

CATALOG
ISSUE
1960

SUMMER SESSION

EUGENE,
OREGON

BULLETIN

UNIVERSITY OF OREGON



OREGON STATE SYSTEM OF HIGHER EDUCATION

UNIVERSITY OF OREGON SUMMER SESSION

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UNIVERSITY OF OREGON BULLETIN

NUMBER 83

MARCH 1960

Entered as second-class matter, January 18, 1950, at the post office at Eugene, Oregon, under act of August 24, 1912. Issued nine times a year, in January, March, April, May (two numbers), June, July, August, and November. Published by the Oregon State Board of Higher Education, at the University of Oregon, Eugene, Oregon.

EUGENE, OREGON

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

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

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

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

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

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

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University of Oregon

Summer Session 1960

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JAN ZACH, Assistant Professor of Art.

K. K. ZOLLER, B.A., Instructor in Speech.

Summer Session Calendar

JUNE 20. Registration.

JUNE 21. Classes begin.

JUNE 22. Last day for payment of registration fee without penalty.

JUNE 29. Last day to add a course.

JULY 4. Independence day, holiday.

JULY 15. Last day to withdraw from a course.

JULY 18. Last day to file doctor's theses.

JULY 28. Last day to file master's theses.

AUGUST 10. Last day for master's and doctor's oral examinations.

AUGUST 11-12. Final summer session examinations.

The Summer Program

The fifty-sixth annual summer session of the University of Oregon will be organized as a single session of approximately eight weeks between June 20 and August 12, 1960.

Undergraduate Work

A large selection of lower-division courses will be offered in the 1960 summer session; these courses will be closely integrated with course sequences offered during the regular academic year, so that students may make steady progress toward the completion of lower-division requirements. Certain courses are planned especially for students intending to enter medical or dental schools or schools of nursing.

Students who are nearing graduation will find in the summer session an excellent opportunity to complete upper-division requirements for a degree.

Admission as an Undergraduate. The only requirement for admission to the summer session is ability to do the work. However, students who wish to become candidates for a degree from the University must satisfy the regular University admission requirements. As early as possible before the opening of the summer session, such students should file with the University Director of Admissions complete official transcripts covering all school work taken above the eighth grade. Specific requirements are listed in the general University Catalog.

Admission through Prefreshman Program. Students who are unable to qualify for admission on the basis of their high-school record and test performance may qualify by achieving a minimum grade-point average of 2.00 (a C average) on a full load of study (at least 9 term hours) in a regular collegiate summer session. The summer program must include English composition and other courses chosen from the fields of literature, social science, or science.

Graduate Work

Many summer courses are especially planned for graduate students; all of the work for the master's degree may be completed in summer sessions.

Admission. A bachelor's degree from an accredited institution is prerequisite to registration as a graduate student. To earn credit toward an advanced degree at the University of Oregon, the student must clear his admission with the University Director of Admission before registering, preferably before coming to the campus.

Preparation. For a graduate major, preparation at the undergraduate level in the same field is required.

Credit Requirements. For the departmental masters' degree the University requires a program of study of not less than 45 term hours.

Graduate Requirement. A graduate student is required to earn at least a B grade average to qualify for a graduate degree. A grade point average of less than 3.00 at any time during the student's graduate studies is considered unsatisfactory, and may result in disqualification by the dean of the Graduate School after consultation with the student's major department or school. Disqualification means reduction to postbaccalaureate standing. A course in which the student earns a grade of D will not carry graduate credit, but will be included in the computation of the student's GPA.

Residence Requirement. The residence requirements for the M.A. and M.S. degrees (and all other master's degrees except the M.Ed.) is 30 term hours of work on the Eugene campus or at the Medical School or Dental School in Portland. The residence requirement for the M.Ed. degree is 24 term hours of graduate work on the University campus or in the Portland summer session of the General Extension Division.

Transferred Credit. Not more than 15 term hours of credit may be transferred from another institution toward the master's degree. Transferred credit is provisional until the qualifying examination is taken.

Time Limit. It is expected 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.

Qualifying Examination and Program. During the first term of work toward the master's degree, the student should file a tentative program, planned in conference with his major adviser. It is expected that the qualifying examination will be taken during the first term of residence, or before 15 term hours have been earned. If satisfactory knowledge and ability are demonstrated, the student is formally advanced to candidacy for the degree sought, subject to the approval of the dean of the Graduate School.

Maximum Course Load. The maximum summer course load for a graduate student is 13 term hours; 12 term hours is considered a normal load.

Thesis Registration. All graduate students working for an advanced degree for which a thesis is required must register for Thesis (503). The candidate for

the M.A. or M.S. degree with thesis earns 9 term hours of credit for this work; a first draft of the thesis must be accepted by the adviser before the student can register for the final 3 hours.

Further information will be furnished at the office of the Graduate School, Johnson Hall.

Opportunities for Teachers

Because many teachers wish to take summer work to improve their professional training, an extensive program has been planned especially to meet their needs.

Secondary-School Teaching. The state of Oregon will grant a one-year provisional certificate for secondary-school teaching to a person who holds a bachelor's degree and who has completed a minimum of 21 term hours of work in education. Provisional certification may be continued for a maximum period of five years if, during each of these five years, the teacher earns not less than 9 term hours in properly selected college courses at the upper-division or graduate level. On the completion of 45 term hours of selected work as a graduate student, the teacher is eligible for regular certification. A total of 36 term hours of work in education, including undergraduate and graduate courses, is required for the regular certificate.

Graduate Program for Teachers. The University offers a program of graduate study planned especially for students working toward the satisfaction of the Oregon state requirement for a fifth year of college work for final high-school teacher certification. The program leads to the M.A. or M.S. degree.

Enrollment in the program is open to any person who is eligible for admission to the Graduate School; the student must, however, have a reasonable background of undergraduate study in the fields in which he proposes to work and must complete prerequisites for specific courses. The requirements for the teaching program are:

(1) A total of between 45 and 51 term hours in graduate courses, distributed in accordance with (a) and (b) below:

(a) A total of 36 term hours in subject fields (work in liberal arts departments or professional schools other than education), distributed in accordance with one of the following options:

Option 1. Between 12 and 21 term hours in each of two subject fields.

Option 2. A minimum of 36 term hours in one of the following fields: art, biology, business administration, English, French, history, health and physical education, mathematics, music, Spanish.

Option 3. A minimum of 36 term hours in the composite field of social studies or the composite field of science. A program in social studies may include work in the fields of anthropology, economics, geography, history, political science, psychology, and sociology. A program in science may include work in the fields of biology, chemistry, geology, mathematics, and physics.

In each of the options listed above, at least 6 term hours of work must be taken in 500 courses. The student's program must be planned to provide well-rounded knowledge, and must not be made up of scattered, unrelated courses.

For Options 1 or 2, 18 term hours in each of subject fields involved must be presented as an undergraduate prerequisite. For Option 3, the prerequisite is 36 term hours in the composite field involved.

(b) Between 9 and 15 term hours in graduate courses in the field of educa-

tion, the number of hours to be determined on the basis of the amount of work in education completed by the student as an undergraduate.

(2) Satisfaction of the regular requirements of the Graduate School, except that no thesis is required. The combined total of work transferred from other accredited institutions and work done in the General Extension Division of the Oregon State System of Higher Education cannot exceed 15 term hours.

For the M.A. degree, the student must show, by examination or by adequate undergraduate courses (completion of the second-year college sequence), a reading knowledge of one foreign language, preferably French or German; on petition to the dean of the Graduate School, a student may be permitted to substitute another language, provided it is equally relevant to his program of graduate study. For the M.S. degree there is no foreign-language requirement, unless a language is required by a school or department.

The program is administered by the dean of the Graduate School and supervised by the Committee on Interdisciplinary Studies; Dr. Lloyd R. Sorenson, associate professor of history, serves as adviser to students in the teaching program.

Other Graduate Programs. In addition, the University offers departmental master's degrees in a wide variety of teaching fields. Work toward these degrees is admirably fitted to the need of persons who wish to limit preparation to one field. At the option of the department, a thesis may or may not be required. Many departments offer programs for the master's degree both with thesis and without thesis.

A third type of master's degree is the M.Ed, which fits the needs of the superintendents, deans, principals, and elementary teachers. For a few high-school teachers who have very few education credits and who must concentrate in this field, the program leading to this degree may be the most satisfactory.

Elementary Education. An undergraduate program in elementary education will be offered in the summer session. Persons who have emergency elementary certificates and wish to secure regular certificates and a bachelor's degree may satisfy requirements through summer study. Persons with emergency certificates and a bachelor's degree are eligible for work toward a master's degree.

Graduate work in elementary education will also be offered. The summer faculty will include visiting instructors with special competence in the field. Work will be offered both for classroom teachers and for supervisors and principals.

Administrative Credentials. Every person holding an administrative position in the Oregon public schools must have an appropriate administrative certificate. The administrative certificates are: (1) superintendent's certificate, (2) administrative principal's certificate, (3) secondary principal's certificate, (4) elementary principal's certificate, and (5) supervisor's certificate. Work in school administration, planned specifically to meet the requirements for each of these certificates, is offered in the University summer sessions.

Post Session

There will be a two-week post session for graduate students in education from August 15 to 26. Credit may be earned in Reading and Conference (Ed 505). The fee for this session is \$10.50 per term hour.

Student Council Workshop. The seventh and eighth Student Council Workshops, sponsored jointly by the Oregon Association of Secondary School Principals, the Oregon State Department of Education, and the University, will be held August 14-26 (see page 33 for description). State and national leaders in student council work will be on the campus from August 14-19, during which time student leaders representing most of the secondary schools of Oregon will be in attendance.

Two sections, elementary and advanced, will be organized for student council advisers and others interested in problems of student participation in school government.

Registration Procedure

Students will register for the summer session on Monday, June 20; classes will begin Tuesday morning, June 21. Registration will begin at 8 o'clock in the morning and continue until 4 o'clock in the afternoon. Students will receive registration materials and further instructions at the Registrar's Office. (Education majors may obtain registration material either at the School of Education or at the Registrar's Office.)

Graduate students in education who reside in Eugene or vicinity are urged to obtain their registration materials at the School of Education on Friday, June 17, or on Saturday morning, June 18. They will thus be able to confer with their advisers and fill out class cards in advance of the regular registration day. Fees will, however, not be assessed or paid until Monday, June 20.

Summer Session Fees

Students attending summer session classes for credit or as auditors pay the same fees. Registration and other summer session fee are listed below. The Business Office is open for payment of fees from 8:00 a.m. to 12:00 noon and from 1:00 to 4:00 p.m., Monday through Friday.

Registration fee\$85.00

Students registering for 7 or more term hours of work (for credit or as auditors) pay this fee. There is no additional out-of-state fee for the summer session. Graduate students employed as teaching or research assistants during the summer session pay a fee of \$28.00.

Part-time fee\$21.00 to \$63.00

1 or 2 term hours, \$21.00; 3 term hours, \$31.50; 4 term hours, \$42.00; 5 term hours \$52.50; 6 term hours, \$63.00. Paid also by auditors attending classes carrying a total credit or 6 term hours or less.

Late-registration fee, per day.....\$1.00

Full-time undergraduate and graduate students pay the late-registration fee if they register after June 24.

Graduate qualifying examination fee.....\$1.00 to \$15.00

Staff fee, per term hour.....\$3.00

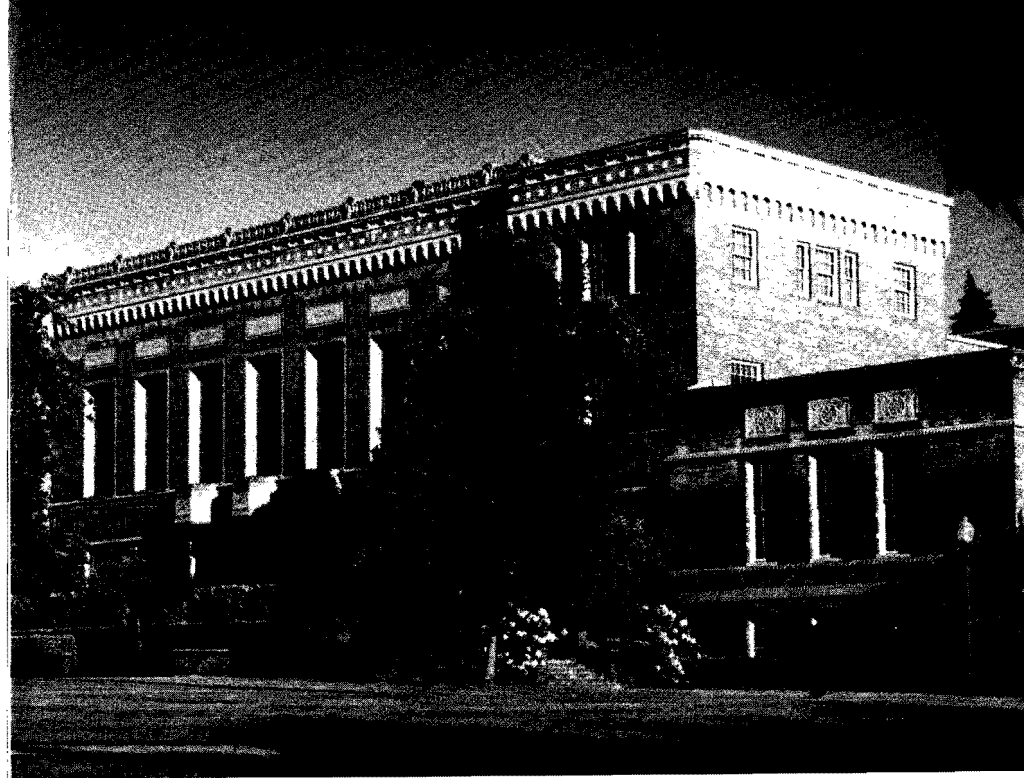
With the approval of the President's Office, staff members enrolled in University courses pay a special staff fee of \$3.00 per term hour. Full-time staff members (academic or civil service) may enroll under this fee for 3 term hours of work per term (enrollment for 5 hours of work may be permitted, provided such enrollment is in one course); academic staff members employed half time or more but less than full time may enroll under this fee for a maximum of 10 term hours of work.

Fees for school psychological services:

Diagnostic service\$ 5.00
Corrective and remedial service\$10.00

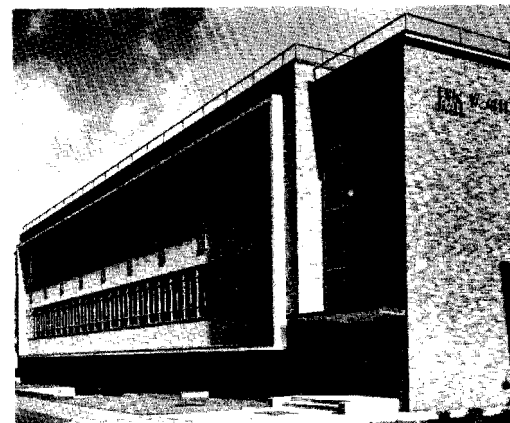
Music feessee page 49

Fee Refund. Students who withdraw from the summer session and who have complied with the regulations governing withdrawal are entitled to certain refunds of fees paid, depending on the time of withdrawal. The refund schedule is as follows:



Top—The University of Oregon Library.

Bottom—Allen Hall houses the School of Journalism and the University Press.

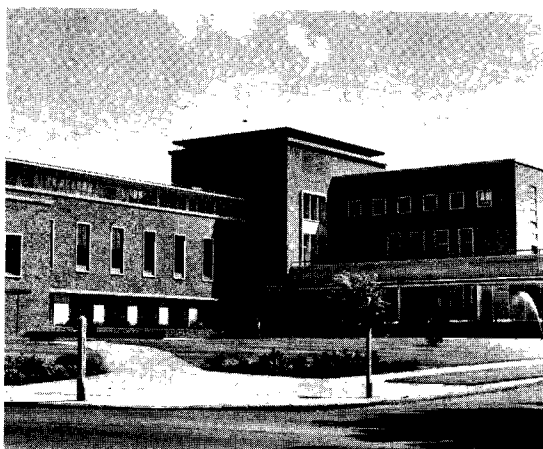
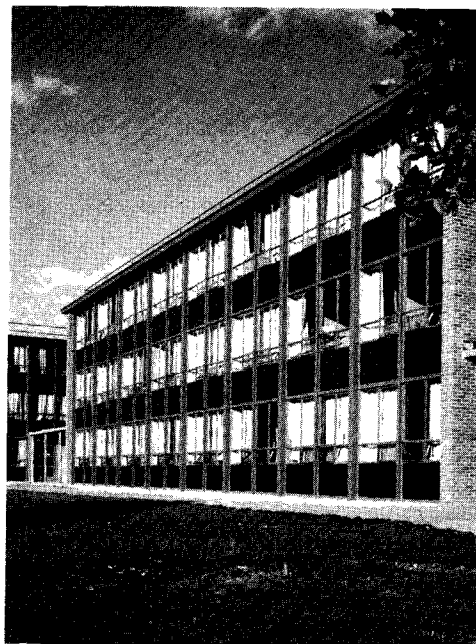




Top—Commonwealth Hall houses the School of Business Administration.

