact the A.H.A., Box 435, Lake Oswego, Oregon, NE 6-6959, or R. A. Wilcox, Coordinator, Special Programs, 1633 S.W. Park Ave., Portland 1, Oregon, 226-6601, ext. 1130.

Remedial Education and Summer Reading Clinic

Ed 409 (G)—509, Practicum: Remedial Education, is offered in conjunction with the reading clinic, which is operated at Shattuck Elementary School. Teachers who are preparing to meet state certification and/or University of Oregon master's degree requirements in remedial education and classroom teachers interested in diagnostic and remedial techniques will find the practicum experience to be of value. Practicum may be taken for either 3 or 6 hours of credit during summer term. Concurrent enrollment in Ed 409 (G) Practicum: Remedial Education is required for students enrolling in Ed 465 or Ed 468.

Special permission to enroll in the practicum must be obtained from Dr. Wayne Otto. Since enrollment is limited, it is important to make application well in advance of the beginning of summer term—preferably before May 14.

Applicants for enrollement in the reading clinic may be referred by parents or teachers. To be eligible, children should be in grades four (or repeating grade three) through eleven. Children accepted for enrollment will be scheduled between 9:00 and 12:00 on Monday through Thursday from June 29 through August 6. The reading clinic is located, during the summer term, in Shattuck Elementary School, 1914 S.W. Park Avenue, Portland. Application should be made as soon as possible.

Direct inquiries about practicum, remedial education programs, and enrollment in the reading clinic to Dr. Wayne Otto, Portland Continuation Center, 1633 S.W. Park Avenue, Portland 1, Oregon. (226-6601, Ext. 1152).

Courses required for the state remedial education certificate that are offered in the summer term are:

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

Ed 409. Practicum: Remedial Education—Correction. (G) 3 hours. (UO)

Ed 509. Practicum: Remedial Education. 3 hours. (UO)

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

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

Ed 462. Psychology of Exceptional Children. (G) 3 hours. (UO)

Ed 468. Remedial Techniques in the Basic Skills. (G) 3 hours. (UO)

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

Psy 524. Individual Intelligence Testing. 2 to 6 hours. (UO)

Recommended courses:

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

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

Ed 464. The Mentally Retarded Child. (G) 3 hours. (UO)

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

Ed 537. Reading in the Elementary School. 3 hours. (UO)

Ed 562. Issues in Extreme Learning Difficulty. 3 hours. (UO)

Courses in Remedial Education

Basic Courses in Remedial Education Sequence

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

Ed 409. Practicum: Remedial Education—Correction. (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)

Advanced Courses in Remedial Education

Ed 509. Advanced Practicum: Remedial Education. 3 hours. (UO)

Ed 562. Issues in Extreme Learning Difficulty. 3 hours. (UO)

Speech Correction Programs

Two types of programs are offered: (1) those leading to certification with the State of Oregon and the American Speech and Hearing Association; and (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 contact Dr. Robert H. English, Portland Continuation Center, for information and guidance.

Courses required for speech correction programs offered during summer term are:

- Sp 370. **Phonetics.** 3 hours. (UO)
- Sp 371. **Speech Science.** 3 hours. (UO)
- Sp 481. **Speech Pathology.** (G) (First Term) 3 hours. (UO)
- Sp 482. **Speech Pathology.** (G) (Second Term) 3 hours. (UO)
- Sp 483. **Speech Pathology.** (G) (Third Term) 3 hours. (UO)
- Sp 484, 485, 486. **Clinical Speech Therapy.** (G) 2 hours. (UO)
- Sp 487. **Audiology.** (G) (Second Term) 3 hours. (UO)
- Sp 488. **Audiology.** (G) (Second Term) 3 hours. (UO)

Student wishing to pursue an undergraduate level speech correction program at Portland State College should consult with a departmental adviser. Any of the 400 courses listed below may be used for graduate credit.

- Sp 370. **Phonetics.** 3 hours. (PSC)
- Sp 371. **Speech Science.** 3 hours. (PSC)
- Sp 481. **Speech Pathology.** (First Term) 3 hours. (PSC)
- Sp 482. **Speech Pathology.** (Second Term) 3 hours. (PSC)
- Sp 483. **Speech Pathology.** (Third 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 Corrective 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 speech correction are scheduled for one and two hour periods, four mornings a week for six weeks 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 for the speech clinic should be directed to Mr. Robert Casteel, Clinic Supervisor, Portland Continuation Center, 1633 S.W. Park Avenue, Portland, Oregon 97201.

Description of Courses

COURSE NUMBERING SYSTEM: Courses in this catalog are numbered in accordance with the course-numbering system of the Oregon State System of Higher Education. Lower-division (freshman and sophomore) courses are numbered below 300. Upper-division (junior and senior) courses are numbered from 300 to 499. Graduate courses are numbered 500-599. A large (G) following the title of a 400 course indicates that course may be taken for either major or minor graduate credit. A small (g) following title of a 400 course indicates that course is approved for graduate minor credit only. Certain designated Portland State College courses at the 400 level offer graduate credit in the MAT/MST. Numbers less than 50 indicate non-credit courses.

Students seeking graduate credit to be applied toward degree programs at schools other than Portland State College should register either for 500-level courses or for those 400-level courses which carry a (G) or (g) with the course title.

Eight-Week Term

Anthropology

Portland State College Program

Anth 101. **General Anthropology.** (First Term) 3 hours. (PSC)

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

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

Hunting, pastoral, and agricultural societies south of Sahara Desert. Culture history and development; languages and arts; social structure; impact of colonialism, industrialization, missions, and political independence upon indigenous societies and cultures. Prerequisite: upper division standing.

Anth 361. **Race and Culture.** 3 hours. (PSC)

Classification and distribution of human races; cultural factors in racial evolution; influence of mating, marriage, population size, territorial grouping and social attitudes upon race formation and distribution; race and mental endowment; attitudes towards race in human relations; and critique of racist theories. Prerequisite: upper division standing and 9 hours in anthropology, sociology, or psychology; or consent of instructor.

Anth 381. **Language and Culture.** 3 hours. (PSC)

The nature of language and its functions in human society and culture. Language in relation to status groupings, social classes, occupations, nationalism, intercultural and international relations. Relation of linguistic structure to thought processes and communication. Prerequisite: upper division standing and 9 hours in anthropology, sociology, or psychology; or consent of instructor.

Courses Approved for Graduate Credit in MAT/MST Program

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. Prerequisite: 9 hours of anthropology, or consent of instructor, and upper division standing.

Anth 480. Introduction to Linguistics. 3 hours. (PSC)

An introduction to linguistics. Language as part of culture. Language stocks and speech communities. Historical and structural analysis of language. Systems of writing. The functions of language and problems of meaning. Prerequisite: upper division standing.

Anth 507. Seminar: The Biology of Race. 3 hours. (PSC)

Portland Continuation Center Program

Anth 417. The American Indian (North America). (First Term) (G) 3 hours. (UO)

Indian life in Central, South, and North America before white contact; contemporary Indian life where groups still survive. Prerequisite: Anth 314, 315, 316 or consent of instructor.

Anth 526. Linguistics. (First Term) 3 hours. (UO)

The relation of language to culture; nature and forms of language; influence of linguistic patterns on thought; sounds of language—phonetics and phonemics; linguistic structures; morphophonemics and morphology; semantics; techniques of linguistic recording and analysis; field work. Prerequisite: senior standing; Anth 207, 208, 209 or two years of a foreign language; consent of instructor.

Applied Science

Portland State College Program

ASc 113. Introduction to Applied Science. (Third Term) 2 hours. (PSC)

Nature, scope and meaning of applied science; its importance in modern society and national life. Basic preparation in the rudiments and working methods of applied science. Prerequisite: ASc 111, 112, or consent of instructor.

ASc 117. Graphics. (Third Term) 3 hours. (PSC)

Fundamental principles and the rules of composition of the graphic language of engineering. Three 2-hour periods. Prerequisite: ASc 115, 116, or consent of instructor.

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

Basic properties, behavior, and survey of industrial applications 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 196. Basic Design. (Second Term) 3 hours. (PSC)

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

AA 202. Survey of Visual Arts. (Second 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 or 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. Maximum credit: 9 term hours.

AA 257. Jewelry and Metalsmithing. 2 or 3 hours. (PSC)

Introduction to the handworking of nonferrous metals—copper, brass, pewter, silver, gold. Development of design for metal objects. Enameling on metal; centrifuge casting; lapidary work. Maximum credit: 9 term hours.

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

Instruction in the use of oil color, water color, and other media. Maximum credit: 12 term hours.

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

Training in observation and selection of significant elements. Maximum credit: 9 term hours.

AA 292. Water Color. 2 or 3 hours. (PSC)

The technique and use of water color, with special attention to its characteristics as a painting medium. Emphasis on landscape material. May be substituted for third term AA 291 to meet lower-division major requirement. Open to nonmajors with 4 hours of work in AA 291 or with consent of instructor.

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. (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 398. Advanced Figure Composition. (Third 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 (Printmaking). 2 or 3 hours. (PSC)

Consent of instructor and Executive Officer in Art. Maximum credit: 12 term hours in any one area.

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

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

AA 401. **Special Studies: Advanced Ceramics.** 3 hours. (PSC)
(See Special Programs Section.)

AA 401. **Special Studies: Workshop: Teaching in Elementary School Art.** 3 hours. (PSC)

AA 414. **Art in the Secondary School.** (First 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. Prerequisite: Admission to a program of teacher education and Ed 310, 312, or consent of instructor.

Courses Approved for Graduate Credit in MAT/MST Program

AA 447. **History of Oriental Art.** (Second 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. Second term: Chinese. Open to nonmajors.

AA 490. **Advanced Painting.** 2 or 3 hours. (PSC)

AA 494. **Advanced Sculpture.** 2 or 3 hours. (PSC)

AA 501. **Research: Workshop: Teaching in Elementary School Art.** 3 hours. (PSC)

AA 501. **Research (Sculpture and Painting).** 2-4 hours. (PSC)

AA 503. **Thesis.** 2-4 hours. (PSC)

AA 505. **Reading and Conference.** 2-4 hours. (PSC)

Portland Continuation Center Program

AA 490. **Advanced Painting.** (g) 2 to 3 hours. (UO)

Advanced problems in portrait figure, landscape, and still life, in all media. Prerequisite: 12 hours in AA 290 or AA 390.

AA 494. **Advanced Sculpture.** (G) 2 to 3 hours. (UO)

Coordination of sculpture with related fields of architectural, landscape, interior, and industrial design.

Art Education

Portland Continuation Center Program

ArE 409. **Practicum: Art Experiences for the Mentally Retarded.** (G) 3 hours. (UO)

(See Special Programs Section.)

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

(See Special Programs Section.)

Biology

Portland State College Program

Bi 201, 202. **General Botany.** 3 hours each. (PSC)

An introduction to the morphology, physiology, and anatomy of flowering plants; brief survey of plant kingdom. Two lectures; two 2-hour laboratory periods.

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

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

Courses Approved for Graduate Credit in MAT/MST Program

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. Two lectures; one 2-hour recitation period.

Bi 507. **Seminar: Principles of Systematics.** 4 hours. (PSC)

Portland Continuation Center Program

Bi 446. **Evolution.** (g) 3 hours. (OCE)

Evidences of evolution; mechanisms of evolution, including genetic variation, selection, and other factors. Three lectures.

Business (See also Secretarial Science)

Accounting

Portland Continuation Center Program

Ac 507. **Seminar: Accounting in Administration.** 3 hours. (UO)

Business Administration (See also Special Programs Section)

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. (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 221. Elements of Production. 3 hours. (PSC)

Principles of management as applied to commercial and industrial concerns.

BA 222. Elements of 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. Elements of 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 measurements and reporting for management planning, policy, and control purposes. Methods of data accumulation and control of materials, labor, and indirect costs. Job and process cost systems. Overhead budgeting; departmentalization; fixed and variable cost concepts. Prerequisite: BA 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 339. 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 determination 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 383, 384, 385. Accounting Theory. 3 hours each. (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 411. Business Law. (First Term) 3 hours. (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. A maximum of three hours credit is allowed for BA 256 and BA 411.

BA 414. Real Estate Law. 3 hours. (PSC)

Legal estates in land, deeds, mortgages; adverse possession; easements; zoning; property rights and liabilities. Prerequisite: BA 411, or consent of instructor.

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.

Courses Approved for Graduate Credit in MAT/MST Program

BA 415. Marketing Research. 3 hours. (PSC)

Research methods in obtaining data for marketing managerial decisions; impact of research in today's marketing structure, proper use of research. Research design; problem of formulation; exploratory research; methodology involved in practical application to a given problem; data summary and interpretation; report writing. Prerequisites: BA 223, BA 366.

BA 416. 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. Prerequisite: BA 411, or consent of instructor.

BA 436. Investments. 3 hours. (PSC)

The principles of investment in stocks and bonds, analysis of securities from the qualitative and quantitative points of view. Security markets. Current regulatory practices. Prerequisites: BA 213, BA 222, BA 359, or consent of instructor.

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 453. Business Policies. 3 hours. (PSC)

The interdependence of the different departments of a business concern. Designed to provide an integrated view of business operations, and to coordinate the more specialized instruction in the field of business administration. Prerequisites: BA 221, 222, 223, or consent of instructor.

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 507. Seminar: Economic Concepts in Business Education. 3 hours. (PSC)

Marketing and Industrial Management

Portland Continuation Center Program

MIM 503. **Thesis.** Hours to be arranged. (UO)

By special arrangement with the Coordinator of the MBA program in Portland.

MIM 507. **Seminar: Industrial Administration.** 3 hours. (UO)

An integration of the concepts and techniques which are basic to sound industrial administration. In the development of a conceptual frame work emphasis is placed upon topics such as scientific management, technological change, organization structure and dynamics, decision making and related subjects. In turn, stress is placed upon the significance of techniques such as production control, work measurement, statistical quality control, and the newer quantitative tools such as linear programming. Case studies are used to illustrate the application of these techniques.

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

The role of theory in the social sciences; research and theory dealing with organizational structure, leadership, communication, evaluation, decision making, control; an attempt to integrate traditional and behavioral-science approaches to organization and organizational behavior.

MIM 534. **Personnel Administration.** 3 hours. (UO)

Mobilizing and deploying the human resources of the enterprise, from the standpoint of the personnel-administration specialist; employment, training, evaluation, wage and salary administration; labor relations from the standpoint of the firm; specialist contributions to personnel programs.

Chemistry

Portland State College Program

Ch 106. **General Chemistry.** (Third Term) 4 hours. (PSC)

For students majoring in medical technology, pre dental, nursing, and liberal arts.

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

Principles of gravimetric analysis and volumetric analysis. Designed for pharmacy, pre dental, pre medical, and medical technology students. Prerequisite: Ch 106 or 206. Three lectures; two 3-hour laboratory periods.

Ch 407. **Seminar: Qualitative Analysis.** 1 hour. (PSC)

Courses Approved for Graduate Credit in MAT/MST Program

Ch 505. **Reading and Conference: Inorganic Chemistry.** 4 hours. (PSC)

Portland Continuation Center Program

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

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

Economics (See also Special Programs Section)

Portland State College Program

Ec 201, 202, 203. **Principles of Economics.** 3 hours each. (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 Ec 212.

Ec 375. **Economic Theory.** (First Term) 3 hours. (PSC)

Systematic study of the concepts and methods of current economic analysis with special attention to the neoclassical school. Includes work in the fields of value and distribution, fluctuations, employment, etc. Required of all majors. Prerequisite: Ec 201, 202, 203.

Courses Approved for Graduate Credit in MAT/MST Program

Ec 412. **Monetary and Banking Theory.** (Second 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.** 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 429. **Public Finance.** (First Term) 3 hours. (PSC)

Principles and problems of government financing. Expenditures, revenues, debt, and financial administration. Prerequisite: Ec 201, 202, 203.

Ec 489. **American Economic History.** (Third 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.

Portland Continuation Center Program

Ec 407. **Seminar: Economics for Secondary School Teachers.** (g) 3 hours. (OSU)

Analysis of current economic problems in the social studies curriculum—economics, American Problems and American history. Emphasis on the economic role of business and government, economic growth and stability, and international economic problems.

Ec 412. **Monetary and Banking Theory.** (Second Term) (G) 3 hours. (UO)

Analysis of the nature of money, effects of changes in the money supply, monetary controls used by the Federal Reserve System and the 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. (g) 3 hours. (UO)

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

Ec 429. Taxation and Fiscal Policy. (First Term) (G) 3 hours. (UO)

Critical analysis of taxes as sources of public revenue, with emphasis on tax theories and incidence. Effects of expenditure, tax, and debt policies of government upon the total economy. Prerequisite: Ec 201, 202, 203.

Ec 444. Labor Economics. (G) 3 hours. (UO)

Economic analysis applied to the labor market, with particular emphasis on wage determination, the relation between wages and prices, and the relation between wages and employment. Prerequisite: Ec 201, 202, 203.

Ec 489. American Economic History. (Third Term) (G) 3 hours. (UO)

All phases of the economic development of the United States.

Education (See also Secretarial Science)

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, and 6 hours of Anthropology or Sociology.

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 measurement 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 pro-

gram. 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, Ed 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 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. Prerequisites: Eng 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: Eng 388 or consent of instructor.

Ed 401. Special Studies. 3 hours. (PSC)**Ed 408. Special Secondary Methods.** 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. Courses include (a) social science, (b) music, (c) literature, (d) composition, (e) science, (f) mathematics, (g) modern foreign languages, (h) business education, (i) health, (j) physical education. 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, (i) 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 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.

**Courses Approved for Graduate Credit
in MAT/MST Program**

Ed 424. Measurement in Education. 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. 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 442. Group Dynamics. 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. 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, 312, or consent of instructor.

Ed 450. Preprimary Education: Kindergarten. 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 481. Guidance for the Classroom Teacher. 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. 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 school may be examined. Prerequisites: senior standing or consent of instructor.

Ed 485. Principles and Practices of Guidance Services. 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 507. Seminar: Building a Modern Educational Environment Within the School (Part of the Oregon Program). 3 hours. (PSC)

For superintendents, principals and other administrators. New developments in education which are of significance to the curriculum and organizational patterns of high schools, junior high schools, and elementary schools. Such topics as flexible scheduling, team teaching, new curriculum developments, clinical supervision, and the internship, will be explored. Experts who have made significant contributions to education will be utilized in development of the topics.

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

Ed 507. Seminar: History of Education. 3 hours. (PSC)

Ed 507. Seminar: History of American Education. 3 hours. (PSC)

Ed 507. Seminar: Intergroup 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: Reading in High School and College. 3 hours. (PSC)

Ed 523. School Activities, Elementary and Secondary. 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 547. Advanced Methods—Special Subject Fields in the Elementary School. 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. (a) Art, (b) Music, (c) Language Arts, (d) Social Studies, (e) Reading, (f) Science, (g) Mathematics, (h) Health, (i) Physical Education.

Ed 548. Advanced Methods—Special Subject Fields in the Secondary School. 3 hours. (PSC)

Concentrated study of recent trends and recurring problems in selecting, organ-

izing, evaluating and presenting concepts, information, and materials of instruction in a subject taught in the secondary school. (a) Art, (b) Social Science, (c) Music, (d) English, (e) Science, (f) Mathematics, (g) Modern Foreign Languages, (h) Improvement of Reading.

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.

Portland Continuation Center Program

Ed 10. Reading Improvement. (2) (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. (Enrollment limited to 25).

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 409. Practicum: Teaching the Mentally Retarded. (G) 3 hours. (UO)

(See Special Programs Section.)

Ed 424. Measurement in Education. (G) 3 hours. (UO)

Use and interpretation of informal and standardized tests as supervisory and guidance instruments for the diagnosis, analysis, evaluation, and improvement of instruction in the elementary and secondary schools. Test planning, item writing, essay testing, administration and scoring, analysis of scores and grade assignment. The course includes simple statistics of test interpretation.

Ed 427. School Activities. (G) 3 hours. (UO)

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

Ed 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.

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

Introduction to extreme school learning problems; 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 435. Audio-Visual Aids. (G) 3 hours. (OCE)

Survey of the development and use of classroom films, slides, radio, electrical transcriptions, and other kindred visual and auditory aids in teaching; sources and appraisals of audio-visual aids materials, and their practical use.

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. (G) 3 hours. (UO)

A general review of the growth and development of education in relation to the civilization of the times; emphasis on development of educational philosophies.

