

SUMMER
SESSION

Eugene, Oregon

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UNIVERSITY OF OREGON



OREGON STATE SYSTEM OF HIGHER EDUCATION

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1961 CATALOG

EUGENE, OREGON

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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 University of Oregon Medical School and the University of Oregon Dental School are located in Portland. The General Extension Division, representing all the institutions, has headquarters in Portland and offices in Ashland, Corvallis, Eugene, La Grande, Monmouth, and Salem.

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

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

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

Terminal courses in technical and semiprofessional 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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JUNE 19. Registration.

JUNE 20. Classes begin.

JUNE 21. Last day for payment of registration fee without penalty.

JUNE 28. Last day to add a course.

JULY 4. Independence Day, holiday.

JULY 14. Last day to withdraw from a course.

JULY 17. Last day to file doctor's theses.

JULY 27. Last day to file master's theses.

AUGUST 9. Last day for master's and doctor's oral examinations.

AUGUST 10-11. Final summer session examinations.

AUGUST 14-25. Post session.

The Summer Program

The fifty-seventh annual summer session of the University of Oregon will be organized as a single session of approximately eight weeks between June 19 and August 11, 1961.

Undergraduate Work

A large selection of lower-division courses will be offered in the 1961 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 Admissions 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 master's degree the University require a program of study of *not less* than 45 term hours.

Grade 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. Graduate credit will not be granted for a course in which the student earns a grade of D.

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, Dental School, or School of Nursing 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. All work for a master's degree, including work for which credit is transferred, thesis, and final examination, must 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 devoting full time to graduate study is 13 term hours.

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. Credit for Thesis is granted on a no-grade basis.

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 bache-

lor's degree and who has completed a minimum of 21 term hours of work in education, at least 9 hours of which are for student teaching. 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.

On 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 education, 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 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 14 to 25. Credit may be earned in Reading and Conference (Ed 505). The fee for this session is \$11.00 per term hour.

Student Council Workshop. The eighth and ninth 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 13-25 (see page 23 for description). State and national leaders in student council work will be on the campus from August 13-18, 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.

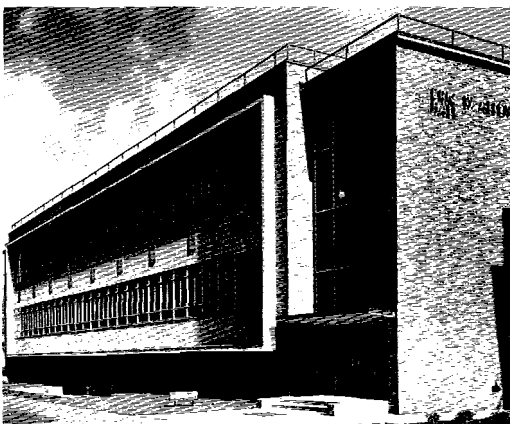
Registration Procedure

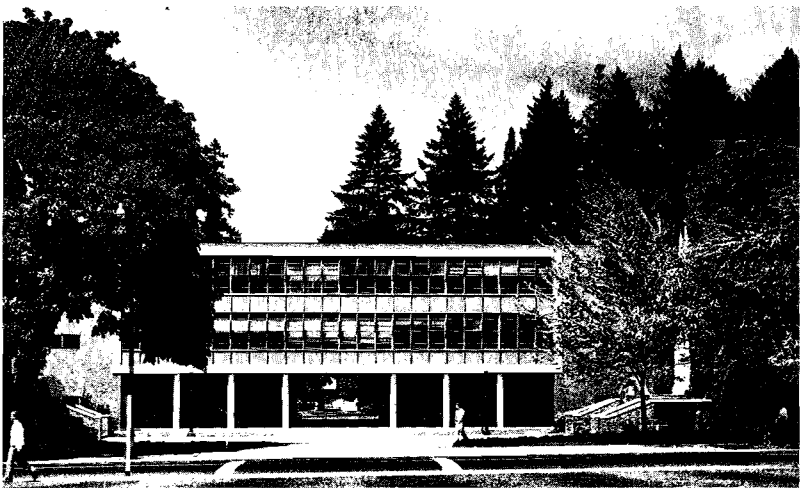
Students will register for the summer session on Monday, June 19; classes will begin Tuesday morning, June 20. Registration will begin at 8:00 a.m. and continue until 4:00 p.m. Students will receive registration materials and further instructions at the Registrar's Office. (Education majors may obtain registration material either at the School of Education or at the Registrar's Office.)



Top—The University of Oregon Library.

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

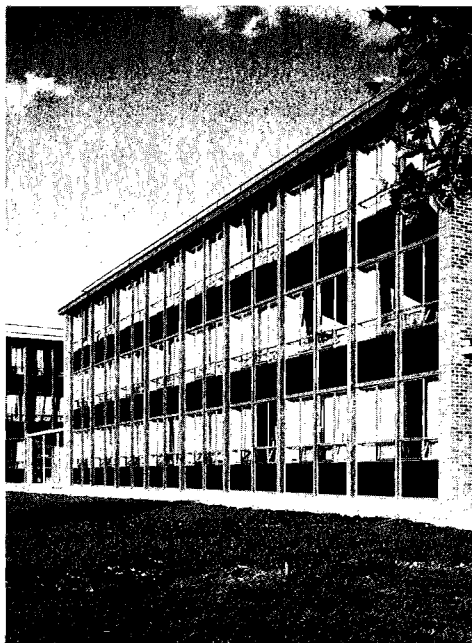




Top—Commonwealth Hall houses the School of Business Administration.

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.



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 16, or on Saturday morning, June 17. 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 19.

Summer Session Fees

Students attending summer session classes for credit or as auditors pay the same fees. Registration and other summer session fees 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\$90.00

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 \$34.00.

Part-time fee.....\$22.00 to \$66.00

1 or 2 term hours, \$22.00; 3 term hours, \$33.00; 4 term hours, \$44.00; 5 term hours, \$55.00; 6 term hours, \$66.00. Paid also by auditors attending classes carrying a total credit of 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 23.

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

College prep and adult reading fee\$25.00

Music feessee page 56

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:

Withdrawing first three days after beginning classes....Refund of all fees over \$ 9.00

Withdrawing within first two weeks.....Refund of all fees over \$22.50

Withdrawing after two weeks and before

beginning of fifth week.....Refund of all fees over \$45.00

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 17, not later than July 26.....	95.00	105.00
	<u>\$190.00</u>	<u>\$210.00</u>

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 28 or if the second installment is not paid by July 26.

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, June 18. The first meal served will be breakfast on Monday, June 19. The dormitories will close at 7:00 p.m. on Friday, August 11. The last meal served will be the evening meal on Friday, August 11.

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 office of Student Affairs 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 Married Student Housing, University Business Office. Married students seeking off-campus living quarters in Eugene for the summer session

* 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.

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. Two special music summer sessions, for high-school students will be held on the campus. The first, June 18-30, will be for band students. The second, July 2-July 14, will be for orchestra students. Observation of the rehearsals of these high school groups will be interesting and valuable to high school music teachers.

The Summer Sun, a weekly newspaper devoted to summer session news, is published by the journalism classes and 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.

Museum of Art. The Museum of Art, housing the Murray Warner Collection of Oriental Art and other University art collections, will be open to students during the summer from 1:00 to 5:00 p.m. Tuesday through Sunday, and 7:00 to 9:00 Wednesday evenings.

Special exhibitions scheduled for the summer are: June 20-August 20—Contemporary Prints of Holland. July 16-August 6—Andrew Dasburg. A Ford Foundation Exhibition.

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 arrangements with the museum secretary.

Children's activities in the museum are being planned and will be announced.

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: Current Trends and Methods in Typewriting.** 3 hours. June 19-30.

BEd 508. **Workshop: Current Issues and Trends in Business Education.** 3 hours. July 3-14.

BEd 508. **Workshop: Current Trends and Methods in Office Practice.** 3 hours. July 17-28.

MPM 408, 508. **Workshop: Employment Service Management Development.** 6 hours. July 3-28.

Ed, FBE 508. **Workshop: Family Financial Security Education.** 6 hours. June 19-July 14.

Ed 508. **Workshop: Teaching Geography in the Junior High School.** 3 hours. June 19-July 14.

- Ed 508. **Workshop: The Student Council.** 3 hours. August 13-25.
- Ed 508. **Workshop: The School Administrator and the Guidance Program.** 3 hours. June 19-30.
- Ed 508. **Workshop: Problems in High-School Reading.** 2-3 hours. August 14-25.
- Ed 508. **Workshop: Instructing the Able and Gifted.** 3 hours. July 17-28.
- Ed 508. **Workshop: Curriculum Materials for the Mentally Retarded.** 3 hours. August 14-25.
- Ed 508. **Workshop: Elementary-School Administration.** 6 hours. July 17-August 11.
- Eng 508. **Workshop: Structural Linguistics and English Grammar.** June 19-30.
- PE 408, 508. **Workshop: Secondary-School Physical Education.** 1-9 hours. June 19-July 7.
- PE 508. **Workshop: Elementary-School Physical Education.** 3 hours. June 12-17.
- PE 406. **Coaching Clinic.** 2 hours. June 12-16.
- Psy 508. **Workshop: Clinical Work with Children.** Hours to be arranged. June 19-August 11.
- Soc 508. **Workshop: Intergroup Relations.** 3 hours. June 20-30.
- Sp 508. **Workshop: Educational Television.** 4 hours. June 12-23.
- High-School Music Summer Sessions.** Band, June 18-30; Orchestra, July 2-14.
- Mathematics Institute.** June 19-August 11.
- Oregon Institute of Marine Biology.** June 19-August 11.
- World Affairs Program.** June 19-July 14.
- Four-Week Journalism Seminar for Teachers.** June 19-July 15.
- High-School Science Summer Institute.** June 19-July 25.
- Summer Academy of Contemporary Arts.** June 19-August 11.
- Summer Institute in Physical Science for Elementary-School Teachers.** June 19-August 11.
- Juvenile Courts Program.** July 10-15.

Anthropology

Assistant Professor : GASTIL.

- Anth 401. **Research.** Hours to be arranged.
- Anth 501. **Research.** Hours to be arranged.
- Anth 503. **Thesis.** Hours to be arranged.
- Anth 505. **Reading and Conference.** Hours to be arranged.
- Anth 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. 8-10 Daily. Foskett, Campbell, Gastil, Dean, Straughan.
- Anth 511. **Culture, Society, and the Individual.** 3 hours.
A review and evaluation of the concepts of culture and society, as the terms are employed by anthropologists. The relationships between culture and society, between culture and the individual, and between society and the individ-

ual. Prerequisite: graduate standing in the social sciences. 11 MTuWTh. Gastil.

Architecture and Allied Arts

Visting Artisan: BURTON.

Professor: VINCENT.