Center—Summer Session students will live in the University's new dormitories.

Bottom—The Erb Memorial Student Union is the center of student life and recreation.



Withdrawing first three days after beginning classes.....	Refund of all fees over \$ 8.50
Withdrawing within first two weeks.....	Refund of all fees over \$21.25
Withdrawing after two weeks and before beginning of fifth week.....	Refund of all fees over \$42.50
Withdrawing after beginning of fifth week.....	No refund

Refunds in all cases are calculated from the date of application for the refund, and not from the date the student ceased attending classes.

Board and Room

Board and room for both men and women will be available during the summer session in University halls of residence.

Blankets and bed linens, and the laundry of these items, are furnished by the halls; students furnish their own towels.

No advance reservations are necessary for the regular summer session students. During the summer session, students rooming in the dormitories may board elsewhere if they wish, and students living outside the dormitories may have their meals in the dormitory dining rooms, either regularly at the summer session rate or occasionally at the per-meal rates.

Both single and multiple dormitory rooms are available.

Graduate women students and mature women teachers will not be subject to the strict supervision provided for undergraduate women students.

Facilities will be available for married couples on the same basis as for other dormitory residents, but married couples, to be certain of accommodations, must make advance reservation to the Director of Housing, Business Office, University of Oregon, Eugene, Oregon.

Dormitory Rates. The rates for room and board in the University dormitories for men and women during the summer session are as follows:

	Multiple Occupancy	Single Occupancy	Board*	Total, Board & Room	
				Multiple	Single
Eight-week session.....	\$64.00	\$84.00	\$126.00	\$190.00	\$210.00
Four-week session.....	32.00	42.00	63.00	95.00	105.00
Three-week session.....	24.00	31.50	47.25	71.25	78.75
Two-week session.....	16.00	21.00	31.50	47.50	52.50
One-week course.....	10.50	15.00	16.00	26.50	31.00
Per day.....	2.00	2.50	3.10†	5.10	5.60

Room and board charges for the eight-week session are payable in advance at the opening of the session or in installments as follows:

	Multiple	Single
At the opening of session.....	\$95.00	\$105.00
Due July 18, not later than July 27.....	95.00	105.00
	\$190.00	\$210.00

A penalty charge of \$1.00 per day up to a maximum of \$5.00 is made if the first installment is not paid by June 29 or if the second installment is not paid by July 27.

Refunds of board and room charges will not be made unless the student withdraws from school.

Board and room charges are paid at the University Cashier's Office, Emerald Hall. This office is open Monday through Friday, from 8:00 a.m. to 12:00 noon and from 1:00 to 4:00 p.m.

The dormitories will be open for the summer session at 9:00 a.m. on Sunday,

* Three meals per day, 6 days per week; Sundays and holidays, breakfast and dinner.

† Rates per meal: breakfast, 85 cents; lunch, 85 cents; dinner, \$1.40.

June 19. The first meal served will be breakfast on Monday, June 20. The dormitories will close at 7:00 p.m. on Friday, August 12. The last meal served will be the evening meal on Friday, August 12.

Room and Board in Private Houses. A number of private boarding and rooming houses will be open during the summer. Rooms, flats, and furnished cottages suitable for light housekeeping may also be available. A list of such accommodations will be obtainable from the Housing Secretary after June 1.

Housing for Married Students. The University operates a considerable number of housing units for married students, some of which will be available for the summer session. Married students interested in these quarters should write to the Director of Housing, Business Office. Married students seeking off-campus living quarters in Eugene for the summer session should consult the Housing Secretary at the time of registration or shortly before, and then make their own individual arrangements with householders or managers of apartments.

Married students may also obtain rooms in the dormitories.

Undergraduate Housing Rules. The rules regarding housing which prevail during the regular academic year are applicable to undergraduate students during the summer session. Mature undergraduate teachers are excepted from these rules.

(1) Freshmen students are required to live in the University dormitories; undergraduate women are required to live either in the dormitories or in houses maintained by organized University living groups (sororities, cooperatives). Married students and students living with relatives in Eugene are excepted from this rule. Other exceptions are rare, and are made only for students working for room and board, or for whom rooms are not available in campus quarters.

(2) Unmarried undergraduate students are not allowed to live in motor courts, hotels, or separate houses.

General Information

Forums and Lectures. Evening forums and lectures by visiting lecturers and prominent members of the University faculty will be scheduled each week during the summer session.

Recreation. Everyone who enjoys the outdoors should come prepared to take part in the recreational program sponsored by the University. There will be hikes and picnics, golf, tennis, pingpong, outdoor volleyball, playground baseball, indoor evening games, swimming, and social dancing. It is suggested that students bring tennis rackets and golf clubs. There are excellent opportunities for these sports on the University campus and nearby courses.

Summer students have the privilege of the use of the gymnasium, swimming pools, and tennis courts; they will be furnished with swimming suits, lockers, towels and soap.

Chorus, Orchestra, and Band. A summer chorus, orchestra, and band will be organized. Membership in these organizations will be open to all summer students whether or not they are enrolled in music courses. Students who play orchestral or band instruments are urged to bring their instruments and take part. Concerts will be given by these groups during the final week of the session. The purpose of these organizations is recreation and enjoyment as well as professional and cultural training.

High School Music Summer Sessions. Three special music summer sessions, for high-school students will be held on the campus. The first, June 19-July 1, will

be for band students. The second, July 5-July 16, will be for orchestra students. The third, July 11-July 22, will be devoted to chorus and opera workshop. Observation of the rehearsals of these high school groups will be interesting and valuable to high school music teachers.

The Summer Sun, a four-page weekly newspaper devoted to summer session news, is published by the journalism classes and is distributed free to the faculty and students.

Correspondence Study. Students may frequently find a schedule of correspondence courses through which to continue their program of study after the close of the summer session. A correspondence catalog may be obtained from the General Extension Division office on the University campus.

Extension Classes. The General Extension Division welcomes inquiries in regard to extension courses offered in Portland and in other Oregon cities.

Course-Numbering System. The courses in this Catalog are numbered in accordance with the course-numbering system of the Oregon State System of Higher Education. Lower-division (freshman and sophomore) courses are numbered below 300. Upper-division (junior and senior) courses are numbered from 300 to 499. Graduate courses are numbered 500-599. A large (G) following the name of a 400 course indicates that the course may be taken for either major or minor graduate credit. A small (g) following the name of a 400 course indicates that the course is approved for graduate minor credit only.

Employment Service. The University maintains an employment service for students desiring part-time work while in attendance at the University. This service is available to summer students. Those interested in learning of opportunities for part-time work should write to Employment Secretary, University of Oregon.

University Placement. The University maintains a centralized office, the University Placement Service, which assists graduates or alumni in securing new or better positions in education, business, or government. The office is located in 124 Education Building.

Students who have taken, or are currently enrolled for, at least 12 term hours of University work, and who are completing degree requirements, are provided initial placement service without charge. Alumni and former registrants who desire to use this service are charged a fee of \$5.00 per year. Registration forms may be obtained upon request.

The Museum of Art. The Museum of Art, housing the Murray Warner Collection of Oriental Art, will be open to students during the summer from 1:00 to 5:00, Tuesday through Sunday. Special exhibitions scheduled for the summer are:

June 28-August 28. Adventure in Collecting. A Friends of the Museum feature; circulated by the American Federation of Arts.

July 5-October 2. 750 Years of Byzantine Painting. From the Murray Warner Collection of Oriental Art.

Other exhibitions, to be announced, will be shown in cooperation with the Summer Academy of Contemporary Art. The museum is available for use by classes during morning hours, in addition to regular hours, by advance arrangement with the Museum secretary.

Health Service. Payment of summer session fees entitles students to general medical attention and advice at the University Student Health Service. Health Service hours are 8:00 a.m. to 1:00 p.m., Monday through Friday.

Workshops and Conferences

- BEd 508. **Workshop: Business Education.** June 20-July 1.
 BEd 508. **Workshop: Business Education.** July 5-15.
 BEd 508. **Workshop: Business Education.** July 18-29.
 Ed, FBE 508. **Workshop: Family Financial Security Education.** 6 hours. June 20-July 15.
 Ed 508. **Workshop: Teaching Latin American Geography in the Elementary Schools.** 3 hours. July 18-August 11.
 Ed 508. **Workshop: Improving Social Studies Instruction.** 6 hours. July 18-August 12.
 Ed 508. **Workshop: The Student Council.** 3 hours. August 14-26.
 Ed 508. **Problems in Teaching the Mentally Retarded.** 4 hours. June 20-July 15.
 Ed 508. **Workshop: The School Administrator and the Guidance Program.** 3 hours. June 20-July 1.
 Ed 508. **Workshop: Instructing the Able and Gifted.** 6 hours. June 20-July 15.
 Ed 508. **Workshop: The Mentally Retarded.** 3 hours. June 20-August 12.
 Eng 508. **Workshop: Critical Thinking.** 3 hours. July 5-July 17.
 HE 508. **Workshop: Elementary School Health Education.** 3 hours. June 13-18.
 PE 406. **Coaching Clinic.** 2 hours. June 13-17.
 PE 408. **Workshop: Physical Education Activities.** 1-8 hours. June 20-July 8.
 Psy 508. **Workshop: Clinical Work with Children.** Hours to be arranged. June 20-August 12.
 Soc 508. **Workshop: Intergroup Relations.** 3 hours. July 11-22.
 Sp 508. **Workshop: Educational Television.** 4 hours. June 13-24.
High-School Music Summer Sessions. Band, June 19-July 1; orchestra, July 5-16; chorus, July 11-22.
Mathematics Institute. June 20-August 12.
World Affairs Program. June 20-August 15.

Anthropology

Assistant Professor: GASTIL.

- Anth 401. **Research.** Hours to be arranged.
 Anth 414. **Race and Culture.** (G) 3 hours.
 Racial classifications and comparisons; the biological base of culture; attitudes toward race in human relations; consideration of problems of racial conflict in the United States and elsewhere. Prerequisite: 9 hours in anthropology or consent of instructor. MTuWTh. Gastil.
 Anth 501. **Research.** Hours to be arranged.
 Anth 503. **Thesis.** Hours to be arranged.
 Anth 505. **Reading and Conference.** Hours to be arranged.
 SSc 507. **Seminar: Scope and Methods of the Social Sciences.** 3-6 hours.
 The background and perspectives of each of the social-science disciplines—anthropology, economics, political science, psychology, and sociology. Selected aspects of social organization and processes considered in detail. Daily. Tope, Campbell, Dean, Bisno, Fosmire, Gastil.

Architecture and Allied Arts

Visiting Faculty: HOOK.

Professor: ROSS.

Associate Professors: BALLINGER, WILKINSON.

Assistant Professors: RYAN, BURGNER, JAMES, ZACH.

Instructor: NIXON.

Art Education

- ArE 401. **Special Studies: Art in the Secondary School.** 3 hours.
 ArE 401. **Special Studies: Art in the Secondary School.** 2 hours.
 July 18-August 12. Study of art education in the secondary school. Lectures, laboratory work, and individual research. Evaluation of current thinking in the field; application to classroom situations. MTuWTh. Hook.
 ArE 401. **Special Studies: Art History in the Secondary School Curriculum.** (G) 3 hours.
 Teaching the history of art in the secondary school instructional program. Historical and critical approaches to the study of painting, sculpture, and architecture. Illustrated lectures, readings, and class discussions. Of particular interest to librarians, history, art, and social science teachers. MTuWTh. Ross.
 ArE 401. **Special Studies: Art Experiences for the Mentally Retarded Child.** (G) 3 hours.
 Laboratory use of simple art materials consistent with developmental stages of the mentally retarded child. Current literature and practice. Prerequisite, none. Teaching experience required for graduate credit. MTuWTh. Ballinger.
 ArE 405. **Reading and Conference.** Hours to be arranged.
 ArE 411. **Methods and Research Materials in Elementary School Art.** (G) 3 hours.
 Current trends and directions in elementary public school art education. Methods and laboratory practice in the effective use of materials and ideas in creative activities. Significant research and literature in the field. Prerequisites: ArE 311, 312; or one year of teaching experience. MTuWTh. Burgner.
 ArE 505. **Reading and Conference.** Hours to be arranged.
 ArE 507. **Seminar.** 2 hours.
 Second four weeks, July 18-August 12. TuWTh. Burgner.
 ArE 501. **Special Studies: Children's Art Laboratory.** 3 hours.
 First four weeks, June 20-July 15. Observation and study of primary and intermediate children engaged in creative activities. Methods and art materials. Prerequisites: teaching experience or consent of the instructor. MTuWTh. Burgner.
 ArE 535. **Art and Architecture for the School Administrator.** 2 hours.
 First four weeks, June 20-July 15. Problems facing the school administrator in the general field of art and architecture, including school-plant design, the place of art in the school curriculum, and problems of community planning. Lectures, discussions, and studio demonstrations. MTuWTh. Wilkinson, architecture staff.

Architecture

- AA 439. **Contemporary Architecture.** (G) 1-2 hours.

For description see page 59.

AA 501. Special Studies: Architectural Design. 2 hours.

Two-week program, including study and solution of a design problem, and attendance at the two-week architecture lecture series in the Summer Academy of Contemporary Art. Open to architectural practitioners as well as architectural students.

Drawing and Painting***AA 290. Painting.** 2-4 hours.

Instruction in the use of oil color, water color, and other media. MTuWTh. Ryan.

AA 438. Contemporary Painting. (G) 1-2 hours.

For description see page 60.

AA 490. Advanced Painting. (g) 2-4 hours.

Advanced problems in portrait, figure, landscape, and still life, in all media. Prerequisite: 12 hours in beginning painting or consent of instructor. MTuWTh. Ryan, Hook.

AA 491. Advanced Drawing. (g) 2-4 hours.

Advanced work in drawing. Study of form from the figure. Prerequisite: 6 hours in lower division drawing or consent of instructor. MTuWTh. Ryan.

AA 501. Special Studies. Hours to be arranged.**AA 505. Reading and Conference.** Hours to be arranged.**AA 590. Graduate Studies in Painting.** 2-4 hours.

Work at an advanced level, with problems of color and form, techniques, processes, and visual theories. Hours to be arranged. Wilkinson.

Sculpture and Applied Design***AA 255. Ceramics.** 1-3 hours.

Introduction to ceramic techniques and materials. Throwing, molding, and hand building. Surface decoration of two- and three-dimensional surfaces. Students participate in stacking, firing, and drawing the kiln. Open to non-majors. MTuWTh. James.

AA 256. Beginning Weaving. 1-3 hours.

Introduction to basic weaving techniques. The dressing, care, and manipulation of several types of looms. Experimentation with a wide variety of fibers. Production of textiles of original design on 4- and 12-harness looms. MTuWTh. Nixon.

AA 257. Metalwork and Jewelry. 1-3 hours.

The handworking of nonferrous metals—copper, brass, pewter, silver, gold. Development of design for metal objects. Enameling on metal; centrifuge casting; lapidary work. MTuWTh. Nixon.

AA 293. Elementary Sculpture. 1-3 hours.

Introduction to materials. Elementary considerations of form; technical and compositional exercises in clay, plaster, wood and stone. Sections for preidental students and nonmajors. MTuWTh. Zach.

AA 455. Advanced Ceramics. (G) 2-4 hours.

Advanced studio work; individual projects. Emphasis on creative form. Study of material, texture, and functional relationships. Body and glaze making; earthenware, stoneware, and porcelain. Kiln atmosphere and effects on body and glaze. Students assume responsibility for firing their own work. Prerequisite: 6 hours in AA 255. MTuWTh. James.

* Students may enroll in drawing, painting, sculpture, and applied design courses for either a four- or an eight-week period.

AA 456. Advanced Weaving. (G) 2-4 hours.

Emphasis on creative work. Production of a wide variety of handwoven fabrics. Historical studies, fabric analysis, spinning, and dyeing. MTuWTh. Nixon.

AA 457. Advanced Metalwork and Jewelry. (G) 2-3 hours.

Emphasis on creative work. Advanced problems in forging, sand and centrifuge casting, enameling, etching, lapidary work, brazing, welding, repousse, and tool making. MTuWTh. Nixon.

AA 494. Advanced Sculpture. (G) 2-4 hours.

No-grade course. Coordination of sculpture with related fields of architecture, landscape, interior, and industrial design. MTuWTh. Zach.

History of Art**AA 401. Special Studies: Modern Art.** (G) 3 hours.

A comprehensive study and analysis of the art of the twentieth century. Emphasis on architecture, painting, and sculpture. MTuWTh. Ross.

ArE 401. Special Studies: Art History in the Secondary School Curriculum. (G) 3 hours.

Teaching the history of art in the secondary school instructional program. Historical and critical approaches to the study of painting, sculpture, and architecture. Illustrated lectures, readings, and class discussions. Of particular interest to librarians, history, art, and social science teachers. MTuWTh. Ross.

AA 405. Reading and Conference. Hours to be arranged.

Ross.

AA 505. Reading and Conference. Hours to be arranged.

Ross.

Biology

Visiting Faculty: BACON, GHELARDI, KOZLOFF.