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. (G) 3 hours. (UO)

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

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

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

Ed 464. The Mentally Retarded Child. (G) 3 hours. (UO)

The psychology, education, and guidance of the mentally retarded child.

Ed 464. The Mentally Retarded Child. (G) 3 hours. (UO)

(See Special Programs Section.)

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

Analysis of difficulty in the skills of reading, spelling, arithmetic, and handwriting; 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 467. Applied Mental Hygiene. (G) 3 hours. (OCE)

The development of personality, personality conflicts, mechanisms of adjustment, and the basic principles of mental hygiene. Emphasis on application of mental hygiene principles to personality development of teachers and of children. Prerequisite: Psy 201, 202.

Ed 468. 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, spelling, arithmetic, and handwriting; location and creation of remedial instrumental materials. 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, or consent of instructor.

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 476. School Law and Organization. (G) 3 hours. (OCE)

The historic and current legal authority of federal, state, county, and local governments in the organization and administration of public school education. Special emphasis placed on the Oregon statutes as they apply to school organization, administration, and teaching.

Ed 484. The Junior High School. (G) 3 hours. (UO)

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

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 489. Curriculum for the Mentally Retarded. (G) 3 hours. (UO)

(See Special Programs Section.)

Ed 491. Social Education. (G) 3 hours. (UO)

Structure and functioning of society, as a background for the study and evaluation of education in its varied forms; the contribution of sociological principles and findings to the improvement of educational practices.

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

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

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

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

Ed 507. Seminar: Work Experience. 3 hours. (OSU)

Ed 508. Workshop: Aerospace. 6 hours. (OSU)

(See Special Programs Section.)

Ed 508. Workshop: Creative Writing in the Elementary School. 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: Problems of Adolescents. 3 hours. (OSU)

(See Special Programs Section.)

Ed 508. Workshop: Problems of Adolescence. 3 hours. (OSU)

Ed 509. Practicum: Remedial Clinic. 3 hours. (UO)

Intensive clinical work involving the complete range of problems in Remedial Education. Prerequisite: satisfactory work at the Ed 409 level and consent of instructor.

Ed 511. Recent Educational Trends and Problems. 3 hours. (OSU)

Trends, problems, and developments in all fields of education. Prerequisite: 24 hours of upper division education including student teaching.

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

Methods, techniques, and tools; scientific method; locating and formulating problems; solving problems; necessary statistical tools; collection and interpretation of data; preparing research reports.

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

The nature and procedures of research in education; special techniques of thesis, field study, research paper, and dissertation. Open to graduate students majoring in other fields. Does not take the place of individual supervision of the student's thesis. An introductory course in statistics is desirable preparation.

Ed 515. Educational Statistics. 3 hours. (UO)

Technique in quantitative and experimental methods. Calculus not required.

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

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

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

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

Ed 536. Language Arts in the Elementary School. 3 hours. (UO)

The role of language arts in the elementary-school program; objectives; research findings on language development; the teaching of spelling, writing, and speaking-listening skills; newer instructional materials; testing and evaluation.

Ed 537. Reading in the Elementary School. 3 hours. (UO)

Nature of the reading process, objectives, organization of a desirable reading program; reading readiness, reading skills; procedures and materials for developing children's reading abilities; methods of diagnosing difficulties and evaluating progress; research findings concerning the teaching of children to read.

Ed 538. Mathematics in the Elementary School. 3 hours. (UO)

Number abilities needed by children; research findings in mathematics education; designing number experiences; theories of teaching, desirable teaching procedures, selection and use of materials.

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 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.

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. 3 hours. (UO)

Interpersonal relationships in administration; school-board powers, duties, roles, relationships; the superintendency—roles, responsibilities, issues, problems; problems of staff personnel; student personnel problems at the local district level; problems and issues relating to the development of effective school-community relationships.

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

The role of the supervisor in keeping education geared to the changing demands of society; theories of leadership; group processes and individual conference techniques; action research and related approaches to curriculum change; analysis of concrete supervisory problems.

Ed 575. School Finance. 3 hours. (UO)

The problems of school finance and business management; sources of school income; relationship to the state financial structure; budgeting and accounting. Includes the construction of a school budget. Prerequisite: work in administration and organization; or consent of instructor.

Ed 576. School Buildings. 3 hours. (UO)

Study of the problems involved in planning, financing, and construction of school buildings; care and maintenance of buildings; problems of equipment. Includes

PORTLAND SUMMER TERM 1964

CLASS SCHEDULE

Prerequisites

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

Graduate Credit

All 500 level courses are graduate courses. Courses at the 400 level which are approved for graduate credit in Portland State College's MAT/MST Program are indicated in this schedule by an (M) following the course title.* Students seeking graduate credit to be applied toward degree programs at schools other than Portland State College should register either for 500 level courses or for those 400 level courses which carry a (G) or (g) with the course title.

* There are certain unavoidable discrepancies in the (M) designations between the following schedule and foregoing course listings with descriptions. In each such instance, the information in the schedule prevails.

EIGHT WEEK TERM

ANTHROPOLOGY

Inst.	Dept. and No.	Course Title	Cr. Hrs.	Sec. No.	Day and Meeting Time	Room	Instructor
(PSC)	Anth 101.	General Anthropology (First Term)	3	1	MTWTh 9-9:50 am;	258 SH	Newman
(PSC)	Anth 305.	Peoples and Cultures of Africa	3	1	MTWTh 8-8:50 am;	203 SH	Frantz
(PSC)	Anth 361.	Race and Culture	3	1	MTWTh 11-11:50 am;	254 SH	Newman
(PSC)	Anth 381.	Language and Culture	3	1	MTWTh 12-12:50 am;	258 SH	Dusenberry
(PSC)	Anth 417.	Indians of North America	3	1	MTWTh 1-1:50 pm;	254 SH	Dusenberry
(UO)	Anth 417.	The American Indian (North American) (First Term) (G)	3	1	MTWTh 1-1:50 pm;	254 SH	Dusenberry
(PSC)	Anth 480.	Introduction to Linguistics	3	1	MW 6-7:50 pm;	258 SH	Dusenberry
(PSC)	Anth 507.	Seminar: The Biology of Race	3	1	MTWTh 12-12:50 am;	196 SH	Newman
(UO)	Anth 526.	Linguistics (First Term)	3	1	MW 6-7:50 pm;	258 SH	Dusenberry

APPLIED SCIENCE

(PSC)	ASc 113.	Introduction to Applied Science (Third Term)	2	1	MW 6-7:30 pm;	319 OM	Erzurumlu
(PSC)	ASc 117.	Graphics (Third Term)	3	1	TTh 6-9:30 pm;	319 OM	Jannsen
(PSC)	ASc 213.	Properties of Materials	3	1	MW 6-7:50 pm;	317 OM	Jannsen
(PSC)	ASc 214.	Dynamics of Solids	3	1	MW 8-9:50 pm;	319 OM	Erzurumlu

ART (See also Special Programs section of catalog)

(PSC)	AA 196.	Basic Design (Second Term)	3	1	TTh 6-9:00 pm;	201 SPH	Muller
(PSC)	AA 202.	Survey of Visual Arts (Second Term)	3	1	MTWTh 9-9:50 am;	490 SPH	Huntington
(PSC)	AA 217.	Lettering	1	1	W 1-3:50 pm;	335 SPH	Orbeck
(PSC)	AA 217.	Lettering	1	2	T 6-8:30 pm;	335 SPH	Svaren

DIVISION OF CONTINUING EDUCATION

Inst.	Dept. and No.	Course Title	Cr. Hrs.	Sec.	Day and Meeting Time	Room	Instructor
(PSC)	AA 256.	Weaving	2-3	1	MTWTh 10-11:50 am;	334 SPH	Born
(PSC)	AA 257.	Jewelry and Metalsmithing	2-3	1	MTWTh 8-9:50 am;	292 SPH	R. Morton
(PSC)	AA 290.	Painting	2-3	1	MTWTh 8-9:50 am;	241 SPH	Fessley
(PSC)	AA 290.	Painting	2-3	2	MTWTh 10-11:50 am;	241 SPH	Fessley
(PSC)	AA 290.	Painting	2-3	3	MW 6-9:00 pm;	241 SPH	Muller
(PSC)	AA 290.	Painting	2-3	4	TTh 6-9:00 pm;	241 SPH	staff
(PSC)	AA 291.	Drawing	2-3	1	MTWTh 1-2:50 p.m.	243 SPH	Rock
(PSC)	AA 292.	Watercolor	2-3	1	MTWTh 10-11:50 am;	243 SPH	Prasch
(PSC)	AA 298.	Sketching	1	1	W 6-8:30 pm;	243 SPH	staff
(PSC)	AA 311.	Art in the Elementary School (First Term)	3	1	MTWTh 8-9:50 am;	201 SPH	Munro
(PSC)	AA 311.	Art in the Elementary School (First Term)	3	2	MTWTh 10-11:50 am;	235 SPH	Colecott
(PSC)	AA 312.	Art in the Elementary School (Second Term)	3	1	MTWTh 10-11:50 am;	201 SPH	Munro
(PSC)	AA 312.	Art in the Elementary School (Second Term)	3	2	MTWTh 1-2:50 pm;	235 SPH	Wahlstrom
(PSC)	AA 313.	Art in the Elementary School (Third Term)	3	1	MTWTh 10-11:50 am;	335 SPH	Wahlstrom
(PSC)	AA 313.	Art in the Elementary School (Third Term)	3	2	MW 6-9:00 pm;	235 SPH	Svaren
(PSC)	AA 398.	Advanced Figure Composition (Third Term)	3	1	MTWTh 10-11:50 am;	249 SPH	Heidel
(PSC)	AA 401.	Special Studies (Printmaking)	2-4	1	MTWTh 3-4:50 pm;	292 SPH	Rock
(PSC)	AA 401.	Special Studies	2-4	2	By Arrangement;	249 SPH	Heidel
(PSC)	AA 401.	Special Studies: Workshop, Teaching in Elem. School Art			(See Special Programs p. 16)		
(PSC)	AA 414.	Art in the Secondary School (First Term)	3	1	MTWTh 10-11:50 am;	292 SPH	Morton
(PSC)	AA 447.	History of Oriental Art (Second Term) (M)	3	1	MTWTh 8-8:50 am;	490 SPH	Huntington
(PSC)	AA 490.	Advanced Painting (M)	2-3	1	MTWTh 1-2:50 pm;	249 SPH	Prasch
(UO)	AA 490.	Advanced Painting (g)	2-3	1	MTWTh 1-2:50 pm;	249 SPH	Prasch
(PSC)	AA 494.	Advanced Sculpture (M)	2-3	1	MW 6-9:00 pm;	237 SPH	Littman
(UO)	AA 494.	Advanced Sculpture (G)	2-3	1	MW 6-9:00 pm;	237 SPH	Littman
(PSC)	AA 501.	Research: Workshop, Teaching in Elementary School Art (M)			(See Special Programs p. 16)		
(PSC)	AA 501.	Research (Sculpture and Painting)	2-4	1	By Arrangement	Littman/Prasch/ Heidel/Muller	
(PSC)	AA 503.	Thesis	2-4	1	By Arrangement	Littman/Prasch/ Heidel/Muller	
(PSC)	AA 505.	Reading and Conference	2-4	1	By Arrangement	Heidel/Muller	

ART EDUCATION (See Special Programs section of catalog)

BIOLOGY (See also Special Programs section of catalog)

(PSC)	Bi 201.	General Botany (June 22 to July 17)	3	1	MTWTh 8-11:50 am;	314 OM	Clarkson
(PSC)	Bi 202.	General Botany (July 20 to Aug 14)	3	1	MTWTh 8-11:50 am;	314 OM	Clarkson
(PSC)	*Bi 231, 232, 233.	Human Anatomy and Physiology					
	Bi 231.	Human Anatomy and Physiology (June 22 to July 8)	3	1	MTWTh 8-9:50 am;	312 OM	Crawford
		Laboratory			MTWTh 10-12:50;	312 OM	Crawford
	Bi 232.	Human Anatomy and Physiology (July 9 to July 28)	3	1	MTWTh 8-9:50 am;	312 OM	Crawford
		Laboratory			MTWTh 10-12:50;	312 OM	Crawford
	Bi 233.	Human Anatomy and Physiology (July 29 to Aug 14)	3	1	MTWTh 8-9:50 am;	312 OM	Crawford
		Laboratory			MTWTh 10-12:50;	312 OM	Crawford
(PSC)	Bi 422.	Introduction to Genetics (M)	3	1	MTTh 8-9:50 am;	313 OM	Walker
(OCE)	Bi 446.	Evolution (g)	3	1	MTWTh 12-12:50;	112 OM	Walker
(PSC)	Bi 507.	Seminar: Principles of Systematics (M)	4	1	MTWThF 11-11:50 am;	313 OM	Clarkson

BUSINESS (See also Secretarial Science)

(UO)	Ac 507.	Seminar: Accounting in Administration	3	1	MW 6-7:50 pm;	196 SH	Ziebarth
(PSC)	BA 111.	Introduction to Business and Industry	3	1	MTWTh 11-11:50 am;	145 SH	Robinson
(PSC)	BA 122.	Principles of Management	3	1	MTWTh 10-10:50 am;	145 SH	A. Clark
(PSC)	BA 211.	Principles of Accounting (First Term)	3	1	MTWTh 8-8:50 am;	247 SH	Hewitt

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EIGHT WEEK TERM

Inst.	Dept. and No.	Course Title	Cr. Hrs.	Sec.	Day and Meeting Time	Room	Instructor
(PSC)	BA 211.	Principles of Accounting (First Term)	3	2	MW 6-7:50 pm;	103 SH	Schmeklee
(PSC)	BA 212.	Principles of Accounting (Second Term)	3	1	MW 8-9:50 pm;	103 SH	Tassin
(PSC)	BA 213.	Principles of Accounting (Third Term)	3	1	TTh 6-7:50 pm;	103 SH	Tassin
(PSC)	BA 213.	Principles of Accounting (Third Term)	3	2	MTWTh 9-9:50 am;	110 OM	Tassin
(PSC)	BA 221.	Elements of Production	3	1	MTWTh 9-9:50 am;	145 SH	Schoenauer
(PSC)	BA 222.	Elements of Finance	3	1	MTWTh 11-11:50 am;	111 OM	A. Clark
(PSC)	BA 223.	Elements of Marketing	3	1	MW 8-9:50 pm;	158 SH	Pratt
(PSC)	BA 223.	Elements of Marketing	3	2	MTWTh 11-11:50 am;	158 SH	Pratt
(PSC)	BA 238.	Salesmanship	3	1	MTWTh 10-10:50 am;	225 SH	Pratt
(PSC)	BA 314.	Principles of Cost Accounting	3	1	MW 6-7:50 p.m.;	224 SH	Hewitt
(PSC)	BA 329.	Production Management	3	1	MW 6-7:50 p.m.;	145 SH	A. Clark
(PSC)	BA 359.	Advertising	3	1	MTWTh 9-9:50 am;	221 SH	Schmeklee
(PSC)	BA 359.	Finance Management	3	1	MTWTh 10-10:50 am;	147 SH	Schoenauer
(PSC)	BA 366.	Marketing Management	3	1	TTh 8-9:50 pm;	158 SH	Dodge
(PSC)	*BA 383, 384, 385.	Accounting Theory (June 22 to July 8)	3	1	MTWTh 8-10:50 am;	245 SH	Matthies
	BA 384.	Accounting Theory (July 9 to July 28)	3	1	MTWTh 8-10:50 am;	245 SH	Matthies
	BA 385.	Accounting Theory (July 29 to Aug 14)	3	1	MTWTh 8-10:50 am;	245 SH	Matthies
(PSC)	BA 411.	Business Law (First Term)	3	1	MTWTh 11-11:50 am;	321 SH	Dehner
(PSC)	BA 414.	Real Estate Law	3	1	MW 6-7:50 pm;	221 SH	Dehner
(PSC)	BA 415.	Marketing Research (M)	3	1	MTWTh 8-8:50 am;	145 SH	Dodge
(PSC)	BA 416.	Real Estate Principles (M)	3	1	MW 8-9:50 pm;	245 SH	Dehner
(PSC)	BA 436.	Investments (M)	3	1	TTh 6-7:50 pm;	245 SH	Schoenauer
(PSC)	BA 451.	Personnel Management (M)	3	1	TTh 8-9:50 pm;	245 SH	Robinson
(PSC)	BA 453.	Business Policies (M)	3	1	TTh 6-7:50 pm;	221 SH	Robinson
(PSC)	BA 460.	Purchasing (M)	3	1	MW 8-9:50 pm;	225 SH	Schmeklee
(PSC)	BA 462.	Retail Management (M)	3	1	TTh 6-7:50 pm;	224 SH	Dodge
(PSC)	BA 487.	Advanced Cost Accounting	3	1	MW 8-9:50 pm;	188 SH	Hewitt
(PSC)	BA 507.	Seminar: Economic Concepts in Business Education (M)	3	1	MTWTh 1-1:50 pm;	325 SH	Robertson
(UO)	MIM 503.	Thesis			By special arrangement with the coordinator of the MBA program in Portland		staff
(UO)	MIM 507.	Seminar: Industrial Administration	3	1	TTh 6-7:50 pm;	145 SH	Ziebarth
(UO)	MIM 531.	Theory of Business Organization (G)	3	1	TTh 6-7:50 pm;	154 SH	Wickersham
(UO)	MIM 534.	Personnel Administration (G)	3	1	MW 6-7:50 pm;	154 SH	Wickersham

CHEMISTRY

(PSC)	Ch 106.	General Chemistry (Third Term)	4	1	MTThF 8-8:50 am;	301 OM	Stancilf
		Laboratory			TTh 11-30-2:00 pm;	306 OM	Stancilf
(OSU)	*Ch 226, 227.	Organic Chemistry					
	Ch 226.	Organic Chemistry (June 22 to July 17)	5	1	MTThF 9-10:50 am;	301 OM	Roberti
		Lab A			MTThF 12-3:50 pm;	362 OM	Ferguson
		Lab B			MTThF 12-3:50 pm;	308 OM	Levinson
	Ch 227.	Organic Chemistry (July 20 to Aug. 14)	5	1	MTThF 9-10:50 am;	301 OM	Roberti
		Lab A			MTThF 12-3:50 pm;	362 OM	Roberti
		Lab B			MTThF 12-3:50 pm;	308 OM	Levinson
(PSC)	Ch 234.	Quantitative Analysis	5	1	MWTh 6-7:15 pm;	301 OM	Moore
		Laboratory			MWTh 7-15-10 pm;	306 OM	Moore
(PSC)	Ch 405.	Reading and Conference: Elementary Physical Chemistry	4	1	MTWTh 9-9:50 am;	121 OM	Silverman
		Lecture			W 1-5:00 pm;	306 OM	Silverman
		Lab					
(PSC)	Ch 407.	Seminar: Qualitative Analysis (Students enrolling in this course must enroll also in Ch 106 Gen- eral Chemistry, 8 week section.)	1	1	Lab MF 11-30-2;	304 OM	Stancilf
(PSC)	Ch 505.	Reading and Conference: Elementary Physical Chemistry	4	1	MTWTh 9-9:50 am;	121 OM	Silverman
		Lecture			W 1-5:00 pm;	306 OM	Silverman
		Lab					
(PSC)	Ch 505.	Reading and Conference: Inorganic Chemistry (M)	4	1	MTWThF 9-9:50 am;	121 OM	Brown, Silverman

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DIVISION OF CONTINUING EDUCATION