Associate Professors: ROSS, WILKINSON, ZACH.

Assistant Professors: BURGNER, FOSTER, DI GIUSTO, NIXON.

Instructor: GEHRING.

Art Education

ArE 311. Art and Crafts for the Elementary Teacher. 3 hours.

Art activities for the classroom teacher; basic tools and materials; planning the art program to meet the needs of the child; art in the school curriculum; art experiences in relation to child growth and development. Lectures and laboratory. 8-10 MTuWTh. Gehring.

ArE 401. Special Studies. Hours to be arranged.

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

Teaching of art history 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. 11 MTuWTh.

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. Prerequisite: ArE 311, 312; or one year of teaching experience. 10-12 MTuWTh. Burgner.

ArE 501. Special Studies: Children's Art Laboratory. 2 hours.

Second four weeks, July 17-August 11. Observation and study of primary and intermediate children engaged in creative activities; methods and art materials. Prerequisite: teaching experience or consent of the instructor. 10-12 MTuWTh. Burgner.

ArE 501. Special Studies: Art in the Secondary School. 3 hours.

Art in the senior high school examined in terms of new programs, content, and materials; projects will include photography, film, and silk screen. 10-12 MTuWTh. Foster.

ArE 501. Special Studies: Art in the High School Year Book. 2 hours.

Second four weeks, July 17-August 11. Techniques and materials in visual design and graphic arts for the yearbook as related to the secondary art program. 8-10 MTuWTh. Foster.

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

Gehring.

ArE 507. Seminar. 2 hours.

First four weeks, June 19-July 14. 9 MTuWTh. Foster.

Sculpture and Applied Design*

AA 255. Ceramics. 1-3 hours.

* Students may enroll for either a four- or an eight-week period in the sculpture and applied design areas.

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. 3-5 MTuWTh. Ross.

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 four- and twelve-harness looms. 1-3 MTuWTh. Nixon.

AA 257. Metalwork and Jewelry. 2 hours.

The handworking of nonferrous metals—copper, brass, pewter, silver, gold. Development of design for metal objects; enameling on metal; centrifuge casting; lapidary work. 8-10 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 pre-dental students and nonmajors. 1-3 MTuWTh. Di Giusto.

AA 439. Contemporary Sculpture. (G) 1-2 hours.

July 24-August 4. A survey of contemporary sculpture. Relation of American contemporary movements to international trends. Demonstrations involving basic technical approach to metal sculpture. Roszak.

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. 1-3 MTuWTh. Ross.

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. 1-3 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. 10-12 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. 8-10 MTuWTh. Zach.

Drawing and Painting*

AA 290. Painting. 2-4 hours.

Instruction in the use of oil color, water color, and other media. 9-12 MTuWTh. Vincent; 1-4 MTuWTh. Wilkinson.

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. 9-12 MTuWTh, Wilkinson; 1-4 MTuWTh, Vincent.

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. 9-12 MTuWTh, Vincent; 1-4 MTuWTh, Wilkinson.

AA 501. Special Studies. Hours to be arranged.

* Students may enroll for either a four- or an eight-week period in the drawing and painting area.

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

AA 509. **Terminal Project.** 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.

History of Art

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

A comprehensive study and analysis of the art of the twentieth century; particular emphasis on architecture, painting, and sculpture. 8 MTuWTh.

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

Teaching of art history 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. 11 MTuWTh.

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

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

Biology

Visiting Faculty: BERNER, GIBLEY, OBERTEUFFER, PRITCHARD.

Professor: HUESTIS.

Associate Professors: KEZER, FRANK.

Assistant Professors: COOK, CASTENHOLZ, MCCONNAUGHEY.

Instructor: ERICKSON.

Special Lecturers: SCHEER, COHEN, STRAUS, NOVICK, NOVITSKI, MORRIS.

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 102. **General Biology.** 4 hours.

Mitosis, animal development, meiosis, genetics, and a survey of the invertebrate phyla. Lectures, laboratory, field work, and discussion. 1-5 MWF. Erickson.

Bi 326. **Vertebrate Embryology.** 4 hours.

Gametogenesis, fertilization, development of the vertebrate body plan and its organogeny, as illustrated by amphibian and chick embryos; more-limited use of invertebrates and mammals. Conventional study of serial sections of embryos of successive ages supplemented with living material. Lectures and laboratory. Secondary teachers may enroll in Bi 495. 1-5 MWF. Huestis.

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 470. **Field Botany.** (G) 4 hours.

Field study of native vegetation. Identification and classification of seed plants, distribution of plants in relation to environment, characteristics and behavior of plant communities. Examples drawn primarily from western Oregon, but methods are of general applicability. The course content includes material directly usable in the public schools. Lectures, laboratory, and field work. 1-5 MW, and several all-day Saturday field trips. Cook, Oberteuffer.

Bi 494. **Laboratory and Field Methods in Biology.** (G) 4 hours.

Designed especially to meet the needs of biology teachers. Field collection, identification, and culturing of living material; utilization of this material in the experimental work of the biology teaching laboratory. Special techniques effective in demonstrating the dynamics of living processes. Field trips for the exploration of the various kinds of habitats found in the Northwest. Students should be provided with field clothes, hip boots or waders, and camping equipment. Lectures, discussions, laboratory and field work. Prerequisite: consent of instructor. 1-5 TuTh, and four all-day Saturday field trips. Kezer, Oberteuffer.

Bi 495. **Survey of Embryology.** (g) 4 hours.

Gametogenesis, fertilization, development of the vertebrate body plan and its organogeny, as illustrated by amphibian and chick embryos; more limited use of invertebrates and mammals. Conventional study of serial sections of embryos of successive ages supplemented with living material. Lectures and laboratory. 1-5 MWF. Huestis.

Bi 560. **Recent Advances in Biology.** 4 hours.

Survey of recent advances in the study of cell structure, mitosis, meiosis, chromosome structure, chemistry of heredity, human heredity, transmission of information in the central nervous system, nature of the nerve impulse, cellular respiration, photosynthesis, ecology, and morphology. Lectures: 8 Daily. Staff.

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

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

Bi 407, 507. **Seminar.** 1 hour. Hours to be arranged.

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

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 field. Enrollment restricted. Lectures, MWF. Berner, Castenholz, staff.

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 hours of credit and each of four weeks duration, offered in sequence. Lectures, MWF. McConnaughey.

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. Gibley.

Bi 491. Comparative Physiology. (G) 4 hours.

Discussion of feeding, digestion, metabolism, respiration, circulation, water and salt balance, excretion, and coordination among major animal groups. Prerequisite: college courses in zoology and general chemistry; quantitative analysis and invertebrate zoology recommended. TuTh. Pritchard.

Business Administration

Visiting Faculty: BLISS, LEWIS, MCBAIN, REICHERTER, SEARS, THOMAN.

Professors: BALLAINE, LINDHOLM, REED.

Associate Professors: GREENE, ROBERT, SOHA.

Instructor: BERG.

Accounting and Business Statistics

Ac 211. Fundamentals of Accounting. 3 hours.

First four weeks, June 19-July 14. Use of basic accounting concepts and procedures as tools for the administration of business enterprise; methods of recording, reporting, and interpreting financial data. Required of business-administration majors. 3-5 MTuWTh. Soha.

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. 1-3 MWF. Thoman.

Business Education and Secretarial Science

BEd 333. Office Organization and Management. 2 hours.

First four weeks, June 19-July 14. 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. 10 Daily. Berg.

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

June 19-30. Presentation of methods for teaching elementary and advanced typewriting, selected drills for improving skills, remedial drills, standards to be met. Application of audio-visual aids available for teaching typewriting. Investigation of current experimental studies related to typewriting. 1-4 daily. Sears.

BEd 508. Workshop: Current Issues and Trends in Business Education. 3 hours.

July 3-14. A study of the current issues and trends in business education and their influence upon the organization, administration, and supervision of a business education program. 1-4 daily. Reicherter.

BEd 508. Workshop: Current Trends and Methods in Office Practice. 3 hours.

July 17-28. Improvement of instruction in teaching office practice; methodology, testing and grading, use of audio-visual aids and supplementary materials. 1-4 daily. Lewis.

SS 121. Typing. 2 hours.

Theory and practice of touch typing; speed and accuracy development; em-

phasis 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. 9 daily. Berg.

SS 122. Typing. 2 hours.

Principles of touch typing; emphasis on skill development with stress on speed and accuracy; preparation of various business forms. 9 daily. Berg.

SS 213. Applied Stenography. 2 hours.

July 17-28. 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. 7-9 daily. Berg.

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. 8-10 MWF. Robert.

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. 10-12 MWF. Reed.

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; the effects of these fluctuations on individual business firms and industries. 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. 10-12 MWF. Thoman.

FBE 503. Thesis. Hours to be arranged.

Ballaine, Lindholm, Reed.

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

First four weeks, June 19-July 14. 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. 8:30-12, 1-4 daily. Soha, staff.

FBE 512. Problems in Business Forecasting. 3 hours.

Examination of the usefulness of business and economic data—national income accounts, banking and monetary quantities, production and inventory levels—in estimating general business trends, prospects of a particular industry, and fluctuations in an area of business activity or geographical region. The course is organized so that all current business and economic data can be carefully considered to provide a base for understanding the cyclical developments taking place at the time the course is being taken. 10-12 TuTh. Lindholm.

FBE 530. Managerial Economics. 3 hours.

The varied forms in which economic concepts appear in the operation of individual business units; emphasis on the approach to problems of management decision making and forward planning through formulation of problems in a conceptually quantitative manner capable of numerical solution. Integration of economic principles with various areas of business administration; the role of uncertainty given particular attention. 1 MTuThF. Ballaine.

Management, Production, and Marketing**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. 8-10 TuThF. Bliss.

MPM 354. Fundamentals of Risk and Insurance. 4 hours.

Introduction to the basic principles of insurance from the viewpoint of the consumer; risk and risk bearing; ways of handling risk; insurance as a device to handle risk; principles of insurance buying, including carrier and agency selection; major types of private insurance (life, property, and liability), with emphasis on the underlying economic problems each type is designed to meet; the insurance contract and its legal basis, with emphasis on the elements common to all insurance contracts; economic and historical significance of insurance; insurance regulation. 9:30-12 MW. Greene.

MPM 408, 508. Workshop: Employment Service Management Development. 6 hours. July 3-28.**MPM 412. Personnel Management.** (G) 3 hours.

Personnel management in the modern business organization; personnel policies and practices conducive to good relations with employees; personnel problems of small organizations. 10-12 TuTh. McBain.

MPM 436. Retail Store Management. (G) 4 hours.

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. 11 daily. Bliss.

MPM 503. Thesis. Hours to be arranged.**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. 2-4 MW. Greene.

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. 2-4 TuTh.

Chemistry

Visiting Faculty: DODSON, REESE.

Instructors: BARTANEN, CRUMLEY.