Professors: CLANCY, HUESTIS.

Associate Professor: FRANK.

Assistant Professors: CASTENHOLZ, MCCONNAUGHEY.

Instructor: ERICKSON.

The Department of Biology offers a program of summer courses especially designed to meet the needs of teachers of biology. Courses are presented in a rotational pattern to permit students to acquire a substantial background in biology in a series of summer sessions. The full program includes the following: General Biology, Field and Laboratory Methods in Biology, Introduction to Genetics, Mammalian Physiology, Microbiology, History of Biology, Field Botany, and Field Ornithology. One term of General Biology and one or more field courses are offered each summer. In addition, the Oregon Institute of Marine Biology at Charleston on Coos Bay offers summer courses emphasizing marine biology and invertebrate zoology.

Bi 101, 102, 103 or equivalent is prerequisite to all upper-division courses in biology.

Bi 101. General Biology. 4 hours.

Fundamental principles of life science as illustrated by the physiology of mammals; cells, tissues, organs and organ systems; digestion, metabolism, circula-

lation, respiration, reproduction, and response mechanisms. Lectures, MWF. Laboratory, field work, and discussion. MWF. Erickson.

Bi 401, 501. **Research.** Hours to be arranged.

Bi 403, 503. **Thesis.** Hours to be arranged.

Bi 405, 505. **Reading and Conference.** Hours to be arranged.

Bi 407. **Seminar.** Hours to be arranged.

Bi 408. **Laboratory Projects.** (G) Hours to be arranged.

Bi 442. **Introduction to Genetics.** (g) 4 hours.

An introduction to the fundamental principles of genetics. Lectures, MWF. Clancy.

Bi 443. **Genetics Laboratory.** (G) 2 hours.

Breeding experiments with the fruit fly, *Drosophila melanogaster*. Particular attention to the needs of biology teachers in secondary schools. Laboratory, MWF. Clancy.

Bi 486. **Field Ornithology.** (G) 3 hours.

Practice in identification of Oregon birds by their field marks, songs, call notes, and behavior, and observation of the habitats in which different species may be found. Local bird walks will be supplemented by longer trips to special environments. The use of birds as material for biology teaching will be stressed. Field work, lectures, laboratory, and discussion. TuThSa. Huestis.

Oregon Institute of Marine Biology

The courses listed below will be offered at the Oregon Institute of Marine Biology, Charleston, Oregon. Detailed description of these courses is contained in a special announcement available on request to the Director of Summer Sessions or to Dr. Peter W. Frank, Director, Oregon Institute of Marine Biology, Department of Biology, University of Oregon, Eugene.

Bi 456. **Biology of Marine Organisms.** (G) 8 hours.

Designed as an introduction to marine biology for college teachers who have had no firsthand experience in this field. Enrollment restricted. Lectures, MWF. Kozloff, Castenholz, staff.

Bi 459. **Marine Ecology.** (G) 4 hours.

Study of important marine habitats; their dominant animal and plant groups; relationships between environmental and biotic factors and the communities of organisms in the sea. Prerequisite: algebra, analytical chemistry, general physics; recommended: ecology, statistics. Lectures, TuTh. Ghelardi.

Bi 461, 462. **Invertebrate Zoology.** (G) 8 hours.

Survey of representative invertebrate groups, with emphasis on marine forms; morphology, systematics, ecology, and life histories. Bi 461 and Bi 462 are separate courses, each carrying 4 credit hours and each of four weeks duration; offered in sequence. Lectures, MWF. McConnaughey.

Bi 463. **Parasitology.** (G) 4 hours.

Biological relationships between hosts and their parasites and commensals. Effects of relationships on each. Prerequisite: invertebrate zoology.

Bi 482. **Invertebrate Embryology.** (G) 4 hours.

Experiments by individual students and teams, on fertilization, cleavage, and larval stages of marine invertebrates. Prerequisite: two years of zoology or consent of instructor. Lectures, TuTh, Bacon.

Bi 401, 501. **Research.** Hours to be arranged.

Bi 403, 503. **Thesis.** Hours to be arranged.

Bi 407, 507. **Seminar.** 1 hour.

Bi 408. **Laboratory Projects.** Hours to be arranged.

Business Administration

Visiting Faculty: ANDERSON, MATHEWS, RUSSELL, SHERMAN.

Professors: BALLAINE, LINDHOLM.

Associate Professors: BEAL, ROBERT, RICHINS, SOHA.

Assistant Professors: JONES, TAYLOR.

Instructors: DIEGEL, HAMILL, MARNIX, THOMAS.

Accounting and Business Statistics

BS 232. **Business Statistics.** 5 hours.

An introductory course emphasizing the applications of statistics to business decision making. While descriptive procedures, such as the construction of charts and tables, are discussed, considerably more time is spent on the elements of statistical inference. Students participate in one two-hour laboratory session each week, supplementing the four weekly lectures. MWF. Hamill.

Ac 507. **Seminar: Business Control.** 3 hours.

June 20-July 15. Accounting and statistical techniques in the analyzing and interpreting of quantitative data for the planning and control of business operations. Budgeting, capital expenditures, taxes, financing, long-range development, cost reduction, methods improvement. Problems of establishing and maintaining integrated plans, measuring performance against approved operation plans and standards, interpreting and reporting to management the results of operations, as well as measuring and reporting on the soundness of business objectives and the effectiveness of policies and procedures employed in attempting to reach objectives. MTuWTh. Soha.

Business Education and Secretarial Science

SS 111. **Stenography: Briefhand.** 3 hours.

First four weeks, June 20-July 15. Briefhand is an easy-to-learn system for abbreviating longhand. College students find it the answer to the problem of taking lecture notes rapidly. Emphasis on skill development. Principles of and procedures for teaching Briefhand also included for participating teachers. Daily. Marnix.

SS 121. **Typing.** 2 hours.

First four weeks, June 20-July 15. Theory and practice of touch typing. Speed and accuracy development. Emphasis on personal use of typing. Ninth-grade through twelfth-grade high school students may register without credit. Students with one year of high school typing may not take SS 121 for credit. Daily. Marnix.

SS 122. **Typing.** 2 hours.

First four weeks, June 20-July 15. Principles of touch typing; emphasis on skill development with stress on speed and accuracy. Preparation of various business forms. Daily. Marnix.

SS 213. **Applied Stenography.** 2 hours.

Third and fourth weeks, July 5-15. A refresher course for the improvement of secretarial skills and procedures. Topics covered include a review of stenographic skills—typing, dictation, transcription, English usage. Special attention to individual problems of class members. Daily. Jones.

BEEd 333. **Office Organization and Management.** 2 hours.

First four weeks, June 20-July 15. The management and organization of the

office, with special attention to the scientific approach for analysis and control; functional office layout and equipment, selection, training, and supervision of office personnel; place of automation in the office; planning, organizing, and controlling office services. Daily. Jones.

BEd 508. Workshop: Current Trends and Methods in Teaching Bookkeeping and General Business. 3 hours.

June 20-July 1. Opportunity for graduate students and experienced teachers to study improved methods of teaching bookkeeping and the general business subjects. Research on individual problems. Daily. Sherman.

BEd 508. Workshop: Principles of Business Education. 3 hours.

July 5-15. Study of the growth and development of the business education program, with particular emphasis on the secondary level. Critical analysis of the major problems related to standards, organization, trends, and procedures in the various areas of specialization. Daily. Russell.

BEd 508. Workshop: Current Trends and Methods in Teaching Shorthand. 3 hours.

July 18-29. Psychological principles of skill development applied to shorthand. Problems in developing vocational shorthand proficiency. Effective teaching procedures in shorthand and transcription. Analysis of instructional materials, tests, and standards of achievement. Survey of research as it applies to the teaching of shorthand and transcription. Daily. Anderson.

Finance and Business Economics

FBE 216. Business Law. 5 hours.

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

FBE 320. Financial Institutions. 5 hours.

Concerned with the savings of society and the functions and economic significance of the important financial institutions in our economy that make funds available to consumers, businesses, and governments. Analysis of each institution and the part it plays in providing the short, intermediate, and long-term credit needs of the users of funds. The commercial banking system in relation to its function of providing the nation's money supply. Attention is also given to the nature and functions of money and credit and the inter-relationship of money, credit, and prices as they affect business decisions. Prerequisite: Ec 201, 202, 203. MWF. Mathews.

FBE 322. Business Finance. 5 hours.

Problems of the financial management of a business unit. Financial analysis and planning, including capital budgeting, the acquisition of funds, and the management of funds. The financial manager in his role of decision maker is the focus of attention. Money and capital markets, trade credit, commercial bank loans, sources of intermediate term funds, and long-term money in the form of bonds and stocks examined to discover their relative usefulness and applications. The internal day-to-day problems of maintaining an even flow and turn of assets to their best use. Prerequisite: FBE 320. MWF. Mathews.

FBE 466. Business Cycles. (G) 5 hours.

Designed to provide a basis for successful planning in a dynamic business environment. Analysis of forces that cause pervasive fluctuations in aggregate business activity. Consideration given to the effects of these fluctuations on individual business firms and industries. Study of the relationships among long-run trends and shorter cycles. Critical evaluation of forecasting techniques and policy measures. The growing impact of government decisions on the profits of a particular business and on price and income levels related to business actions such as inventory and investment policies which affect economic stability. Prerequisite: senior standing. MWF. Lindholm.

FBE 503. Thesis. Hours to be arranged.

Ballaine, Lindholm.

FBE 508. Workshop: Family Financial Security Education. 6 hours.

First four weeks, June 20-July 15. Aspects of money and banking, insurance, real estate, investments, estates, and family financing related to family financial security. Designed for elementary and secondary school teachers, principals, superintendents, curriculum directors, guidance counselors, teacher-training instructors, and other administrators. Admission by advance application. Daily. Robinson, staff.

FBE 511. Methods in Business Research. 3 hours.

Choice of research problems, development of research plans, sources of information, methods of analysis, and presentation of research findings. Project design, and detailed discussion of suggested analytical procedures and applicability of results. Substantial amount of written work. TuTh. Ballaine.

Management, Production, and Marketing

MPM 321. Organization and Interpersonal Relations. 5 hours.

Implications, for business and the businessman, of the social and political environment, within which business exists and functions in the United States. Origins and trends of public attitudes toward business; emphasis on the social responsibilities of business, and on the evolution of good managerial attitudes and policies. Required of business administration majors. MTuTh. Beal.

MPM 323. Elements of Marketing. 5 hours.

The marketing structure of business; analysis of the service functions of marketing—distribution, transportation, storage, grading, financing; problems of merchandising and internal control of the distributive function. MWF. Taylor.

MPM 329. Production Management. 5 hours.

Planning, operations, and control of mass-production manufacturing; procurement, handling, and control of materials and control of quantity and quality. Ways of setting standards and improving methods; motion and time study, automation and automatic processing equipment. Supervision of operating employees, and personnel relations as they affect production. Emphasis on principles and relationships, rather than on specific techniques. Laboratory sessions to illustrate selected methods, techniques, and management tools. MWF. Diegel.

MPM 412. Personnel Management. (G) 3 hours.

Second four weeks, July 18-August 12. Personnel management in the modern business organization; personnel policies and practices conducive to good relations with employees; personnel problems of small organizations. MTuWTh. Beal.

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

Last four weeks, July 18-August 12. Retail policies and problems. Stock-control systems, buying, methods of sales promotion, plant operation, personnel, credit, turnover, pricing, expense classification and distribution. Prerequisite: MPM 323. MTuWTh. Thomas.

MPM 503. Thesis. Hours to be arranged.

Beal, Richins, Taylor.

MPM 520. Marketing Problems and Policies. 3 hours.

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

MPM 521. Pricing Policies. 3 hours.

Development of individual company pricing policies, intra-industry pricing

policies and their competitive aspects, influence of the trade association on price determination, legislation and pricing, specific court rulings on price policies. MTuWTh. Taylor.

MPM 531. Theory of Business Organization. 3 hours.

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

Chemistry

Visiting Faculty: FERGUSON.

Ch 320. Elementary Quantitative Analysis. 5 hours.

Lectures on the fundamentals of quantitative analysis. Laboratory work devoted mainly to volumetric analysis. Intended to fit the needs of secondary teachers and others not intending to major in chemistry. Secondary teachers may enroll in Ch 429; see below. Lectures, MTuWTh; Laboratory, WThF. Ferguson.

Ch 409. Special Laboratory Problems. (G) Hours to be arranged.

Students wishing laboratory instruction not classifiable as research or thesis may enroll under this number.

Ch 429. Survey of Analytical Chemistry. (g) 5 hours.

For description see Ch 320.

Ch 439. Survey of Organic Chemistry. (g) 5 hours.

Intended for teachers of science in secondary schools. Some of the fundamental aspects of organic chemistry covered. Attention will be given to topics likely to arise in classroom discussion, such as the nature of plastics, the chemical constitution of synthetic fibers, and various natural products. Lectures, MTuWTh; Laboratory, Ferguson.

Ch 401, 501. Research. Hours to be arranged.

Ch 403, 503. Thesis. Hours to be arranged.

Ch 405, 505. Reading and Conference. Hours to be arranged.

Economics

Associate Professors: CAMPBELL, DAVIS.

Instructor: TATTERSALL.

Ec 201. Principles of Economics. 4 hours.

Economic resources and institutions; income determination and economic stabilization; money and banking; government operations. Daily. Davis.

Ec 415. Economy of the Pacific Northwest. (G) 4 hours.

Changes in and sources of personal income in the Pacific Northwest; industrial basis of the regional product; balance of payments; development of wood products. Daily. Tattersall.

Ec 450, 451. Comparative Economic Systems. (g) 2 hours each term.

An analytical comparison of capitalism and other economic systems. Daily. Davis.

Ec 471. History of Economic Thought. (G) 4 hours.

The evolution of man's ideas about economic matters; mercantilism; doctrines of the classical school; modern economic thought. Daily. Campbell.

Ec 489. American Economic History. (G) 4 hours.

Economic development of the United States since 1900. Daily. Tattersall.

Ec 501. Research. Hours to be arranged.

Campbell, Macy.

Ec 503. Thesis. Hours to be arranged.

Davis, Macy.

Ec 505. Reading and Conference. Hours to be arranged.

Campbell, Davis, Tattersall.

SSc 507. Seminar: Scope and Methods of the Social Sciences. 3-6 hours.

The background and perspectives of each of the social science disciplines—anthropology, economics, political science, psychology, and sociology. Selected aspects of social organization and processes considered in detail. Daily. Tope, Campbell, Dean, Bisno, Fosmire, Gastil.

Education

Visiting Faculty: AULD, BARTANEN, BATTLE, BRISSEY, GILLET, HALL, HALSEY, HINZE, JONES, JUIJLS, LOGSDON, MCCONNELL, ODGERS, ROGERS, SEKERAK, SIMMONS, STEWART, D. WOOD.

Professors: CASTELL, HEARN, HINES, JACOBSON, KAMBLY, ROMNEY, TOPE, H. WOOD.

Associate Professors: DEAN, GOLDHAMMER, HILL, LOWE, ROBINSON, RUMMEL, WILLARD.

Assistant Professors: BISNO, LADLEY, LALLAS, LOVELL, MATTSON, SNOW, SUTTLE, THOMPSON, WILLIAMS.

Instructors: ELICH, MARQUIS, ROSS.

General Education

Ed 310. The School in American Life. 3 hours.

Education as a career; function of education in a democracy; curriculum and organization of schools; current educational trends and contemporary problems; financing public education; the characteristics, needs, and interests of pupils by age groupings; general principles of growth and learning, and relation to current practices. MTuWTh. Suttle.

Ed 405. Reading and Conference. Hours to be arranged.

Instruction may be arranged for the eight-week session, for the first four weeks, or for the second four weeks.

Ed 407. Seminar: Human Development-Learning. 5 hours.

Intergrates the subject matter and experiences included in Ed 311 and 312. Acceptable in lieu of these two courses for purposes of certification. Assists students in developing a comprehensive set of psychological principles which provide a basis for understanding of children's behavior. Processes of growth and development, characteristics of children's behavior at various developmental levels, learning theories applicable to classroom situations, various forces effecting learning and conditions upon which learning most efficiently takes place, methods of understanding children in groups. Prerequisite: Psy 201. MTuWTh. Elich.

Ed 407. Seminar: Selected Problems in Educational Psychology and Human Development. (G) 3 hours.

Intended primarily for persons with teaching experience. Practical problems of learning, motivation, and evaluation of achievement. Prerequisite: post-baccalaureate standing. MTuWTh. Lovell.

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

Use and interpretation of informal and standardized tests for diagnosis, analysis, evaluation, and improvement of instruction in the elementary and secondary schools. Test planning, item writing, essay testing, administration, and scoring; analysis of score and grade assignment. Simple statistics of test interpretation. MTuWTh. Thompson.

Ed 435. Audio-Visual Aids. (G) 3-4 hours.

First four weeks, June 20-July 15. 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. Daily. Sekerak.

Ed 440. History of Education. (G) 3 hours.

A general review of the development of education in relation to civilization; emphasis on development of educational philosophies. MTuWTh. Snow.