ECONOMICS

Inst.	Dept. and No.	Course Title	Cr. Hrs.	Sec. No.	Day and Meeting Time	Room	Instructor
(PSC)	Ec 201.	Principles of Economics (First Term)	3	1	MTWTh 7-7:50 am	345 SH	Vaqr
(PSC)	Ec 201.	Principles of Economics (First Term)	3	2	MW 6-7:50 pm	301 SH	Phillips
(PSC)	Ec 202.	Principles of Economics (Second Term)	3	1	MTWTh 8-8:50 am	345 SH	Vaqr
(PSC)	Ec 203.	Principles of Economics (Third Term)	3	1	MTWTh 9-9:50 am	301 SH	McLean
(PSC)	Ec 212.	Outlines of Economics	3	1	MTWTh 9-9:50 am	225 SH	Halley
(PSC)	Ec 375.	Economic Theory (First Term)	3	1	MTWTh 1-1:50 pm	352 SPH	Phillips
(OSU)	Ec 407.	Seminar: Economics for Secondary School Teachers (g)	3	1	MTWTh 10-10:50 am	345 SH	Lovell
(PSC)	Ec 412.	Monetary and Banking Theory (Second Term)	3	1	MTWTh 11-11:50 am	431 SPH	Vaqr
(UO)	Ec 412.	Monetary and Banking Theory (Second Term) (G)	3	1	MTWTh 11-11:50 am	431 SPH	Vaqr
(PSC)	Ec 417.	Contemporary Economic Problems (M)	3	1	MW 6-7:50 pm	303 SH	Halley
(UO)	Ec 417.	Contemporary Economic Problems (g)	3	1	MW 6-7:50 pm	303 SH	Halley
(PSC)	Ec 429.	Public Finance (First Term) (M)	3	1	MTWTh 2-2:50 pm	296 SH	Phillips
(UO)	Ec 429.	Taxation and Fiscal Policy (First Term) (G)	3	1	MTWTh 2-2:50 pm	296 SH	Phillips
(UO)	Ec 444.	Labor Economics (C)	3	1	MTWTh 9-9:50 am	347 SH	Lovell
(PSC)	Ec 489.	American Economic History (Third Term) (M)	3	1	MTWTh 7-7:50 am	183 SH	Halley
(UO)	Ec 489.	American Economic History (Third Term) (G)	3	1	MTWTh 7-7:50 am	183 SH	Halley

EDUCATION (See also Secretarial Science; see also Special Programs section of catalog)

(DCE)	Ed 10.	Reading Improvement	(2)	1	MW 6-7:50 pm	102 OM	Jenkins
(PSC)	Ed 310.	School in American Life	3	1	MTWTh 12-12:50	214 OM	Coddard
(PSC)	Ed 310.	School in American Life	3	2	MTWTh 8-8:50 am	183 SH	Ferrier
(PSC)	Ed 310.	School in American Life	3	3	MTWTh 9-9:50 am	158 SH	Ferrier
(PSC)	Ed 310.	School in American Life	3	4	MTWTh 11-11:50 am	183 SH	E. Owen
(PSC)	Ed 312.	Educational Psychology: Learning	3	1	MTWTh 12-12:50	103 OM	S. Clark
(PSC)	Ed 312.	Educational Psychology: Learning	3	2	MTWTh 8-8:50 am	103 OM	S. Clark
(PSC)	Ed 312.	Educational Psychology: Learning	3	3	MTWTh 1-1:50 pm	103 OM	Burgess
(PSC)	Ed 314.	Principles of Secondary Teaching	3	1	MTWTh 8-8:50 am	218 OM	Coddard
(PSC)	Ed 344.	Physical Education in the Grades	3	1	MTWTh 9-9:50 am	Gym	Victors
(PSC)	Ed 344.	Physical Education in the Grades	3	2	MTWTh 10-10:50 am	Gym	Victors
(PSC)	Ed 351.	School Health Programs	3	1	MTWTh 10-10:50 am	214 OM	Tichy
(PSC)	Ed 351.	School Health Programs	3	2	MTWTh 11-11:50 am	214 OM	Tichy
(PSC)	Ed 356.	Methods and Materials: Reading in the Elementary School	3	1	MTWTh 8-8:50 am	207 OM	Holboke
(PSC)	Ed 356.	Methods and Materials: Reading in the Elementary School	3	2	MTWTh 9-9:50 am	207 OM	Holboke
(PSC)	Ed 358.	Methods and Materials: Language Arts and Social Science	3	1	MTWTh 10-10:50 am	207 OM	W. Foster
(PSC)	Ed 358.	Methods and Materials: Language Arts and Social Science	3	2	MTWTh 11-11:50 am	207 OM	W. Foster
(PSC)	Ed 359.	Methods and Materials: Science and Mathematics	3	1	MTWTh 8-8:50 am	208 OM	E. Owen
(PSC)	Ed 359.	Methods and Materials: Science and Mathematics	3	2	MTWTh 9-9:50 am	208 OM	E. Owen
(PSC)	Ed 388.	Children's Literature and Library	3	1	MTWTh 8-8:50 am	214 OM	Mosher
(PSC)	Ed 388.	Children's Literature and Library	3	2	MTWTh 9-9:50 am	214 OM	Mosher
(PSC)	Ed 389.	Reading and Telling Children's Stories	3	1	MTWTh 12-12:50	213 OM	Petersen
(PSC)	Ed 389.	Reading and Telling Children's Stories	3	2	MW 6-7:50 pm	214 OM	L. LaRiviere
(PSC)	Ed 390.	Enriching Children's Reading	3	1	MTWTh 2-2:50 pm	214 OM	Petersen
(PSC)	Ed 401.	Special Studies	3	1	By Arrangement		staff
(PSC)	Ed 408.	Special Secondary Methods: Business Education	3	1	MTWTh 11-11:50 am	325 SH	Backlund
(PSC)	Ed 408.	Special Secondary Methods: Science	3	1	MTWTh 8-8:50 am	217 OM	Lange
(PSC)	Ed 408.	Special Secondary Methods: Social Science	3	1	MTWTh 9-9:50 am	218 OM	Coddard
(UO)	Ed 409.	Practicum: Remedial Clinic—Diagnosis (G)	3	1	By Arrangement	Shattuck School	McMenemy
(UO)	Ed 409.	Practicum: Remedial Clinic—Diagnosis (C)	3	2	By Arrangement	Shattuck School	Saeman
(UO)	Ed 409.	Practicum: Remedial Clinic—Remediation (G)	3	1	By Arrangement	Shattuck School	J. Brown

EIGHT WEEK TERM

Inst.	Dept. and No.	Course Title	Cr. Hrs.	Sec. No.	Day and Meeting Time	Room	Instructor
(UO)	Ed 409.	Practicum: Remedial Clinic—Remediation (G)	3	2	By Arrangement	Shattuck School	Saeman
(PSC)	Ed 415.	Student Teaching: Elementary	6	1	By Arrangement	Shattuck School	C. Low
(PSC)	Ed 416.	Student Teaching: Secondary	6	1	By Arrangement		H. Browne
(PSC)	Ed 424.	Measurement in Education (M)	3	1	MTWTh 10-10:50 am	112 OM	Burgess
(PSC)	Ed 424.	Measurement in Education (M)	3	2	MTWTh 11-11:50 am	112 OM	Burgess
(PSC)	Ed 424.	Measurement in Education (M)	3	3	MTWTh 9-9:50 am	112 OM	S. Clark
(UO)	Ed 424.	Measurement in Education (G)	3	1	MTWTh 10-10:50 am	112 OM	Burgess
(UO)	Ed 424.	Measurement in Education (G)	3	2	MTWTh 11-11:50 am	112 OM	Burgess
(UO)	Ed 424.	Measurement in Education (G)	3	3	MTWTh 10-10:50 am	110 OM	S. Clark
(UO)	Ed 427.	School Activities (G)	3	1	MTWTh 8-8:50 am	105 OM	Proppe
(UO)	Ed 427.	School Activities (G)	3	2	MTWTh 9-9:50 am	105 OM	Proppe
(UO)	Ed 428.	Psychology of Reading Instruction (G)	3	1	MTWTh 9-9:50 am	228 SH	W. Otto
(UO)	Ed 429.	Principles of Remedial Education (G)	3	1	MTWTh 11-11:50 am	358 SPH	McMenemy
(PSC)	Ed 435.	Audio-Visual Aids (M)	3	1	MTWTh 8-8:50 am	213 OM	Shaffer
(PSC)	Ed 435.	Audio-Visual Aids (M)	3	2	MTWTh 9-9:50 am	213 OM	Shaffer
(OCE)	Ed 435.	Audio-Visual Aids (G)	3	1	MTWTh 8-8:50 am	213 OM	Shaffer
(OCE)	Ed 435.	Audio-Visual Aids (G)	3	2	MTWTh 9-9:50 am	213 OM	Shaffer
(UO)	Ed 439.	The Gifted Child (G)	3	1	MTWTh 7-7:50 am	225 SH	Zwetschke
(UO)	Ed 439.	The Gifted Child (G)	3	2	MTWTh 8-8:50 am	225 SH	Zwetschke
(UO)	Ed 440.	History of Education (G)	3	1	MTWTh 7-7:50 am	112 OM	Fen
(PSC)	Ed 442.	Group Dynamics (M)	3	1	MTWTh 11-12:50	102 OM	Josephson
(PSC)	Ed 446.	Philosophy of Education (M)	3	1	MTWTh 8-8:50 am	201 SH	Fen
(PSC)	Ed 446.	Philosophy of Education (M)	3	2	MTWTh 10-10:50 am	228 SH	Fen
(PSC)	Ed 446.	Philosophy of Education (M)	3	3	MTWTh 1-1:50 pm	228 SH	Conroy
(PSC)	Ed 450.	Preprimary Education: Kindergarten (M)	3	1	MTWTh 12-12:50	150 SH	Mosher
(OSU)	Ed 460.	Psychology of Childhood (G)	3	1	MTWTh 1-1:50 pm	215 OM	H. Manning
(OSU)	Ed 460.	Psychology of Childhood (G)	3	2	MTWTh 12-12:50	215 OM	Reed
(OSU)	Ed 460.	Psychology of Childhood (G)	3	3	MTWTh 2-2:50 pm	121 OM	H. Manning
(OSU)	Ed 460.	Psychology of Childhood (G)	3	4	MTWTh 11-11:50 am	215 OM	Reed
(OSU)	Ed 461.	Psychology of Adolescence (G)	3	1	MTWTh 8-8:50 am	215 OM	Bernard
(OSU)	Ed 461.	Psychology of Adolescence (G)	3	2	MTWTh 9-9:50 am	335 SPH	Bernard
(OSU)	Ed 461.	Psychology of Adolescence (G)	3	3	MTWTh 2-2:50 pm	215 OM	Reed
(OSU)	Ed 461.	Psychology of Adolescence (G)	3	4	MTWTh 8-8:50 am	112 OM	Karr
(UO)	Ed 462.	Psychology of Exceptional Children (G)	3	1	MTWTh 9-9:50 am	215 OM	Hamerlynck
(UO)	Ed 462.	Psychology of Exceptional Children (G)	3	2	MTWTh 10-10:50 am	105 OM	Hamerlynck
(UO)	Ed 463.	The Maladjusted Child (G)	3	1	MTWTh 7-7:50 am	215 OM	J. Brown
(UO)	Ed 464.	The Mentally Retarded Child (G)	3	1	MTWTh 11-11:50 am	105 OM	Rowe
(UO)	Ed 465.	Diagnostic Techniques in the Basic Skills (G)	3	1	MTWTh 10-10:50 am	358 SPH	McMenemy
(OCE)	Ed 467.	Applied Mental Hygiene (G)	3	1	MTWTh 12-12:50	111 OM	Bernard
(UO)	Ed 468.	Remedial Techniques in the Basic Skills (G)	3	1	MTWTh 8-8:50 am	Shattuck School	J. Brown
(OSU)	Ed 468.	Diagnostic and Remedial Techniques in Reading (G)	3	1	MTWTh 8-8:50 am	Shattuck School	Saeman
(UO)	Ed 469.	Reading in High School and College (G)	3	1	MTWTh 9-9:50 am	341 SPH	Phelps
(OCE)	Ed 476.	School Law and Organization (G)	3	1	MTWTh 8-8:50 am	111 OM	Maindl
(PSC)	Ed 481.	Guidance for the Classroom Teacher (M)	3	1	MTWTh 9-9:50 am	345 SH	Bursch
(PSC)	Ed 484.	The Junior High School (M)	3	1	MTWTh 7-7:50 am	221 SH	Hummel
(UO)	Ed 484.	The Junior High School (G)	3	1	MTWTh 7-7:50 am	221 SH	Hummel
(PSC)	Ed 485.	Principles and Practices of Guidance Services (M)	3	1	MTWTh 11-11:50 am	225 SH	Bursch
(PSC)	Ed 485.	Principles and Practices of Guidance Services (M)	3	2	MTWTh 12-12:50	225 SH	Bursch
(PSC)	Ed 485.	Principles and Practices of Guidance Services (M)	3	3	MTWTh 7-7:50 am	103 SH	Barney
(OSU)	Ed 485.	Principles and Practices of Guidance Services (G)	3	1	MTWTh 11-11:50 am	225 SH	Bursch
(OSU)	Ed 485.	Principles and Practices of Guidance Services (G)	3	2	MTWTh 12-12:50	225 SH	Bursch
(OSU)	Ed 485.	Principles and Practices of Guidance Services (G)	3	3	MTWTh 7-7:50 am	103 SH	Barney
(OSU)	Ed 486.	Occupational and Educational Information (G)	3	1	MTWTh 7-7:50 am	224 SH	J. Manning

DIVISION OF CONTINUING EDUCATION

Inst. and No.	Dept. Course Title	Cr. Hrs.	Sec. No.	Day and Meeting Time	Room	Instructor
(OSU) Ed 486.	Occupational and Educational Information (G)	3	2	MTWTh 8-8:50 am; 224 SH	J. Manning	
(OSU) Ed 487.	Counseling Techniques (G)	3	1	MTWTh 8-8:50 am; 221 SH	Barney	
(OSU) Ed 487.	Counseling Techniques (G)	3	2	MTWTh 10-10:50 am; 221 SH	Barney	
(OSU) Ed 487.	Counseling Techniques (G)	3	3	MTWTh 8-8:50 am; 249 SH	Schuls	
(UO) Ed 491.	Social Education (G)	3	1	MTWTh 10-10:50 am; 103 OM	G. Guy	
(UO) Ed 491.	Social Education (G)	3	2	MTWTh 11-11:50 am; 103 OM	G. Guy	
(PSC) Ed 493.	Observation and Evaluation of Teaching	3	1	By Arrangement; Shattuck School	C. Low	
(OSU) Ed 501.	Research			By Arrangement		
(UO) Ed 501.	Research			By Arrangement		
(OSU) Ed 505.	Reading and Conference			By Arrangement		
(UO) Ed 505.	Reading and Conference			By Arrangement		
(PSC) Ed 507.	Seminar: Building a Modern Educational Environment Within the School (Part of the Oregon Program)	3	1	Dates and hours to be arranged	Hummel and staff	
(PSC) Ed 507.	Seminar: Comparative Education (M)	3	1	MTWTh 8-8:50 am; 347 SH	Cramer	
(PSC) Ed 507.	Seminar: History of Education (M)	3	1	MTWTh 7-7:50 am; 112 OM	Fen	
(PSC) Ed 507.	Seminar: History of American Education (M)	3	1	MTWTh 11-11:50 am; 347 SH	Cramer	
(PSC) Ed 507.	Seminar: Oregon School Law (M)	3	1	MTWTh 8-8:50 am; 111 OM	Meindl	
(PSC) Ed 507.	Seminar: Reading and Telling Children's Stories	3	1	MTWTh 8-8:50 pm; 214 OM	Peterson	
(PSC) Ed 507.	Seminar: Reading in High School and College (M)	3	1	MTWTh 9-9:50 am; 341 SPH	Phelps	
(OSU) Ed 507.	Seminar: Work Experience	3	1	MW 6-7:50 pm; 347 SH	Erickson	
(OSU) Ed 508.	Workshop: Problems of Adolescence	3	1	MTWTh 1-1:50 pm; 271 SH	Schuls	
(UO) Ed 509.	Practicum: Remedial Clinic	3	1	By Arrangement	W. Otto	
(OSU) Ed 511.	Recent Education Trends and Problems	3	1	MTWTh 8-8:50 am; 154 SH	Woods	
(OSU) Ed 512.	Research Procedures in Education	3	1	MTWTh 11-11:50 am; 228 SH	Patton	
(UO) Ed 512.	Research Procedures in Education	3	1	MTWTh 11-11:50 am; 228 SH	Patton	
(UO) Ed 515.	Educational Statistics	3	1	MTWTh 12-12:50; 245 SH	Zwetschke	
(UO) Ed 522.	Secondary-School Curriculum	3	1	MTWTh 7-7:50 am; 158 SH	D. James	
(UO) Ed 522.	Secondary-School Curriculum	3	2	MTWTh 8-8:50 am; 158 SH	D. James	
(PSC) Ed 523.	School Activities, Elementary and Secondary	3	1	CANCELLED		
(PSC) Ed 523.	School Activities, Elementary and Secondary	3	2	CANCELLED		
(UO) Ed 527.	Secondary-School Administration and Supervision	3	1	MTWTh 7-7:50 am; 249 SH	staff	
(UO) Ed 534.	Science in the Elementary School	3	1	MTWTh 10-10:50 am; 208 OM	Neideigh	
(UO) Ed 535.	Social Studies in the Elementary School	3	1	MTWTh 1-1:50 pm; 207 OM	Ralph Smith	
(UO) Ed 535.	Social Studies in the Elementary School	3	2	MTWTh 2-2:50 pm; 207 OM	Ralph Smith	
(UO) Ed 536.	Language Arts in the Elementary School	3	1	MTWTh 3-3:50 pm; 207 OM	D. Lee	
(UO) Ed 536.	Language Arts in the Elementary School	3	2	MTWTh 12-12:50; 207 OM	Phelps	
(UO) Ed 537.	Reading in the Elementary School	3	1	MTWTh 11-11:50 am; 385 SPH	D. Lee	
(UO) Ed 537.	Reading in the Elementary School	3	2	MTWTh 8-8:50 am; 258 SH	Phelps	
(UO) Ed 537.	Reading in the Elementary School	3	3	MTWTh 11-11:50 am; 221 SH	Holboke	
(UO) Ed 538.	Mathematics in the Elementary School	3	1	MTWTh 11-11:50 am; 208 OM	Neideigh	
(UO) Ed 538.	Mathematics in the Elementary School	3	2	MTWTh 1-1:50 pm; 208 OM	Neideigh	
(PSC) Ed 542.	Social Foundations of Education (M)	3	1	MTWTh 10-10:50 am; 103 OM	G. Guy	
(PSC) Ed 542.	Social Foundations of Education (M)	3	2	MTWTh 11-11:50 am; 103 OM	G. Guy	
(OSU) Ed 543.	History of American Education	3	1	MTWTh 11-11:50 am; 347 SH	Cramer	
(OSU) Ed 546.	Philosophy of Education	3	1	MTWTh 8-8:50 am; 201 SH	Fen	
(OSU) Ed 546.	Philosophy of Education	3	2	MTWTh 10-10:50 am; 228 SH	Fen	
(OSU) Ed 546.	Philosophy of Education	3	3	MTWTh 1-1:50 pm; 228 SH	Conroy	
(PSC) Ed 547.	Advanced Methods—Special Subject Fields in the Elementary School (Physical Education) (M)	3	1	MTWTh 1-1:50 pm; Gym	Victors	
(PSC) Ed 547.	Advanced Methods—Special Subject Fields in the Elementary School (Social Science) (M)	3	1	MTWTh 1-1:50 pm; 207 OM	Ralph Smith	
(PSC) Ed 547.	Advanced Methods—Special Subject Fields in the Elementary School (Social Science) (M)	3	2	MTWTh 2-2:50 pm; 207 OM	Ralph Smith	