Ch 320. Elementary Quantitative Analysis. 5 hours.

Lectures on the fundamentals of quantitative analysis; laboratory work devoted mainly to volumetric analysis. Intended to suit the needs of secondary teachers and others not intending to major in chemistry; secondary teachers may enroll in Ch 429; see below. 10 MTuWTh; Laboratory 2-5 MTuTh. Dodson.

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.

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. Special sections to be arranged for summer institute participants. Reese, Crumley, Bartanen.

Ch 419. **Advanced General Chemistry.** (g) 4 hours.

Reese.

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

Lectures on the fundamentals of quantitative analysis; laboratory work devoted mainly to volumetric analysis. Intended to suit the needs of secondary teachers and others not intending to major in chemistry. 10 MTuWTh; Laboratory 2-5 MTuTh. Dodson.

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

Lectures on the fundamental principles of organic chemistry and types of organic reactions; laboratory work on representative procedures. Intended for teachers of science in secondary schools and others not majoring in chemistry. 11 MTuWTh; Laboratory 2-5 W and additional period to be arranged. Dodson.

Economics

Professors: LORWIN, MACY.

Visiting Professor: HUDSON.

Associate Professors: ALLEN, CAMPBELL.

Instructor: FIESER.

Ec 201. **Principles of Economics.** 3 hours.

Economic resources and institutions; income determination and economic stabilization; money and banking; government operations. 10 MTuWTh. Fieser.

Ec 407. **Seminar: Principles and Problems of Government Finance.** (g) 3 or 4 hours.

Basic issues involved in financing government. Theory and its application to contemporary problems of Federal, state, and local units. 9 MTuWTh. Macy.

Ec 407. **Seminar: Main Currents of Economic Thought.** (g) 4 hours.

The major innovations in economic ideas from Adam Smith to J. M. Keynes. Emphasis on broad currents of thought and their impact on policy. 11 Daily. Campbell.

Ec 417. **Contemporary Economic Problems.** (g) 4 hours.

Selected current economic problems in the United States; analysis and evaluation of proposed solutions. 8 Daily. Fieser.

Ec 450. **Comparative Economic Systems: The Soviet Economy.** (g) 3 hours.

First four weeks, June 19-July 14. Analysis of organization and performance of the Soviet economy, with emphasis on planning, structure of the economy, the rate of growth, and foreign trade. 10-12 MW. Allen.

Ec 451. **Comparative Economic Systems: Capitalism.** (g) 2 hours.

Second four weeks, July 17-August 11. Evaluation of the theory and development of the capitalistic system, with emphasis on its changing structure and characteristics; analysis of modern criticism of capitalism. 10 Daily. Allen.

Ec 489. American Economic History. (G) 3 hours.

Economic development of the United States in the twentieth century: economic institutions, industrial growth, labor, industrial relations, wartime economic organization, public policies and regulation, foreign economic programs. 10 MTuWTh. Lorwin.

Ec 501. Research. Hours to be arranged.

Allen, Macy.

Ec 503. Thesis. Hours to be arranged.

Allen, Macy.

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

Allen, Macy.

Ec 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. May not be taken for credit by advanced-degree candidates in economics. 8-10 Daily. Campbell, Dean, Foskett, Gastil, Straughan.

Ec 524. Economic Growth and Development: Africa. 3 hours.

First four weeks, June 19-July 14. Problems of economic development of Africa, with special reference to the present and potential capabilities of low-income countries, the role of private capital and international agencies, and limitations and prospects for African economic growth. 8-10 TuTh. Chudson.

Education

Visiting Faculty: AULD, BATTLE, BELDIN, BROWN, CANDLAND, DREIKURS, ELLER, FREEHILL, GILLET, HALL, HOGG, IVINS, JOLLY, LUCAS, MILLER, PURDOM, SANDERS, SEKERAK, SIMMONS, D. WOOD.

Professors: BREEN, CASTELL, CLARKE, DUBIN, FOSKETT, HEARN, HINES, JACOBSON, KAMBLY, MACY, PELLEGRIN, ROMNEY, TOPE, H. WOOD.

Associate Professors: CAMPBELL, DEAN, DILS, GOLDHAMMER, HILL, LOWE, RUMMEL, SOHA.

Assistant Professors: BERRYHILL, DYKSTRA, GASTIL, KEHL, LALLAS, LOVELL, MATTSON, PRICE, SCHMINKE, STRAUGHAN, SUTTLE, TEN BRINKE, THOMPSON, WILLIAMS.

Instructors: CRAGO, KARP, ELICH, GIVEN, HAMERLYNCK, LEEDER, MANEY, NORTON, ROSS, WATSON.

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. 1 MTuWTh. Price.

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

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

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

Integrates the subject matter and experiences included in Ed 311 and 312; acceptable instead of these two courses for certification. Understanding children's behavior at various developmental levels; learning theories applicable

to classroom situations; various forces affecting learning and conditions upon which learning most efficiently takes place; methods of understanding children in groups. Prerequisite: Psy 201. 8-10 MTuWTh. Elich.

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

First four weeks, June 19-July 14. 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. 3-5 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. 11 MTuWTh. Breen.

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. 2 Daily. Castell.

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

Examination of educational philosophies proposed by recent leaders and critics of American educational theory and practice: Dewey, Hutchins, the progressives, etc. 11 Daily. Castell.

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

Second four weeks, July 17-August 11. 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. 3-5 MTuWTh. Patterson.

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

First four weeks, June 19-July 14. Behavior changes during pre-adolescence and adolescence, in relation to physiological development and social and cultural factors. Emphasis on personal and social adjustment. 3-5 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. 2 MTuW. Hines.

***Lib 491. Storytelling.** (G) 3 hours.

Second four weeks, July 17-August 11. 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. 10-12 MTuWTh. Ladley.

Ed 501. Research. Hours to be arranged.

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

Ed 501. Research: Field Studies. Hours to be arranged.

Ed 503. Thesis. Hours to be arranged.

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

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.

Second four weeks, July 17-August 11. The teacher's role in guiding student publications in the secondary school; all phases of student newspaper and yearbook work. 1-3 Daily. Johnstone.

* Additional library courses are listed on pages 53-54.

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. 10 Daily. Wales.

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

First four weeks, June 19-July 14. 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. 8:30-12; 1-4 Daily. H. Wood, staff.

Ed 565. Curriculum Foundations. 3 hours.

Implications of basic social, philosophical, and psychological factors in curriculum planning and organization; historical background; techniques of curriculum planning. 9 MTuWTh. Price.

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. 2 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, 312. 9 MTuWTh. Schminke.

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, 312. 10 Daily; Laboratory. 1-3 M. 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. 11 MTuWTh. Brown.

Lib 490. Children's Literature. 3 hours.

First four weeks, June 19-July 14. An introductory course, designed to give elementary-school teachers and librarians an acquaintance with children's books and their use in the curriculum. 10-12 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. 1 MTuWTh. Candland.

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

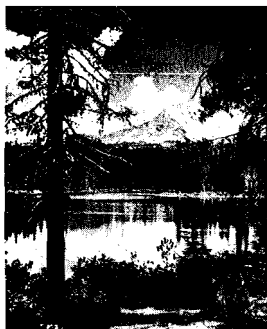
The place of science in the elementary school, with particular reference to the value of science in the lives of children; selecting and organizing content, coordinating science with elementary-school activities; methods and materials; room and equipment. 10 Daily. Kambly.

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:

Rogue River and the Oregon Coast: Leaving Eugene on Saturday July 16, the tour will follow the rugged Oregon coast to the mouth of the Rogue River at 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.



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.

**FOR
THE
FAMILY**

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 two major exhibits during the summer. The month of June will feature a Northwest Wilderness Exhibit by the Sierra Club. During July and August the gallery will present an exhibit of scale model horsedrawn wagons, made by Ivan Collins, designer at the University of Oregon Physical Plant.

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.

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. 9 MTuWTh. Candland.

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. 8 MTuWTh. Schminke.

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. 8 MTuWTh. Brown.

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. 9 MTuWTh. Schminke.

Ed 553. Elementary-School Curriculum. 3 hours.

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. 10 MTuWTh. Candland.

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

Intended for mature students 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. 11 MTuWTh. Suttle.

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, 312. 8 MTuWTh. Kambly.

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

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. 1 MTuWTh. Ivins.

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

First four weeks, June 19-July 14. 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. 1-3 MTuWTh. Ladley.

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

Post session, August 13-25. Aims and objectives of the student council organization, group processes, council problems and projects; evaluation of the council's program; designed especially for student council advisers; open to others on consent of instructors. Daily. Hearn, D. Wood, staff.

Ed 508. Workshop: Teaching Geography in the Junior High School. 3 hours.

First four weeks, June 19-July 14. A workshop for present and prospective teachers of geography and/or social studies in the junior high schools of

Oregon. The workshop will deal with the types and kinds of geographical knowledge that should be taught at the junior high school level and the methods by which this material can be presented most effectively. Students will work collectively on preparation of materials to be used in their own teaching situation. This workshop is also recommended for 4th and 5th year students in education. 1-3 Daily. Jolly.

Ed 522. Secondary-School Curriculum. 4 hours.

First four weeks, June 19-July 14. Survey of the secondary-school curriculum; trends and outstanding practices in organization, content, methodology, materials, and evaluation; problem approach to specific subject areas. 8-10 Daily. Hearn.

Ed 523. School Activities. 4 hours.

Second four weeks, July 17-August 11. 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. 8-10 Daily. D. Wood.

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

Second four weeks, July 17-August 11. 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. 1-3 Daily. Hearn.

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

First four weeks, June 19-July 14. Designed for administrative and supervisory personnel as well as for classroom teachers. Provides an opportunity for students to become familiar with research and to witness and participate in actual demonstrations in the teaching of literature, grammar, and composition. Prerequisite: teaching experience or consent of instructor. 1-3 Daily. Kehl.

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

Second four weeks, July 17-August 11. 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. 1-3 Daily. Hall.

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

Second four weeks, July 17-August 11. Selection of materials; demonstrations, use and care of meters, microscopes; science test construction; devices for instructional use. Prerequisite: teaching experience or consent of instructor. 1-3 Daily. Bartanen.

Ed 596. Methods in Secondary-School Social Studies. 4 hours.

First four weeks, June 19-July 14. Emphasis on social studies objectives, the unit method of teaching, social studies materials, and methods of evaluation. Opportunity for teachers to prepare materials to use in their classroom. Open to experienced junior and senior high-school teachers. 10-12 Daily. Williams, Miller.

Corrective and Remedial Education

In order to be assured of a place in the summer remedial practicums (Ed 409, Ed 509), students must contact W. R. Hill, Director, Remedial Clinic, School of Education, University of Oregon before June 1, 1961.

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. Concurrent registration in Workshop: Corrective Reading (Ed 408) required. Prerequisite: consent of instructor. 8 Daily. Gillett.