Ed 441. History of American Education. (G) 3 hours.

The intellectual development of the United States, with special reference to education. Prerequisite: knowledge of American history. Daily. Castell.

Ed 446. Modern Philosophies of Education. (G) 3 hours.

An examination of educational philosophies proposed by recent leaders and critics of American educational theory and practice; Dewey, Hutchins, the progressives, etc. Daily. Castell.

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

Development of behavior and psychological activity through the prenatal period, infancy, and childhood. Development of cognition, motivation, interests, skills, and personality; integrated with the study of the growth of social behavior. The acquisition and socialized patterns of living. Influence of parental patterns and environmental conditions on personality development. MTuWTh. Littman.

Psy 461. Developmental Psychology II: Adolescence. (g) 3 hours.

Behavior changes during pre-adolescence and adolescence, in relation to physiological development and social and cultural factors. Emphasis on personal and social adjustment. MTuWTh. Fosmire.

Ed 476. School Law and Organization. (G) 2 hours.

Oregon laws applying to schools and teachers; teacher personnel policies and practices; professional organization; means for continued professional growth. MTuW.

***Lib 491. Storytelling.** 3 hours.

A study of the literature, both traditional and modern, most suitable for oral presentation to children of all ages. Instruction and practice in the techniques of the art of storytelling. MTuWTh. Ladley.

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

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. MTuWTh. Halsey.

Ed 501. Research. 1-3 hours.**Ed 501. Research: Field Studies.** 3 hours.**Ed 503. Thesis.** Hours to be arranged.**Ed 505. Reading and Conference.** Hours to be arranged.

Instruction may be arranged for the eight-week session, for the first four weeks, or for the second four weeks.

Ed 507. Seminar: Supervision of School Publications. 4 hours.

First four weeks. The teacher's role in guiding student publications in the

* Additional library courses are listed on pages 46-47.

secondary school; all phases of student newspaper and yearbook work. Daily. Gregg.

Ed 507. Seminar: Publicity and Public Relations. 4 hours.

Basic techniques and methods in publicity programs for schools and other public institutions, business and professional fields, and special-interest groups; relationship of publicity to broader concept of public relations. Special emphasis on school public relations. Daily. Wales.

Ed 508. Workshop: Family Financial Security Education. 6 hours.

First four weeks, June 20-July 15. Aspects of money and banking, insurance, real estate, investments, estates, and family financing related to family financial security. Designed for elementary and secondary school teachers, principals, superintendents, curriculum directors, guidance counselors, teacher training instructors, and other administrators. Admission by prior application. Daily. Soha, Robinson, staff.

Ed 512. Research Procedures in Education. 4 hours.

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. TuWThF. Rummel.

Ed 515. Educational Statistics. 3 hours.

Use and interpretation of elementary statistical techniques with applications in educational research. Includes use of measures of central tendency and of variability, graphic representation, large sample error theory and simple correlation analysis in the evaluation of test materials. Calculus not required. Integrated with Mth 425 and PE 540. MTuWTh. Rhoda.

Ed 529. Advanced Educational Psychology. 2 hours.

Review of selected theories in educational psychology. Particular attention to theories of learning as they relate to practical problems in classroom situations. Designed primarily for advanced students in behavioral sciences. Prerequisite: consent of instructor. MTuW. Lovell.

Ed 566. Curriculum Construction. 3-4 hours.

Survey and appraisal of curricular patterns; state and city programs; courses of study in major subject areas; techniques of course-of-study planning. Daily. H. Wood.

Ed 574. School Supervision. 3-4 hours.

Purpose and plans for supervision; use of tests, diagnosis of pupil difficulty, etc., as applied to both elementary and secondary schools. Prerequisites: Ed 311, Ed 312, or teaching experience. Daily. H. Wood.

Elementary Education

Elementary teachers interested in courses in music education, art education, physical education, and other fields will find appropriate courses in other sections of this Catalog.

Ed 353. The Child and his Curriculum: Arithmetic. 3 hours.

Arithmetic in the elementary-school program. Types of instruction, criteria for selection, placement, and organization of content. Prerequisite: Ed 311, Ed 312. MTuWTh. Starr.

Ed 354. The Child and his Curriculum: Social Studies, Science. 5 hours.

Social studies and science in the elementary-school curriculum. Ways of developing basic concepts in human relationships and community living. Emphasis on the effective use of instructional media and on related problems of method, such as effective reading in science and social studies, provision for individual differences, cultivation of critical thinking, provision for growth

and retention, and methods of evaluating results of instruction. Prerequisite: Ed 311, Ed 312. Daily. Suttle.

Ed 407. Seminar: Reading in the Elementary School. 3 hours.

Reading, reading readiness, the psychology of the reading process, reading skills in relation to other parts of the curriculum, diagnostic and remedial measures. MTuWTh. McConnell.

Lib 490. Children's Literature. 3 hours.

An introductory course, designed to give elementary-school teachers and librarians an acquaintance with children's books and their use in the curriculum. MTuWTh. Ladley.

Ed 507. Seminar: Primary Education. 3 hours.

Review of the development of children, ages 5 through 8. Program planning; group behavior; the place of the teacher; equipment, activities, books, and music for these age levels. MTuWTh. McConnell.

Ed 507. Seminar: Improving the Teaching of the Social Studies. 2 hours.

Students will work on individual problems and projects of their own choosing. Prerequisite: Ed 535; consent of instructor. Tu. Willard.

Ed 508. Workshop: Teaching Latin American Geography in the Elementary Schools. 3 hours.

Four weeks, July 18-August 11. The types of information about Latin American geography that should be presented to fifth- and sixth-grade students; how this information can be presented most effectively. MTuWTh. Martin.

Ed 534. Science in the Elementary School. 4 hours.

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

Ed 535. Social Studies in the Elementary School. 3 hours.

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

Ed 536. Language Arts in the Elementary School. 3 hours.

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

Ed 537. Reading in the Elementary School. 3 hours.

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

Ed 538. Mathematics in the Elementary School. 3 hours.

Number abilities needed by children; research findings on mathematics education; designed number experiences; theories of teaching; desirable teaching procedures; selection and use of materials. MTuWTh. Ross.

Ed 553. Elementary-School Curriculum. 3 hours.

First four weeks, June 20-July 15. A systematic study of the elementary-school curriculum; 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. MTuWTh. Sandin.

Ed 554. Elementary-School Supervision and Administration. 3 hours.

Second four weeks, July 18-Aug. 12. Intended for mature students of elemen-

WELCOME TO THE UNIVERSITY OF OREGON!

We're looking forward to having you with us this summer and hope that you will find it one of the most profitable and pleasant summers you have ever known.

While studies will be foremost on your program, an outstanding schedule of cultural and recreational activities has been planned for you.

Many of you will be visitors from other states. We hope that you particularly will seize on the many opportunities to see Oregon at its loveliest.



SUMMER TOURS

Take a trip . . .

Tours have been planned to many of Oregon's most magnificent scenic areas . . . to the desert country of the central plateau . . . to the famous Oregon coast . . . to the high Cascades with their dense forests and sparkling lakes. You may choose to sign up for any or all of the following trips:

Gold Beach: The group will stay in Gold Beach Saturday night and on Sunday take the mail boat up the Rogue River. One of Oregon's most beautiful and turbulent rivers, the Rogue flows through Oregon's most inaccessible regions. The boat trip covers about 30 miles between trackless stands of virgin timber to the community of Agnes where the group will have dinner before returning down the river to Gold Beach.

McKenzie River and Lava Beds: This is a one day trip by bus up the McKenzie River Highway to Oregon's high plateau. The chief attraction of this trip will be the lava blanket which covers thousands of acres. From the viewpoint at the top of the McKenzie pass, the tour members will see many of the major extinct volcanos of Oregon. This area is in the shadow of the majestic Three Sisters, snow-capped peaks of the Cascade range. The return trip will follow the upper McKenzie river with its series of awesomely beautiful water falls. A geologist from the University faculty will accompany this group.

The Oregon Coast: A one day trip will go to Florence on the Oregon coast and then north to Depoe Bay. With frequent stops along this route, the tour members will see what has been described as the most magnificent coast line in the world. A University geologist will explain the significance of the many natural phenomena and it should prove to be an exciting and rewarding trip.

Mount Hood and the Skyline Trail: A two day trip will visit Oregon's highest mountain and stay overnight at Timberline Lodge, high up on the side of Hood. The return trip will cover part of the famous Skyline trail and the members of this tour will see much of Oregon's most memorable scenery.

Crater Lake: Leaving Eugene early Sunday morning the tour will move over the Willamette pass with its high cascading water falls, and towering power dams. A short stop will be made while a faculty geologist explains the significance of a cinder cone at the top of the pass. After winding up the sides of an extinct volcano, Mt. Mazama, the tour members will view the wonder of Crater Lake. Lunch is served in a shelter on the crater rim after which the tour will take the rim drive around the lake. In a view-shelter suspended over the edge of the crater a park ranger will outline the forces that created this spectacular creation of nature. The bus will return to Eugene Sunday evening.

Hiking Trips: Smaller groups may be formed on request to take weekend hiking trips with experienced guides into the nearby wilderness areas. Anyone wishing to participate in such a trip should be prepared to furnish their own sleeping bag (pack type) and camping gear. Special tours can also be arranged to give visitors a chance to see large lumber mills in operation as well as logging operations in the woods.

Each of the trips mentioned above is contingent on the registration of at least 32 people for each tour.



FOR THE FAMILY

The University and the city of Eugene offer many recreational facilities for summer students and their families.

On Campus:

Tennis courts are available for your use at all times, except when they are being used for classes.

Swimming instruction is provided for both boys and girls, as well as recreation swimming for men, women, and families at designated times.

The millrace, located on the campus, is a delightful picnic spot. The recreation area in the Erb Memorial Student Union provides bowling alleys, billiards, shuffleboard, and table tennis.

Off Campus

The city of Eugene operates six supervised playgrounds and two swimming pools during the summer, in various areas throughout the city.

The Oakway Golf Course is available to the golf enthusiast.

Within easy driving distance are a number of state and county parks and picnic areas, as well as several lakes and rivers for boating, swimming, and fishing. Trout streams run through the city.

ON THE CULTURAL SIDE

Well-known lecturers will be featured during summer workshops, and the Browsing Room lecture series, always popular, will feature visiting lecturers and members of our faculty.

Concerts, music-lectures, and other musical offerings will be presented by the School of Music throughout the summer.

The University Theater has an outstanding summer of entertainment planned for you, including both main stage and arena style shows.

The Erb Memorial Student Union Art Gallery will present an exhibit of scale model horse-drawn wagons, made by Ivan Collins, designer at the University of Oregon Physical Plant. The exhibit will run throughout the summer.

The Museum of Art, open daily, houses the Gertrude Bass Warner Collection of Oriental Art. Among many treasures are a large collection of Chinese paintings by ancient masters, and an Imperial Jade Pagoda, largest of its kind, valued at \$75,000.

The Museum of Natural History houses many fascinating exhibits, featuring fluorescent minerals, masks of Northwest Coast Indians, birds of the Pacific Coast, and many others.



STRICTLY FOR FUN

The annual Terrace Dance, featuring entertainment as well as dancing, should be of interest to most summer session students.

Club Intime, a night club style review, held weekly in the Erb "Fishbowl," provides a fun evening of entertainment and dancing.

A weekly feature movie program is open to all summer students and their families free of charge.

EDUCATION

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tary education who are preparing for administrative or supervisory positions. Characteristics of good elementary schools, leadership responsibilities and processes, curriculum improvement, school organization patterns, pupil personnel policies, and school-community relationships. The topics considered are also of interest to experienced elementary school teachers. MTuWTh. Sandin.

Secondary Education

Ed 314. Principles of Secondary Teaching. 3 hours.

Study of the actual classroom teaching process, including classroom organization and management, planning teaching units, evaluating pupil learning, and similar problems. Prerequisite: Ed 310, Ed 312. MTuWTh. Kambly.

Ed 469. Reading in High School and College. (G) 3 hours.

Nature and scope of the reading program, developmental and remedial; principles, methods, and materials of instruction and administration. MTuWTh. Jones.

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

First four weeks, June 20-July 15. Origin and functions of the junior high school; characteristics and needs of the early adolescent; administration of the junior high school; curriculum and instruction; guidance; school activities; evaluation of the junior high school. MTuWTh. Juilfs.

Ed 508. Workshop: Improving Social Studies Instruction. 6 hours.

Second four weeks, July 18-August 12. Designed for elementary and secondary teachers (grades 4-12) who need help in defining what should be taught in social studies and in methods of teaching social studies. Concepts which should be developed to help students understand the cultures of the world, democracy, and our economic system; the social studies curriculum and methods of teaching social studies. There will be time for teachers to plan how to develop the concepts dealt with in the lectures at their respective grade levels and to prepare materials to use in their classrooms. Daily. Williams, Sorenson.

Ed 508. Workshop: The Student Council. 3 hours.

Post session, August 14-26. Aims and objectives of the student council; organization, group processes, council problems and projects; evaluation of the council's program. Designed especially for the student council advisers; open to others on consent of instructors. Daily. Hearn, D. Wood, staff.

Ed 522. Secondary-School Curriculum. 4 hours.

First four weeks, June 20-July 15. A survey of the secondary-school curriculum; trends and outstanding practices in organization, content, methodology, materials, and evaluation. Problem approach to specific subject areas. Daily. Hearn.

Ed 523. School Activities. 4 hours.

Second four weeks, July 18-August 12. 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. Daily. D. Wood.

Ed 527. Secondary-School Administration and Supervision. 4 hours.

Second four weeks, July 18-August 12. The secondary-school principalship; principles of administration, staff relationship, public relations, and professional growth; business administration, administration of guidance services, curriculum and school activities; evaluation of the secondary school. Daily. Hearn.

Ed 593. Methods in Secondary-School Language Arts. 3-4 hours.

Designed for administrative and supervisory personnel as well as for classroom teachers. Provides an opportunity for students to become familiar with research concerning each problem, as well as to witness and participate in

actual demonstrations in the teaching of literature, grammar, and composition. Prerequisite: teaching experience or consent of instructor. Daily. Jones.

Ed 594. Methods in Secondary-School Mathematics. 3-4 hours.

First four weeks, June 20-July 15. Emphasis on the development of proficiency in the use of the problem-solving approach to teaching topics in arithmetic, algebra, geometry, and advanced high-school mathematics. Strengths, inadequacies, and needed revisions in the present-day mathematics curriculum. Prerequisite: teaching experience or consent of instructor. Daily. Hall.

Ed 595. Methods in Secondary-School Science. 3-4 hours.

Selection of materials; demonstrations, use and care of meters, microscopes; science test construction; devices for instructional use. Prerequisite: teaching experience or consent of instructor. Daily. Bartanen.

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

Second four weeks, July 18-August 12. Emphasis on social studies objectives, the unit method of teaching, social studies materials, and methods of evaluation. There will be opportunity for teachers to prepare materials to use in their classroom. Open to experienced junior and senior high school teachers. Daily. Williams.

Counseling and Testing

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

The need for guidance services in the schools; tests, inventories, questionnaires, and records; the role of the home and the community in guidance; counseling the individual student. MTuWTh. Stewart.

Ed 488. Educational and Vocational Guidance. (G) 3 hours.

Designed primarily for students preparing for positions as counselors. A study of current materials and trends in educational and vocational guidance. Prerequisite: Ed 424, Ed 485. MTuWTh. Stewart.

Ed 507. Seminar: Adlerian Theory. 2 hours.

An historical consideration of the contributions of Alfred Adler to the behavioral sciences; emphasis on the application of Adler's principles to current practices in community mental health. Prerequisites: Ed 463 and advanced graduate standing in the behavioral sciences. MTuW. Mattson.

Ed 508. Workshop: Practicum in Employment Counseling. 6 hours.

First four weeks, June 20-July 15. An advanced workshop for employment service counselors. Intensive experience in counseling, including supervised counseling experiences, case writing, staffing of cases, and observation. Open only to employment service counselors. Daily. Battle, Lowe.

Ed 508. Workshop: Practicum in High School Counseling. 4 hours.

Designed for graduate students seeking to develop skills in counseling at the junior and senior high-school level. Observation, staffing of cases, counseling, and case writing. Counseling sessions are conducted in the University Counseling Center. Prerequisite: consent of instructor. Daily. Lallas, Lowe.

Ed 508. Workshop: Practicum in Rehabilitation Counseling. 3-12 hours.

Four different levels of practical experience offered in rehabilitation counseling, depending on the trainee's background and experience. The practicums provide instruction and supervised practice either at the University Counseling Center or in community agencies engaged in providing rehabilitation services to the disabled. Prerequisite: consent of instructor. Daily. Thompson.

Ed 526. High School Counseling. 3 hours.

The purposes, techniques, and processes of counseling; dynamics of adjustment and personality change. Methods of promoting emotional, educational, and occupational adjustment. Prerequisite: Ed 485. MTuWTh. Lallas.

Ed 528. Testing in Schools and Colleges. 3 hours.