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EIGHT WEEK TERM

Inst. and No.	Dept. Course Title	Cr. Hrs.	Sec. No.	Day and Meeting Time	Room	Instructor
(PSC) Ed 547.	Advanced Methods—Special Subject Fields in the Elementary School (Science) (M)	3	1	MTWTh 10-10:50 am; 208 OM	Neideigh	
(PSC) Ed 547.	Advanced Methods—Special Subject Fields in the Elementary School (Language Arts) (M)	3	1	MTWTh 3-3:50 pm; 207 OM	D. Lee	
(PSC) Ed 547.	Advanced Methods—Special Subject Fields in the Elementary School (Language Arts) (M)	3	2	MTWTh 12-12:50; 207 OM	Phelps	
(PSC) Ed 547.	Advanced Methods—Special Subject Fields in the Elementary School (Reading) (M)	3	1	MTWTh 11-11:50 am; 385 SPH	D. Lee	
(PSC) Ed 547.	Advanced Methods—Special Subject Fields in the Elementary School (Reading) (M)	3	2	MTWTh 8-8:50 am; 258 SH	Phelps	
(PSC) Ed 547.	Advanced Methods—Special Subject Fields in the Elementary School (Reading) (M)	3	3	MTWTh 11-11:50 am; 221 SH	Holboke	
(PSC) Ed 547.	Advanced Methods—Special Subject Fields in the Elementary School (Mathematics) (M)	3	1	MTWTh 11-11:50 am; 208 OM	Neideigh	
(PSC) Ed 547.	Advanced Methods—Special Subject Fields in the Elementary School (Mathematics) (M)	3	2	MTWTh 1-1:50 pm; 208 OM	Neideigh	
(PSC) Ed 548.	Advanced Methods—Special Subject Fields in the Secondary School (Language Arts) (M)	3	1	MTWTh 11-11:50 am; 218 OM	H. Browne	
(PSC) Ed 548.	Advanced Methods—Special Subject Fields in the Secondary School (Language Arts) (M)	3	2	MTWTh 1-1:50 pm; 217 OM	H. Browne	
(PSC) Ed 548.	Advanced Methods—Special Subject Fields in the Secondary School (Mathematics) (M)	3	1	MTWTh 9-9:50 am; 217 OM	staff	
(PSC) Ed 548.	Advanced Methods—Special Subject Fields in the Secondary School (Social Science) (M)	3	1	MTWTh 10-10:50 am; 218 OM	Ralph Smith	
(UO) Ed 553.	Elementary-School Curriculum	4	1	MTWThF 2-2:50 pm; 103 OM	W. Foster	
(UO) Ed 554.	Elementary-School Supervision and Administration	4	1	MTWThF 2-2:50 pm; 121 OM	Patton	
(UO) Ed 559.	Evaluation of Secondary School Programs	3	1	MTWTh 10-10:50 am; 347 SH	Hummel	
(UO) Ed 560.	Secondary School Problems	3	1	MTWTh 10-10:50 am; 385 SPH	D. James	
(UO) Ed 562.	Issues in Extreme Learning Difficulty	3	1	MTWTh 8-8:50 am; 347 SH	W. Otto	
(UO) Ed 566.	Curriculum Construction	4	1	MTWThF 7-7:50 am; 104 OM	Schaper	
(PSC) Ed 568.	The Curriculum of the Public School (M)	3	1	MTWTh 1-1:50 pm; 258 SH	D. Lee	
(UO) Ed 572.	Public School Administration	3	1	MTWTh 8-8:50 am; 121 OM	Hamilton	
(UO) Ed 574.	School Supervision	3	1	MTWTh 1-1:50 pm; 345 SH	Patton	
(UO) Ed 575.	School Finance	3	1	MTWTh 12-12:50; 247 SH	Osborn	
(UO) Ed 576.	School Buildings (June 22 to July 17—433 SPH)	3	1	MTWTh 7-8:50 am; 433 SPH	DeBernardis	
(OSU) Ed 577.	Counselor Training: Group Procedures	3	1	Tu 1-5:00 pm; 261 DCE	Grenfell	
(OSU) Ed 581.	Counselor Training	6	1	By Arrangement	Erickson	
(OSU) Ed 588.	Supervised Counseling Techniques	3	1	M 1-3:50 pm; 267 DCE	Grenfell	
(OSU) Ed 588.	Supervised Counseling Techniques	3	2	M 1-3:50 pm; 291 DCE	Huckins	
(UO) Ed 593.	Methods in Secondary-School Language Arts	3	1	MTWTh 11-11:50 am; 218 OM	H. Browne	
(UO) Ed 593.	Methods in Secondary-School Language Arts	3	2	MTWTh 1-1:50 pm; 217 OM	H. Browne	
(UO) Ed 594.	Methods in Secondary-School Mathematics	3	1	MTWTh 9-9:50 am; 217 OM	staff	
(UO) Ed 596.	Methods in Secondary-School Social Studies	3	1	MTWTh 10-10:50 am; 218 OM	Ralph Smith	
(UO) Ed 598.	Comparative Education	3	1	MTWTh 8-8:50 am; 347 SH	Cramer	
(OSU) HED 507.	Seminar: Teaching Family Relationships and Child Development (G) (July 20 to Aug 14)	3	1	MTWTh 1-2:50 pm; 349 SH	Warrell	

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DIVISION OF CONTINUING EDUCATION

ENGLISH (See also Humanities and Writing)

Inst. and No.	Dept. Course Title	Cr. Hrs.	Sec. No.	Day and Meeting Time	Room	Instructor
(PSC) Eng 103.	Survey of English Literature	3	1	MTWTh 7-7:50 am	338 SPH	M. Clarke
(PSC) Eng 104.	Appreciation of Literature (First Term)	3	1	MTWTh 10-10:50 am	338 SPH	O'Neil
(PSC) Eng 105.	Appreciation of Literature (Second Term)	3	1	MTWTh 9-9:50 am	338 SPH	Bierman
(PSC) Eng 106.	Appreciation of Literature (Third Term)	3	1	MTWTh 8-8:50 am	338 SPH	M. Clarke
(PSC) Eng 107.	World Literature (First Term)	3	1	MTWTh 11-11:50 am	338 SPH	Weiss
(PSC) Eng 108.	World Literature (Second Term)	3	1	MW 6-7:50 pm	338 SPH	Weiss
(PSC) Eng 109.	World Literature (Third Term)	3	1	MTWTh 11-11:50 am	301 SH	Kelly
(PSC) Eng 201.	Shakespeare (First Term)	3	1	MW 6-7:50 pm	345 SH	Niva
(PSC) Eng 202.	Shakespeare (Second Term)	3	1	MTWTh 1-1:50 pm	338 SPH	Niva
(PSC) Eng 203.	Shakespeare (Third Term)	3	1	MTWTh 1-1:50 pm	341 SPH	Dahlstrom
(PSC) Eng 253.	Survey of American Literature (First Term)	3	1	MTWTh 7-7:50 am	149 SH	Radhuber
(PSC) Eng 254.	Survey of American Literature (Second Term)	3	1	MTWTh 9-9:50 am	331 SPH	Tomkins
(PSC) Eng 255.	Survey of American Literature (Third Term)	3	1	MW 6-7:50 pm	254 SH	Tomkins
(PSC) Eng 311.	Tragedy	3	1	MTWTh 11-11:50 am	493 SPH	Dahlstrom
(PSC) Eng 371.	The Novel (First Term)	3	1	MTWTh 8-8:50 am	331 SPH	Radhuber
(PSC) Eng 384.	Contemporary Literature	3	1	MTWTh 10-10:50 am	331 SPH	Radhuber
(PSC) Eng 407.	Seminar: Tennyson and Browning	3	1	MTWTh 7-7:50 am	208 OM	Boggs
(PSC) Eng 407.	Seminar: The Rise of Realism	3	1	MTWTh 10-10:50 am	254 SH	Ford
(PSC) Eng 414.	Literary Criticism (M)	3	1	MTWTh 9-9:50 am	254 SH	Dahlstrom
(PSC) Eng 426.	Medieval Literature (M)	3	1	MTWTh 11-11:50 am	331 SPH	B. Wilson
(SOC) Eng 436.	Advanced Shakespeare (g)	3	1	MTWTh 1-1:50 pm	331 SPH	Childs
(PSC) Eng 447.	Major Forces in Literature (Romantic Poets) (M)	4	1	MTWThF 8-8:50 am	102 OM	Boggs
(PSC) Eng 448.	Major Figures in Literature (Whitman and Emerson) (M)	4	1	MTWThF 12-12:50	254 SH	Ford
(OCE) Eng 458.	Forms and Meaning of Prose (g)	3	1	MTWTh 2-2:50 pm	331 SPH	Childs
(UO) Eng 488.	Literature for Teachers (g)	3	1	MTWTh 1-1:50 pm	321 SH	Ford
(UO) Eng 488.	Literature for Teachers (g)	3	2	MTWTh 10-10:50 am	215 OM	Carrier
(OCE) Eng 489.	Literature for Adolescents (g)	3	1	MTWTh 9-9:50 am	102 OM	See
(PSC) Eng 490.	History of the English Language (M)	3	1	MTWTh 8-8:50 am	435 SPH	B. Wilson
(UO) Eng 491.	Introduction to Modern English (g)	3	1	MTWTh 9-9:50 am	435 SPH	F. Anderson
(OSU) Eng 495.	The Democratic Tradition in Literature (g)	3	1	MTWTh 11-11:50 am	196 SH	Childs
(PSC) Eng 507.	Seminar: Tennyson and Browning (M)	3	1	MTWTh 7-7:50 am	208 OM	Boggs
(PSC) Eng 507.	Seminar: The Rise of Realism (M)	3	1	MTWTh 10-10:50 am	254 SH	Ford

FOODS AND NUTRITION

(OSU) FN 225.	Nutrition	3	1	MTWTh 10-10:50 am	121 OM	J. Lowry
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FOREIGN LANGUAGE

(PSC)*RL 314, 315, 316.	Intermediate French Composition and Conversation.					
RL 314.	Intermediate French Composition and Conversation (June 22 to July 8)	2	1	MTWThF 11-12:50	217 OM	Hiraoka
RL 315.	Intermediate French Composition and Conversation (July 9 to July 28)	2	1	MTWThF 11-12:50	217 OM	Hiraoka
RL 316.	Intermediate French Composition and Conversation (July 29 to Aug. 14)	2	1	MTWThF 11-12:50	217 OM	Hiraoka
(PSC)*RL 347, 348, 349.	Intermediate Spanish Composition and Conversation.					
RL 347.	Intermediate Spanish Composition and Conversation (June 22 to July 8)	2	1	MTWThF 9-10:50 am	296 SH	Duran
RL 348.	Intermediate Spanish Composition and Conversation (July 9 to July 28)	2	1	MTWThF 9-10:50 am	296 SH	Duran
RL 349.	Intermediate Spanish Composition and Conversation (July 29 to Aug. 14)	2	1	MTWThF 9-10:50 am	296 SH	Duran
(PSC) RL 401.	Special Studies: Nineteenth Century French Novel	3	1	MTWTh 2-2:50 pm	217 OM	Hiraoka
(PSC) RL 443.	Modern Spanish Literature (Third Term)	3	1	MTWTh 12-12:50	347 SH	Duran

* Registration for less than the full sequence will not be accepted until June 23, and then only over instructor's signature.

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EIGHT WEEK TERM

GENERAL SCIENCE (See also Special Programs section of catalog)

Inst. and No.	Dept. Course Title	Cr. Hrs.	Sec. No.	Day and Meeting Time	Room	Instructor
(PSC) GS 505.	Reading and Conference: Rocks and Minerals	3	1	CANCELLED		
(PSC) GS 505.	Reading and Conference: Elements of Geology	3	1	CANCELLED		
(PSC) GS 505.	Reading and Conference: Geology of Oregon	3	1	CANCELLED		
(OSU) GS 507.	Seminar: Electronics for High School Teachers	3	1	TTh 7-8:50 pm; 4 OM		Riley
(PSC) GS 507.	Seminar: Ornithology	3	1	CANCELLED		

GEOGRAPHY

(PSC) Geog 105.	Introductory Geography (First Term)	3	1	MTWTh 9-9:50 am	371 SH	Rockie
(PSC) Geog 105.	Introductory Geography (First Term)	3	2	MTWTh 11-11:50 am	371 SH	Rockie
(PSC) Geog 105.	Introductory Geography (First Term)	3	3	MTTh 6-7:50 pm	371 SH	Cole
(PSC) Geog 106.	Introductory Geography (Second Term)	3	1	MTWTh 10-10:50 am	371 SH	Haratani
(PSC) Geog 106.	Introductory Geography (Second Term)	3	2	MTWTh 12-12:50	371 SH	Haratani
(PSC) Geog 107.	Introductory Geography (Third Term)	3	1	MTWTh 1-1:50 pm	371 SH	Brooke
(PSC) Geog 304.	Economic Geography (First Term)	3	1	MTWTh 11-11:50 am	283 SH	Northam
(PSC) Geog 313.	Geography of the Pacific Northwest	3	1	MTWTh 1-1:50 pm	383 SH	Rockie
(PSC) Geog 329.	Geography of North America	3	1	MTWTh 1-1:50 pm	283 SH	Northam
(PSC) Geog 342.	Geography of the Middle East (Second Term)	3	1	MTWTh 10-10:50 am	283 SH	Brooke
(PSC) Geog 412.	Political Geography (M)	3	1	MTWTh 8-8:50 am	371 SH	Poulsen
(PSC) Geog 414.	Geographic Background of American History (M)	3	1	MTWTh 9-9:50 am	383 SH	Northam
(PSC) Geog 426.	Geography of Europe (M)	3	1	MTWTh 9-9:50 am	283 SH	Poulsen
(PSC) Geog 427.	Geography of the Soviet Union (M)	3	1	MTWTh 12-12:50	283 SH	Poulsen
(UO) Geog 427.	Geography of the Soviet Union (G)	3	1	MTWTh 12-12:50	283 SH	Poulsen
(PSC) Geog 432.	Geography of Africa (M)	3	1	MTWTh 12-12:50	383 SH	Brooke
(UO) Geog 432.	Geography of Africa (G)	3	1	MTWTh 12-12:50	383 SH	Brooke
(UO) Geog 433.	Political Geography (G)	3	1	MTWTh 8-8:50 am	371 SH	Poulsen
(UO) Geog 451.	Geography of Eastern Asia (G)	3	1	MTWTh 8-8:50 am	383 SH	Haratani

GEOLOGY (See also General Science)

(PSC) G 350.	Rocks and Minerals	3	1	MTTh 10-11:50 am	1 SH	Van Atta
(PSC) G 351.	Elements of Geology	3	1	MTTh 8-9:50 am	1 SH	Van Atta
(PSC) G 352.	Geology of Oregon	3	1	MTTh 1-2:50 pm	1 SH	Van Atta

HEALTH EDUCATION

(PSC) HE 150.	Health Education	1	1	Tu 3:15-4:30 pm	112 OM	Dobson
(PSC) HE 252.	First Aid	3	1	MTWTh 10-10:50 am	217 OM	McNally
(PSC) HE 252.	First Aid	3	2	MTWTh 1-1:50 pm	249 SH	McNally
(PSC) HE 367.	School Health Services	3	1	MTWTh 9-9:50 am	321 SH	McNally

HISTORY

(PSC) Hat 101.	History of Western Civilization (First Term)	3	1	MTWTh 8-8:50 am	150 SH	Benowitz
(PSC) Hat 102.	History of Western Civilization (Second Term)	3	1	MTWTh 9-9:50 am	150 SH	Stevens
(PSC) Hat 103.	History of Western Civilization (Third Term)	3	1	MTWTh 11-11:50 am	150 SH	Stevens
(PSC) Hat 201.	History of the United States (First Term)	3	1	MTWTh 8-8:50 am	101 SH	Hitchman
(PSC) Hat 201.	History of the United States (First Term)	3	2	MW 6-7:50 pm	101 SH	Fedde
(PSC) Hat 202.	History of the United States (Second Term)	3	1	MTWTh 9-9:50 am	101 SH	Hitchman
(PSC) Hat 203.	History of the United States (Third Term)	3	1	MTWTh 10-10:50 am	101 SH	J. Gilmore
(PSC) Hat 343.	Europe since 1789 (Third Term)	3	1	MTWTh 10-10:50 am	150 SH	LeGuin
(PSC) Hat 392.	Far East in Modern Times (Second Term)	3	1	TTh 6-7:50 pm	147 SH	Benowitz

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DIVISION OF CONTINUING EDUCATION

Inst.	Dept. and No.	Course Title	Cr. Hrs.	Sec. No.	Day and Meeting Time	Room	Instructor
(PSC)	Hst 405.	Reading and Conference	3	1	By Arrangement		
(PSC)	Hst 407.	Seminar	3	1	By Arrangement		
(UO)	Hst 411.	History of Greece (G)	3	1	MTWTh 8-8:50 am; 147 SH	Cavarnos	
(PSC)	Hst 420.	Historiography	3	1	By Arrangement		
(PSC)	Hst 428.	Europe, 1300-1789; Reformation (Second Term)	3	1	MTWTh 12-12:50; 147 SH	LeGuin	
(UO)	Hst 432.	Reformation (G)	3	1	MTWTh 12-12:50; 147 SH	LeGuin	
(PSC)	Hst 443.	Modern France (M)	3	1	TTh 8-9:50 pm; 147 SH	LeGuin	
(UO)	Hst 443.	History of France (Third Term) (G)	3	1	TTh 8-9:50 pm; 147 SH	LeGuin	
(PSC)	Hst 449.	History of Russia (Third Term)	3	1	MW 6-7:50 pm; 147 SH	Dmytryshyn	
(UO)	Hst 449.	History of Russia (Third Term) (G)	3	1	MW 6-7:50 pm; 147 SH	Dmytryshyn	
(PSC)	Hst 450.	Eastern Europe	3	1	MTWTh 9-9:50 am; 147 SH	Dmytryshyn	
(PSC)	Hst 459.	Era of Reconstruction	3	1	TTh 6-7:50 pm; 149 SH	Frazier	
(UO)	Hst 459.	The Era of Reconstruction (G)	3	1	TTh 6-7:50 pm; 149 SH	Frazier	
(PSC)	Hst 461.	History of American Thought and Culture (Second Term) (M)	3	1	MW 8-9:50 pm; 149 SH	L. Adolf	
(OSU)	Hst 461.	American Thought and Culture (Second Term) (g)	3	1	MW 8-9:50 pm; 149 SH	L. Adolf	
(PSC)	Hst 469.	Twentieth Century England (M)	3	1	MW 8-9:50 pm; 147 SH	Stevens	
(UO)	Hst 469.	Twentieth Century England (G)	3	1	MW 8-9:50 pm; 147 SH	Stevens	
(UO)	Hst 471.	Social Factors in American History (Second Term) (G)	3	1	MW 6-7:50 pm; 149 SH	Frazier	
(PSC)	Hst 474.	American Foreign Relations (Second Term)	3	1	TTh 8-9:50 pm; 149 SH	Kerr	
(UO)	Hst 474.	American Foreign Relations (Second Term) (G)	3	1	TTh 8-9:50 pm; 149 SH	Kerr	
(PSC)	Hst 477.	History of the West (The Trans-Mississippi West)	3	1	MTWTh 11-11:50 am; 149 SH	L. Adolf	
(UO)	Hst 477.	History of the West (The Trans-Mississippi West) (Second Term) (G)	3	1	MTWTh 11-11:50 am; 149 SH	L. Adolf	
(PSC)	Hst 478.	History of the Pacific Northwest	3	1	MTWTh 9-9:50 am; 149 SH	J. Gilmore	
(UO)	Hst 478.	History of the Pacific Northwest (G)	3	1	MTWTh 9-9:50 am; 149 SH	J. Gilmore	
(PSC)	Hst 481.	The United States in the Twentieth Century (Second Term) (M)	3	1	MTWTh 10-10:50 am; 149 SH	L. Adolf	
(OSU)	Hst 481.	The United States in the Twentieth Century (Second Term) (g)	3	1	MTWTh 10-10:50 am; 149 SH	L. Adolf	
(PSC)	Hst 486.	Early History of the American People (Third Term) (M)	3	1	MTWTh 8-8:50 am; 149 SH	Frazier	
(UO)	Hst 489.	American Economic History (Third Term) (G)	3	1	MTWTh 7-7:50 am; 183 SH	Halley	
(OCE)	Hst 492.	World Problems (g)	3	1	MTWTh 11-11:50 am; 147 SH	Dmytryshyn	
(PSC)	Hst 505.	Reading and Conference (M)	3	1	By Arrangement		
(PSC)	Hst 507.	Seminar (M)	3	1	By Arrangement		

HUMANITIES (See also Special Programs section of catalog)

(PSC)	GSt 331.	The Idea of Utopia	3	1	MTWTh 12-12:50; 331 SPH	Bierman	
(DCE)	Hum 10.	Colloquium on Great Philosophers	(2)	1	Tu 7-9:30 pm; 203 SH	Newhall	
(OCE)	Hum 502.	Workshop: Structural Grammar for Classroom Teacher (Grades 7-12)	3	1	MTWTh 12-12:50; 203 SH	See	
(PSC)	Hum 507.	Seminar: Comparative Literature (M)	3	1	MTWTh 1-1:50 pm; 196 SH	Carrier	
(PSC)	Hum 507.	Seminar: The Art of the Film	3	1	TTh 1-3:50 pm; 158 SH	Deinum	

LIBRARY SCIENCE (See also Special Programs section of catalog)

(UO)	Lib 484.	School Library Administration (G)	3	1	MTWTh 9-9:50 am; 45 SH	Fletcher	
(UO)	Lib 486.	Introduction to Cataloging and Classification (G)	3	1	MTWTh 10-10:50 am; 158 SH	Fletcher	
(UO)	Lib 490.	Children's Literature (G)	3	1	MTWTh 12-12:50; 158 SH	Fletcher	

MATHEMATICS

(PSC)	Mth 10.	Elements of Algebra (non-credit)	(3)	1	MTWTh 1-1:50 pm; 111 OM	Perry	
(PSC)	Mth 10-100.	Elements of Algebra and Intermediate Algebra*	(3)&4	1	MTWTh 6-8:30 pm; 111 OM	Champie	
(PSC)	Mth 100.	Intermediate Algebra	4	1	MTWThF 10-10:50 am; 111 OM	Perry	
(PSC)	Mth 100.	Intermediate Algebra	4	2	MTWThF 2-2:50 pm; 110 OM	W. Gilmore	
(PSC)	Mth 100.	Intermediate Algebra	4	3	MW 6-8:30 pm; 110 OM	S. Anderson	
(PSC)	Mth 101.	College Algebra	4	1	TTh 6-8:30 pm; 112 OM	Erzurumlu	

* Students attending this class must register for both Mth 10 (3 hrs, non-credit) and Mth 100 (4 hrs).