Ed 409. Practicum: Corrective and Remedial Education (Elementary). (G) 3 hours.

Supervised clinical experience in the remediation of learning difficulties of elementary-school pupils; emphasis on remedial instruction in reading and other basic skill deficiencies. Diagnosis as case demands. Prerequisite: Ed 465 or Ed 468; consent of instructor. 2-4 Tu; daily practicum hour to be arranged. Hill, Hogg, staff.

Ed 409. Practicum: Corrective and Remedial Education (Secondary). (G) 3 hours.

Emphasis on remediation of learning difficulties of secondary-school pupils. 2-4 Tu; daily practicum hour to be arranged. Hill, Hogg, staff.

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

Introduction to the nature and treatment of extreme learning difficulty; survey of principles, practices, and materials pertinent to diagnosis and correction of under-achievement in spelling, writing, and arithmetic. Pertinent to problems encountered at both the elementary- and secondary-school level. 9 MTuWTh. Beldin.

Ed 468. Diagnostic and Remedial Techniques in Reading. (G) 3 hours.

Study of reading deficiency and its remediation; nature of the deficient reader, patterns of skill disability, diagnostic and remedial principles, programs, practices, and materials in reading. Pertinent to problems encountered at both the elementary- and secondary-school level. 10 MTuWTh. Hogg.

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

Basic principles of reading instruction; nature and scope of the total reading program; methods, materials, and organization of the developmental and corrective reading programs in high school and college. 1 MTuWTh. Brown.

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

Research and practices relating to the reading process and reading instruction; the nature and development of readiness, word power, integration of meaning, reading-learning efficiency, measurement of reading. 8 MTuWTh. Hill.

Ed 507. Seminar: Problems in Remedial Education. 2-3 hours.

Research and other empirical evidence pertinent to current problems and practices in remedial education. Designed to give advanced graduate students an opportunity for intensive study. Prerequisite: consent of instructor. 2-4 Th. Hill, Hogg.

Ed 508. Workshop: Corrective Reading. 4 hours.

Opportunities for classroom teachers to improve their reading programs through practical experience with children. Not open to students working toward advanced degrees in the field of reading. Concurrent registration in Seminar: Corrective Reading (Ed 407) required. Prerequisite: consent of instructor. 9-12 Daily. Gillett.

Ed 508. Workshop: Problems in High-School Reading. 2-3 hours.

Opportunities for secondary teachers, administrators, and reading specialists to explore recent developments in secondary-school reading programs. Emphasis on practices and materials pertinent to reading in the regular classroom setting as well as in the special program. Students enrolling for 2 hours of credit will meet daily from 9 to 4 for the first week of the session (August 14-18) for lectures, demonstrations, group problem solving, and individual study. Students enrolling for 3 hours of credit will initiate personal projects in high-school reading during the first week of the workshop and will meet with Dr. Hill during the second week (August 21-25) to complete the projects. 9-4 MTuWThF. Eller, Hill, staff.

Ed 509. Practicum: Corrective and Remedial Education (Elementary). 3 hours.

Emphasis on diagnosis of learning difficulty. Requires a more advanced and independent level of work than Ed 409. Prerequisite: consent of instructor.

2-4 Tu; daily practicum hour and diagnostic assignments to be arranged. Hill, Hogg, staff.

- Ed 509. Practicum: Corrective and Remedial Education (Secondary).** 3 hours.
Emphasis on diagnosis of learning difficulty. 2-4 Tu; daily practicum hour and diagnostic assignment to be arranged. Hill, Hogg, staff.

Special Education

- Ed 407. Seminar: Teaching the Mentally Retarded (Elementary).** (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. 1 Daily. Sanders, Karp.

- Ed 407. Seminar: Teaching the Mentally Retarded (Junior High).** (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. 1 Daily. Simmons.

- 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. 2-5 MTuTh. Lucas.

- Ed 409. Practicum: Teaching the Mentally Retarded (Elementary).** (G) 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). Prerequisite: consent of instructor. 8:30-12 TuWThF. Sanders, Karp.

- Ed 409. Practicum: Teaching the Mentally Retarded (Junior High).** (G) 3 hours.

Observation and teaching of a class for the mentally retarded in the junior high 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). Prerequisite: consent of instructor. 8:30-12 TuWThF. Simmons.

- Ed 409. Practicum: Clinical Procedures in Education.** (G) 3 hours.

Assessment of children with learning difficulties. Preparation of statements of preferred behavior for any given child; collection and analysis of information; communication of information to teachers and parents; evaluation of the clinic process. Prerequisite: consent of instructor. 2-5 TuTh. Mattson, Watson.

- Ed 439. 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. 9 MTuWTh. Lovell.

- 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. 11 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. 2-4 MW. Dreikurs.

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

The psychology, education, and guidance of the mentally retarded child. 9-11 M; 2-4 W. Mattson.

Ed 507. Seminar: Adlerian Theory for Physicians. 3 hours.

Historical consideration of the contributions of Alfred Adler to the behavioral sciences as they relate to the practice of medicine; emphasis on the application of Adler's principles to current practices in community mental health and parent-child counseling. Open only to persons practicing medicine or with advanced standing in the behavioral sciences. Prerequisite: consent of instructor. 8-10:30 p.m., W. Dreikurs.

Ed 507. Seminar: Adlerian Theory. 3 hours.

A 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. (Will be offered only if there is insufficient enrollment in Seminar: Adlerian Theory for Physicians.) Prerequisite: Ed 463 and advanced standing in the behavioral sciences. 8-10:30 p.m., W. Dreikurs.

Ed 508. Workshop: Program for the Able and Gifted. 3 hours.

July 17-23. Administration of special-educational programs for the talented, the educationally alert, and the gifted; administrative problems of obtaining community support, and of the establishment, maintenance, and expansion of such programs. Selection of teacher personnel and pupils. 9-12; 1-3 Daily. Freehill.

Ed 508. Workshop: Curriculum Materials for the Mentally Retarded. 3 hours.

Post session, August 14-25. The development of materials of instruction for teaching the mentally retarded. Students assigned by the Oregon State Department of Education. Applications should be made to the Special Services Section, State Department of Education, State Library Building, Salem. 9-12; 1-3 Daily. Sanders.

Ed 509. Practicum: Clinical Procedures in Education. 3 hours.

Same as Ed 409 except the student is expected to function more independently of supervision. Prerequisite: a practicum in clinical procedures at the 409 level and consent of instructor. 1-5 TuTh. Mattson, Watson.

Educational Psychology

Ed 407. Seminar: 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. 10 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. 9 MTuWTh. Thompson.

Ed 512. Research Procedures in Education. 3 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. 1 TuWThF. Rummel.

Ed 515. Educational Statistics. 3 hours.

Use and interpretation of elementary statistical techniques, with applications in educational research; 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. 2 MTuWTh. Clarke.

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

Intensive study of the purposes, uses, administration, scoring, and interpretation of group tests commonly used in public schools and colleges; testing of achievement, aptitudes, interests, and personality. Designed primarily for advanced students in educational psychology, human development, psychometrics, and counseling. Prerequisite: Ed 424. 3-5 WF. Lowe.

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. 8 MTuW. Lovell.

Ed 564. Mental Tests. 4 hours.

Selection, administration, and interpretation of individual tests; intensive study of problems in testing exceptional and extremely deviate children. Prerequisite: Ed 424. 8 Daily. Watson.

School Counseling

Ed 409. Practicum: Procedures in Family Counseling. (G) 2 hours.

Open only to students preparing to be specialists in the field. Various functioning areas of Adlerian family counseling; study of and participation in the work of the playroom supervisor, recorder, intake interviewer, socio-dramatist, and receptionist. Emphasis on the organization and administration of family counseling programs. Prerequisite: Ed 463, Ed 507 (Adlerian Theory), consent of instructor. 1-4:30 Tu. Dreikurs, Lowe.

Ed 409. Practicum: Family Counseling. (G) 4 hours.

Open only to students planning to be specialists in the field. Application of Adlerian principles of family counseling and the role of family counseling in education. Maximum opportunity to observe and discuss the counseling procedure; minimal opportunities for actual counseling experience. Prerequisite: Practicum: Procedures in Family Counseling (Ed 409); consent of instructor. 2-4:30 TuTh. Dreikurs.

Ed 409. Practicum: Secondary-School Counseling. (G) 4 hours.

Open only to students in programs leading to specialization in secondary-school counseling. Observation, staffing of cases, counseling, case writing, testing. Counseling sessions are conducted in the University Counseling Center. Prerequisite: consent of instructor. 1-5 MW. Lallas, Lowe.

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. 10 MTuWTh. Ivins.

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

Designed primarily for students preparing for positions as counselors. Study of current materials and trends in educational and vocational guidance. Prerequisite: Ed 424, Ed 485. 11 MTuWTh. Ivins.

Ed 509. Practicum: Family Counseling. 4 hours.

Open only to students preparing to be specialists in the field. Same as Ed 409, except that the student must have had extensive experience in the actual counseling process. Prerequisite: Practicum: Family Counseling (Ed 409); consent of instructor. 2-4:30 TuTh. Dreikurs.

Ed 509. Practicum: Secondary-School Counseling. 4 hours.

Same as Ed 409 except that the student is expected to work with greater independence of immediate supervision. Prerequisite: consent of instructor. 1-5 MW. Lallas, Lowe.

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. 11 MTuWTh. Lallas.

Rehabilitation Counseling

Ed 409. **Practicum: Rehabilitation Counseling.** (G) Hours to be arranged.

Instruction and supervised practice in counseling the disabled either in the University Counseling Center or a community agency engaged in offering service to the disabled. Case writing, testing, observation, counseling, and staffing. Prerequisite: consent of instructor. Thompson.

Ed 509. **Practicum: Rehabilitation Counseling.** Hours to be arranged.

Same as Ed 409 except that the student is expecting to function with a minimum of supervision. Prerequisite: Ed 409, consent of instructor. Thompson.

Educational Administration

Ec 407. **Seminar: Principles and Problems of Government Finance.** (g) 3-4 hours.

Basic issues involved in financing government; theory and its application to contemporary problems of Federal, state, and local units. 9 MTuWTh. Macy.

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

For advanced graduate students; draws from the literature in the related fields of business administration, economics, social psychology, sociology, and political science; emphasis on fundamental research underlying human behavior as a basis for the theory and practice of administrative behavior. 10-12 MTuWTh. Jacobson, Dubin, Dykstra.

Ed 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. 8-10 Daily. Foskett, Campbell, Gastil, Dean, Straughan.

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

Theory and practice of school personnel administration; development of principles and procedures in recruitment, selection, terms of employment, assignments, orientation, in-service education, appraisal, promotion, salary programs, tenure, leaves, separation, public relations, and professional ethics. 8 MTuWTh. Dils.