An intensive study of the purposes, uses, administration, scoring, and interpretation of group tests commonly used in public schools and colleges. Testing in the areas of achievement, aptitudes, interests, and personality. Designed primarily for advanced students in educational psychology, human development, psychometrics, and counseling. Prerequisite: Ed 424. MTuW. Stewart.

Special Education

Ed 407. Seminar: Teaching the Mentally Retarded. (G) 3 hours.

Organization and administration of the educational program for the mentally retarded; nature and scope of the curriculum; methods and materials of instruction. Prerequisite: consent of instructor. Daily. Rogers.

Ed 407. Seminar: Arts and Crafts for the Mentally Retarded. (G) 3 hours.

Laboratory use of simple art materials consistent with the developmental stages of the mentally retarded child. Current literature and practice. Prerequisite: consent of instructor; teaching experience required for graduate credit. MTuWTh. Ballinger.

Ed 407. Seminar: Corrective Reading. (G) 4 hours.

Designed for classroom teachers who seek to improve their reading program through a knowledge of corrective and remedial techniques. Students pursuing programs as specialists in reading may not enroll in this course. Prerequisite: consent of instructor. Daily. Gillett.

Ed 407. Seminar: Behavior Problems and Semantics. (G) 4 hours.

Second four weeks, July 18-August 12. Intended primarily for classroom teachers and school administrators. Consideration of general semantics as it relates to the understanding of human behavior. Open to seniors and graduate students in the behavioral sciences. Daily. Brissey.

Ed 409. Psycho-Education Clinic. (G) 1-6 hours.

Supervised clinical practice in diagnosis and remediation of children with learning disability in reading and other basic skills. Prerequisite: Ed 465 and consent of instructor. Staff meetings, Monday; practicum hours to be arranged. Hill.

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

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

Ed 463. The Maladjusted Child. (G) 4 hours.

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

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

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

Ed 465. Diagnostic and Remedial Techniques. (G) 3 hours.

Diagnostic, corrective, and remedial techniques with particular application to reading disability. MTuWTh. Hill.

Ed 466. The Gifted Child. (G) 3 hours.

Definition and identification of the gifted, characteristics and problems of the gifted, special educational and environmental requirements of the gifted, philosophical considerations of the relations between the gifted and society. MTuWTh. Lovell.

Ed 480. Psychology of Reading Instruction. (G) 3 hours.

The fundamental nature of the reading process; principles of growth, adjust-

ment, and learning basic to reading achievement; psychological foundations of methods of reading instruction. MTuWTh. Jones.

Ed 507. Seminar: Special Problems in Rehabilitation. 1 hour.

Problems of special interest in the rehabilitation of the disabled. Areas such as rehabilitation of the aged, the mentally retarded, and psychiatric hospital patients discussed, as well as problems of ethics, salaries, jobs, etc. Prerequisite: consent of instructor. Thompson, Schoggen.

Ed 507. Seminar: Psychology of Reading. 2-4 hours.

Significant research and literature relating to the reading process, the reader, and the pertinent aspects of reading instruction. Prerequisite: consent of instructor. Tu, hours to be arranged. Hill.

Ed 507. Seminar: Juvenile Delinquency. 2 hours.

July 11-15. Designed for graduate students interested in juvenile correction. Daily lecture and workshop sessions present an interdisciplinary, behavioral-science approach to the problem of delinquency prevention and control. Distinguished judges and behavioral scientists featured. Prerequisite: consent of instructor. For additional information see page 58. Daily. Buehler, staff.

Ed 508. Workshop: Supervision of Remedial Instruction. 1-3 hours.

Direction and supervision of clinical practices. Prerequisite: consent of instructor. Hill.

Ed 508. Workshop: Problems in Teaching Mentally Retarded. 4 hours.

First four weeks, June 20-July 15. An intensive study of problems of teaching mentally retarded children. Prerequisite: basic course in mental retardation, consent of instructor. Daily. Rogers.

Ed 508. Workshop: Corrective Reading. 4 hours.

Opportunities for classroom teachers seeking to improve their reading programs through practical experience with children. Not open for students working toward advanced degrees in the field of reading. Prerequisite: consent of instructor. Daily. Gillett.

Ed 508. Workshop: Instructing the Able and Gifted. 6 hours.

First four weeks, June 20-July 15. The development of materials for instruction of teaching the able and gifted. Student selection based upon applications received and approved by the State Department of Education. Fees, room, and board paid by State Department. Applications should be requested from the Instructional Services Section, State Department of Education, State Office Building, Salem, Oregon. Daily. Hinze.

Ed 508. Workshop: The Mentally Retarded. 3 hours.

Observation and teaching of a class for the mentally retarded in the elementary school, under supervision of a demonstration teacher. Normally taken concurrently with Seminar: Teaching the Mentally Retarded (Ed 407), Seminar: Arts and Crafts for the Mentally Retarded (Ed 407), and The Mentally Retarded Child (Ed 464). Essential to the Oregon program of certification. Prerequisite: consent of instructor. Daily. Simmons.

Educational Administration

SSc 507. Seminar: Nature and Problems of Administrative Behavior. 3-6 hours.

For advanced graduate students who are at or past the master's level. Draws from the literature in the related fields of business administration, economics, social psychology, sociology, and political science. Particular emphasis on fundamental research underlying human behavior as a basis for the theory and practice of administrative behavior. MTuWTh. Jacobson, Goldhammer, Marquis.

SSc 507. Seminar: Scope and Methods of the Social Sciences. 3-6 hours.

The background and perspectives of each of the social-science disciplines—

anthropology, economics, political science, psychology, and sociology. Selected aspects of social organization and process considered in detail Daily. Tope, Campbell, Dean, Bisno, Fosmire, Gastil.

Ed 507. Seminar: School Personnel Policies and Procedures. 3 hours.

The theory and practice of school personnel administration Development of principles and procedures in areas of recruitment, selection, terms of employment, assignments, orientation, in-service education, appraisal, promotion, salary programs, tenure, leaves, separation, public relations, and professional ethics. MTuWTh. Dils.

Ed 507. Seminar: Selected Problems in School Administration. 3-6 hours.

July 18-29. Recent studies in the field of leadership, special problems of personnel administration, curriculum improvement, superintendent-school board relations. Program will be oriented toward the problems administrators bring to the class. Daily. Logsdon.

Ed 507. Seminar: Decision Making in Education. 3-6 hours.

The development of a theoretical approach to the study of decision making in school systems in communities of diverse size, location, and economic characteristics. Emphasis on comparable data derived from several community studies during the past eight years. MTuWTh. Agger, Tope, Swanson.

Ed 508. Workshop: The School Administrator and the Guidance Program. 3 hours.

First two weeks, June 20-July 1. Enrollment open to school principals, supervisors, and superintendents only. The principles and functions of a guidance program; developing, staffing, and evaluating guidance services at all levels in the public schools. Daily. Odgers.

Ed 572. Public School Administration. 3-4 hours.

Relations of the principal to the school board, school finance, school records and accounts, school building programs, pupil accounting, the teaching staff. Prerequisite: teaching experience or consent of instructor. Daily. Romney.

Ed 573. Public School Organization. 3-4 hours.

Organization in both grade and high schools; emphasis on the small system. Prerequisite: teaching experience or consent of instructor. Daily. Hines.

Ed 575. School Finance. 3-4 hours.

The problems of school finance and business management; sources of school income; relationship to the state financial structure; budgeting and accounting; construction of a school budget. Daily. Romney.

Ed 576. School Buildings. 3-4 hours.

Study of problems in planning, construction, maintaining, and operating school buildings. The basic course in school buildings, intended for persons who have not had much experience in building problems. Daily. Hines.

English

Visiting Faculty: LYTLE.

Professors: McCLOSKEY, SVENDSEN.

Associate Professors: HALL, SHERWOOD.

Assistant Professors: GREENFIELD, KRAUS, OSWALD.

Instructors: CANDELARIA, JACKSON, NOLTE.

Wr 111. English Composition (First Term). 3 hours.

Fundamentals of English composition. TuWThF. Nolte.

Wr 111. English Composition (First Term). 3 hours.

Fundamentals of English composition. TuWThF. Jackson.

- Wr 112. **English Composition (Second Term)**. 3 hours.
Continuation of Wr 111. TuWThF. Jackson.
- Wr 113. **English Composition (Third Term)**. 3 hours.
Continuation of Wr 112. TuWThF. Jackson.
- Wr 451. **Projects in Writing**. (g) 3 hours.
For students who desire advanced instruction and practice in imaginative writing. TuWThF. Hall.
- Eng 101. **Survey of English Literature (First Term)**. 3 hours.
Anglo-Saxon beginnings to the Renaissance. TuWThF. Greenfield.
- Eng 104. **Appreciation of Literature (First Term)**. 3 hours.
Study of literature and of the nature of literary experience through the reading of great works of prose and poetry, drawn from English and other literatures. TuWThF. Candelaria.
- Eng 201. **Shakespeare (First Term)**. 3 hours.
TuWThF. Svendsen.
- Eng 394. **Twentieth-Century Literature (First Term)**. 3 hours.
TuWThF. Nolte.
- Eng 403. **Thesis for Honors Candidates**. Hours to be arranged.
- Eng 405. **Reading and Conference**. Hours to be arranged.
- Eng 407. **Seminar: Shakespeare**. (G) 3 hours.
- Eng 428. **Chaucer**. (G) 3 hours.
As much of Chaucer's work read as time permits. Required for graduate students in English. TuWThF. Greenfield.
- Eng 438. **Contemporary Novel**. (G) 1-2 hours.
For description see page 59.
- Eng 450. **Eighteenth-Century Literature (First Term)**. (G) 3 hours.
The prose and poetry of the century studied in relation to the social, political, and aesthetic ideas which gave the period its peculiar character. TuWThF. Candelaria.
- Eng 475. **Literary Foundations of American Life (First Term)**. (G) 3 hours.
Authors whose writings have largely given shape to American thought. Two consecutive terms satisfy the high-school teaching-field requirement. TuWThF. McCloskey.
- Eng 501. **Research**. Hours to be arranged.
- Eng 503. **Thesis**. Hours to be arranged.
- Eng 505. **Reading and Conference**. Hours to be arranged.
- Eng 507. **Seminar: English Literature**. Hours to be arranged.
Svendsen.
- Eng 507. **Seminar: American Literature**. Hours to be arranged.
Critical approaches to William Faulkner; an examination of attitudes and methods. McCloskey.
- Eng 507. **Seminar: Contemporary Poetry**. Hours to be arranged.
Hall.
- Eng 508. **Workshop: Critical Thinking**. 3 hours.
July 5 to July 17. The following topics will be covered: (1) logic; (2) semantics; (3) expository prose—models and student themes. Part of the time will be devoted to the preparation of teaching materials. Daily. Oswald, Sherwood, Kraus, guest lecturers.

Foreign Languages

Visiting Faculty: ESPINOSA.

Professor: JOHNSON.

Assistant Professors: LEPPMANN, STEUSSY, MARSHALL.

Instructor: SMITH.

French

*RL 51, 52. **First-Year French**. 4 hours each term.

An introduction to the language, stressing reading, comprehension of the spoken tongue, and the basic principles of French grammar. Equivalent of the first two terms of First-Year French given during the regular academic year. Both terms taught concurrently in a two-hour period. Daily. Marshall.

RL 405, 505. **Reading and Conference**. Hours to be arranged.
An introduction to the principal French painters and their works to illustrate the progress of French culture. Johnson.

RL 503. **Thesis**. Hours to be arranged.

German

*GL 51, 52. **First-Year German**. 4 hours each term.

The fundamentals of grammar, oral drill, translation of prose selections. Equivalent of the first two terms of First-Year German given during the regular academic year. Recommended for students who wish to acquire a reading knowledge. Both terms taught in a two-hour period. Daily. Leppmann.

GL 320. **Scientific German**. 3 hours.

Intensive practice in the reading of scientific texts of increasing difficulty. Prerequisite: consent of instructor. Leppmann.

GL 503. **Thesis**. Hours to be arranged.

Russian

*SL 50, 51. **First-Year Russian**. 4 hours each term.

The elements of the Russian language. Elementary reading, composition and conversation. Both terms taught concurrently in a two-hour period. Daily. Steussy.

SL 314. **Russian Composition and Conversation**. 2 hours.

Exercises in pronunciation, comprehension, and composition; ample opportunity for conversation. Prerequisite: consent of instructor. MWF. Steussy.

Spanish

*RL 51, 52. **First-Year Spanish**. 4 hours each term.

An introduction to Spanish, stressing speaking and reading. Exercises in elementary composition. Equivalent of the first two terms of First-Year Spanish given during the regular academic year. Both terms taught concurrently in a two-hour period. Daily. Smith.

RL 407. **Seminar: Latin-American Culture and Civilization**. (g) 3 hours.

June 20-July 15. A survey of Latin-American culture, both historical and con-

* Students who complete RL 51, 52, RL 61, 62, GL 51, 52 or SL 50, 51 with a grade of A or B may enter Second-Year French, Spanish, German or Russian in the fall term.

temporary, including literature, folklore, art, and music. Part of World Affairs Program; see pages 57-58. TuTh. Espinosa, staff.

RL 461. **Advanced Spanish Composition and Conversation.** 2 hours.

Extensive oral and written practice. Conducted in Spanish. Prerequisite: consent of instructor. MWF. Espinosa.

RL 503. **Thesis.** Hours to be arranged.

RL 508. **Spanish Seminar.** 3 hours.

The Hispanic essay and short story. MW. Espinosa.

Geography

Professor: DICKEN.

Assistant Professor: MARTIN.

Geog 105. **Introductory Geography.** 3 hours.

A general introduction to the elements of geography. TuWThF. Dicken.

Geog 106. **Introductory Geography.** 3 hours.

A general introduction to economic geography. MTuWTh. Martin.

Geog 301. **Geography of North America.** 3 hours.

A study of the land forms, climate, population, resources, products and people of the Pacific Northwest, with emphasis on Oregon. TuWThF. Dicken.

SSc 407, 507. **Seminar: Major Problems of Latin America.** 3 hours.

June 20-July 15. Development of society in Latin America, with focus on contemporary problems relating to economic and social changes. Part of World Affairs Program; see pages 57-58. MW. Martin, staff.

Geog 422. **Field Geography.** 3 hours.

Methods and techniques of geographic field investigation. Prerequisite: Geog 421 or equivalent; consent of instructor. Martin.

Geog 503. **Thesis.** Hours to be arranged.

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

Ed 508. **Workshop: Teaching Latin American Geography in the Elementary Schools.** 3 hours.

Four weeks, July 18-August 11. The types of information about Latin American geography that should be presented to fifth- and sixth-grade students; how this information can be presented most effectively. MTuWTh. Martin.

Geology

Professors: STAPLES, YOUNQUIST.

Associate Professor: STOVALL.

Geol 102. **General Geology.** 4 hours.

Materials of the earth's crust, geologic time, igneous geology, and the work of running water. Lectures, laboratory, and field trips. MTuWTh. Geol 101 not prerequisite. Stovall.

Geol 291. **Rocks and Minerals.** 3 hours.

Common minerals and rocks; origin, lore, and properties of precious, semi-

precious, and ornamental stones; economically important rocks and minerals. Lectures and laboratory. MTuWTh. Stovall.

Geol 301. **Geologic History of Life.** 3 hours.

Origins and early history of life, as revealed by the fossil remains of animals and plants, with special reference to the Northwest. MTuWTh. Stovall.

Geol 406. **Field Geology.** 9 hours.

Geological field work in selected parts of Oregon. Prerequisite: Geol 313, Geol 393, and consent of instructor. Staples.

Geol 501. **Research.** Hours to be arranged.

Geol 503. **Thesis.** Hours to be arranged.

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

Geol 506. **Advanced Field Geology.** 9 hours.

Geologic field work chiefly in connection with graduate theses. Emphasis on individual problems. Prerequisite: graduate standing, consent of instructor. Youngquist.

Health and Physical Education

Visiting Faculty: BURKE, LIPPENCOTT, SLIEPCEVICH, WEIDMAN.

Professors: DOUGHERTY, ESSLINGER, HAAR, MOORHEAD, POLEY, SPRAGUE, SIGER-SETH, WOODRUFF.

Associate Professors: PUCKETT, RHODA.

Assistant Professors: BRUMBACH, GAZETTE.

Instructors: OLSON, WILEY.

Workshops

PE 408. **Workshop: Physical Education Activities.** 1-8 hours.

June 20-July 8. Designed for secondary school teachers and college personnel. Directed toward the improvement of teaching, with special emphasis upon participation, skill improvement and proficiency; concentrated work in methods of teaching and development of teaching materials. Areas for participation and study:

International and American Folk Dance: 2 hours. Open to both men and women. Beginning and advanced materials. Dance analyses and methods of instruction, adapted to the needs of students. Daily, 8:00-10:00. Dougherty.

Tumbling, Trampoline: 1-2 hours. For women. Elementary and advanced performance techniques. Daily, 8:30-10:00. Gazette.

Team Sports, Apparatus: 1-2 hours. For women. Skills, rules and team play for field hockey and volleyball. Elementary teaching materials in apparatus. Daily, 10:15-12:00. Woodruff.