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EIGHT WEEK TERM

Inst.	Dept. and No.	Course Title	Cr. Hrs.	Sec. No.	Day and Meeting Time	Room	Instructor
(PSC)	Mth 102.	Trigonometry	4	1	MTWThF 11-11:50 am; 110 OM	Lim	
(PSC)	Mth 103.	Analytic Geometry	4	1	MTWThF 3-3:50 pm; 111 OM	W. Gilmore	
(PSC)	Mth 103.	Analytic Geometry	4	2	MTWThF 1-1:50 pm; 110 OM	Flanagan	
(PSC)	Mth 104.	Introductory College Mathematics (First Term)	4	1	MTWThF 9-9:50 am; 111 OM	Lim	
(PSC)	Mth 108.	Mathematics of Finance	4	1	MW 6-8:30 pm; 105 OM	Keeler	
(PSC)	Mth 111.	Mathematics for Elementary Teachers	3	1	MTWTh 12-12:50; 110 OM	Perry	
(PSC)	Mth 111-112.	Mathematics for Elementary Teachers	6	1	MTWTh 11-12:50; 349 SPH	Stanton	
(PSC)	*Mth 114, 115, 116.	Mathematics in Business Application.					
	Mth 114.	Mathematics in Business Application (June 22 to July 8)	3	1	MTWTh 8-10:50 am; 493 SPH	Bennett	
	Mth 115.	Mathematics in Business Application (July 9 to July 28)	3	1	MTWTh 8-10:50 am; 493 SPH	Bennett	
	Mth 116.	Mathematics in Business Application (July 29 to Aug 14)	3	1	MTWTh 8-10:50 am; 493 SPH	Bennett	
(PSC)	Mth 200.	Calculus with Analytic Geometry (First Term)	4	1	MTWThF 9-9:50 am; 349 SPH	Stanton	
(PSC)	Mth 203.	Calculus with Analytic Geometry (Fourth Term)	4	1	MTWThF 10-10:50 am; 102 OM	Flanagan	
(PSC)	Mth 207.	Calculus (First Term)	4	1	TTh 6-8:30 pm; 213 OM	S. Anderson	
(PSC)	Mth 208.	Calculus (Second Term)	4	1	TTh 6-8:30 pm; 105 OM	Keeler	
(PSC)	Mth 311, 312.	Advanced Mathematics (First and Second Terms)	6	1	MTWTh 10-11:50 am; 213 OM	McCarthy	
(PSC)	Mth 313.	Advanced Mathematics (Third Term)	3	1	MTWTh 1-1:50 pm; 213 OM	McCarthy	
(PSC)	*Mth 331, 332.	Differential Equations.					
	Mth 331.	Differential Equations (June 22 to July 17)	3	1	MTWTh 8-9:50 am; 401 SH	Tauber	
	Mth 332.	Differential Equations (July 20 to Aug 14)	3	1	MTWTh 8-9:50 am; 401 SH	Tauber	
(PSC)	Mth 334.	Computer Coding	3	1	MTWTh 4-4:50 pm; 213 OM	Champie	
(PSC)	Mth 407.	Seminar: Selected Topics in Analysis	3	1	MTWTh 10-10:50 am; 401 SH	Butler/Harris	
(PSC)	Mth 407.	Seminar: Selected Topics in Applied Mathematics	3	1	MTWTh 11-11:50 am; 401 SH	Tauber	
(PSC)	*Mth 425, 426.	Elements of Statistical Methods					
	Mth 425.	Elements of Statistical Methods (June 22 to July 17)	3	1	MTWTh 1-2:50 pm; 347 SH	McLean	
	Mth 426.	Elements of Statistical Methods (July 20 to Aug 14)	3	1	MTWTh 1-2:50 pm; 347 SH	McLean	
(PSC)	*Mth 451, 452.	Numerical Calculus (M)					
	Mth 451.	Numerical Calculus (M) (June 22 to July 17)	3	1	MTWTh 12-1:50 pm; 401 SH	Butler/Harris	
	Mth 452.	Numerical Calculus (M) (July 20 to Aug 14)	3	1	MTWTh 12-1:50 pm; 401 SH	Butler/Harris	
(PSC)	Mth 507.	Seminar: Selected Topics in Analysis (M)	3	1	MTWTh 10-10:50 am; 401 SH	Butler/Harris	
(PSC)	Mth 507.	Seminar: Selected Topics in Applied Mathematics (M)	3	1	MTWTh 11-11:50 am; 401 SH	Tauber	
(PSC)	Mth 507.	Seminar: Introduction to Abstract Algebra (M)	3	1	MTWThF 8-8:50 am; 352 SPH	Stanley	
		(Registration by signature of instructor only)					
(PSC)	Mth 507.	Seminar: Geometry	3	1	MTWThF 11-11:50 am; 296 SH	Broussard	
		(Registration by signature of instructor only)					

MUSIC (See also Special Programs section of catalog)

(PSC)	Mus 190.	Applied Music	1-2	1	By Arrangement	Stehn	
(PSC)	Mus 195.	Band	1	1	TTh 7:30-9:50 pm; 453 SH	staff	
(PSC)	Mus 197.	Chorus	1	1	MW 12-12:50; 453 SH	Jesse Foster	
(PSC)	Mus 290.	Applied Music	1-2	1	By Arrangement	Stehn	
(PSC)	Mus 301.	Survey of Music and Music Literature (First Term)	3	1	MTWTh 11-11:50 am; 349 SH	staff	
(PSC)	Mus 303.	Survey of Music and Music Literature (Third Term)	3	1	MW 6-6:50 pm; 349 SH	staff	
(PSC)	Mus 323.	Choral Conducting	2	1	MTWTh 12-12:50; 453 SH	Jesse Foster	
(PSC)	Mus 381.	Music Fundamentals (First Term)	3	1	MTWTh 9-9:50 am; 449 SH	Albertson	
(PSC)	Mus 382.	Music Fundamentals (Second Term)	3	1	MTWTh 11-11:50 am; 449 SH	Albertson	

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DIVISION OF CONTINUING EDUCATION

Inst.	Dept. and No.	Course Title	Cr. Hrs.	Sec. No.	Day and Meeting Time	Room	Instructor
(PSC)	Mus 383.	Music Fundamentals (Teacher Education)	3	1	MTWTh 10-10:50 am	449 SH	Jesse Foster
(PSC)	Mus 390.	Applied Music	1-2	1	By Arrangement		Stehn
(PSC)	Mus 395.	Band	1	1	TTh 7:30-9:50 pm	453 SH	staff
(PSC)	Mus 397.	Chorus	1	1	MW 12-12:50; 453 SH		Jesse Foster
(PSC)	Mus 414.	Composition I (First Term) (M)	2	1	MTWTh 12-12:50; 349 SH		Crowley
(UO)	Mus 414.	Composition I (First Term) (G)	2	1	MTWTh 12-12:50; 349 SH		Crowley
(PSC)	Mus 417.	Advanced Harmony (First Term)	2	1	MTWTh 10-10:50 am; 349 SH		Crowley
(UO)	Mus 443	Advanced Conducting (Third Term) (G)	3	1	MTWTh 11-11:50 am; 453 SH		Stehn
(PSC)	Mus 490.	Applied Music	1-2	1	By Arrangement		Stehn
(PSC)	Mus 501.	Special Studies (Haydn, Mozart, Beethoven) (M)	3	1	MTWTh 7-7:50 am; 449 SH		Crowley
(PSC)	Mus 501.	Special Studies (Junior High School Music) (M)	3	1	MTWTh 1-1:50 pm; 449 SH		Albertson
(PSC)	Mus 505.	Reading and Conference (Band Literature) (M)	3	1	MW 2-3:50 pm; 453 SH		Richards
(PSC)	Mus 507.	Seminar: Twelve-Tone Music (M)	3	1	TTh 8-9:50 pm; 349 SH		Crowley
(PSC)	Mus 590.	Applied Music (M)	1-2	1	By Arrangement		Stehn

MUSIC EDUCATION

(UO)	MuE 532.	Basic Concepts in the Teaching of Music	3	1	MTWTh 7-7:50 am; 349 SH		Gustafson
(UO)	MuE 533.	Music in the Elementary School	3	1	MTWTh 8-8:50 am; 449 SH		Gustafson
(UO)	MuE 536.	Administration and Supervision of School Music	3	1	MTWTh 10-10:50 am; 196 SH		Gustafson

PHILOSOPHY (See also Humanities)

(PSC)	Phl 201.	Problems of Philosophy	3	1	MTWTh 8-8:50 am; 250 SH		Polonoff
(PSC)	Phl 201.	Problems of Philosophy	3	2	MTWTh 10-10:50 am; 490 SPH		Glossop
(PSC)	Phl 201.	Problems of Philosophy	3	3	TTh 6-7:50 pm; 250 SH		Polonoff
(PSC)	Phl 202.	Elementary Ethics	3	1	MTWTh 1-1:50 pm; 435 SPH		Newhall
(PSC)	Phl 202.	Elementary Ethics	3	2	MW 6-7:50 pm; 250 SH		Glossop
(PSC)	Phl 203.	Elementary Logic	3	1	MTWTh 12-12:50 pm; 435 SPH		Glossop
(PSC)	Phl 203.	Elementary Logic	3	2	MTWTh 10-10:50 am; 488 SPH		Conroy
(PSC)	Phl 204.	Elementary Aesthetics	3	1	MTWTh 11-11:50 am; 488 SPH		Conroy
(PSC)	Phl 301.	History of Philosophy	3	1	MTWTh 12-12:50; 493 SPH		Newhall
(PSC)	Phl 450.	Philosophical Classics	3	1	MTWTh 9-9:50 am; 488 SPH		Polonoff

PHYSICAL EDUCATION (See also Education; see also Special Programs section of catalog)

(PSC)	PE 180.	Physical Education (Women): Badminton	1	1	MTWTh 7-7:50 am; Mens Gym		Tichy
(PSC)	PE 180.	Physical Education (Women): Volleyball	1	2	MTWTh 8-8:50 am; Mens Gym		Tichy
(PSC)	PE 190.	Physical Education (Men): Badminton	1	1	MTWTh 7-7:50 am; Mens Gym		Tichy
(PSC)	PE 190.	Physical Education (Men): Volleyball	1	2	MTWTh 8-8:50 am; Mens Gym		Tichy
(PSC)	PS 294.	Professional Activities (Women): Rhythm	2	1	MTWTh 1-1:50 pm; Mens Gym		Dobson
(PSC)	PE 295.	Professional Activities (Men): Rhythm	2	1	MTWTh 1-1:50 pm; Mens Gym		Dobson
(PSC)	PE 343.	Organization and Administration of Physical Education	3	1	MTWTh 11-11:50 am; 343 SPH		Dobson
(PSC)	PE 407.	Seminar: Team Sports	3	1	MTWTh 2-2:50 pm; Gym		Dobson
(UO)	PE 446.	Tests and Measurements in Physical Education (G)	3	1	MTWTh 11-11:50 am; 121 OM		Reuter
(UO)	PE 530.	Developmental Programs in Physical Education	3	1	MTWTh 12-12:50; 121 OM		Reuter
(UO)	PE 540.	Statistical Methods in Physical Education (First Term)	3	1	MTWTh 2-2:50 pm; 112 OM		Reuter

PHYSICS

(PSC)	*Ph 411, 412, 413.	Modern Physics (M)					
	Ph 411.	Modern Physics (M)					
		(June 22 to July 8)	3	1	MTThF 9-11:50 am; 303 SH		Gurevitch
	Ph 412.	Modern Physics (M)					
		(July 9 to July 28)	3	1	MTThF 9-11:50 am; 303 SH		Gurevitch
	Ph 413.	Modern Physics (M)					
		(July 29 to Aug 14)	3	1	MTThF 9-11:50 am; 303 SH		Gurevitch

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EIGHT WEEK TERM

Inst.	Dept. and No.	Course Title	Cr. Hrs.	Sec. No.	Day and Meeting Time	Room	Instructor
(UO)	*Ph 411, 412, 413.	Modern Physics (G)					
	Ph 411.	Modern Physics (G)					
		(June 22 to July 8)	3	1	MTThF 9-11:50 am; 303 SH		Gurevitch
	Ph 412.	Modern Physics (G)					
		(July 9 to July 28)	3	1	MTThF 9-11:50 am; 303 SH		Gurevitch
	Ph 413.	Modern Physics (G)					
		(July 29 to Aug 14)	3	1	MTThF 9-11:50 am; 303 SH		Gurevitch

POLITICAL SCIENCE

(PSC)	PS 201.	American Governments (First Term)	3	1	MTWTh 2-2:50 pm; 203 SH		Haggard
(PSC)	PS 202.	American Governments (Second Term)	3	1	MTWTh 9-9:50 am; 203 SH		Dean
(PSC)	PS 203.	American Governments (Third Term)	3	1	MTWTh 10-10:50 am; 203 SH		Greene
(PSC)	PS 407.	Seminar: Comparative Local Government (Frgn Governments)	3	1	MW 6-7:50 pm; 225 SH		D. M. Lee
(PSC)	PS 407.	Seminar: Metropolitan Government in Crisis	3	1	TTh 6-7:50 pm; 225 SH		D. M. Lee
(PSC)	PS 407.	Seminar: Problems of American Foreign Policy	3	1	MTWTh 10-10:50 am; 321 SH		Widmayer
(PSC)	PS 407.	Seminar: The Supreme Court and Fundamental Freedoms	3	1	MTWTh 11-11:50 am; 45 SH		Dean
(PSC)	PS 407.	Seminar: Presidential Policies in the 1960's	3	1	MTWTh 12-12:50; 321 SH		Haggard
(UO)	PS 428.	Government and Politics of the Soviet Union (Second Term) (G)	3	1	MW 6-7:50 pm; 228 SH		Widmayer
(UO)	PS 454.	Competing Ideologies in the World Today (G)	3	1	MTWTh 9-9:50 am; 347 SPH		Greene
(PSC)	PS 507.	Seminar: Comparative Local Government (Frgn Governments)	3	1	MW 6-7:50 pm; 225 SH		D. M. Lee
(PSC)	PS 507.	Seminar: Metropolitan Government in Crisis	3	1	TTh 6-7:50 pm; 225 SH		D. M. Lee
(PSC)	PS 507.	Seminar: Problems of American Foreign Policy (M)	3	1	MTWTh 10-10:50 am; 228 SH		Widmayer
(PSC)	PS 507.	Seminar: The Supreme Court and Fundamental Freedoms (M)	3	1	MTWTh 11-11:50 am; 101 SH		Dean
(PSC)	PS 507.	Seminar: Presidential Policies in the 1960's (M)	3	1	MTWTh 12-12:50; 321 SH		Haggard

PSYCHOLOGY

(PSC)	Psy 201.	General Psychology (First Term)	3	1	MTWTh 9-9:50 am; 250 SH		Wilcox
(PSC)	Psy 201.	General Psychology (First Term)	3	2	MTWTh 10-10:50 am; 250 SH		staff
(PSC)	Psy 201.	General Psychology (First Term) (For Nurses Only) (June 22 to July 17)	3	3	MTWTh 8-9:50 am; UO Med Sch.		Nunokawa
(PSC)	Phy 202.	General Psychology (Second Term)	3	1	MTWTh 11-11:50 am; 250 SH		staff
(PSC)	Psy 202.	General Psychology (Second Term) (For Nurses Only) (July 20 to Aug 14)	3	2	MTWTh 8-9:50 am; UO Med Sch.		Nunokawa
(PSC)	Psy 203.	General Psychology (Third Term)	3	1	MTWTh 10-10:50 am; 301 SH		Wilcox
(PSC)	Psy 311.	Human Development	3	1	MTWTh 10-10:50 am; 201 SH		Powloski
(PSC)	Psy 311.	Human Development	3	2	MTWTh 11-11:50 am; 203 SH		Karr
(PSC)	Psy 311.	Human Development	3	3	MTWTh 12-12:50; 201 SH		Powloski
(PSC)	Psy 311.	Human Development	3	4	MTWTh 1-1:50 pm; 203 SH		Wilcox
(PSC)	Psy 335.	Counseling and Testing	3	1	MTWTh 1-1:50 pm; 221 SH		R. O. Smith
(PSC)	Psy 345.	The Psychology of Motivation	3	1	MTWTh 12-12:50; 249 SH		Karr
(PSC)	Psy 346.	Psychology of Learning	3	1	MTWTh 1-1:50 pm; 201 SH		Powloski
(OSU)	Psy 411.	Mental Hygiene (g)	3	1	MTWTh 12-12:50; 111 OM		Bernard
(UO)	Psy 421.	Principles and Methods of Psychological Assessment (First Term) (g)	3	1	MTWTh 12-12:50; 296 SH		Nunokawa
(UO)	Psy 450.	Abnormal Psychology (g)	3	1	MW 6-7:50 pm; 249 SH		H. Manning
(PSC)	Psy 460.	Developmental Psychology (First Term) (M)	3	1	MTWTh 1-1:50 pm; 215 OM		H. Manning
(PSC)	Psy 460.	Developmental Psychology (First Term) (M)	3	2	MTWTh 12-12:50 pm; 215 OM		Reed
(PSC)	Psy 460.	Developmental Psychology (First Term) (M)	3	3	MTWTh 2-2:50 pm; 215 OM		H. Manning
(PSC)	Psy 460.	Developmental Psychology (First Term) (M)	3	4	MTWTh 11-11:50 am; 215 OM		Reed

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DIVISION OF CONTINUING EDUCATION

Inst.	Dept. and No.	Course Title	Cr. Hrs.	Sec. No.	Day and Meeting Time	Room	Instructor
(UO)	Pay 460.	Developmental Psychology I: Infancy and Childhood (g)	3	1	MTWTh 1-1:50 pm;	215 OM.H.	Manning
(UO)	Pay 460.	Developmental Psychology I: Infancy and Childhood (g)	3	2	MTWTh 12-12:50 pm;	215 OM	Reed
(UO)	Pay 460.	Developmental Psychology I: Infancy and Childhood (g)	3	3	MTWTh 2-2:50 pm;	215 OM.H.	Manning
(UO)	Pay 460.	Developmental Psychology I: Infancy and Childhood (g)	3	4	MTWTh 11-11:50 am;	215 OM	Reed
(PSC)	Pay 461.	Developmental Psychology (Second Term) (M)	3	1	MTWTh 8-8:50 am;	215 OM	Bernard
(PSC)	Pay 461.	Developmental Psychology (Second Term) (M)	3	2	MTWTh 9-9:50 am;	335 SPH	Bernard
(PSC)	Pay 461.	Developmental Psychology (Second Term) (M)	3	3	MTWTh 2-2:50 pm;	112 OM	Reed
(PSC)	Pay 461.	Developmental Psychology (Second Term) (M)	3	4	MTWTh 8-8:50 am;	112 OM	Karr
(UO)	Pay 461.	Developmental Psychology II: Adolescence and Maturity (g)	3	1	MTWTh 8-8:50 am;	115 OM	Bernard
(UO)	Pay 461.	Developmental Psychology II: Adolescence and Maturity (g)	3	2	MTWTh 9-9:50 am;	335 SPH	Bernard
(UO)	Pay 461.	Developmental Psychology II: Adolescence and Maturity (g)	3	3	MTWTh 2-2:50 pm;	112 OM	Reed
(UO)	Pay 461.	Developmental Psychology II: Adolescence and Maturity (g)	3	4	MTWTh 8-8:50 am;	112 OM	Karr
(OSU)	Pay 473.	Individual Differences (Second Term) (g)	3	1	MTWTh 12-12:50;	345 SH	Huckins
(PSC)	Pay 473.	Individual Differences (Second Term) (M)	3	1	MTWTh 12-12:50;	345 SH	Huckins
(OSU)	Pay 480.	Psychological Tests and Testing (Third Term) (g)	3	1	MTWTh 10-10:50 am;	481 SPH	Huckins
(UO)	Pay 524.	Individual Intelligence Testing	4	1	MTWThF 9-9:50 am;	358 SPH	R. O. Smith
(UO)	Pay 525.	Individual Intelligence Testing	2	1	MTWTh 10-10:50 am;	352 SPH	R. O. Smith