Ed 507. **Seminar: School Surveys.** 3 hours.

Field experience in the application of survey and administrative research procedures in actual school situation. Goldhammer.

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

Research and theoretical analysis of politics in various communities focused on decisions affecting education and the schools. Agger.

Ed 508. **Workshop: Elementary-School Administration.** 6 hours.

Second four weeks, July 17-August 11. A workshop for experienced administrators. Simulated materials depicting an actual school situation will be used as the basis for group discussions and evaluations of developmental procedures, the techniques of decision making, administrative problems and relationships, and the role of the elementary school as a part of a school system in a specific community. Enrollment limited to 25 participants; and only experienced elementary-school principals and superintendents admitted. 8-12 Daily. Goldhammer, staff.

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

First two weeks, June 19-30. Enrollment open to school principals, supervisors, and superintendents only. Principles and functions of a guidance program; developing, staffing, and evaluating guidance services at all levels in the public schools. 10-12; 1-3 Daily. Battle.

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. 1 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. 10 Daily. Hines.

Ed 574. School Supervision. 3 hours.

Purpose and plans for supervision; use of tests, diagnosis of pupil difficulty, etc., in both elementary and secondary schools. Prerequisites: Ed 311, Ed 312, or teaching experience. 11 MTuWTh. Price.

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. 2 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. 9 Daily. Hines.

English

Visiting Faculty: McNEIR.

Professor: SVENDSEN.

Associate Professors: SHERWOOD, WEGELIN.

Assistant Professors: KRAUS, OSWALD, WEATHERHEAD.

Instructors: CANDELARIA, HYNES, LAWRENCE, STRANGE.

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

Fundamentals of English composition. 8 TuWThF. Strange.

Wr 216. Expository Writing. 3 hours.

Summer students may take Wr 216 in place of either Wr 112 or Wr 113 to satisfy the composition requirement. 10 TuWThF. Strange.

Eng 102. Survey of English Literature (Second Term). 3 hours.

Milton to Wordsworth. 9 TuWThF. Lawrence.

Eng 105. Appreciation of Literature (Second 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. 11 TuWThF. Hynes.

Eng 202. Shakespeare (Second Term). 3 hours.

11 TuWThF. Lawrence.

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

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

Eng 407. Seminar: Contemporary American Poetry. (G) 3 hours.

11 TuWThF. Weatherhead.

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

For students expecting to teach English in high school. Practice in writing and a review of the rules of composition. Recommended for satisfaction of the high-school teaching requirement in English. Prerequisite: Wr 111, 112, 113. 8 TuWThF. Candelaria.

Eng 430. Literature of the Renaissance. (G) 3 hours.

Renaissance poetry. 10 TuWThF. Candelaria.

Eng 434. Spenser. (G) 3 hours.

9 TuWThF. McNeir.

Eng 436. Advanced Shakespeare. (G) 3 hours.

8 TuWThF. McNeir.

Eng 476. Literary Foundations of American Life (Second Term). (G) 3 hours.

Authors whose writings have largely given shape to American thought. Two consecutive terms satisfy the high-school teaching-field requirement in American literature. 9 TuWThF. Hynes.

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

For students interested in teaching high-school English. Training in comprehension and analysis of representative literary works. Readings from English and American literature, selected in part from state-adopted high-school texts. Does not apply toward the satisfaction of the minimum requirements for a major in English. 8 TuWThF. Svendsen.

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: Milton's Paradise Lost. 3 hours.

Time to be arranged. Svendsen.

Eng 507. Seminar: T. S. Eliot. 3 hours.

Time to be arranged. Weatherhead.

Eng 507. Seminar: International Novel. 3 hours.

Time to be arranged. Wegelin.

Eng 508. Workshop: Structural Linguistics and Traditional Grammar. 3 hours.

June 19-30. Topics: (1) Differences and similarities between structural linguistics and traditional grammar; (2) application of grammatical knowledge to writing. Part of the time will be devoted to the preparation of teaching materials. 10-12 Daily; 1-3 MWTh. Oswald, Sherwood, Kraus, guest lecturers.

Foreign Languages

Professor: BEALL.

Associate Professor: LEPPMANN.

Assistant Professors: BEKKER, DAVISON, KRATZ, STEUSSY.

Instructor: DESROCHES.

French

***RL 50. First-Year French.** 4 hours.

First four weeks, June 19-July 14. An introduction to the language stressing reading, comprehension of the spoken tongue, and the basic principles.

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

ples of French grammar. Equivalent to the first term of First-Year French given during the regular academic year. 8-10 Daily. Desroches.

***RL 51. First-Year French. 4 hours.**

Second four weeks, July 17-August 11. Continuation of RL 50. Equivalent to the second term of First-Year French given during the regular academic year. 8-10 Daily. Desroches.

RL 405. Reading and Conference. 3 hours.

Grammar and composition; intended especially for teachers and prospective teachers; particular attention to the use of idioms and to stylistics. Students who desire readings in French literature should consult the instructor. Time to be arranged. Beall.

RL 503. Thesis. Hours to be arranged.

Beall.

RL 505. Reading and Conference. 3 hours.

Grammar and composition; intended especially for teachers and prospective teachers; particular attention to the use of idioms and to stylistics. Students who desire readings in French literature should consult the instructor. Time to be arranged. Beall.

German

***GL 50. First-Year German. 4 hours.**

First four weeks, June 19-July 14. The fundamentals of grammar, oral drill, translation of prose selections. Equivalent to the first term of First-Year German given during the regular academic year. Recommended for students who wish to acquire a reading knowledge. 8-10 Daily. Leppmann; 10-12 Daily. Bekker.

***GL 51. First-Year German. 4 hours.**

Second four weeks, July 17-August 11. Continuation of GL 50. Equivalent to the second term of First-Year German given during the regular academic year. 8-10 Daily. Leppmann; 10-12 Daily. Bekker.

GL 101. Second-Year German. 4 hours.

First four weeks, June 19-July 14. Review of grammar and composition; reading of selections from representative authors; conversation. 8-10 Daily. Kratz.

GL 102. Second-Year German. 4 hours.

Second four weeks, July 17-August 11. Continuation of GL 101. Equivalent to the second term of Second-Year German given during the regular academic year. 8-10 Daily. Kratz.

GL 320. Scientific German. 3 hours.

Intensive practice in the reading of scientific texts of increasing difficulty. Prerequisite: consent of instructor. 11 MWF. Bekker.

GL 405. Reading and Conference. 3 hours.

Readings and reports in selected periods of German literature individually arranged with instructor. For German majors. Time to be arranged. Leppmann.

GL 503. Thesis. Hours to be arranged.

Leppmann.

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

Readings and reports in selected periods of German literature, individually arranged with instructor. For graduate students. Time to be arranged. Leppmann.

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

Russian

***SL 50. First-Year Russian.** 4 hours.

First four weeks, June 19-July 14. The elements of the Russian language. Elementary reading, composition and conversation. 8-10 Daily. Steussy.

***SL 51. First-Year Russian.** 4 hours.

Second four weeks, July 17-August 11. Continuation of SL 50. Equivalent to the second term of First-Year Russian given during the regular academic year. 8-10 Daily. Steussy.

SL 314. Russian Composition and Conversation. 2 hours.

Exercises in pronunciation, comprehension, and composition; ample opportunity for conversation. Prerequisite: consent of instructor. 11 MWF. Steussy.

Spanish

***RL 60. First-Year Spanish.** 4 hours.

First four weeks, June 19-July 14. An introduction to Spanish, stressing speaking and reading. Exercises in elementary composition. Equivalent to the first term of First-Year Spanish given during the regular academic year. 8-10 Daily. Davison.

***RL 61. First-Year Spanish.** 4 hours.

Second four weeks, July 17-August 11. Continuation of RL 60. Equivalent to the second term of First-Year Spanish given during the regular academic year. 8-10 Daily. Davison.

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

Readings in basic writings in Hispanic culture, with particular emphasis on the language and exercises in Spanish composition. Time to be arranged. Davison.

RL 503. Thesis. Hours to be arranged.

Davison.

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

Readings in basic writings in Hispanic culture with particular emphasis on the language and exercises in Spanish composition. Time to be arranged. Davison.

Geography

Associate Professor: PATTON.

Assistant Professor: MARTIN.

Visiting Faculty: WEBB, JOLLY.

Geog 105. Introductory Geography. 3 hours.

A general introduction to the field of geography. Physical geography emphasized. 8 MTuWTh. Patton.

Geog 106. Introductory Geography. 3 hours.

A general introduction to the field of geography. Regional geography emphasized. 9 MTuWTh. Webb.

Geog 302. Geography of North America. 3 hours.

Physical and economic geography of the North American continent. 8 MTWTh. Webb.

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

Geog 401, 501. Research: Geography Summer Field Camp. 9 hours.

Five weeks, June 12-July 14. Methods and techniques of geographic field investigation. Field work will be carried out along the Oregon coast and in arid central Oregon. Martin.

Geog 426. Geography of Europe. (G) 3 hours.

Some of the special problems of Europe today studied in light of the geography of the continent. This course is particularly recommended for teachers of geography and social studies in the junior and senior high schools of Oregon. 10 MTuWTh. Patton.

Geog 461. Geography of Latin America. 3 hours.

A regional geography of Latin America with special emphasis on eastern South America. This course is particularly recommended for teachers of geography and social studies in the junior and senior high schools of Oregon. 11 MTuWTh. Webb.

Geog 503. Thesis. Hours to be arranged.**Geog 505. Reading and Conference.** Hours to be arranged.
Patton.**Ed 508. Workshop: Teaching Geography in the Junior High School.** 3 hours.

First four weeks, June 19-July 14. A workshop for present and prospective teachers of geography and/or social studies in the junior high schools of Oregon. The workshop will deal with the types and kinds of geographical knowledge that should be taught at the junior high school level and the methods by which this material can be presented most effectively. Students will work collectively on preparation of materials to be used in their own teaching situation. This workshop is also recommended for 4th and 5th year students in education. 1-3 Daily. Jolly.

Geology

Professors: BALDWIN, YOUNGQUIST.

Associate Professor: LUND.

Assistant Professor: MCMATH.

Geol 103. General Geology. 4 hours.

The main events of earth history. Lectures, laboratory, field trips. 11 MTuWTh; laboratory arranged. Geol 101, 102 not prerequisite. Youngquist.

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, laboratory, field trips. 9 MTuWTh; laboratory to be arranged. Youngquist.

Geol 406. Field Geology. 9 hours.

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

Geol 455. Problems in Physical Geology. (g) 3 hours.

Survey course designed primarily for teachers of earth science. Origin and composition of rocks and minerals, structure of earth, vulcanism, earthquakes, molding of landscape by physical processes. Lectures, field trips. 10 MTuWTh. Lund, Youngquist.

Geol 456. Problems in Regional Geology. (g) 3 hours.