Contemporary Dance: 1-3 hours. Open to both men and women. Analysis and application of movement into materials and methods suitable for teachers and students of the dance. The second week of the workshop (June 27-July 1, 7:00-9:00 p.m.) will be conducted by Charles Weidman, noted dancer, choreographer, and teacher. Double class sessions will be held during this week. Students may enroll for the June 27-July 1 week for 1 hour credit, any two sequential weeks for 2 hours of credit, or all three weeks for 3 hours of credit. Daily, 10:00-12:00. Weidman.

Individual and Dual Sports: 1-4 hours. For women. Tennis, badminton, archery. Tactics in game play, instructional materials. Daily, 1:15-4:00. Gazette, Puckett.

HE 508. Workshop: Elementary School Health Education. 3 hours.

June 13-18. A workshop designed to assist elementary school teachers with their health-instruction responsibilities. Emphasis on teaching materials and the methodology to implement them. Daily. Moorhead.

Coaching Clinic**PE 406. Coaching Clinic.** 2 hours.

June 13-17. Special problems of coaching football, basketball, baseball, track and field, wrestling, and injury care. Designed especially to meet the needs of high-school coaches.

Football Coaching.....	8:30-11:45 a.m. MTuW. Elliot.
	1:15- 3:30 p.m. MTu
Basketball Coaching.....	8:30-11:45 a.m. ThF. Osborn.
	1:15- 3:30 p.m. WThF
Track Coaching.....	3:30- 4:30 p.m. MTuWTh. Bowerman, Newland.
	7:00- 9:00 p.m. M
Baseball Coaching.....	3:30- 4:30 p.m. MTuWTh
	7:00- 9:00 p.m. Tu
Wrestling.....	4:30- 6:00 p.m. MTuWTh. Beck.
Care and Prevention of Injuries.....	7:00- 9:00 p.m. WTh

Physical Education (Professional Courses)**PE 222. Dance for the Elementary School.** 2 hours.

First four weeks, June 20-July 15. Rhythmic fundamentals, skills, and dances for children of grades 1 through 6. Special emphasis on teaching methods. Daily. Dougherty.

PE 406. Special Problems. Hours to be arranged.

Individual study of special problems assigned by the adviser and approved by the dean of the school.

PE 406. Workshop: Gymnastics and Tumbling. 2 hours.

For both men and women. Instruction in apparatus and tumbling skills, with emphasis on the methods, materials, nomenclature, and criteria for selection of skills in these activities to fit the various grade levels of instruction. MTu-WTh. Sprague.

PE 420. Physical Education in the Elementary School. (g) 3 hours.

An analysis and interpretive study of the objectives, standards, methods, and activities of the elementary-school physical-education program. TuWThF. Burke.

PE 438. Contemporary Dance. (G) 1-2 hours.

For description see page 59.

PE 501. Research. Hours to be arranged.**PE 503. Thesis.** Hours to be arranged.**PE 505. Reading and Conference.** Hours to be arranged.**PE 506. Special Problems.** Hours to be arranged.**PE 506. Special Problems: Athletic Injuries.** 3 hours.

The prevention and avoidance of injury. Analysis of types of injuries, their care and treatment; taping, bandaging, massage, etc. Use of mechanical aids in preventing and care of injuries, emergency procedures, conditioning against injury. Prerequisite: consent of instructor. MTuWTh. Sigerseth.

PE 507. Seminar: Leadership Organization of Physical Education. 3 hours.

Available research bearing on teaching methodology and leadership organization reviewed. TuWThF. Brumbach.

PE 515. History and Theories of Physical Education. 3 hours.

The history of physical education from the Greeks to modern times; special emphasis on modern developments. TuWThF. Washke.

PE 516. Intramural Organization and Management. 3 hours.

Nature and purposes of intramural programs; history of their development, departmental organization, relationship of the program to physical-education instruction, administrative problems of policy, supervision, and direction; scope of the program, finances, assignment of responsibilities. MTuWTh. Washke.

PE 517. Methods of Research. 3 hours.

Methods and techniques of research in health, physical education, and recreation; practice in relation to problems of current interest. MTuWTh. Rhoda.

PE 521. Corrective Physical Education Studies. 3 hours.

Study of the common deviations of posture and feet; causes, methods of referral when advisable, and basic principles underlying the prescriptions of exercises for those conditions which may be handled safely by the physical education teacher. TuWThF. Poley.

PE 533. Techniques of Relaxation. 3 hours.

The common causes of fatigue and neuromuscular hypertension; methods of combating them. Theories underlying techniques of relaxation; application of these techniques in daily living. MTuWTh. Poley.

PE 540. Statistical Methods in Physical Education. 3 hours.

The use of norms, comparable scores, rating scales, and multiple regression as tools of research and interpretation of physical growth, physical status, and physical performance data. Prerequisite: elementary statistics. MTuWTh. Rhoda.

PE 550. Current Movements in Physical Education. 3 hours.

The different schools of thought and practice which determine the purposes and procedures in the professional field of physical education. Analysis of the Oregon and other regional public school programs. TuWThF. Washke.

PE 551. Administration of Physical Education. 3 hours.

Organization and administration of physical education programs at the college level. Emphasis on methods of administration. TuWThF. Esslinger.

PE 558. Curriculum in Physical Education. 3 hours.

Basic elements and procedures of program construction in physical education. An advanced course for supervisors and administrators of physical-education programs. Special applications at city, county, and state levels. Students may develop programs for their own situations. TuWThF. Sprague.

PE 575. Mechanical Analysis of Motor Skills. 4 hours.

Application of the laws of mechanics to the analysis of techniques of the major and minor sports, gymnastics, and swimming and diving. MW. Sigerseth.

Physical Education (Service Courses)**PE 180, 190, 380, 390. Tennis.** 1 hour.

For men and women. MTuWTh. Brumbach.

PE 180, 190, 380, 390. Golf. 1 hour.

For men and women, MW or TuTh. Olson.

PE 190, or 390. Swimming. 1 hour.

For men. MTuWTh. Wiley.

Health Education (Professional Courses)**HE 406. Special Problems.** Hours to be arranged.

Individual study of special problems, assigned by the adviser and approved by the dean of the school.

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

The purposes and requirements of the school health service program, with emphasis on organization and procedures for the school health examination. Organization and presentation of teaching materials based on the health needs of the child, community needs, and school health services. MTuWTh. Sliepecevic.

HE 464. Health Instruction. (G) 3 hours.

Methods and materials in health instruction for junior and senior high schools; emphasis on the preparation and construction of health teaching units. Prerequisite: HE 361, 362, 363 or consent of instructor. TuWThF. Sliepecevic.

HE 465. School Health Services. (G) 3 hours.

Purposes and procedures of health service in the schools; control of common communicable diseases; technique of pupil health appraisal by the teacher. Prerequisites: HE 361, 362, 363 or consent of instructor. TuWThF. Haar.

HE 467. Driver Education and Training. 3 hours.

Designed to prepare teachers to conduct driver-education courses in the secondary schools. Use of teaching devices, development of instructional units, behind-the-wheel instruction. MTuWTh. Brumbach.

HE 501. Research. Hours to be arranged.**HE 503. Thesis.** Hours to be arranged.**HE 505. Reading and Conference.** Hours to be arranged.**HE 506. Special Problems.** Hours to be arranged.**HE 506. Special Problems: Traffic Safety.** 3 hours.

Organization and administration of driver education, personal psychological problems of driving, traffic enforcement, engineering, safety teaching materials, and methods of instruction in driver education. Prerequisite: secondary-school teaching credential and basic driver-education courses. MTuWTh. Haar.

HE 542. Basic Issues in Health Education. 3 hours.

Current basic issues and problems in health education; economic and social forces affecting health education; implications for programs of health education. Prerequisites: HE 464, 465 or consent of instructor. TuWThF. Haar.

History

Visiting Faculty: CARBONE, GRIFFIN, JOHANNSEN, ROSE, THOMPSON.

Associate Professors: SMITH, SORENSON.

Assistant Professors: PIERSON, SNOW.

Hst 101. History of Western Civilization. 4 hours.

Origin and development of Western civilization—ancient and mediaeval periods. First term of a year sequence. Daily. Pierson.

Hst 201. History of the United States. 4 hours.

The thirteen colonies, the American Revolution, and the early national period, to about 1840. First term of a year sequence. Daily. Thompson.

Hst 202. History of the United States. 4 hours.

1840-1898. Second term of a year sequence. Daily. Johannsen.

Hst 419. Studies in Western Civilization. (g) 4 hours.

Selected studies in the history of Western Civilization in the nineteenth and twentieth centuries, with special emphasis on the rise of democracy, nationalism, imperialism, socialism, background of wars, attempts at international

cooperation, the breakdown of colonial empires. Attention to biographies and other readings particularly useful to teachers. Daily. Smith.

Ed 440. History of Education. (G) 3 hours.

A general review of the development of education in relation to civilization; emphasis on development of educational philosophies. MTuWTh. Snow.

Hst 445. Europe since 1939. (G) 4 hours.

Origins and course of World War II; postwar developments in the European states. Daily. Pierson.

Hst 449. History of Russia. (G) 4 hours.

Modern and revolutionary Russia, since about 1861. Daily. Carbone.

Hst 450. Modern Italy. (G) 4 hours.

Nineteenth and twentieth centuries: monarchy, Fascist dictatorship, and republic. Daily. Carbone.

Hst 453. Modern Latin America. (G) 3 hours.

Second four weeks, July 18-August 12. An analysis of distinctive features of the area and of its relations to the rest of the world. Special attention to the historical background of contemporary problems. Daily. Griffin.

Hst 467. Modern India. (g) 2 hours.

First four weeks, June 20-July 14. Development of Indian political institutions under British rule from 1857 through independence and partition in 1947. Daily. Rose.

Hst 478. History of the Pacific Northwest. (G) 4 hours.

Not open to students who have taken Hst 377. Study of the building of civilization in the Pacific Northwest. Daily. Johannsen.

Hst 479. Forces and Influences in American History. (G) 4 hours.

Discussion of new interpretations of various periods in American history from colonial days to the present. Daily. Thompson.

Hst 489. American Economic History. (G) 4 hours.

Economic development of the United States since 1900. Daily. Tattersall.

Hst 501. Research. Hours to be arranged.**Hst 503. Thesis.** Hours to be arranged.**Hst 505. Reading and Conference.** Hours to be arranged.**Hst 505. Reading and Conference: Problems in European History.** 2-4 hours.

Designed for secondary-school teachers. Problems of industrialization, liberal reform, and imperialism in Western civilization during the nineteenth and twentieth centuries. Readings, discussions, and reports. 4 or 8 weeks. Smith.

Hst 505. Reading and Conference: Early American History. 2-4 hours.

Thompson.

Hst 505. Reading and Conference: Early Modern Europe. 2-4 hours.

Snow.

Hst 505. Reading and Conference: U.S.-Latin American Relations. 2 hours.

Second four weeks, July 18-August 12. Directed readings in aspects of the foreign relations of the United States and Latin America. Griffin.

Hst 507. Seminar: Recent European History. 3 hours.

Pierson.

Hst 507. Seminar: Pre-Civil War Period in the United States. 3 hours.

Johannsen.

Hst 520. Historical Method. 3 hours.

Introduction to the method of research and writing in history. Carbone.

Journalism

Visiting Faculty: GREGG.

Professor: PRICE.

Associate Professor: WALES.

Assistant Professor: WEBB.

Instructor: MONAGHAN.

J 341. Principles of Advertising. 4 hours.

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

J 361. Reporting. 4 hours.

Basic training in news gathering and writing. Daily. Price.

J 405. Reading and Conference. 1-3 hours.

J 438. Contemporary Cartoon. (g) 1-2 hours.

For description see page 59.

J 455. Supervision of School Publications. (g) 4 hours.

First four weeks, June 20-July 15. The teacher's role in guiding student publications in the secondary school; all phases of student newspaper and yearbook work. Daily. Gregg.

J 457. The Press and Related Media. (g) 4 hours.

Analysis of the role of the press and related media (magazines, radio, and television) in a democratic society. Daily. Price.

J 459. Publicity and Public Relations. (g) 4 hours.

Basic techniques and methods in publicity programs for schools and other public institutions, business and professional fields, and special-interest groups; relationship of publicity to broader concept of public relations; special emphasis on school public relations. Daily. Wales.

J 501. Research in Journalism. 1-3 hours.

J 505. Reading and Conference. 1-3 hours.

Library

Visiting Faculty: E. MORRISON.

Professor: HINTZ.

Associate Professors: FINDLY, P. MORRISON.

Assistant Professor: LADLEY.

Library classes will meet for two-hour sessions, Monday through Thursday. All courses are organized on a four-week basis, with work scheduled for both the first and the second weeks of the summer session. Two courses, totaling 6 term hours of credit, constitute a full student load for either of the four-week periods.

Lib 381. Elementary Bibliography and Reference Materials. 3 hours.

First four weeks, June 20-July 15. Study of reference materials and services, and of correct bibliographical form; practical problems in the use of reference books in school libraries. MTuWTh. E. Morrison.

Lib 484. School Library Administration. (g) 3 hours.

Second four weeks, July 18-August 12. Planned for school administrators as

well as librarians. Particular emphasis on the place of the library in the instructional program. Problems of support and control; housing equipment; standards; evaluation; objectives. MTuWTh. E. Morrison.

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

Second four weeks, July 18-August 12. Continuation of Lib 381, with emphasis on reference books in the various subject fields; practical experience in bibliography making. Prerequisite: Lib 381 or consent of instructor. MTuWTh. Findly.

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

Second four weeks, July 18-August 12. Principles and methods of classification and cataloging of books and related materials. Attention to the more difficult problems in the cataloging and recording of material. Prerequisite: Lib 386 or consent of instructor. MTuWTh. E. Morrison.

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

First four weeks, June 20-July 15. The selection and evaluation of books and other materials for the junior and senior high-school library; a study of adolescent reading interests and the library's role in reading guidance. MTuWTh. Ladley.

Lib 490. Children's Literature. (g) 3 hours.

Second four weeks, July 18-August 12. An introductory course, designed to give elementary-school teachers and librarians an acquaintance with children's books and their use in the curriculum. MTuWTh. Ladley.

Lib 491. Storytelling. (G) 3 hours.

First four weeks, June 20-July 15. Study of literature, both traditional and modern, suitable for oral presentation to children of all ages. Instruction and practice in the techniques of the art of storytelling. MTuWTh. Ladley.

Lib 495. Literature of the Social Sciences. (G) 3 hours.

Second four weeks, July 18-August 12. Survey of library materials in the social sciences; criteria for evaluation and selection. MTuWTh. P. Morrison.

Lib 505. Reading and Conference. Hours to be arranged.

Lib 511. History of the Book. 3 hours.

First four weeks, June 20-July 15. History of the written and printed book, beginning with the development of graphic communication in prehistoric times and concluding with a survey of modern publishing. Hintz.

Mathematics

Visiting Faculty: DIVINSKY, JENNINGS.

Professors: MOURSUND, NIVEN.

Associate Professors: GHENT, WARD.

Instructor: MASON.

Upper-division and graduate courses offered by the Department of Mathematics during the summer session differ from those offered during the regular session. Usually, however, the needs of all students can be met. Regular-session students should consult the head of the department before planning their programs.

Candidates for the M.A., M.S., and Ph.D. degrees may obtain detailed information on requirements for those degrees at the Mathematics Office.

The following sequences are designed primarily for teachers working toward an interdisciplinary master's degree:

Mth 468 (g), 469 (g), 569. Probability and Statistics. 9 hours.

Mth 478 (g), 479 (g), 579. Algebra. 9 hours.

Mth 488 (g), 489 (g), 589. Geometry. 9 hours.

Mth 498 (g), 499 (g), 599. Foundations of Mathematics. 9 hours.

The department offers four or more of the total twelve terms of work in these courses each summer; the courses are scheduled so that a student may complete all of them in at most four summers. Mth 468, Mth 489, Mth 579, Mth 599 are being offered this summer. Mth 478, Mth 498, Mth 569, Mth 589 are scheduled for 1961.

Each summer these special courses are supplemented by regular session courses and seminars which are of interest to teachers.

A special course, Mth 51, suitable for elementary school and junior high-school teachers, is offered every summer.

Mth 51. Mathematics for Elementary Teachers. 3 hours.

Elements of arithmetic, algebra, and geometry. A required course in the elementary teacher training program. Daily. Mason.

Mth 10. Elements of Algebra. No credit.

Intended for students who have had less than one year of high-school algebra. May be integrated with Mth 51 if there is not sufficient enrollment to justify a separate section. Daily.

Mth 101. Essentials of Mathematics. 4 hours.

Intermediate algebra, with applications. Intended for students who have had only one year of high-school algebra or who have not had algebra for some time. Daily.

Mth 105. Introductory College Mathematics. 4 hours.

Topics selected from college algebra and trigonometry. Prerequisite: one and one-half years of high-school algebra or intermediate algebra in college. Daily.

Mth 106. Introductory College Mathematics. 4 hours.

Principally analytic geometry. Prerequisite: trigonometry. Daily.

Mth 201, 202, 203. Calculus. 4-12 hours.