RECREATION (See Special Programs section of catalog)

RELIGION

(OSU)	R 311.	The New Testament and Its Historical Background	3	1	MTWTh 1-1:50 pm;	145 SH	R. Clarke
(OSU)	R 407.	Seminar: History of Great Religions	3	1	MTWTh 12-12:50;	145 SH	R. Clarke
(UO)	R 423.	Contemporary Concepts of God (First Term) (g)	3	1	MTWTh 10-10:50 am;	45 SH	R. Clarke

SCIENCE

(OCE)	Se 511.	Contemporary Developments in the Sciences and Mathematics	3	1	MTWTh 1-1:50 pm;	245 SH	Walker
(OCE)	Se 512.	Contemporary Developments in the Sciences and Mathematics	3	1	CANCELLED		

SCIENCE EDUCATION (See also Special Programs section of catalog)

(OSU)	SEd 481.	Alcohol Studies in School Curriculum (G)	3	1	MTWTh 1-1:50 pm;	45 SH	Ferrier
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SECRETARIAL SCIENCE (See also Special Programs section of catalog)

(PSC)	SS 111.	Stenography (First Term)	3	1	MTWTh 11-11:50 am;	328 SH	Robertson
(PSC)	SS 111.	Stenography (First Term)	3	2	MW 6-7:50 pm;	328 SH	Hinton
(PSC)	SS 121.	Typing (First Term)	2	1	MTWTh 12-12:50;	328 SH	Backlund
(PSC)	SS 121.	Typing (First Term)	2	2	TTh 6-7:50 pm;	325 SH	Robertson
(PSC)	SS 122.	Typing (Second Term)	2	1	MTWTh 9-9:50 am;	328 SH	Backlund
(PSC)	SS 215.	Business Machines	3	1	MTWTh 8-8:50 am;	324 SH	Oliver
(PSC)	SS 311.	Office Procedure (First Term)	3	1	MTWTh 9-9:50 am;	325 SH	Oliver
(PSC)	SS 312.	Office Procedure (Second Term)	3	1	MTWTh 10-10:50 am;	325 SH	Oliver
(OSU)	OA 507.	Seminar: Practicum in Business Education	3	1	MTWTh 11-11:50 am;	45 SH	Yerian
(OSU)	OA 536.	Problems and Research Techniques in Business Education	3	1	MTWTh 8-8:50 am;	45 SH	Yerian

EIGHT WEEK TERM

SOCIOLOGY (See also Special Programs section of catalog)

Inst.	Dept. and No.	Course Title	Cr. Hrs.	Sec. No.	Day and Meeting Time	Room	Instructor
(PSC)	Soc 204.	General Sociology (First Term)	3	1	MTWTh 9-9:50 am;	271 SH	Cunningham
(PSC)	Soc 205.	General Sociology (Second Term)	3	1	MTWTh 10-10:50 am;	271 SH	Jones
(PSC)	Soc 206.	General Sociology (Third Term)	3	1	MTWTh 11-11:50 am;	271 SH	Finley
(PSC)	Soc 212.	Introduction to Sociology	3	1	MTWTh 8-8:50 am;	303 SH	Cunningham
(PSC)	Soc 334.	Social Psychology (First Term)	3	1	MTWTh 9-9:50 am;	201 SH	MacCannell
(PSC)	Soc 338.	Marriage and the Family	3	1	MTWTh 10-10:50 am;	341 SPH	Drum
(PSC)	Soc 338.	Marriage and the Family	3	2	MTWTh 11-11:50 am;	341 SPH	Cunningham
(PSC)	Soc 341.	Demography	3	1	MTWTh 10-10:50 am;	347 SPH	Finley
(PSC)	Soc 407.	Seminar: Social Welfare Resources and Organizations (M)	3	1	TTh 3-4:50 pm;	203 SH	Drum
(UO)	Soc 407.	Seminar: Social Welfare Resources and Organizations (G)	3	1	TTh 3-4:50 p.m.;	203 SH	Drum
(PSC)	Soc 416.	Criminology and Delinquency (First Term)	3	1	MTWTh 11-11:50 am;	352 SPH	Jones
(UO)	Soc 416.	Criminology and Delinquency (First Term) (G)	3	1	MTWTh 11-11:50 am;	352 SPH	Jones
(PSC)	Soc 417.	Criminology and Delinquency (Second Term) (M)	3	1	MTWTh 9-9:50 am;	352 SPH	Drum
(UO)	Soc 417.	Criminology and Delinquency (Second Term) (G)	3	1	MTWTh 9-9:50 am;	352 SPH	Drum
(PSC)	Soc 456.	Industrial Sociology (M)	3	1	MTWTh 8-8:50 am;	387 SPH	Jones
(UO)	Soc 456.	Industrial Sociology (G)	3	1	MTWTh 8-8:50 am;	387 SPH	Jones
(PSC)	Soc 507.	Seminar: Rehabilitation of the Mentally Ill (M)	3	1	MTWTh 1-2:50 pm;	102 OM	J. James
(UO)	Soc 507.	Seminar: Rehabilitation of the Mentally Ill (June 22 to July 17)	3	1	MTWTh 1-2:50 pm;	102 OM	J. James

SPEECH (See also Special Programs section of catalog)

(PSC)	Sp 111.	Fundamentals of Speech (First Term)	3	1	MTWTh 8-8:50 am;	39 SPH	McMurray
(PSC)	Sp 111.	Fundamentals of Speech (First Term)	3	2	MTWTh 9-9:50 am;	39 SPH	Gibson
(PSC)	Sp 111.	Fundamentals of Speech (First Term)	3	3	MTWTh 10-10:50 am;	39 SPH	McMurray
(PSC)	Sp 111.	Fundamentals of Speech (First Term)	3	4	MTWTh 11-11:50 am;	39 SPH	McMurray
(PSC)	Sp 111.	Fundamentals of Speech (First Term)	3	5	MTWTh 12-12:50;	37 SPH	Padrow
(PSC)	Sp 111.	Fundamentals of Speech (First Term)	3	6	MW 6-7:50 pm;	39 SPH	Sugarman
(PSC)	Sp 111.	Fundamentals of Speech (First Term)	3	7	TTh 6-7:50 pm;	37 SPH	Padrow
(PSC)	Sp 211.	Interpretation	2	1	MTWTh 9-9:50 am;	37 SPH	Sugarman
(PSC)	Sp 321.	Argumentation, Discussion and Persuasion (First Term)	3	1	MTWTh 10-10:50 am;	41 SPH	Padrow
(PSC)	Sp 414.	Teaching Speech in the Secondary School	3	1	MTWTh 12-12:50;	39 SPH	Gibson
(PSC)	Sp 426.	Theory and Literature of Public Address (First Term) (M)	3	1	MTWTh 10-10:50 am;	37 SPH	Sugarman
(PSC)	Sp 507.	Seminar: Introduction to Graduate Studies in Speech (M)	3	1	MTWTh 10-10:50 am;	349 SPH	Gibson

SPEECH CORRECTION

(PSC)	Sp 370.	Phonetics	3	1	MTWTh 2-2:50 pm;	37 SPH	Casteel
(UO)	Sp 370.	Phonetics	3	1	MTWTh 2-2:50 pm;	37 SPH	Casteel
(UO)	Sp 371.	Speech Science	3	1	MTWTh 9-9:50 am;	488 SPH	Casteel/English
(PSC)	Sp 481.	Speech Pathology (First Term) (M)	3	1	MTWTh 8-9:50 am;	41 SPH	DuPuis
(UO)	Sp 481.	Speech Pathology (First Term) (G)	3	1	MTWTh 8-9:50 am;	41 SPH	DuPuis
(PSC)	Sp 482.	Speech Pathology (Second Term) (M)	3	1	MTWTh 8-9:50 am;	41 SPH	Lillywhite
(UO)	Sp 482.	Speech Pathology (Second Term) (G)	3	1	MTWTh 8-9:50 am;	41 SPH	Lillywhite
(PSC)	Sp 483.	Speech Pathology (Third Term) (M)	3	1	MTWTh as arranged*		English
(UO)	Sp 483.	Speech Pathology (Third Term) (G)	3	1	MTWTh as arranged*		English
(PSC)	Sp 484.	Clinical Speech Therapy (First Term)	2	1	MTWTh as arranged*		DuPuis
(UO)	Sp 484.	Clinical Speech Therapy (First Term) (G)	2	1	MTWTh as arranged*		DuPuis
(PSC)	Sp 485.	Clinical Speech Therapy (Second Term)	2	1	MTWTh as arranged*		English
(UO)	Sp 485.	Clinical Speech Therapy (Second Term) (G)	2	1	MTWTh as arranged*		English
(UO)	Sp 486.	Clinical Speech Therapy (Third Term) (G)	2	1	MTWTh as arranged*		Casteel

* Students may confer with supervisor in Room 90 SPH on June 23, from 8:00 a.m. to 1:00 p.m.

DIVISION OF CONTINUING EDUCATION

Inst.	Dept. and No.	Course Title	Cr. Hrs.	Sec.	Day and Meeting Time	Room	Instructor
(PSC)	Sp 487.	Audiology (June 22-July 17)	3	1	MTWTh 1-2:50 pm	39 SPH	W. Johnson
(UO)	Sp 487.	Audiology (C) (First Term)	3	1	MTWTh 1-2:50 pm	39 SPH	W. Johnson
(UO)	Sp 488.	Audiology (G) (Second Term)	3	1	MTWTh 1-2:50 pm	39 SPH	Young
(EOC)	Sp 493.	Principles and Techniques of Speech Correction (g)	3	1	MTWTh 1-1:50 pm	37 SPH	DuPuis
(UO)	Sp 507.	Seminar and Advanced Practicum in Clinical Procedures in Speech Correction	9-12	1	MTWThF 1-4:50 pm	90 SPH	Blakeley

THEATRE ARTS

(PSC)	TA 253.	Workshop Theater I	3	1	MWTh 2-3:50 pm	TV Studio	SPH Roe
(PSC)	TA 353.	Workshop Theater II	3	1	TTh 7-9:50 pm	108 OM	K. Shafer
(PSC)	TA 353.	Workshop Theater II (Television)	3	2	MWTh 2-3:50 pm	TV Studio	SPH Roe
(PSC)	TA 413.	Development of Dramatic Art (Third Term)	3	1	MTWTh 2-2:50 pm	107 OM	A. Wilson
(PSC)	TA 507.	Seminar: Acting-Directing	3	1	MW 7-9:50 pm	Aud. OM	A. Wilson
(PSC)	TA 507.	Seminar: Stage Design	3	1	MW 7-9:50 pm	109 OM	K. Shafer

WRITING

(PSC)	Wr 111.	English Composition (First Term)	3	1	MTWTh 12-12:50	396 SPH	Tomkins
(PSC)	Wr 111.	English Composition (First Term)	3	2	MTWTh 8-8:50 am	397 SPH	See
(PSC)	Wr 111.	English Composition (First Term)	3	3	MTWTh 9-9:50 am	397 SPH	O'Neil
(PSC)	Wr 111.	English Composition (First Term)	3	4	MTWTh 10-10:50 am	397 SPH	M. Clarke
(PSC)	Wr 112.	English Composition (Second Term)	3	1	MTWTh 11-11:50 am	397 SPH	Bierman
(PSC)	Wr 112.	English Composition (Second Term)	3	2	MTWTh 12-12:50	397 SPH	Kelly
(PSC)	Wr 113.	English Composition (Third Term)	3	1	MTWTh 2-2:50 pm	397 SPH	Kelly
(PSC)	Wr 113.	English Composition (Third Term)	3	2	MTWTh 1-1:50 pm	397 SPH	Weiss
(PSC)	Wr 211.	Advanced Writing	3	1	MTWTh 2-2:50 pm	396 SPH	Niva
(PSC)	Wr 214.	Business English	3	1	MTWTh 11-11:50 am	347 SPH	McIntosh
(PSC)	Wr 214.	Business English	3	2	MTWTh 9-9:50 am	385 SPH	McIntosh
(PSC)	Wr 312.	Advanced Short Story Writing	3	1	MTWTh 12-12:50	221 SH	Carrier
(UO)	Wr 411.	English Composition for Teachers (g)	3	1	MTWTh 7-7:50 am	343 SPH	B. Wilson

ZOOLOGY

(OSU)	Z 577.	Ornithology	3	1	MTWTh 8-8:50 am	296 SH	Wirts
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ELEVEN WEEK TERM

ANTHROPOLOGY

(PSC)	*Anth 207, 208, 209.	Introduction to Cultural Anthropology					
	Anth 207.	Introduction to Cultural Anthro- pology (June 22 to July 14)	3	11	MTWTh 10-11:50 am & F 10-10:50 am	258 SH	Frants
	Anth 208.	Introduction to Cultural Anthro- pology (July 16 to Aug 7)	3	11	MTWTh 10-11:50 am & F 10-10:50 am	258 SH	Frants
	Anth 209.	Introduction to Cultural Anthro- pology (Aug 10 to Sept 4)	3	11	MTWTh 10-11:50 am & F 10-10:50 am	258 SH	Frants

BIOLOGY

(PSC)	*Bi 204, 205, 206.	General Zoology.					
	Bi 204	General Zoology (June 22 to July 14)	4	11	MTWTh 9-9:50 am & 12:30-1:50 pm	309 OM	Macnab
		Lecture					
		Laboratory			MTWTh 10-11:50 am & 2-3:50 pm	309 OM	Jack Foster
	Bi 205	General Zoology (July 16 to Aug 7)	4	11	MTWTh 9-9:50 am & 12:30-1:50 pm	309 OM	Macnab
		Lecture					
		Laboratory			MTWTh 10-11:50 am & 2-3:50 pm	309 OM	Jack Foster

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ELEVEN WEEK TERM

Inst.	Dept. and No.	Course Title	Cr. Hrs.	Sec.	Day and Meeting Time	Room	Instructor
	Bi 206	General Zoology (Aug 10 to Sept 4)	4	11	MTWTh 9-9:50 am & 12:30-1:50 pm	309 OM	Macnab
		Lecture					
		Laboratory			MTWTh 10-11:50 am & 2-3:50 pm	309 OM	Jack Foster
(PSC)	*Bi 328, 329.	Comparative Vertebrate Anatomy.					
	Bi 328	Comparative Vertebrate Anatomy (June 22 to July 29)	4	11	MTWTh 9-12:50	373 OM	Malcolm
	Bi 329	Comparative Vertebrate Anatomy (July 30 to Sept 4)	4	11	MTWTh 9-12:50	373 OM	Malcolm

BUSINESS

(PSC)	*BA 211, 212, 213.	Principles of Accounting.					
	BA 211	Principles of Accounting (June 22 to July 14)	3	11	MTWTh 8-9:50 am & F 8-8:50 am	343 SPH	Lakefish
	BA 212	Principles of Accounting (July 16 to Aug 7)	3	11	MTWTh 8-9:50 am & F 8-8:50 am	343 SPH	Lakefish
	BA 213	Principles of Accounting (Aug 10 to Sept 4)	3	11	MTWTh 8-9:50 am & F 8-8:50 am	343 SPH	Lakefish

CHEMISTRY

(PSC)	*Ch 104, 105, 106.	General Chemistry.					
	Ch 104.	General Chemistry (June 22 to July 14)	4	11	MTWTh 11-11:50 am & 1-1:50 pm	301 OM	Boater
		Lecture					
		Lab A			MTThF 8-10:30 am	304	Boater
		Lab B			MTThF 2-4:30 pm	304 OM	B. Brown
	Ch 105.	General Chemistry (July 16 to Aug 7)	4	11	MTThF 11-11:50 am & 1-1:50 pm	301 OM	Silverman
		Lecture					
		Lab A			MTThF 8-10:30 am	304 OM	Sabo
		Lab B			MTThF 2-4:30 pm	304 OM	Sabo
	Ch 106.	General Chemistry (Aug 10 to Sept 4)	4	11	MTThF 11-11:50 am & 1-1:50 pm	301 OM	B. Brown
		Lecture					
		Lab A			MTThF 8-10:30 am	304 OM	B. Brown
		Lab B			MTThF 2-4:30 pm	304 OM	Sabo

FOREIGN LANGUAGE

(PSC)	*GL 50, 51, 52.	First-Year German.					
	GL 50.	First-Year German (June 22 to July 14)	4	11	MTWTh 9-11:50 am	249 SH	Gebert
	GL 51.	First-Year German (July 16 to Aug 7)	4	11	MTWTh 9-11:50 am	249 SH	Gebert
	GL 52.	First-Year German (Aug 10 to Sept 4)	4	11	MTWTh 9-11:50 am	249 SH	Gebert
(PSC)	*GL 101, 102, 103.	Second-Year German.					
	GL 101.	Second-Year German (June 22 to July 14)	4	11	MTWTh 12-2:50 pm	347 SPH	MacLean
	GL 102.	Second-Year German (July 16 to Aug 7)	4	11	MTWTh 12-2:50 pm	347 SPH	MacLean
	GL 103.	Second-Year German (Aug 10 to Sept 4)	4	11	MTWTh 12-2:50 pm	347 SPH	MacLean
(PSC)	*RL 50, 51, 52.	First-Year French.					
	RL 50.	First-Year French (June 22 to July 14)	4	11	MTWTh 12-2:50 pm	218 OM	Suvajian
	RL 51.	First-Year French (July 16 to Aug 7)	4	11	MTWTh 12-2:50 pm	218 OM	Suvajian
	RL 52.	First-Year French (Aug 10 to Sept 4)	4	11	MTWTh 12-2:50 pm	218 OM	Suvajian
(PSC)	*RL 101, 102, 103.	Second-Year French.					
	RL 101.	Second-Year French (June 22 to July 14)	4	11	MTWTh 3-5:50 pm	218 OM	Healy
	RL 102.	Second-Year French (July 16 to Aug 7)	4	11	MTWTh 3-5:50 pm	218 OM	Healy
	RL 103.	Second-Year French (Aug 10 to Sept 4)	4	11	MTWTh 3-5:50 pm	218 OM	Healy
(PSC)	*RL 60, 61, 62.	First-Year Spanish.					
	RL 60.	First-Year Spanish (June 22 to July 14)	4	11	MTWTh 3-5:50 pm	215 OM	Diman
	RL 61.	First-Year Spanish (July 16 to Aug 7)	4	11	MTWTh 3-5:50 pm	215 OM	Diman
	RL 62.	First-Year Spanish (Aug 10 to Sept 4)	4	11	MTWTh 3-5:50 pm	215 OM	Diman

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DIVISION OF CONTINUING EDUCATION

Inst. and No.	Dept. Course Title	Cr. Sec.	Day and Hrs. No. Meeting Time	Room	Instructor
(PSC) *RL 107, 108, 109.	Second-Year Spanish.				
RL 107.	Second-Year Spanish (June 22 to July 14)	4 11	MTWTh 9-11:50 am;	247 SH	Estrugo
RL 108.	Second-Year Spanish (July 16 to Aug 7)	4 11	MTWTh 9-11:50 am;	247 SH	Estrugo
RL 109.	Second-Year Spanish (Aug 10 to Sept 4)	4 11	MTWTh 9-11:50 am;	247 SH	Estrugo
(PSC) *RL 70, 71, 72.	First-Year Italian.				
RL 70.	First-Year Italian (June 22 to July 14)	4 11	MTWTh 3-5:50 pm;	217 OM	Ricciardelli
RL 71.	First-Year Italian (July 16 to Aug 7)	4 11	MTWTh 3-5:50 pm;	217 OM	Ricciardelli
RL 72.	First-Year Italian (Aug 10 to Sept 4)	4 11	MTWTh 3-5:50 pm;	217 OM	Ricciardelli
(PSC) *Sml 50, 51, 52.	First-Year Arabic.				
Sml 50.	First-Year Arabic (June 22 to July 14)	4 11	MTWTh 12-2:50 pm;	358 SPH	Al-Khalady
Sml 51.	First-Year Arabic (July 16 to Aug 7)	4 11	MTWTh 12-2:50 pm;	358 SPH	Al-Khalady
Sml 52.	First-Year Arabic (Aug 10 to Sept 4)	4 11	MTWTh 12-2:50 pm;	358 SPH	Al-Khalady