Time to be arranged. Lund.

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. McMath.

Health and Physical Education

Visiting Faculty: ALLENBAUGH, MORLAND, NAGEL, VAN ANNE.

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

Associate Professors: PUCKETT, RHODA.

Assistant Professors: AMOS, BRUMBACH, MUNSON.

Instructors: OLSON, WILEY.

Workshops

PE 408. **Workshop: Secondary-School Physical Education.** 1-7 hours.

June 19-July 7. 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:

Individual and Dual Sports. 1-2 hours. For women. Theory and practice of tennis, badminton, archery. Tactics in game play, instructional materials. 8-10 Daily. Puckett, staff.

Team Sports. 2 hours. For women. Theory and practice of soccer, speed-a-way, and basketball, including elementary and advanced skills, team strategies, rules, officiating procedures, standards of competition, and teaching techniques. 10-12 Daily. Woodruff.

Contemporary Dance. 1-2 hours. For men and women. Erick Hawkins from New York, guest artist in dance, will conduct the second two weeks of the dance area of the workshop (June 26-July 7). Laboratory work in the analysis and application of dance materials and methods suitable for teachers and students of the dance; theoretical aspects of the dance, dance as an art form, and dance in education. Students may enroll for these two weeks only for 1 hour of credit if they are concurrently enrolled in the Dance Section of the Summer Academy of Contemporary Arts. 10-12 Daily. Dougherty.

Folk Dance. 1 hour. For men and women. Beginning and advanced materials. Dance analysis and methods of instruction adapted to the needs of students. 1-2 Daily. Van Anne.

Dual Sports. 1 hour. Theory and practice in tennis. Designed for teachers. Problems in evaluation, programming, and instruction. Application of principles of movement and psychology of motor learning. 1-2 Daily. Puckett.

Tumbling and Rebound Tumbling, Apparatus, Gymnastics. 1-2 hours. The first week will be directed toward instruction in tumbling at the secondary-school level. Three days of the second week will be under direction of a visiting instructor in rebound tumbling. The remainder of the session will feature Ingrid Nagel, visiting teacher from Cologne, Germany, with emphasis on theory and practice of teaching gymnastics, with and without apparatus. Elementary and advanced performance techniques. 2-4 Daily. Van Anne, Nagel.

Apparatus and Gymnastics. 1 hour. June 29-July 7. 8-10; 2-4 Daily. Nagel.

PE 508. Workshop: Secondary-School Physical Education. Hours to be arranged.

An analytical study and application of scientific principles of movement as related to specific activity areas. Directed study and independent project work in addition to laboratory participation. Areas include team sports, contemporary dance, and dual sports.

PE 508. Workshop: Elementary-School Physical Education. 3 hours.

June 12-17. Designed to assist elementary-school teachers with their physical-education responsibilities. The emphasis will be on the relationship of child developmental patterns to teaching materials and methods of implementation. The class will meet in the gymnasium for a variety of learning experiences evolving from demonstrations, discussions, lectures, and practical teaching experience. 9-12; 1:30-4:30 Daily. Allenbaugh.

Coaching Clinic

PE 406. Coaching Clinic. 2 hours.

June 12-16. 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. Engle.
	1:15- 3:30 p.m. MTu.
Basketball Coaching.....	8:30-11:45 a.m. ThF.
	1:15- 3:30 p.m. WThF.
Track Coaching.....	3:30- 5:30 p.m. MTuWTh. Bowerman.
	7:00- 9:00 p.m. M.
Baseball Coaching.....	3:30- 5:30 p.m. MTuWTh. Kirsch.
	7:00- 9:00 p.m. Tu.
Wrestling.....	8:30-11:45 a.m. ThF. Majors.
	1:15- 3:30 p.m. WThF.
Care and Prevention of Injuries.....	7:00- 9:00 p.m. WTh. Slocum.

Physical Education (Professional Courses)

PE 221. Games for the Elementary School. 2 hours.

Creative games, games of low organization, fundamental sport skills. 2 MTuWTh. Munson.

PE 222. Rhythms for the Elementary School. 2 hours.

The dance program for children in the elementary school, grades one through six. Locomotor and nonlocomotor movement; dramatization and creative dance studies; singing games; traditional dance skills and folk dances for children of the intermediate grades. 3 MTuWTh. Munson.

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 420. Methods in Elementary-School Physical Education. 3 hours.

Program development; methods of instruction in elementary-school physical education. The purposes and requirements of the elementary physical-education program, with emphasis on program planning, methods, and materials of instruction. 8 TuWThF. Munson.

PE 439. Contemporary Dance. (G) 1-2 hours.

June 26-July 7. Theory and demonstration of principles of abstraction, distortion, and amplification to arrive at new directions in movement, music and design for theater dance. Hawkins.

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

Use of tests and measurements in physical education, evaluation of objectives, programs and student achievement through measurement techniques. 10 TuWThF. Rhoda.

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.

Study of selected problems in the field of physical education.

PE 506. **Special Problems: Elementary-School Physical Education.** 3 hours.

Consideration will be given to problems of program planning, methods of teaching and evaluation. 8 TuWThF. Munson.

PE 507. **Seminar: Major Issues in Physical Education.** 3 hours.

First four weeks, June 19-July 14. Consideration will be given to the major issues in physical education in the United States. 7:30-9 a.m. Daily. Esslinger.

PE 507. **Seminar: Philosophy of Physical Education.** 3 hours.

A study of the underlying assumptions of the leading philosophies of education today, with specific reference to their effect upon programs of physical education. Special emphasis is given to the concepts of Heatherington, Williams, Nash, McCloy, Lee, and others who have contributed to the development of contemporary thought in physical education. 9 TuWThF. Morland.

PE 507. **Seminar: Organization and Administration of Physical Education.** 3 hours.

The case-method approach utilized for the analysis of different types of administrative problems that are faced in the field. Based upon situations drawn from actual experience; emphasis on the development of insights and a methodology appropriate to democratic ends. 11 TuWThF. Morland.

PE 517. **Methods of Research.** 3 hours.

Study of the methods and techniques of research in health, physical education, and recreation; practice in application to problems of current interest. 3 MTuWTh. Rhoda.

PE 523. **Physical Education for the Handicapped.** 3 hours.

The major crippling conditions, such as cerebral palsy and poliomyelitis, and functional disturbances, such as cardiac and respiratory conditions; planning the physical-education program for these conditions. 3 MTuWTh. Poley.

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

The use of statistical analysis in interpretation of physical growth and physical performance data and in experimental studies and the construction of tests. Central tendency, variability, normal probability, reliability, and correlation. 2 MTuWTh. Clarke.

PE 541. **Statistical Methods in Physical Education.** 3 hours.

The use of statistical analysis in the interpretation of physical growth and physical performance data and in experimental studies and the construction of tests. Analysis of variance, partial and multiple correlation, regression, chi square, and special correlational methods. Prerequisite: PE 540. 4 MTuWTh. Clarke.

PE 552. **Administration of Athletics.** 3 hours.

Historical development of athletics and their control. Place of athletics in education; purposes, administrative control, management, operational policies, care of equipment and facilities. 10 TuWThF. Sprague.

PE 556. **Administration of Buildings and Facilities.** 3 hours.

Building layout and equipment; the relationship of the various functional units—equipment service, dressing facilities, activity spaces, administrative units, permanent and dismantlable equipment. 2 MTuWTh. Rhoda.

PE 557. **Supervision of Physical Education for City Supervisors.** 3 hours.

The purpose of supervision; supervision of staff, facilities, and areas; departmental organization, regulations, and policies. 11 TuWThF. Sprague.

PE 559. Professional Preparation in Physical Education. 3 hours.

Historical development of professional preparation in the field of physical education; curriculum, evaluation, and recruitment in the development and conduct of teacher education programs in physical education. 8 TuWThF. Brumbach.

PE 567. Motor Development in Infancy and Childhood. 3 hours.

First four weeks, June 19-July 14. Study of the acquisition of motor skills during the first decade of life. Prerequisite: PE 446 or Psy 460, or consent of instructor. 12 Daily; 7-8:30 MW. Poley.

PE 573. Gross Anatomy Basic to Physical Performance. 3 hours.

Principles and facts in the fields of myology, osteology, arthrology, neurology, and angiology of importance to college teachers of physical education who give instruction in anatomy, kinesiology, and physiology of exercise. Application to body movement and performance. Prerequisite: Bi 371, 372, PE 472, 473; or equivalent. 7-9 TuTh. Sigereth.

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

Analysis of various physical-education activities to determine their relation to laws of physics concerning motion, force, inertia, levers, etc. 1 MTuWTh. Sigereth.

Physical Education (Service Courses)

PE 180, 190, or PE 380, 390. Tennis. 1 hour.

For men and women. 3 or 4 MTuWTh. Brumbach.

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

For men and women. 3-5 MW or TuTh. Olson.

PE 180, 190, or PE 380, 390. Swimming. 1 hour.

For men and women. 11 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. 1 MTuWTh. Amos.

HE 463. Social Health. 3 hours.

Social hygiene content, methods, and materials appropriate for junior and senior high schools. Prerequisite: senior standing in health education or biology; graduate standing in education or physical education. 9 TuWThF. Amos.

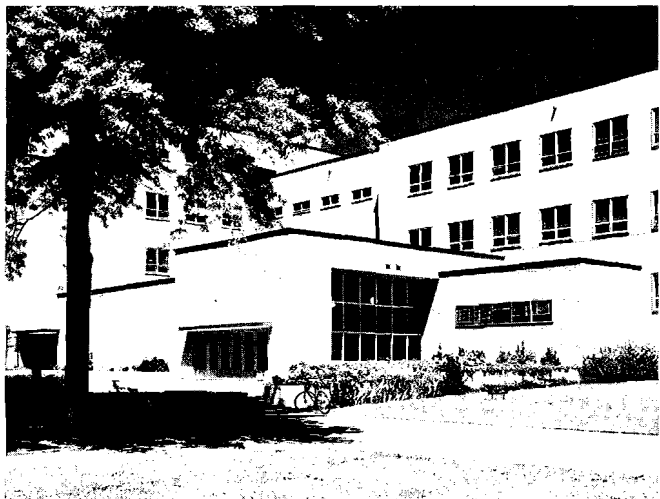
HE 464. Health Instruction. 3 hours.

Methods and materials in health instruction for junior and senior high schools. Special emphasis on the construction of health teaching units for Oregon secondary schools. Prerequisite: HE 361, 362, 363 or consent of instructor. 8 TuWThF. Amos.

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. 1 MTuWTh. Brumbach.

HE 501. Research. Hours to be arranged.



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.



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

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

HE 506. **Special Problems.** Hours to be arranged.

Study of selected problems in the field of health education.

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, methods of instruction in driver education. Prerequisite: secondary-school teaching credential and basic driver-education courses. 11 TuWThF. Haar.