Enrollment restricted to students who are sufficiently well prepared to do the work with little class instruction.

Mth 405. Reading and Conference. Hours to be arranged.

Mth 425. Elements of Statistical Methods. (g) 3 hours.

An introductory course in statistics. Integrated with Education Statistics (Ed 515). Computing machines are available for student use. Prerequisite: consent of department. MTuWTh.

Mth 468. Probability and Statistics. (g) 3 hours.

Basic concepts of probability and mathematical statistics with applications. Prerequisite: a year of college mathematics. MTuWTh.

Mth 489. Geometry. (g) 3-4 hours.

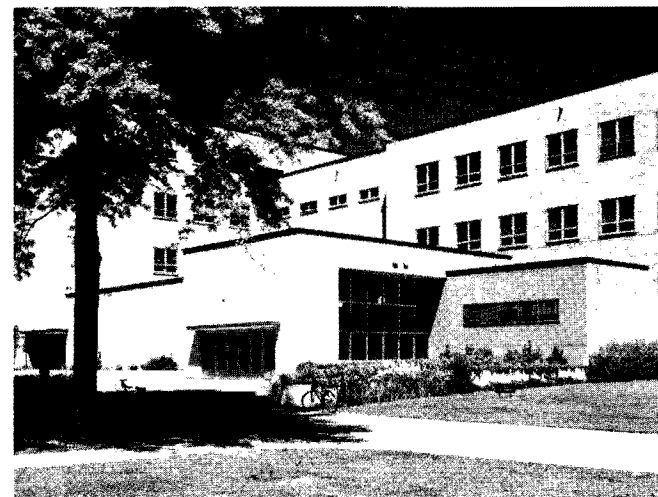
Critical discussion of Euclid's Book I and consideration of modern axiom systems for Euclidean geometry; hyperbolic and elliptic geometries in the plane; introduction of coordinates; introduction to projective geometry. MTuWTh, one hour to be arranged. Jennings.

Mth 579. Algebra. 3-4 hours.

Introduction to modern algebraic systems. Rings, fields, polynomials over rings and fields; special attention to problems of factorization; elements of group theory with special emphasis on examples. MTuWTh, one hour to be arranged. Divinsky.

Mth 599. Foundations of Mathematics. 3-4 hours.

Topics from the calculus. Differentiation, integration, selected applications; the notion of convergence of series, representation of functions by series; the

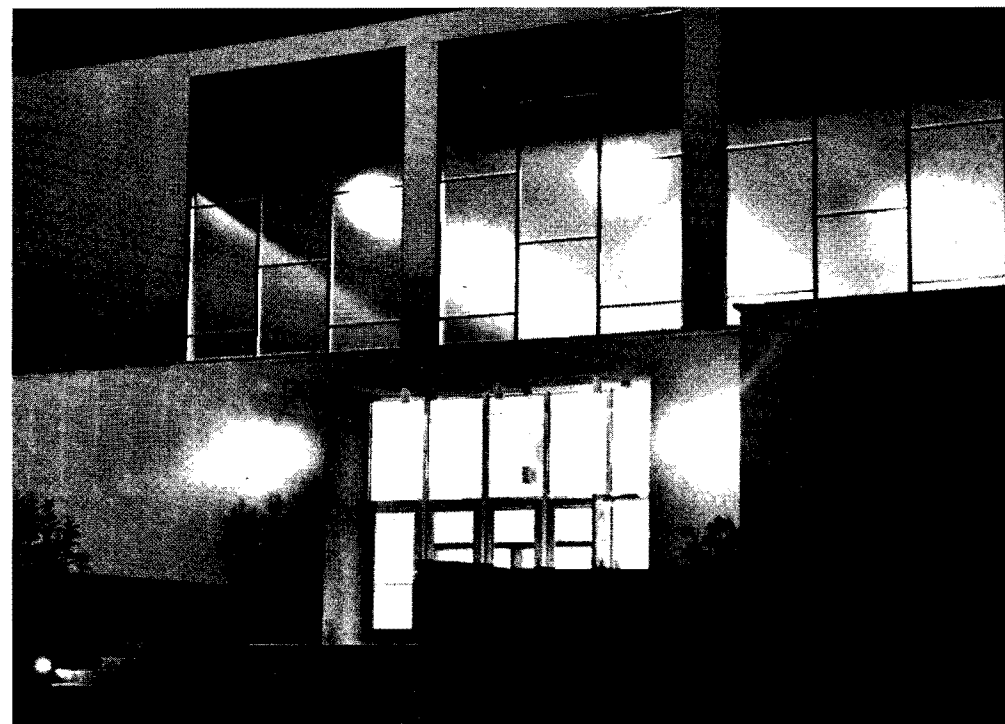


Top—The Science Building houses the departments of Physics, Chemistry, and Biology.



Center—Deady Hall is the oldest building on campus and houses the Department of Mathematics.

Bottom—Dedicated in March of 1960, Leighton Pool will provide summer recreation for both students and faculty.





Top—The beautiful Oregon campus.

Bottom—A summer education seminar meets outdoors.



MUSIC

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computation of constants such as e and π , and the tables of logarithms and trigonometric functions. MTuWTh, one hour to be arranged. Niven, Ghent.

Mth 503. **Thesis.** Hours to be arranged.

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

Mth 507. **Seminar: Complex Variable.** 3 hours.

Complex numbers; definition and properties of elementary functions of a complex variable; analytic functions and some of their properties. Prerequisite: calculus. MTuWTh. Moursund.

Mth 507. **Seminar: Algebra.** 3 hours.

For advanced students. Divinsky.

Mth 507. **Topology.** 3 hours.

For advanced students. Ward.

Mathematics Institute

The University has been granted funds by the National Science Foundation to hold a 1960 Summer Institute for Teachers of High School Mathematics, with Professor A. F. Moursund as director. The Institute will be held during the eight weeks of the summer session. Stipends of \$75 per week, exemption from tuition, allowances for dependents, and travel allowances are available for fifty mathematics teachers. The program of the Institute will extend the course offerings listed above. Institute courses will be open to teachers who are not stipend holders. The two Institute courses listed below should prove to be of particular interests.

Mth 477. **Foundations of Arithmetic and Elementary Algebra.** (g) 4 hours.

Axiomatic development of the number system of elementary and high-school mathematics; critical examination of algebraic techniques, with special reference to the solution of linear and quadratic equations; other topics as time permits. Daily. Jennings.

Mth 497. **Elementary Mathematics of Sets.** (g) 3 hours.

The language of sets, algebra of sets, laws of counting, applications, probability, mathematical systems, and related topics. MTuWTh. Ward.

A descriptive brochure and application forms are available from the director.

Music

Professors: KRATT, NYE.

Associate Professors: GREEN, KELLER, VAGNER.

Assistant Professors: BAILEY, CUNNINGHAM, JELINEK, LEE, RISINGER, WOODS.

Instructor: MAVES.

Fees. The following special fees are charged for private lessons in applied music (Mus 190, Mus 290, Mus 390, Mus 490, Mus 590): piano, violin, viola, cello, and voice, one lesson a week for eight weeks, \$20.00; two lessons a week, \$33.00. Wind instruments, one lesson a week for eight weeks, \$14.00; two lessons a week, \$28.00. Practice-room fee: one hour daily for eight weeks, \$2.75.

Mus 190. **Applied Music.** 1-2 hours.

Freshman year. Individual instruction in piano, voice, stringed instruments, orchestral and band instruments. Prerequisite: qualifying examination.

Piano—Green.

Voice—Bailey.

Violin—Maves.

Cello—Jelinek.

Woodwind Instruments—Cunningham.

Brass Instruments—Lee.

Mus 290. Applied Music. 1-2 hours.

Sophomore year. Continuation of Mus 190, which is prerequisite. For instructors, see Mus 190.

MuE 381. Music for Elementary Teachers. 3 hours.

Music activities for the elementary teacher. An introductory sequence designed to build basic musicianship through experiences related to the teaching of music in the elementary-school classroom. Required of majors in elementary education. MTuThF. Nye.

MuE 383. Music Methods for Elementary Teachers. 3 hours.

Teaching the various music activities in the elementary schools. Required of majors in elementary education. Prerequisite: MuE 381, 382 or consent of instructor. MTuThF. Nye.

Mus 390. Applied Music. 1-2 hours.

Junior year. Prerequisite: Mus 290 or equivalent and qualifying examination for upper-division standing. For instructors, see Mus 190.

Mus 394. Chamber Music. 1 hour.

Six hours maximum credit for applied-music majors; 3 hours maximum for all other students. Instruction in the art of performing in small ensembles; the established repertory of string-instrument chamber music. Prerequisite: consent of instructor. Jelinek.

Mus 395. Band. 1 hour.

Interpretation and performance of band literature, including the reading of selected music for high-school band. Open to all students. MTuWTh. Vagner, Lee.

Mus 397. Chorus. 1 hour.

The preparation of a significant choral work in the large form for public performance at the close of the summer session. Open to all students. MTuWTh. Risinger.

Mus 405. Reading and Conference. Hours to be arranged.**Mus 407. Seminar: Analysis of Music Structure.** (G) 2 hours.

Planned for upper-division and graduate students in music education. MWF. Keller.

Mus 407. Seminar: Theory. No credit.

Offers student the opportunity to remove deficiencies in theory, and to acquire the requisite facilities in theory for upper-division and graduate study. MTuThF. Green.

Mus 407. Seminar: Orchestration. (G) 2 hours.**MuE 407. Seminar: Twentieth-Century Band Literature.** (G) 3 hours.

First four weeks, June 20-July 15. Problems of conducting and interpretation. MTuWTh. Vagner.

MuE 407. Seminar: Choral Literature for Public Schools. (G) 3 hours.

Repertory of choral groups in secondary schools; problems of leadership, presentation, organization, and program planning. Prerequisite: consent of instructor. MTuThF. Risinger.

MuE 407. Seminar: Composition. (G) 2 hours.

Designed especially for teachers, to stimulate interest in composition and in the arranging of choral and instrumental ensembles in the public school. MWF. Keller.

MuE 407. Seminar: Techniques of the Marching Band. (G) 2 hours.

Second four weeks, July 18-August 12. The techniques of planning rehearsals, performances, and arranging music for outdoor presentation; new trends. Daily. Lee.

Mus 408. Seminar in Music History. (G) 3 hours.

Classical period. MTuThF.

Mus 428. Introduction to Musicology. (G) 3 hours.

Study of the methods of research in music, and application of research techniques to particular musical problems. Prerequisite: Mus 360, 361, 362 or consent of instructor. MTuThF.

Mus 438. Contemporary Music. (G) 1-2 hours.

For description see page 59.

Mus 490. Applied Music. 1-2 hours.

Senior year. Continuation of Mus 390. For instructor, see Mus 190.

Mus, MuE 501. Research. Hours to be arranged.**Mus, MuE 503. Thesis.** Hours to be arranged.**Mus, MuE 505. Reading and Conference.** Hours to be arranged.**Mus, MuE 507. Seminar.** Hours to be arranged.**MuE 533. Music in the Elementary School.** 3 hours.

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

Mus 590. Applied Music. 1-4 hours.

Individual instruction in piano, voice, orchestral and band instruments, at the graduate level. Prerequisite: qualifying examination for graduate standing. For instructors, see Mus 190.

High-School Music Summer Sessions

Three special summer sessions for high-school students will be held on the campus. June 19-July 1 will be for band students. July 5-July 16 will be devoted to orchestra. A session, July 11-July 22, will be devoted to chorus and opera workshop. Observation of the rehearsals of these high-school groups will be interesting and valuable to high-school music teachers. Tuition for each of the sessions, \$17.50. Room and board for each of the sessions, \$47.50.

Philosophy

Professor: CASTELL.

Assistant Professor: DYKSTRA.

Phl 303. History of Philosophy (Modern Period). 3 hours.

A survey of the dominant themes and figures in European and American philosophy during the nineteenth and twentieth centuries, including idealism, existentialism, pragmatism, positivism, etc. MTuWTh. Dykstra.

Phl 361. Advanced Ethics. 3 hours.

Significant recent ethical theories; current analyses of ethical concepts and terms. MTuWTh. Dykstra.

Ed 441. History of American Education. (G) 3 hours.

The intellectual development of the United States, with special reference to education. MTuWTh. Castell.

Ed 446. **Modern Philosophies of Education.** 3 hours.

Educational philosophies proposed by recent leaders and critics of American educational theory and practice; Dewey, Hutchins, the progressives, etc. MTuWTh. Castell.

Physics

Professors: CH'EN, ELLICKSON, POWELL.

Associate Professor: DART.

Assistant Professor: BERREMAN.

GS 105. **Physical Science Survey.** 4 hours.

Elementary treatment of the chemistry and the structure of matter. Second term of the sequence GS 104, 105, 106, offered during the regular academic year. The course will be of particular interest to science teachers in the elementary and secondary schools. Daily. Dart.

Ph 410. **Nuclear Physics.** (G) 3 hours.

Radioactivity and nuclear radiations, nuclear structure, isotopes, particle accelerators, nuclear fission. Special attention to the problem of presenting these topics to the high-school student. This course, together with Atomic Physics (Ph 415), form a two-summer sequence in modern physics. Not equivalent of Modern Physics (Ph 411, 412, 413) offered in the regular academic year. MTuWTh.

Ph 501. **Research.** Hours to be arranged.

Ph 503. **Thesis.** Hours to be arranged.

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

Ph 507. **Seminar: Foundations of Physics.** 4 hours.

The basic principles of physics, with special attention to those commonly considered in high-school physics courses. Construction, use, and care of laboratory and demonstration equipment. Daily. Dart.

Political Science

Visiting Professors: LINDSAY, ROSE, SWANSON.

Associate Professors: AGGER, DEAN.

Assistant Professor: MARQUIS.

PS 405. **Reading and Conference.** Hours to be arranged.

PS 407. **Seminar.** Hours to be arranged.

PS 407, 507. **Seminar: Western Europe in Transition.** 3 hours.

June 20-July 15. Political, economic, and social trends in Western Europe, with particular emphasis on the movement toward integration as evidenced by E.C.S.C., Euratom, the Common Market, and the Free Trade Association. Part of World Affairs Program; see pages 57-58. TuTh. Lindsay, staff.

PS 407, 507. **Seminar: Major Trends in South Asia.** 3 hours.

June 20-July 15. Consideration of major problems and trends in India, Pakistan, Nepal, and Ceylon. Emphasis on those aspects related to economic, social, and political development. Part of World Affairs Program; see pages 57-58. MW. Rose, staff.

PS 423. **Modern Britain.** (G) 4 hours.

Social, economic, and political forces and tendencies in contemporary British society. Daily. Lindsay.

PS 427. **Governments of Major European Powers: The U.S.S.R.** (G) 4 hours.

Institutions, politics, and policies of Soviet Russia. Daily. Marquis.

Hst 467. **Modern India.** (g) 2 hours.

First four weeks, June 20-July 14. Development of Indian political institutions under British rule from 1857 through independence and partition in 1947. Daily. Rose.

PS 501. **Research.** Hours to be arranged.

PS 503. **Thesis.** Hours to be arranged.

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

PS 507. **Seminar: Decision Making in Education.** 3-6 hours.

The development of a theoretical approach to the study of decision making in the school system in communities of diverse size, location, and economic characteristics. Emphasis on comparable data derived from several community studies during the past eight years. MTuWTh. Agger, Tope, Swanson.

SSc 507. **Seminar: Nature and Problems of Administrative Behavior.** 3-6 hours.

For advanced graduate students who are at or past the master's level. Draws from the literature in the related fields of business administration, economics, social psychology, sociology, and political science. Particular emphasis on fundamental research underlying human behavior as a basis for the theory and practice of administrative behavior. MTuWTh. Goldhammer, Marquis, Jacobson.

SSc 507. **Seminar: Scope and Methods of the Social Sciences.** 3-6 hours.

The background and perspectives of each of the social-science disciplines—anthropology, economics, political science, psychology and sociology. Selected aspects of social organization and process considered in detail. Daily. Tope, Campbell, Dean, Bisno, Fosmire, Gastil.

Psychology

Visiting Faculty: S. HATHAWAY, V. HATHAWAY.

Professor: LITTMAN.

Associate Professors: BUEHLER, FOSMIRE.

Assistant Professors: PATTERSON, STRAUGHAN, VON HOLT.

Psy 201. **General Psychology.** 3 hours.

Introductory study of behavior and conscious processes. Survey of experimental studies of motivation, learning, thinking, perceiving, and individual differences. MTuWTh. Straughan.

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

Application of psychological methods to the study of the individual; survey of intelligence, achievement, special-aptitude, and personality tests; theoretical and statistical background for interpretation of test scores; training in diagnosis of actual cases. MTuWTh. von Holt.

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

Development of behavior and psychological activity through the prenatal period, infancy, and childhood. Development of cognition, motivation, interests, skills, and personality; integrated with study of the growth of social behavior. The acquisition of socialized patterns of living. Influence of parental

patterns and environmental conditions on personality development. MTuWTh. Littman.

Psy 461. Developmental Psychology II. Adolescence. (g) 3 hours.