GENERAL SCIENCE

(PSC) *GS 101, 102, 103.	General Biology.				
GS 101.	General Biology (June 22 to July 14)	3 11			
	Lecture		MWTh 10-11:50 am;	433 SPH	Wirts
	Lab A		MWTh 8-9:50 am;	310 OM	Klein
	Lab B		MWTh 8-9:50 am;	317 OM	Fairbanks
	Lab C		MWTh 12:30-2:30 pm;	310 OM	Klein
	Lab D		MWTh 12:30-2:30 pm;	317 OM	Fairbanks
GS 102.	General Biology (July 16 to Aug 7)	3 11			
	Lecture		MWTh 10-11:50 am;	433 SPH	Wirts
	Lab A		MWTh 8-9:50 am;	310 OM	Klein
	Lab B		MWTh 8-9:50 am;	317 OM	Fairbanks
	Lab C		MWTh 12:30-2:30 pm;	310 OM	Klein
	Lab D		MWTh 12:30-2:30 pm;	317 OM	Fairbanks
GS 103.	General Biology (Aug 10 to Sept 4)	3 11			
	Lecture		MWTh 10-11:50 am;	433 SPH	Wirts
	Lab A		MWTh 8-9:50 am;	310 OM	Klein
	Lab B		MWTh 8-9:50 am;	317 OM	Fairbanks
	Lab C		MWTh 12:30-2:30 pm;	310 OM	Klein
	Lab D		MWTh 12:30-2:30 pm;	317 OM	Fairbanks
(PSC) *GS 104, 105, 106.	Physical Science.				
GS 104.	Physical Science (June 22 to July 14)	3 11			
	Lecture		MWTh 10-11:50 am;	435 SPH	Lange
	Lab A		MWTh 8-9:50 am;	212 OM	Hall
	Lab B		MWTh 12:30-2:30 pm;	212 OM	Hall
GS 105.	Physical Science (July 16 to Aug 7)	3 11			
	Lecture		MWTh 10-11:50 am;	435 SPH	Lange
	Lab A		MWTh 8-9:50 am;	212 OM	Hall
	Lab B		MWTh 12:30-2:30 pm;	212 OM	Hall
GS 106.	Physical Science (Aug 10 to Sept 4)	3 11			
	Lecture		MWTh 10-11:50 am;	435 SPH	Lange
	Lab A		MWTh 8-9:50 am;	212 OM	Hall
	Lab B		MWTh 12:30-2:30 pm;	212 OM	Hall

GEOGRAPHY

(PSC) *Geog 105, 106, 107.	Introductory Geography.				
Geog 105.	Introductory Geography (June 22 to July 14)	3 11	MTWTh 10-11:50 am & F 10-10:50 am;	383 SH	Cole
Geog 107.	Introductory Geography (July 16 to Aug 7)	3 11	MTWTh 10-11:50 am & F 10-10:50 am;	383 SH	Cole
Geog 106.	Introductory Geography (Aug 10 to Sept 4)	3 11	MTWTh 10-11:50 am & F 10-10:50 am;	383 SH	Cole

GEOLOGY

(PSC) *G 201, 202, 203.	Geology.				
G 201.	Geology (June 22 to July 14)	3 11	MTTh 12-2:50 pm;	433 SPH	staff
G 202.	Geology (July 16 to Aug 7)	3 11	MTTh 12-2:50 pm;	433 SPH	staff
G 203.	Geology (Aug 10 to Sept 4)	3 11	MTTh 12-2:50 pm;	433 SPH	staff

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ELEVEN WEEK TERM

HISTORY

Inst. and No.	Dept. Course Title	Cr. Sec.	Day and Hrs. No. Meeting Time	Room	Instructor
(PSC) *Hst 101, 102, 103.	History of Western Civilization.				
Hst 101.	History of Western Civilization (June 22 to July 14)	3 11	MTWTh 1-2:50 pm; & F 1-1:50 pm;	150 SH	Kerr
Hst 102.	History of Western Civilization (July 16 to Aug 7)	3 11	MTWTh 1-2:50 pm & F 1-1:50 pm;	150 SH	Kerr
Hst 103.	History of Western Civilization (Aug 10 to Sept 4)	3 11	MTWTh 1-2:50 pm & F 1-1:50 pm;	150 SH	Kerr
(PSC) *Hst 201, 202, 203.	History of the United States.				
Hst 201.	History of the United States (June 22 to July 14)	3 11	MTWTh 11-12:50 & F 11-11:50 am;	101 SH	Picht
Hst 202.	History of the United States (July 16 to Aug 7)	3 11	MTWTh 11-12:50 & F 11-11:50 am;	101 SH	Picht
Hst 203.	History of the United States (Aug 10 to Sept 4)	3 11	MTWTh 11-12:50 & F 11-11:50 am;	101 SH	Picht

PHYSICS

(PSC) *Ph 201,202,203.	General Physics				
Ph 201.	General Physics (June 22 to July 14)	4 11			
	Lecture		MTWTh 8-9:50 am & F 8-8:50 am;	53 SH	Sanford
	Lab A		MW 10-12:50 & F 9-11:50 am;	3 OM	R. Johnson
	Lab B		TTh 10-12:50 & W 1-3:50 pm;	3 OM	R. Johnson
Ph 202.	General Physics (July 16 to Aug 7)	4 11			
	Lecture		MTWTh 8-9:50 am & F 8-8:50 am;	53 SH	Sanford
	Lab A		MW 10-12:50 & F 9-11:50 am;	3 OM	R. Johnson
	Lab B		TTh 10-12:50 & W 1-3:50 pm;	3 OM	R. Johnson
Ph 203.	General Physics (Aug 10 to Sept 4)	4 11			
	Lecture		MTWTh 8-9:50 am & F 8-8:50 am;	53 SH	Sanford
	Lab A		MW 10-12:50 & F 9-11:50 am;	3 OM	R. Johnson
	Lab B		TTh 10-12:50 & W 1-3:50 pm;	3 OM	R. Johnson

* Registration for less than the full sequence will not be accepted until June 23, and then only over the the instructor's signature.

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 581, 582. Counselor Training. 3 hours each. (OSU)

Through cooperation of department stores and industries in Portland, students gain experience in both customer-contact and nonselling departments, or move from job to job in industry to obtain both production-line experience and contact with top management; conferences, lectures, and discussions by executives, faculty members, leaders in labor relations, and others. Extramural or Summer Session. Prerequisite: Ed 485, 487 and consent of instructor.

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 593. Methods in Secondary-School Language Arts. 3 hours. (UO)

Review of research in the problems of teaching language arts in the secondary schools; observation and participation in demonstration teaching of literature, grammar, and composition. Designed for administrators and supervisors, as well as classroom teachers. Prerequisite: teaching experience or consent of instructor.

Ed 594. Methods in Secondary-School Mathematics. 3 hours. (UO)

Development of proficiency in the use of the problem-solving approach to the teaching of topics in arithmetic, algebra, geometry, and advanced high-school mathematics. Consideration of the strengths, inadequacies, and needed revisions of the present-day mathematics curriculum. Prerequisite: teaching experience or consent of instructor.

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

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

Ed 598. Comparative Education. 3 hours. (UO)

Educational systems, philosophies, curricula, and recent developments in European, Asian, African, Pan-American, and other countries of the world; origins; factors underlying common and unique characteristics of various educational systems.

HEd 507. Seminar: Teaching Family Relationships and Child Development. (G) 3 hours. (OSU)

Emphasis on preparing curriculum materials for teaching junior and senior high school students. Prerequisite: Ed 408d or equivalent.

English

Portland State College Program

Eng 103. Survey of English Literature. 3 hours. (PSC)

From Byron to the present.

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

Study of the important plays—comedies, histories, and tragedies.

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

American literature from its beginning to the present day.

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

A study of the nature of tragedy.

Eng 371. **The Novel.** (First Term) 3 hours. (PSC)

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

Eng 384. **Contemporary Literature.** (First Term) 3 hours. (PSC)

Modern British, American, and continental literature.

Eng 407. **Seminar: Tennyson and Browning.** 3 hours. (PSC)

Eng 407. **Seminar: The Rise of Realism.** 3 hours. (PSC)

Courses Approved for Graduate Credit in MAT/MST Program

Eng 414. **Literary Criticism.** (First 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 426. **Medieval Literature.** (First Term) 3 hours. (PSC)

Old English literature (in translation), with an introduction to the language.

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

A study of the dominant literary forms and theories that characterize the age. Prerequisite: 15 credit hours in literature or consent of the instructor.

Eng 448. **Major Figures in Literature (Whitman and Emerson).** 4 hours. (PSC)

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

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

Prerequisite: Anth 480 or consent of instructor.

Eng 507. **Seminar: Tennyson and Browning.** 3 hours. (PSC)

Eng 507. **Seminar: The Rise of Realism.** 3 hours. (PSC)

Portland Continuation Center Program

Eng 436. **Advanced Shakespeare.** (g) 3 hours. (SOC)

A detailed study of the psychological, sociological and historical background of the four plays to be offered by the Oregon Shakespearean Festival Association.

Eng 458. **Forms and Meaning of Prose.** (g) 3 hours. (OCE)

A study of contemporary prose fiction, American, English, and European, and its foundations of judgment as seen in literary criticism.

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 491. **Introduction to Modern English.** (g) 3 hours. (UO)

A general view of modern English vocabulary, grammar, pronunciation, and spelling. Recommended for students preparing for the teaching of English in the secondary schools.

Eng 495. **The Democratic Tradition in Literature.** (First Term) (g) 3 hours. (OSU)

The ideas of democracy as reflected in English and American literature. Prerequisite: 9 hours of literature.

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

Arabic

See eleven-week program.

German

See eleven-week program.

French

RL 314, 315, 316. **Intermediate French Composition and Conversation.** 2 hours each. (PSC)

For exercises in pronunciation, comprehension, and composition. Ample opportunity for conversation. Prerequisite: Two years of college French or equivalent.

RL 401. **Special Studies: Nineteenth Century French Novel.** By arrangement. (PSC)

See also eleven-week program.

Italian

See eleven-week program.

Spanish

RL 347, 348, 349. **Intermediate Spanish Composition and Conversation.** 2 hours each. (PSC)

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

RL 443. **Modern Spanish Literature.** (Third Term) 3 hours. (PSC)

Spanish literature since 1898. Principal types and authors. Extensive reading of texts. Conducted in Spanish.

See also eleven-week program.

General Science

Portland State College Program

Courses Approved for Graduate Credit in MAT/MST Program

GS 505. **Reading and Conference: Rocks and Minerals.** 3 hours. (PSC)

GS 505. **Reading and Conference: Elements of Geology.** 3 hours. (PSC)

GS 505. **Reading and Conference: Geology of Oregon.** 3 hours. (PSC)

GS 507. **Seminar: Ornithology.** 3 hours. (PSC)

Portland Continuation Center Program

GS 407. **Seminar: Biology Institute.** 6 hours. (OSU)

(See Special Programs Section.)

GS 507. **Seminar: Biology Institute.** 6 hours. (OSU)

(See Special Programs Section.)

GS 507. **Seminar: Electronics for High School Teachers.** 3 hours. (OSU)

Geography

Portland State College Program

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

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

Geog 304. **Economic Geography.** (First Term) 3 hours. (PSC)

A systematic survey of man's occupation in terms of the distribution, use and circulation of earth resources. Geography of Primary Production.

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. Prerequisite: Geog 105 or Geog 208, 209, 210, or consent of instructor.

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, or consent of instructor.

Geog 342. **Geography of the Middle East.** (Second Term) 3 hours. (PSC)

The geographic interpretation of man and nature in the Middle East. Systematic study of the physical and cultural elements of northern Africa and southwestern Asia and their regional patterns. Second term, southwest Asia. Prerequisite: Geog 105 or Geog 208, 209, 210, or consent of instructor.

Courses Approved for Graduate Credit in MAT/MST Program

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

A study of the cultural setting of the inhabited regions of the earth as characterized by the surface features of material culture, the spatial relationships of states, and the distinctive geographic qualities of urban agglomerations. Prerequisite: 9 hours of geography or consent of instructor.

Geog 414. **Geographic Background of American History.** 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.** 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, or consent of instructor.

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

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

Geog 432. **Geography of Africa.** 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, or consent of instructor.

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 emphasis 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 451. **Geography of Eastern Asia.** (G) 3 hours. (UO)

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

Geology (See also General Science)

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 Oregon.** 3 hours. (PSC)

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

Health Education

Portland State College Program

HE 150. **Health Education.** 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, schools, 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, or consent of instructor.

History

Portland State College Program

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

From colonial times to the present day.

Hst 343. **Europe Since 1789.** (Third Term) 3 hours. (PSC)

Political, social, economic, and cultural trends from the French Revolution to the present. Third Term: 1929 to the present.

Hst 392. **Far East in Modern Times.** (Second 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 405. **Reading and Conference.** 1 to 3 hours. (PSC)

Hst 407. **Seminar.** 3 hours. (PSC)

Hst 420. **Historiography.** 3 hours. (PSC)

Hst 459. **The United States in the Nineteenth Century.** (Third Term) 3 hours. (PSC)

Third term (1876-1900): Industrialization and big business; urbanization; the "new" immigration; social change and social criticism; closing frontiers; farm problems; political patterns.

Hst 477. **History of the West.** (Second Term) 3 hours. (PSC)

Second Term: The Trans-Mississippi West.

Courses Approved for Graduate Credit in MAT/MST Program

Hst 428. **Europe, 1300-1789: Reformation.** 3 hours. (PSC)

The era of the Reformation: the Protestant movements, the Counter-Reformation, the Wars of Religion. Prerequisites: Hst 101, 102, 103, or consent of instructor.

Hst 443. **Modern France.** 3 hours. (PSC)

Problems and politics of the Third, Fourth, and Fifth Republics, 1871 to the present. Prerequisite: Hst 101, 102, 103 or consent of instructor.

Hst 449. **History of Russia.** (Third Term) 3 hours. (PSC)

Third Term: Soviet Russia. Prerequisite: Hst 101, 102, 103 or consent of instructor.

Hst 450. **Eastern Europe.** 3 hours. (PSC)

Historical development of Eastern Europe and the role of the region in international affairs; political, social and economic problems of the area in recent times. Prerequisite: Hst 101, 102, 103, or consent of instructor.

Hst 461. **History of American Thought and Culture.** (Second 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 474. **American Foreign Relations.** (Second 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 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 481. The United States in the Twentieth Century. (Second 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 486. Early History of the American People, 1492-1815. (Third Term) 3 hours. (PSC)

Third term: Formative years of the young Republic—the Age of Hamilton and Jefferson (1789-1815). Prerequisite: Hst 201, 202, 203 or consent of instructor.

Hst 505. Reading and Conference. 1 to 3 hours. (PSC)

Hst 507. Seminar. 3 hours. (PSC)

Portland Continuation Center Program

Hst 411. History of Greece. (G) 3 hours. (UO)

Political and cultural history of ancient Greece.

Hst 432. Reformation. (G) 3 hours. (UO)

The Protestant and the Catholic reform of the sixteenth century.

Hst 443. History of France. (Third Term) (G) 3 hours. (UO)

Since 1940.

Hst 449. History of Russia. (Third Term) (G) 3 hours. (UO)

Third Term: Revolutionary Russia, 1861 to the present.

Hst 459. The Era of Reconstruction. (G) 3 hours. (UO)

Problems of the tragic era following the Civil War; continuing effects to the end of the nineteenth century.

Hst 461. American Thought and Culture. (Second Term) (g) 3 hours. (OSU)

American thought, ideals, and institutions; contributions to American culture by schools, newspapers, magazines, motion pictures, radio, art, literature, television, and philosophy. Prerequisite: Hst 224, 225, 226.

Hst 469. Twentieth-Century England. (G) 3 hours. (UO)

Social, political, economic, and intellectual changes in Great Britain in the twentieth century.

Hst 471. Social Factors in American History. (Second Term) (G) 3 hours. (UO)

Effect of the varied character of the population on American History and culture. Second term: religious factors.

Hst 474. American Foreign Relations. (Second Term) (G) 3 hours. (UO)

The origins, character, and consequences of American foreign policies from the Revolutionary War to the present.

Hst 477. History of the West (The Trans-Mississippi West). (Second Term) (G) 3 hours. (UO)

The American frontier. Second term: the Great Plains and the Far West.

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 481. The United States in the Twentieth Century. (Second Term) (g) 3 hours. (OSU)

Political and economic institutions developed since 1897; relevant social and cultural changes. Prerequisite: Hst 224, 225, 226, or consent of instructor.

Hst 489. American Economic History. (Third Term) (G) 3 hours. (UO)

The economic development of the United States.

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

CSt 331. The Idea of Utopia. 3 hours. (PSC)

A study of how the ideal state is used to criticize existing social, political, religious and scientific situations and of how the form of "Utopia" evolves from courtesy and voyage literature, from romantic fiction, allegory and satire.

Hum 507. Seminar: The Art of the Film. 3 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.

Courses Approved for Graduate Credit in MAT/MST Program

Hum 507. Seminar: Comparative Literature. 3 hours. (PSC)

Emphasis upon the search for meaning in the modern world as reflected in the forces shaping contemporary philosophies and trends in contemporary literature.

Portland Continuation Center Program

Hum 10. Colloquium on Great Philosophers. (2) (Non-credit) (DCE)

An introductory attempt to get at the enduring insights of four great philosophers by means of study and discussion of their writings. Philosophers will be selected from both the ancient and contemporary periods. No prerequisite.

Hum 407. Similarities and Differences in Western European Cultures and American Culture. 3 hours. (OCE)

(See Special Programs Section.)

Hum 407. Western Europe and the Arts. 3 hours. (OCE)

(See Special Programs Section.)

Hum 501. Special Studies: Advanced Ceramics. 3 hours. (PSC)

(See Special Programs Section.)

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

Hum 507. Similarities and Differences in Western European Cultures and American Culture. 3 hours. (OCE)

(See Special Programs Section)

Hum 507. Western Europe and the Arts. 3 hours. (OCE)

(See Special Programs Section)

Library Science

Portland Continuation Center Program

Lib 484. School Library Administration. (G) 3 hours. (UO)

Introduction to school librarianship and to the objectives of the school library in the instructional program; problems relating to budget and finance, housing and equipment, personnel, etc. Emphasis on national and state standards for the instructional materials center.

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

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

Lib 490. Children's Literature. (G) 3 hours. (UO)

Survey of children's literature, with emphasis on selection and evaluation of books suitable for public and school libraries; reading guidance in relation to both personal and curricular needs.

Lib 508. Workshop: Audio-Visual Services for School Librarians. 3 hours. (UO)

(See Special Programs Section.)

Mathematics

Portland State College Program

Mth 10. Elements of Algebra. (non-credit) 3 hours. (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. Introductory College Mathematics. (First Term) 4 hours. (PSC)

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

Mth 108. 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. (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 114, 115, 116. Mathematics in Business Application. 3 hours each. (PSC)

Mathematical relationships, numbers, functions, equations, and graphs. Rates and accumulations. Probability and statistics. Application to business decision making. Prerequisite: high school algebra.

Mth 200, 203. Calculus with Analytic Geometry. (First and Fourth Terms) 4 hours each. (PSC)

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

Mth 207, 208. Calculus. (First and Second Terms) 4 hours each. (PSC)

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

Mth 311, 312, 313. Advanced Mathematics. 3 hours each. (PSC)

Advanced college algebra, theory of equations, and advanced Euclidean plane geometry. Prerequisite: Mth 103 or equivalent.

Mth 331, 332. Differential Equations. 3 hours each. (PSC)

Ordinary and partial differential equations. Prerequisite: Calculus.

Mth 334. 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 407. Seminar: Selected Topics in Analysis. 3 hours. (PSC)

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

Mth 425, 426. Elements of Statistical Methods. (First and Second Terms) 3 hours each. (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 in mathematics.

Courses Approved for Graduate Credit in MAT/MST Program

Mth 451, 452. Numerical Calculus. 3 hours each. (PSC)

Finite differences, interpolation, numerical differentiation and integration, numerical solution of differential equation.