HE 543. **Advanced Health Instruction.** 3 hours.

Organization of the public school health instruction program; for health teachers, supervisors, and coordinators. Basic steps in the development of the program. Prerequisite: HE 464 or consent of instructor. 10 TuWThF. Haar.

HE 552. **Administration of School Health Education.** 3 hours.

Organization and administration of the school health program. 2 MTuWTh. Haar.

History

Professors: BREEN, LORWIN, SHANAHAN, STEPHENSON.

Associate Professors: SMITH, SORENSON.

Visiting Professor: VARG.

Hst 101. **History of Western Civilization.** 3 hours.

Origin and development of Western civilization—ancient and mediaeval periods. First term of a year sequence. 9 MTuWTh. Breen.

Hst 203. **History of the United States.** 3 hours.

Survey of United States history since 1896. 8 MTuWTh. Stephenson.

Hst 418. **Studies in Western Civilization.** (g) 3 hours.

Political, economic, and intellectual problems in the history of Western civilization from the Middle Ages to 1815. Intended primarily for teachers; attention to aspects that are particularly applicable to teaching assignments. 11 MTuWTh. Sorenson.

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. 11 MTuWTh. Breen.

Hst 446. **Modern Germany.** (G) 3 hours.

The German Empire, the republican experiment of 1918-33, the National Socialist regime, World War II and after. 9 MTuWTh. Shanahan.

Hst 465. **British Empire.** (g) 3 hours.

History of British colonial policy, with special emphasis on Africa in the twentieth century. 8 MTuWTh. Smith.

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

Social, political, economic, and intellectual changes in Great Britain in the twentieth century. 10 MTuWTh. Smith.

Hst 475. **American Foreign Relations.** (G) 3 hours.

United States foreign policy in the twentieth century, with particular emphasis on relations with the U.S.S.R. and the emergent nations of Asia and Africa. 9 MTuWTh. Varg.

Hst 486. **Early History of the American People.** (G) 3 hours.

The American Revolution, the founding of the Republic, the drafting of the Constitution, the initial phase of the Federalist period. 11 MTuWTh. Varg.

Hst 489. **American Economic History.** (G) 3 hours.

Economic development of the United States in the twentieth century; economic institutions, industrial growth, labor, industrial relations, wartime economic organization, public policies and regulation, foreign economic programs. 10 MTuWTh. Lorwin.

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. Four or eight weeks. Smith.

Hst 507. **Seminar: The Civil War Period in American History.** 3 hours.

Stephenson.

Hst 507. **Seminar: Problems of American Foreign Relations.** 3 hours.

Varg.

Hst 507. **Seminar: Totalitarian Governments and the International Community, 1917-1939.** 3 hours.

Particular attention will be given to the foreign policies of Germany (ca. 1933-41) and the U.S.S.R. (ca. 1927-53). Shanahan.

Hst 520. **Historical Method.** 3 hours.

Introduction to problems and methods of research and writing in history. Time to be arranged. Lorwin.

Hst 530. **European History: Problems and Interpretations.** 3 hours.

Readings, reports, and group discussions of major trends, problems, and interpretations of the Renaissance and Reformation periods of European history. Time to be arranged. Breen.

Journalism

Visiting Faculty: JOHNSTONE.

Professors: DUNCAN, PRICE.

Associate Professors: HULTENG, WALES, WEBB.

Assistant Professors: FREEMESSER, NELSON.

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: newspapers, broadcasting, magazine, outdoor, direct mail. 8 Daily. Wales.

J 361. **Reporting.** 4 hours.

First four weeks, June 19-July 14. Basic training in news gathering and writing. 10-12 MTuWTh. Price.

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

J 407. **Seminar for Teachers.** (g) 8 hours.

A special four-week seminar for high-school journalism teachers and advisers will be offered from June 19 to July 25, under the sponsorship of the Newspaper Fund, Inc., a foundation supported by the *Wall Street Journal*.

The seminar is independent of the established program of Newspaper Fund fellowships, under which many high-school journalism teachers have engaged in summer study over the past three years. Interested teachers may apply for either the seminar or a regular fellowship.

Inquiries should be addressed to the Newspaper Fund, Inc., 48 Wall Street, New York 5, New York.

The special seminar will consist of four weeks of concentrated work in a wide range of journalistic subjects. The objective is to increase the teacher's knowledge and understanding of the field itself as well as to provide information and guidance for the high-school publications adviser.

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

Second four weeks, July 17-August 11. The teacher's role in guiding student publications in the secondary school; all phases of student newspaper and yearbook work. 1-3 Daily. Johnstone.

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. 1 MTuWTh. Duncan.

J 494. 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. 10 Daily. Wales.

J 501. Research. 1-3 hours.

J 503. Thesis. 1-9 hours.

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

Librarianship

Visiting Faculty: HOKANSON.

Associate Professors: FINDLEY, ROECKER.

Assistant Professors: BAKER, LADLEY, PIERRON.

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 481. Bibliography and Reference. (G) 3 hours.

Second four weeks, July 17-August 11. Study of reference materials and services, and of correct bibliographical form; practical problems in the use of reference books in school libraries. 8-10 MTuWTh. Hokanson.

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

Second four weeks, July 17-August 11. 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. 1-3 MTuWTh. Hokanson.

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

First four weeks, June 19-July 14. Instruction and practice in simplified procedures for the acquisition, preparation, and classification and cataloging of books and related library materials. 3-5 MTuWTh. Baker.

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

Second four weeks, July 17-August 11. 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 486 or consent of instructor. 10-12 MTuWTh. Pierron.

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

First four weeks, June 19-July 14. 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. 1-3 MTuWTh. Ladley.

Lib 489. Principles of Book Selection. (G) 3 hours.

Second four weeks, July 17-August 11. Analysis of book selection criteria in the light of library objectives. Attention to reading habits and interests of adults, use of selection aids and reviewing media, and censorship. Practice in oral book reviewing and written annotations. 1-3 MTuWTh. Pierron.

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

First four weeks, June 19-July 14. An introductory course, designed to give elementary-school teachers and librarians an acquaintance with children's books and their use in the curriculum. 10-12 MTuWTh. Ladley.

Lib 491. Storytelling. (G) 3 hours.

Second four weeks, July 17-August 11. 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. 10-12 MTuWTh. Ladley.

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

First four weeks, June 19-July 14. Survey and evaluation of library materials in the fields of science and technology; emphasis on the nature and use of scientific literature, problems of scientific documentation, literature searching methods, and the compilation, classification, and reporting of information. 10-12 MTuWTh. Roecker.

Lib 496. The Library in the Modern Community. (G) 3 hours.

First four weeks, June 19-July 14. The history and development of the principal fields of public library service; major trends and problems, with special attention to public library management. 1-3 MTuWTh. Pierron.

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

Lib 512. Government Publications. 3 hours.

Second four weeks, July 17-August 11. The acquisition, organization, and use of government publications of the United States, selected foreign countries, and international organizations, with special attention to United States government documents. 10-12 MTuWTh. Findly.

Mathematics

Visiting Faculty: DIVINSKY, HIEBERT, JENNINGS.

Professors: MOURSUND, NIVEN.

Associate Professor: GHENT.

Assistant Professor: TRUAX.

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 plans to offer these courses on a rotating basis so that a student may complete all of them in at most four summers. Mth 478, Mth 498, Mth 569, and Mth 589 are being offered this summer. A special course, Mth 51, suitable for elementary school and junior high school teachers is offered every summer.

Each summer the special courses are supplemented by regular session courses and seminars which are of interest to teachers. See also the courses listed under Mathematics Institute. Teachers who are not in the institute may register for these courses with the approval of the director.

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. 8 Daily.

Mth 51. Mathematics for Elementary Teachers. 3 hours.

Elements of arithmetic, algebra, and geometry. A required course in the elementary teacher training program. 8 Daily. Mason.

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. 10 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. 9 Daily.

Mth 106. Introductory College Mathematics. 4 hours.

Principally analytic geometry. Prerequisite: trigonometry. 11 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. Time to be arranged.

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 Educational Statistics (Ed 515). Computing machines are available for student use. Prerequisite: consent of department. 10 MTuWTh.

Mth 478. Algebra. (g) 4 hours.

An extension of college algebra, theory of equations, cubics, quartics, approximation of roots, numerical methods, determinants, and other classical topics. 2 MTuWTh; 10 F. Divinsky.

Mth 498. Foundations of Mathematics. (g) 3 hours.

Elements of logic, the algebra of sets, partitions and counting, elements of probability, application and amplification as time permits. 1 MTuWTh. Truax.

Mth 501. Research. Hours to be arranged.

Mth 503. Thesis. Hours to be arranged.

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

Mth 507. Seminar: Calculus of Several Variables. 3-4 hours.

Basis theory, partial differentiation, multiple integrals, and other selected topics. Prerequisite: calculus. Time to be arranged.

Mth 507. Seminar: Algebra. 3-4 hours.

Selected topics to be announced. Prerequisite: a course in introduction to modern algebra and consent of instructor. Time to be arranged. Divinsky.

Mth 507. Seminar. 1-4 hours.

For relatively mature graduate students. Topics to be announced. Time to be arranged.

Mth 569. Probability and Statistics. 3 hours.

Elementary probability, sampling theory, hypothesis testing, and other topics as time permits. Prerequisite: calculus. Time to be arranged.

Mth 589. Geometry. 4 hours.

Analytic geometry in 2, 3, 4 and n dimensions, with special attention to linear and quadratic curves and surfaces, combinatorial topology of curves and surfaces, regular polyhedra and their generalizations. Prerequisite: analytic geometry. 11 Daily. Jennings.

Mathematics Institute

The University has been granted funds by the National Science Foundation to hold a 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. Institute courses are open to teachers who are not stipend holders. Some of the institute courses parallel regular summer session courses. The courses listed below have been organized especially for the institute.

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. 9 Daily. Jennings.

Mth 480. Elementary Theory of Numbers. (g) 3 hours.

Properties of integers, linear Diophantine equations, congruences, Fermat's theorem, and other selected topics. 8 MTuWTh. Ghent.

Mth 590. Sequences and Series. 4 hours.

Sequences and series, representation of functions by series, computation of constants such as e and π and logarithmic and trigonometric tables. Prerequisite: calculus. 9 Daily. Moursund, Niven.

Music

Visiting Faculty: VAUGHT, WILSON.

Professors: KRATT, CYKLER.

Associate Professors: BOUGHTON, GREEN, KELLER, LEE, RISINGER.

Assistant Professors: COX, CUNNINGHAM, GUSTAFSON, HAMILTON, 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, voice, organ, and harpsichord, 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, organ, harpsichord, string instruments, orchestral and band instruments. Prerequisite: qualifying examination.

Piano—Green.

Woodwind Instruments—Cunningham.

Voice—Cox.