Behavior changes during pre-adolescence and adolescence as related to physiological development and social and cultural factors. Emphasis on personal and social adjustment. MTuWTh. Fosmire.

Psy 501. Research. Hours to be arranged.

Psy 503. Thesis. Hours to be arranged.

Psy 505. Reading and Conference. Hours to be arranged.

Ssc 507. Seminar: Scope and Methods of the Social Sciences. 3-6 hours.

The background and perspectives of each of the social-science disciplines—anthropology, economics, political science, psychology, and sociology. Selected aspects of social organization and process considered in detail. Daily. Tope, Campbell, Dean, Bisno, Fosmire, Gastil.

Psy 507. Seminar: Problems and Methods of School Psychologists. 3 hours.

First four weeks, June 20-July 15. Consideration of several major aspects of the work of school psychologists, especially consulting work with teachers and administrators. MTuWTh. V. Hathaway.

Psy 507. Seminar: Juvenile Delinquency. 2 hours.

July 11-15. Designed for graduate students interested in juvenile correction. Daily lecture and workshop sessions present an interdisciplinary, behavioral science approach to the problem of delinquency prevention and control. Distinguished judges and behavioral scientists featured. Prerequisite: consent of instructor. For additional information see page 58. Daily. Buehler, staff.

Psy 507. Seminar: The Nature of Personality and its Manipulation. 3 hours.

First four weeks, June 20-July 15. Theoretical and research problems concerned with the nature and measurement of personality and with psychotherapy. Primarily for graduate students in psychology. MTuWTh. S. Hathaway.

Psy 507. Seminar: Psychodiagnostics. 3 hours.

The clinical use of psychological tests and interviews in treatment planning. Concepts and procedures involved in psychological examinations of personality and behavior. Prerequisite: consent of instructor. Buehler.

Psy 507. Seminar: Psychopathology of Functional Disorders. 3 hours.

Survey of selected topics in theory and treatment. Emphasis on recent literature. Topics will be determined by student interest. Prerequisite: Psy 450 or equivalent. MW. Straughan.

Psy 507. Seminar: Experimental Studies of Social Behavior in Animals. 3 hours.

Review of recent experimental research on exploratory, maternal, and cooperative behavior in birds and rodents. TuTh. Littman.

Psy 508. Clinical Work with Children. Hours to be arranged.

Practicum experience in diagnostic evaluation of child and family. Supervised counseling with children and adults. Enrollment limited. Prerequisite: consent of instructor. Patterson.

Psy 524. Individual Intelligence Testing. 3 hours.

Supervised practice in the administration, scoring, and interpretation of intelligence tests, chiefly the Stanford-Binet and Wechsler for children and the Wechsler adult intelligence scale. MTuWTh. von Holt.

Sociology

Visiting Faculty: HALSEY.

Professor: BERREMAN.

Associate Professor: BISNO.

Assistant Professors: JOHANNIS, WARNATH.

Soc 205. General Sociology. 3 hours.

The basic findings of sociology concerning the individual, culture, group life, social institutions, and social change. Second term of a three-term sequence. Prerequisite: Soc 204 or consent of the instructor. MTuWTh. Johannis.

Soc 334. Social Psychology. 3 hours.

Analysis of the psychological and sociological processes involved in personality formation and in various forms of group behavior. Prerequisite: Soc 204, 205 or Psy 201, 202. MTuWTh. Berreman.

Soc 401. Research. Hours to be arranged.

Soc 403. Thesis for Honors Candidates. Hours to be arranged.

Soc 405. Reading and Conference. Hours to be arranged.

Soc 407. Seminar: Social Stratification. (G) 3 hours.

Critical examination of the theories of social class, especially those of Marx, Weber, and Parsons. Detailed analysis of social stratification in industrial society, including its relation to other aspects of social structure. MW. Halsey.

Soc 407. Seminar: Comparative Social Institutions. (G) 3 hours.

Introduction to the comparative study of society. Consideration of both primitive and advanced societies as a basis for analysis of both the universal and the variable features of the major social institutions: familial, economic, political and religious. Social evolution and social change; changes in social structure which accompany industrialization. TuTh. Halsey.

Soc 407. Seminar: Propaganda and Social Control. (G) 3 hours.

A social-psychological examination of the nature of propaganda and other techniques for the control of attitudes and opinions; their use and effectiveness as means of social control. Methods, media, and content analyzed; application to the commercial, political, religious, and educational fields, and to war propaganda and "brainwashing." TuTh. Berreman.

Soc 407. Seminar: Family Life Education. (G) 3 hours.

The development of family life education programs, including underlying philosophy, trends, methods and materials. MTuWTh. Warnath.

Soc 440, 441. Group Dynamics. (G) 3 hours each term.

First four weeks (Soc 440): analysis of the dynamics of group interaction through readings and experimentation in the classroom setting. Second four weeks (Soc 441): the group aspects of professional practice. Designed to provide a basis for professional work with and professional participation in groups. Prerequisite: Soc 440 for Soc 441. MTuWTh. Johannis, Bisno.

Soc 465. The Family in American Culture. (G) 3 hours.

The family as a social institution and its relationship to other social institutions. Prerequisite: 9 hours of sociology. MTuWTh. Johannis.

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

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. MTuWTh. Halsey.

Soc 501. Research. Hours to be arranged.

Soc 503. Thesis. Hours to be arranged.

Soc 505. Reading and Conference. Hours to be arranged.

Soc 507. Seminar: Juvenile Delinquency. 2 hours.

July 11-15. Designed for graduate students interested in juvenile correction. Daily lecture and workshop sessions present an interdisciplinary, behavioral science approach to the problem of delinquency prevention and control. Distinguished judges and behavioral scientists featured. Prerequisite: consent of instructor. For additional information see page 58. Daily. Buehler, staff.

SSc 507. Seminar: Scope and Methods of the Social Sciences. 3-6 hours.

The background and perspectives of each of the social-science disciplines—anthropology, economics, political science, psychology, and sociology. Selected aspects of social organization and process considered in detail. Daily. Tope, Campbell, Dean, Bisno, Fosmire, Gastil.

Soc 508. Workshop: Intergroup Relations. 3 hours.

July 11-22. Designed for teachers and community leaders whose activities involve intergroup relations, either in classroom instruction or in informal community programs. Racial, religious, national, and other groups considered. The facts concerning the nature and significance of ethnic and cultural differences, the multigroup nature of American society, the nature and significance of prejudice and differential treatment based on ethnic and cultural differences. Daily. Berreman.

Speech

Professors: ROBINSON, WOOD.

Associate Professors: DAHLBERG, KRETSINGER.

Assistant Professors: PECK, RAMEY, YOUNG.

Instructors: MCGRAW, ZOLLER.

Sp 111. Fundamentals of Speech. 3 hours.

Projects in extempore speaking. Primary emphasis on content, organization, and adjustment to the speaking situation. MTuWTh. Dahlberg.

Sp 211. Interpretation. 2 hours.

The application of the principles of oral reading to literature. MTuW. McGraw.

Sp 264. Production Workshop. 3 hours.

Practical experience in the construction, painting, and handling of scenery, and the lighting of plays. MTuWTh. Peck.

Sp 371. Speech Science. 3 hours.

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

Sp 407. Seminar: Problems in Direction and Dramatic Production. 3 hours.

MTuWTh. McGraw, Robinson.

Sp 411. Speech for the Classroom Teacher. 3 hours.

Instruction in speech and speech forms designed for classroom use. MTuWTh. Dahlberg.

Sp 421. Classical Oratory. (G) 3 hours.

Rhetorical criticism of masterpieces of Greek and Roman oratory. MTuWTh. Dahlberg.

Sp 438. Contemporary Drama. (G) 1-2 hours.

For description see page 60.

Sp 439. Contemporary Film Art. (G) 1-2 hours.

For description see page 60.

Sp 446. Television Production. (G) 3 hours.

Theory and technique of production of radio and television programs. Problems and procedures in the synthesis of talent and production materials. Preparation and production of programs. MTuWTh. Kretsinger.

Sp 464. History of the Theater. (G) 3 hours.

A historical study of the theater from ancient times to the Renaissance. MTuWTh. Robinson.

Sp 467. Lighting for the Stage. (G) 2 hours.

The functions of lighting on the stage; the qualities of light, lighting instruments, control systems. TuWTh. Peck.

Sp 482. Speech Pathology. (G) 3 hours.

Symptoms, causes, and treatment of speech abnormalities. Organic speech disorders, including deviations due to congenital malformation, injury, deafness, and neurological impairment. MTuWTh.

Sp 484, 485, 486. Clinical Speech Therapy. (G) 2-4 hours.

Supervised clinical work with speech-defective children and adults enrolled for testing, counseling and treatment in the Speech and Hearing Clinic. Students planning to enroll in this course should write to the director, Speech and Hearing Clinic, University of Oregon. MTuWTh. Wood, Young.

Sp 487. Audiology. (G) 3 hours.

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. MTuWTh.

Sp 501. Research. Hours to be arranged.**Sp 503. Thesis.** Hours to be arranged.**Sp 505. Reading and Conference.** Hours to be arranged.**Sp 507. Seminar: Introduction to Graduate Study.** 3 hours.
MTuWTh.**Sp 507. Seminar: Argumentation and Debate.** 3 hours.**Sp 507. Seminar: Problems in Teaching by Television.** 3 hours.**Sp 507. Seminar: Special Problems in Speech Pathology.** 3 hours.**Sp 507. Seminar: Technical Problems in the Theater.** 3 hours.**Sp 507. Seminar: Problems in Direction and Dramatic Production.** 3 hours.**Sp 507. Seminar: Oral Interpretation.** 3 hours.**Sp 508. Workshop: Educational Television.** 4 hours.

June 13-24. An intensive program of class and laboratory work, for teachers and administrators, in the arts and skills of production and performance in education by television. Daily. Kretsinger, Ramey, Zoller.

Sp 541. Theory and Criticism of Broadcasting. 3 hours.

A comparative study of systems of broadcasting; the development of ethical artistic, and critical standards in radio and television. MTuWTh. Kretsinger.

Sp 544. Radio-Television Program Evaluation. 3 hours.

Background and development of broadcast measurements; experimental and survey procedures applicable to the testing of hypotheses in these media. MTuWTh. Kretsinger.

Sp 552. Theory of Dramatic Production. 3 hours.

MTuWTh. Robinson.

World Affairs Program

The Third Annual Summer World Affairs Program will be held on the University campus from June 20 to July 15. It will consist of two parts: (1) seminars in which 6 term hours of credit may be earned; (2) panel discussions and addresses open to the general public.

Full-time students in the program will enroll in two of four seminars; other students may enroll in one seminar and take other regular courses in the Univer-

sity. Each seminar is limited to twenty students. Students especially interested in Latin America are urged to enroll in both seminars on that area.

The co-curricular activities will consist of panels, forums, and lectures.

Since enrollments will be limited, requests for admittance should be made as far in advance of registration as possible. For additional information and reservations write to: Director, Summer World Affairs Program, Institute of International Studies and Overseas Administration, University of Oregon, Eugene, Oregon.

PS 407, 507. Seminar: Western Europe in Transition. 3 hours.

Political, economic, and social trends in Western Europe, with particular emphasis on the movement toward integration as evidenced by E.C.S.C., Euratom, the Common Market, and the Free Trade Association. TuTh. Lindsay, staff.

PS 407, 507. Seminar: Major Trends in South Asia. 3 hours.

Consideration of the major problems and trends in India, Pakistan, Nepal, and Ceylon. Emphasis on those aspects related to economic, social, and political development. MW. Rose, staff.

SSc 407, 507. Seminar: Major Problems in Latin America. 3 hours.

Development of society in Latin America, with focus on contemporary problems relating to economic and social changes. MW. Martin, staff.

RL 407. Latin-American Culture and Civilization. (g) 3 hours.

Survey of Latin-American culture, both historical and contemporary, including literature, folklore, art, and music. TuTh. Espinosa, staff.

Juvenile Courts Program

A Juvenile Courts Summer School will be held on the University campus the week of July 11 through 15. This program is sponsored jointly by the University's Center for Social Service Research and Training and the Oregon Juvenile Judges Association. It is planned as in-service training for juvenile correctional personnel in Oregon and as graduate training for students enrolled in the Center's graduate program in juvenile correction.

A special fee, on a daily or a five-day basis, is required for participation. Two hours of University credit may be obtained by registering, with advisors' approval, in Seminar: Juvenile Delinquency, offered in the 507 seminars series by the Departments of Psychology, Sociology, and the School of Education.

For additional information write to: Co-Director for Juvenile Correction, Center for Social Service Research and Training, University of Oregon.

Ed, Psy, Soc 507. Seminar: Juvenile Delinquency. 2 hours.

July 11-15. Designed for graduate students interested in juvenile correction. Daily lecture and workshop sessions present an interdisciplinary, behavioral-science approach to the problem of delinquency prevention and control. Distinguished judges and behavioral scientists featured. Prerequisite: consent of instructor. Daily. Buehler, staff.

Summer Academy Of Contemporary Arts

The second Summer Academy of Contemporary Arts will be held on the University campus during the 1960 summer session. A series of two-week courses devoted to the high arts and the popular arts will run through the eight weeks of

the session. The focus of all courses is on main trends and significant work since World War II; lectures will be supplemented by class discussions. In the high arts the lectures cover literature, architecture, drama, painting, and dance; in the popular arts, contemporary cartoon art and contemporary film art. As an integral part of each course, the artist in residence or commentator, will present a public performance appropriate to his field—a reading from a literary work in progress, a gallery talk based on his paintings, a concert of his own music, etc.

The faculty of the Summer Academy of Contemporary Arts will include Andrew Lytle, historian, critic, and novelist, a member of the faculty of University of Florida; Lukas Foss, a contemporary composer from Los Angeles and Tanglewood; Virgil Partch ("Vip"), Capistrano Beach, California; Bruce Goff, architect, Bartlesville, Oklahoma; Robert Kostka, art director of WTTW, Chicago educational television station; and Louis Bunce, painter, Portland. A playwright-critic is to be appointed.

Students may enroll for the complete Summer Academy program or for selected courses and may enroll at the beginning of the summer session or at the beginning of any two-week course. The courses are open to auditors as well as students enrolled for credit. Each course carries 1 or 2 term hours of undergraduate or graduate credit; to earn 2 hours of credit, the student must submit a paper treating some aspect of the field or art with which the course is concerned. To earn 1 hour credit, attendance at all lectures is mandatory. In all courses, a bibliography is furnished as a guide to the student's future reading.

Some course lectures are scheduled from 3:00 p.m., Monday through Thursday, with discussion periods from 4:00 to 5:00 p.m. on the same days; other lectures are scheduled from 1:00 to 2:00 p.m., with discussion from 3:00 to 4:00. Attendance at the discussion-question periods is optional. The final lectures on the contemporary film art will be scheduled in the evening, with the lecture period preceding the showing of a feature-length art film. Seats not claimed by students registered for the course will be open to the public at art-film rates.

All Summer Academy lectures are open to the public by purchase of an admission ticket at the door. Visitors' comments or questions are welcome during the question session. No distinction in seating is made between auditors, regularly enrolled students, and visitors.

For further information see the Summer Academy brochure, which will be furnished on request to the Summer Session Office.

Eng 438. Contemporary Novel. (G) 1-2 hours.

June 21-July 1. Significant prose fiction written in America and England since World War II; attention directed to the major masters of fiction of the immediate past, and to writers of increasing importance. Lytle.

Mus 438. Contemporary Music. (G) 1-2 hours.

June 21-July 1. A survey of contemporary American music; changing concepts and their effects on materials and individual practice. Special attention given to trends of the last decade. Foss.

AA 439. Contemporary Architecture. (G) 1-2 hours.

July 5-July 15. Illustrated lectures and discussion concerning modern architecture at mid-century. Problems of housing, public planning, architectural functions in society, and aesthetics. The diverse motives, intentions, resources, and significant works of contemporary architecture. Goff.

J 438. Contemporary Cartoon. (g) 1-2 hours.

July 5-15. A survey of cartoons and comic art as found in newspapers and periodicals. Today's cartoonists and how they work; styles; the ingredient of humor; impact of the cartoon; propaganda and cartoons; the role of the editor; the cartoonist and his public. Partch.

PE 438. Contemporary Dance. (G) 1-2 hours.

July 18-28. The development and function of dance in contemporary society.

The significance of dance as an independent art form, and in relation to and integrated with other art forms. Lippencott.

Sp 439. **Contemporary Film Art.** (G) 1-2 hours.

July 18-29. Significant developments in contemporary film; techniques and concepts, with attention to film productions both in Europe and in the Orient. Lectures and the films are an integral part of the course. Kostka.

Sp 438. **Contemporary Drama.** (G) 1-2 hours.

August 1-12. Survey of contemporary dramatic literature and theatrical production. Special attention to criticism in the theater, and to the economic, social, and artistic significance of the theater today.

AA 438. **Contemporary Painting.** (G) 1-2 hours.

August 1-12. Discussion and illustrated lectures on appreciation of contemporary painting. Changing concepts, the painter's place in society; modern styles, materials, and techniques. Bunce.