Mth 507. Seminar: Selected Topics in Analysis. 3 hours. (PSC)

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

Mth 507. Seminar: Introduction to Abstract Algebra. 3 hours. (PSC)

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

Music

Portland State College Program

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

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

Mus 301, 303. Survey of Music and Music Literature. (First and Third Terms) 3 hours each. (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 323. Choral Conducting. 2 hours. (PSC)

The principles of conducting and training choral organizations.

Mus 381, 382. Music Fundamentals. 3 hours each. (PSC)

Basic musicianship for the elementary teacher, developed through experiences relevant to the classroom. Required of majors in elementary education. Prerequisite to Mus 382: Mus 381 or consent of instructor.

Mus 383. Music Fundamentals (Teacher Education). 3 hours. (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 to 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 upperdivision standing.

Mus 395. Band. 1 hour. (PSC)

Six hours maximum credit.

Mus 397. Chorus. 1 hour. (PSC)

Six hours maximum credit.

Mus 490. Applied Music. 1 to 2 hours. (PSC)

Senior year. Continuation of Mus 390, which is prerequisite.

Courses Approved for Graduate Credit in MAT/MST Program

Mus 414. Composition I. (First Term) 2 hours. (PSC)

Composition in the smaller forms for piano, violin, and other instruments. Prerequisite: Mus 311, 312, 313, and Mus 314, 315, 316, or equivalent.

Mus 417. Advanced Harmony. (First Term) 2 hours. (PSC)

A study of the harmonic practices of the late nineteenth and twentieth centuries. Written work, analysis, and theoretical research. Prerequisite: Mus 211, 212, 213; Mus 311, 312, 313, or equivalent.

Mus 501. Special Studies (Haydn, Mozart, Beethoven). 3 hours. (PSC)

Mus 501. Special Studies (Junior High School Music). 3 hours. (PSC)

Mus 505. Reading and Conference (Band Literature). 3 hours. (PSC)

Mus 507. Seminar: Twelve-Tone Music. 3 hours. (PSC)

Theoretical and practical study of the twelve-tone system by Schoenberg.

Mus 507. Seminar: Elementary School Music. 3 hours. (PSC)

(See Special Programs Section.)

Mus 507. Seminar: French Horn. 3 hours. (PSC)

(See Special Programs Section.)

Mus 507. Seminar: Percussion. 3 hours. (PSC)

(See Special Programs Section.)

Mus 590. Applied Music. 1 to 2 hours. (PSC)

Portland Continuation Center Program

Mus 414. Composition I. (First Term) (G) 2 hours. (UO)

Composition in the smaller forms for piano, voice, and other instruments. Prerequisite: Mus 311, 312, 313; Mus 314, 315, 316, or equivalent.

Mus 443. Advanced Conducting. (Third Term) (G) 3 hours. (UO)

The routine and technique of conducting. Problems of the symphony orchestra and choral groups. Score reading. Actual practice in conducting. Prerequisite: Mus 211, 212, 213 or equivalent; consent of instructor.

Music Education

Portland Continuation Center Program

MuE 532. Basic Concepts in the Teaching of Music. 3 hours. (UO)

Discussion of problems and issues in teaching music at all levels. Organization of field studies, research papers, and theses. Prerequisite: consent of instructor.

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

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

MuE 536. Administration and Supervision of School Music. 3 hours. (UO)

Study of the principles underlying a sound administrative policy: budgets, personnel, curriculum, facilities, and public relations.

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

Phl 203. Elementary Logic. 3 hours. (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. (First Term) 3 hours. (PSC)

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

Phl 450. Philosophical Classics. (First Term) 3 hours. (PSC)

Intensive study of selected philosophical classics of metaphysics and epistemology.

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 294. Professional Activities (Women): Rhythm. 1 hour. (PSC)

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

PE 295. Professional Activities (Men): Rhythm. 1 hour. (PSC)

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

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

Planning and organizing the use of buildings, grounds, and recreational areas for the physical-education program; purchase and care of equipment; budgeting equipment and operating costs.

PE 407. Seminar: Team Sports. 3 hours. (PSC)

Portland Continuation Center Program

PE 446. Tests and Measurements in Physical Education. (G) 3 hours. (UO)

Use of tests and measurement in physical education; evaluation of objectives, programs, and student achievement through measurement techniques.

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

(See Special Programs Section.)

PE 530. Developmental Program in Physical Education. 3 hours. (UO)

Programs to meet individual physical-fitness and social needs through physical-

education activities; case-study techniques, developmental programs, development of social traits; administrative problems. Prerequisite: PE 444, PE 446, or consent of instructor.

PE 540. Statistical Methods in Physical Education. (First Term) 3 hours. (UO)

The use of norms, comparable scores, rating scales, multiple regression, curve fitting, and factor analysis as tools of research and interpretation of physical growth, physical status, and physical performance data. Prerequisite: graduate standing.

Physics

Portland State College Program

Courses Approved for Graduate Credit in MAT/MST Program

Ph 411, 412, 413. Modern Physics. 3 hours each. (PSC)

Advanced treatment of topics in modern physics, particularly solid state and nuclear physics. Prerequisite: Ph 311, 312, 313, or consent of instructor.

Portland Continuation Center Program

Ph 411, 412, 413. Modern Physics. (G) 3 hours each. (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. Prerequisite: Ph 201, 202, 203 or equivalent and calculus must be completed or taken concurrently.

Political Science

Portland State College Program

PS 201, 202, 203. American Governments. 3 hours each. (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 policymaking. 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.

PS 407. Seminar: Problems of American Foreign Policy. 3 hours. (PSC)**PS 407. Seminar: The Supreme Court and Fundamental Freedoms.** 3 hours. (PSC)**PS 407. Seminar: Presidential Politics in the 1960's.** 3 hours. (PSC)

Courses Approved for Graduate Credit in MAT/MST Program

PS 507. Seminar: Problems of American Foreign Policy. 3 hours. (PSC)

PS 507. **Seminar: The Supreme Court and Fundamental Freedoms.** 3 hours. (PSC)

PS 507. **Seminar: Presidential Politics in the 1960's.** 3 hours. (PSC)

Portland Continuation Center Program

PS 407. **Seminar: Metropolitan Government in Crisis.** 3 hours. (PSC)

PS 428. **Government and Politics of the Soviet Union.** (Second Term) (G) 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 507. **Seminar: Comparative Local Government (Foreign Governments).** 3 hours. (PSC)

Theory of local governments; local-central relationships, operation, organization and administration, methods of finance, and planning. Government of rural and metropolitan areas, with emphasis on the large cities of Europe.

PS 507 **Seminar: Metropolitan Government in Crisis.** 3 hours. (PSC)

Psychology

Portland State College Program

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

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

Courses Approved for Graduate Credit in MAT/MST Program

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

I. Infancy and Childhood; II. Adolescence and Maturity. Study of human be-

havior from a developmental point of view. Significance of behavior during the prenatal period, infancy, childhood, adolescence, maturity, and old age. Field projects supplement the class work. Prerequisite: Psy 201, 202, 203; Mth 425 or equivalent.

Psy 473. **Individual Differences.** (Second 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 411. **Mental Hygiene.** (g) 3 hours. (OSU)

Principles and application to problems of individual in home, school, and occupational situations. Prerequisite: Psy 314 or equivalent.

Psy 421. **Principles and Methods of Psychological Assessment.** (First Term) (g) 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. Prerequisite: Mth 425 or equivalent.

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

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

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

Psy 473. **Individual Differences.** (Second Term) (g) 3 hours. (OSU)

Theories of personality; individual differences; evaluation of differences; guiding and directing normal development. Prerequisite: Psy 371 or equivalent. Prerequisite for 473 or 474: Psy 472, or equivalent.

Psy 480. **Psychological Tests and Testing.** (Third Term) (g) 3 hours. (OSU)

Theory and practice; administration, scoring, and interpretation of individual mental tests; group tests of intelligence, personality, interests, etc. Prerequisite: Psy 371 or equivalent. Prerequisite for Psy 479, 480: Psy 478, or equivalent.

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, or equivalent.

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, or equivalent.

Recreation

Portland Continuation Center Program

Rec 407. Seminar: Camping Education and Counseling. 3 hours. (UO)
(See Special Programs Section)

Rec 507. Seminar: Camping Education and Counseling. 3 hours. (UO)
(See Special Programs Section)

Religion

Portland Continuation Center Program

R 311. The New Testament and Its Historical Background. 3 hours. (OSU)
Time and conditions out of which New Testament writings came; problems that gave rise to Christian movement.

R 407. Seminar: History of Great Religions. 3 hours. (OSU)

R 423. Contemporary Concepts of God. (First Term) (g) 3 hours. (UO)
Contemporary philosophical thought concerning Deity, with special attention to naturalism, idealism, and existentialism; selected readings from representative philosophers of religion such as Dewey, Wieman, Whitehead, Boodin, Royce, Brightman, Underhill, Radhakrishnan, Niebuhr, Tillich, Buber, Maritain, etc.

Science

Portland Continuation Center Program

Sc 511. Contemporary Developments in the Sciences and Mathematics. 3 hours. (OCE)
Review of recent literature on some selected areas in the field of the natural sciences and mathematics. Includes a brief examination of the aims, purposes, and organization of the field and an evaluation of research activities and the scientific manpower problem. Selected readings. Three lectures. (For elementary and secondary teachers; acceptable for secondary certification.)

Sc 512. Contemporary Developments in the Sciences and Mathematics. 3 hours. (OCE)
Contemporary developments in the biological sciences. Selected readings. Prerequisite: one year of biological science. Three lectures.

Science Education

Portland Continuation Center Program

SEd 407. Seminar: Conservation Education (Advanced). 3 hours. (OSU)
(See Special Programs Section)

SEd 407. Seminar: Radiation and Health. 3 hours. (OSU)
(See Special Programs Section)

SEd 407. Workshop: Conservation Education (Basic). 3 hours. (OSU)
(See Special Programs Section)

SEd 481. Alcohol Studies in School Curriculum. (G) 3 hours. (OSU)
Scientific information about alcohol; physiological, psychological, sociological and legal aspects of alcoholism. Prerequisite: 24 hours of upper division education.

SEd 507. Seminar: Conservation Education (Advanced). 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)

SEd 507. Workshop: Conservation Education (Basic). 3 hours. (OSU)
(See Special Programs Section)

Secretarial Science

Portland State College Program

SS 111. Stenography. (First Term) 3 hours. (PSC)
Theory of shorthand; practical applications in sentence dictation. SS 121, 122, 123 must be taken concurrently unless the student has had the equivalent. Students with one year of shorthand are not permitted to take the course SS 111 for credit.

SS 121, 122. Typing. (First and Second Terms) 2 hours each. (PSC)
Theory and practice of touch typing; rhythmical drill, dictation exercises; writing paragraphs; punctuation and mechanical arrangements of business correspondence, legal forms, tabulating, manifold, speech practice. Students with one year or more of typing are not permitted to take SS 121 for credit.

SS 215. Business Machines. 3 hours. (PSC)
Use and operation of various office equipment and machines.

SS 311, 312. Office Procedure. (First and Second Terms) 3 hours each. (PSC)
The most efficient stenographic methods and office practice; filing; advanced dictation; transcripts; reports; modern office appliances. Prerequisite: SS 213 or equivalent.

Portland Continuation Center Program

OA 407. Seminar: Briefhand. 3 hours. (OSU)
(See Special Programs Section)

OA 507. Seminar: Practicum in Business Education. 3 hours. (OSU)
The planning and development of practical and creative projects, group or individual, in the field of business education. Students will be urged to use actual school situations as a nucleus for the term's work and to arrive at the best possible solutions.

OA 508. Workshop: Briefhand. 3 hours. (OSU)
(See Special Programs Section)

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

Trends in high school business curriculum; methods and available research studies (no prerequisite).

Social Science

SSc 407. **Seminar: The Common Market.** 3 hours. (OCE)
(See Special Programs Section)

SSc 407. **Seminar: Similarities and Differences in Western European Cultures and American Culture.** 3 hours. (OCE)
(See Special Programs Section)

SSc 507. **Seminar: The Common Market.** 3 hours. (OCE)
(See Special Programs Section)

SSc 507. **Seminar: Similarities and Differences in Western European Cultures and American Culture.** 3 hours. (OCE)
(See Special Programs Section)

Sociology

Portland State College Program

Soc 204, 205, 206. **General Sociology.** 3 hours each. (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 334. **Social Psychology.** (First 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.

Soc 341. **Demography.** 3 hours. (PSC)

Introduction to the general field of population analysis; a review of the development of population theories, techniques of measurement and analysis of the basic demographic variables, their interrelationships, and population changes. Prerequisite: Soc 204, 205 or Anth 207, 208, 209, or consent of instructor.

Courses Approved for Graduate Credit in MAT/MST Program

Soc 416, 417. **Criminology and Delinquency.** 3 hours each. (PSC)

The nature and extent of crime and delinquency as forms of deviant social behavior;

ior; 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, or consent of instructor.

Soc 456. **Industrial Sociology.** 3 hours. (PSC)

Analysis of worker-management relations in American society. The nature of industrial management and the bases of management's labor decisions; the origins, nature, and functions of labor unions; industrial relations; the consequences of worker-management relations for social welfare. Prerequisite: Soc 204, 205, or equivalent.

Soc 507. **Seminar: Rehabilitation of the Mentally Ill.** 3 hours. (PSC)

Soc 507. **Seminar: Social Welfare Resources and Organizations.** 3 hours. (PSC)

Portland Continuation Center Program

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

Soc 416, 417. **Criminology and Delinquency.** (G) 3 hours each. (UO)

The nature and extent of delinquency and crime as forms of deviant social behavior; contributing factors; current prevention and treatment programs. Prerequisite: Soc 204, 205; or Psy 201, 202; or Soc 307, or consent of instructor.

Soc 456. **Industrial Sociology.** (G) 3 hours. (UO)

Analysis of union-management relations in American society. The nature of industrial management and the bases of management's labor decisions; the origins, nature, functions of labor unions; industrial relations; the consequences of union-management relations for social welfare.

Soc 507. **Seminar: Rehabilitation of the Mentally Ill.** 3 hours. (UO)

The rehabilitation process is seen as a hospital-community continuum and is developed from the standpoint of resocialization, in particular stressing the functions and interactions of the roles in the hospital and community systems and in their inter-relations. The general conceptual framework is contemporary social psychiatric theory. This is an intensive program of study and students are expected to read certain assigned literature and to prepare reports and papers.

Soc 508. **Workshop: Intergroup Relations.** 3 hours. (UO)

(See Special Programs Section.)

Speech (See also Special Programs Section)

Portland State College Program

Sp 111. **Fundamentals of Speech.** (First Term) 3 hours. (PSC)

Projects in extempore speaking. Emphasis on content and organization of the speech, but attention also to poise, effective delivery, and command of the language.

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

Sp 211. **Interpretation.** 2 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 321. Argumentation, Discussion, and Persuasion. (First Term) 3 hours. (PSC)

Theory and application of logic and motivation in decision-making. Prerequisite: Sp 111.

Courses Approved for Graduate Credit in MAT/MST Program

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. (First 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 507. Seminar: Introduction to Graduate Studies in Speech. 3 hours. (PSC)

Portland Continuation Center Program

Sp 507. Seminar: High School Forensics (Teachers). 3 hours. (UO)

(See Special Programs Section.)

Speech Correction

Portland State College Program

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.

Courses Approved for Graduate Credit in MAT/MST Program

Sp 481, 482, 483. Speech Pathology. 3 hours each. (PSC)

Symptoms, causes, and treatment of speech abnormalities. Sp 481: functional articulatory defects, delayed speech, emotional speech disorders. Sp 482: organic speech disorders, including deviations due to congenital malformation, injury, deafness, and neurological impairment. Sp 483: 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. (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.

Portland Continuation Center Program

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

A study of the anatomy, psychology, and physics of speech.

Sp 481, 482, 483. Speech Pathology. (G) 3 hours each. (UO)

Symptoms, causes, and treatment of speech abnormalities; functional articulatory defects, delayed speech, emotional speech disorders: organic speech disorders, including deviations due to congenital malformation, injury, deafness, and neurological impairment; public school speech correction, specific techniques in the diagnosis and treatment of major speech problems. Prerequisite: Sp 370, 371, or consent of instructor.

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

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. Prerequisite: Sp 481, 482, or consent of instructor.

Sp 487. Audiology (First Term (G) 3 hours. (UO)

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. Prerequisite: Sp 370, 371, or consent of instructor.

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

Designed to survey the field of speech defects and to acquaint classroom teachers with an understanding of typical speech defects among children and basic techniques for their prevention and correction. Emphasis placed on those areas of speech correction to aid classroom teachers, including analysis of speech mechanics, recognition of defects, formation of sounds, testing devices, and parent co-operation.

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.

Courses Approved for Graduate Credit in MAT/MST Program

TA 413. Development of Dramatic Art. (Third Term) 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. 3 hours. (PSC)

TA 507. Seminar: Stage Design. 3 hours. (PSC)

Writing

Portland State College Program

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

Advanced composition, particularly the expository forms and styles. Prerequisite: Wr 111, 112, 113.

Wr 214. **Business English.** 3 hours. (PSC)

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

Wr 312. **Advanced Short Story Writing.** 3 hours. (PSC)

Further instruction in short story writing. Criticism and guidance of original narratives. Prerequisite: Wr 213 or consent of instructor.

Portland Continuation Center Program

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.

Zoology

Portland Continuation Center Program

Z 577. **Ornithology.** 3 hours. (OSU)

Eleven-Week Term

Portland State College Program

Anthropology

Anth 207, 208, 209. **Introduction to Cultural Anthropology.** 3 hours each. (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. (PSC)

For biology and zoology majors and premedical, premedical, prenursing, prepharmacy, preveterinarian, physical education, psychology, fish and game management, and fisheries students.

Bi 328, 329. **Comparative Vertebrate Anatomy.** 4 hours each. (PSC)

Gross dissection and comparison of organ systems in representative vertebrate forms. Prerequisite: Bi 206, or Bi 253.

Business Administration

Ba 211, 212, 213. **Principles of Accounting.** 3 hours each. (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.

Chemistry

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

For students majoring in medical technology, premedical, nursing, and liberal arts. Three lectures; one 3-hour laboratory period.

Foreign Languages

Arabic

SmL 50, 51, 52. **First-Year Arabic.** 4 hours each. (PSC)

Elements of the Arabic language, stressing hearing, speaking, reading, and writing.

German

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

Provides a thorough grammatical foundation of German, stressing hearing, speak-

ing, reading and writing. Registration for less than the full sequence will not be accepted until June 23, and then only over the instructor's signature.

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

Registration for less than the full sequence will not be accepted until June 23, and then only over the instructor's signature.

French

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

An introduction to French, stressing hearing, speaking, reading and writing. Exercise in elementary composition and grammar. Registration for less than the full sequence will not be accepted until June 23, and then only over the instructor's signature.

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

Registration for less than the full sequence will not be accepted until June 23, and then only over the instructor's signature.

Italian

RL 70, 71, 72. First-Year Italian. 4 hours each. (PSC)

Introductory course. Hearing, speaking, reading, and writing for the beginner. Registration for less than the full sequence will not be accepted until June 23, and then only over the instructor's signature.

Spanish

RL 60, 61, 62. First-Year Spanish. 4 hours each. (PSC)

An introduction to Spanish, stressing hearing, speaking, reading and writing. Registration for less than the full sequence will not be accepted until June 23, and then only over the instructor's signature.

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

Registration for less than the full sequence will not be accepted until June 23, and then only over the instructor's signature.

General Science

GS 101, 102, 103. General Biology. 3 hours each. (PSC)

The fundamental principles of life as they apply to both plants and animals. For general students and those majoring in fields other than biology. If taken after courses with similar materials have been completed, credit will be restricted. Two lectures; one 2-hour laboratory period.

GS 104, 105, 106. Physical Science. 3 hours each. (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. Two lectures; one 2-hour laboratory period.

Geography

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

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

Geology

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

Processes of nature by which earth's surface has been built up, deformed and torn down; natural history and occurrence of common rocks and useful minerals; outline of history of earth and life. One Saturday field trip each term.

History

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

From colonial times to the present day.

Physics

Ph 201, 202, 203. General Physics. 4 hours each. (PSC)

Standard college physics. Three lectures; one recitation; one 3-hour laboratory period. Prerequisite: Mth 102, or consent of instructor.

Administrative Officers

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Portland State College

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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 preprofessional 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 preprofessional programs.

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

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.

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