Brass Instruments—Lee.

Violin—Maves.

Organ and Harpsichord—Hamilton.

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. 11 MTuThF. Gustafson.

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. 2 MTuThF. Gustafson.

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.

First four weeks, June 19-July 14. 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. Time to be arranged. Boughton.

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. 8 MTuWTh. 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. 1 MTuWTh. Risinger.

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

For upper-division and graduate students in music education. 11 MWF. Keller.

Mus 407. Seminar: Orchestration. (G) 2 hours.

10 MWF. Keller.

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. 2 MWF. Keller.

Mus 407. Seminar: Polynesian Music. (G) 2 hours.

8 MWF. Vaught.

MuE 407. Seminar: Instrumental Survey—Woodwind Instruments. (G) 3 hours.

First four weeks, June 19-July 14. Problems in teaching woodwind instruments. Prerequisite: prior experience in the teaching of woodwind instruments, or consent of instructor. 1 Daily. Cunningham.

MuE 407. Seminar: Organization and Administration of Music in Public Schools. (G) 3 hours.

Second four weeks, July 17-August 11, 10-12 MTuThF. Wilson.

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

Second four weeks, July 17-August 11. The techniques of planning rehearsals and performances; arranging music for outdoor presentation; new trends. 1 Daily. Lee.

Mus 407. Seminar: Music 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. 9 MTuThF. Green.

Mus 407. Seminar: Style and Performance of Early Music. (G) 3 hours.

For instrumentalists, singer and others. 1-3 WTh. Hamilton.

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

Romantic period. 9 MTuThF. Vaught.

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

Study of methods of research in music, and application of research techniques to particular musical problems. Prerequisite: Mus 360, 361, 362 or consent of instructor. 11 MTuThF. Vaught.

Mus 439. Contemporary Music. (G) 1-2 hours.

June 26-July 7. 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. Dahl.

Mus 490. Applied Music. 1-2 hours.

Senior year. Continuation of Mus 390. For instructors, 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 532. Problems in Music Education. 3 hours.

Discussion of problems and issues in music education at all levels. Organization of field studies, research papers, and theses. Prerequisite: consent of instructor. 9 MTuThF. Gustafson.

Mus 590. Applied Music. 1-4 hours.

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

High-School Music Summer Sessions

Two special music summer sessions for high school students will be held on the campus: June 18-June 30 for band students; July 2-July 14 for orchestra students. 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, \$20.00. Room and board for each of the sessions, \$47.50.

Music Educators Summer Tour

A summer European study tour for music educators will be conducted by Dr. Edmund A. Cykler, professor of music, from June 12 through August 12. Credit may be earned in the courses listed below. For further information, write Dr. E. A. Cykler, School of Music, University of Oregon.

MuE 407. Comparative Music Education. (G) 3 hours.

A seminar in European music education methods. European practices in public school music education studied through a series of workshops, visitations, and conferences with leading music educators of Europe. Cykler.

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

A study of contemporary European music literature and performance in relation to the social and artistic forces of modern Europe. Cykler.

Philosophy

Professor: CASTELL.

Assistant Professor: DYKSTRA, ZWEIG.

Phl 203. Elementary Logic. 3 hours.

An introduction to the study of reasoning. How to recognize, analyze, criticize, and construct the main types of argument and proof. 9 MTuWTh. Zweig.

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. 11 MTuWTh. Zweig.

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

Educational philosophies proposed by recent leaders and critics of American educational theory and practice: Dewey, Hutchins, the progressives, etc. 11 MTuWTh. Castell.

Physics

Professors: EBBIGHAUSEN, ELLICKSON, POWELL.

Instructors: BARTANEN, BLUMENTHAL, CRUMLEY.

GS 105. Physical-Science Survey. 4 hours.

Elementary treatment of the chemistry and 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. 11 Daily. Ellickson.

Ph 417. Atomic Physics. (g) 3 hours.

Introduction to fundamental concepts, kinetic theory of matter, electronic structure of atoms and molecules, spectra, quantum physics. This course will be of particular interest to science teachers in the elementary and secondary schools. 10 MTuWTh. Ellickson, Blumenthal.

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. Blumenthal.

Ph 507. Seminar: Foundations of Physics. Hours to be arranged.

Powell, Bartanen, Crumley.

Political Science

Professor : GANGE.

Associate Professors : AGGER, DEAN, LINDE.

Assistant Professor : SUMMERS.

Instructors : BEST, FISZMAN.

PS 201. American Government. 3 hours.

Provisions and principles of the United States Constitution; how they were formulated and how they have developed in American government and politics. 10 Daily. Best.

PS 407, 507. Seminar: Introduction to the Legal Order. 4 hours.

Introduction to law as a means of social control. Functions of law: maintenance of public order, settlement of private disputes and resolution of social conflicts, execution of community policies. Law and social change. Courts and court procedures: sources and methods of legal decision, the adversary system. Different roles of public and private law. Some typical problems of legal philosophy. Political science and other social sciences are drawn upon for methods and findings pertinent to the study of judges, court proceedings, and other components of the legal process. Prerequisite: consent of instructors. 10-12 MTuWTh. Linde, Dean, Summers.

PS 407, 507. Seminar: Problems in Overseas Aid Administration. 3 hours.

Analysis of problems in foreign-policy implementation involving (a) the organization and functioning of American policy making and administrative procedures for overseas programs and (b) the requirements and capabilities in foreign governments and private organizations for cooperation with American and other foreign governments' policies and assistance programs. 10-12 TuTh. Gange.

PS 420. International Organization. (G) 4 hours.

The United Nations and contemporary issues, with special reference to Africa and Asia. 8 Daily. Best.

PS 427. Government and Politics of the Soviet Union. (G) 4 hours.

Institutions, politics, policies, and international relations of the U.S.S.R. 9 Daily. Fiszman.

PS 454. Competing Ideologies in the World Today. (G) 4 hours.

The struggle between communism and democracy to capture the minds of men, especially with the newly emerging nations. 11 Daily. Fiszman.

PS 503. Thesis. Hours to be arranged.

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

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

Research and theoretical analysis of politics in various communities focused on decisions affecting education and the schools. Time to be arranged. Agger.

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

For advanced graduate students. 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. 10-12 MTuWTh. Dubin, Jacobson, Dykstra.

PS 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. 8-10 Daily. Dean, Foskett, Campbell, Gastil, Straughan.

Psychology

Visiting Faculty: BILODEAU, McREYNOLDS.

Associate Professors: FOSMIRE, SUNDBERG.

Assistant Professors: PATTERSON, STRAUGHAN, VON HOLT.

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 the interpretation of test scores. 8 MTuWTh. Sundberg.

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

Second four weeks, July 17-August 11. Development of behavior and psychological activity through the prenatal period, infancy, and childhood; development of cognition, motivation, interests, skills, and personality; the acquisition of socialized patterns of living; influence of parental patterns and environmental conditions on personality development. 3-5 MTuWTh. Patterson.

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

First four weeks, June 19-July 14. Behavior changes during pre-adolescence and adolescence as related to social and cultural factors and to physical development. Emphasis on personal and social adjustment. 3-5 MTuWTh. Fosmire.

Psy 490. Psychology of Learning. (g) 3 hours.

Survey of fundamental principles of human learning and of means of research on learning, particularly as related to the work of teachers. 9 MTuWTh. Bilodeau.

Psy 507. Seminar: Theories of Motivation. 3 hours.

A critical survey of the different theories that have been proposed to account for the various human motives. Consideration will be given to the nativistic, affective, stimulus-response, psychoanalytic, developmental, and perceptual approaches. 10-12 MW. McReynolds.

Psy 507. Seminar: Human Learning. 3 hours.

Basic theory and research in learning, with overtones from Hull, Spence, and more recent contributors from "behavior theory." 1-3 MW. Bilodeau.

Psy 507. Seminar: Methods in Clinical Research. 3 hours.

A survey of special problems and methods in clinical psychological research. Emphasis on the problem of designing and developing improved tools for research in the clinical setting. 1-3 TuTh. McReynolds.

Psy 507. Seminar: Psychology of Creativity. 3 hours.

Exploration of the creative process; theories and research on imagination, problem solving, innovation, and the relationship of creativity to mental health. Prerequisite: courses in psychology, interest in research, and consent of instructor. 10-12 TuTh. Sundberg.

Psy 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. 8-10 Daily. Dean, Foscett, Campbell, Gastil, Straughan.

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 adult intelligence scale. 10 MTuWTh. von Holt.

Sociology

Professors: BERREMAN, FOSKETT, PELLEGRIN.

Associate Professor: BISNO.

Assistant Professor: JOHNSON.

Instructor: POLK.

Visiting Professor: HILL.

Soc 206. General Sociology. 3 hours.

The basic findings of sociology concerning the individual, culture, group life, social institutions, and social change. Third term of a three-term sequence. Prerequisite: Soc 204 or consent of instructor. 8 MTuWTh. Bisno.

Soc 307. Principles of Sociology. 3 hours.

Fundamental concepts and empirical findings in the field of sociology. Serves as a basis for upper-division work in sociology. Not open to students who have completed Soc 204, 205. 8 MTuWTh. Pellegrin.

Soc 309. American Society. 3 hours.

An analysis of American society in terms of its significant structural traits and their functions; major changes in American society and selected contemporary problems examined in their relation to institutional structures. 10 MTuWTh. Johnson.

Soc 338. Marriage and the Family. 3 hours.

The growth and development of the husband-wife relationship throughout the family life cycle. Special emphasis on the period from engagement through the birth of the first child. Prerequisite: Soc 204, 205 or Psy 201, 202; or consent of instructor. 9 MTuWTh. Hill.

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: Sociology of Religion.** (G) 3 hours.

Sociological analysis of religious belief and behavior; special attention to the relation between religious institutions and the larger societies of which they are a part. Prerequisite: Soc 204, 205 or Soc 307; or consent of instructor. 1-2:15 TuTh. Johnson.

Soc 407. Seminar: Sociology of Occupations. (G) 2 hours.

Analysis of occupational roles in modern American society. 9-11 Tu. Pellegrin.

Soc 466. The Family in American Culture. (G) 3 hours.

The dynamics of family interaction throughout the family life cycle. Prerequisite: 9 hours of sociology or consent of instructor. 11 MTuWTh. Hill.

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: Contemporary Research on Marriage and the Family.** 3 hours.

Critical survey of trends in marriage and family research, changes in topical emphases and in methods employed. Analysis of theoretical models and research methods developed for the study of the family. 1-2:15 MW. Hill.

Soc 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. 8-10 Daily. Foskett, Dean, Campbell, Gastil, Straughan.

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

For advanced graduate students. Draws from the literature in related fields of business administration, economics, social psychology, sociology, and political science. Particular emphasis on the fundamental research underlying human behavior as a basis for the theory and practice of administrative behavior. 10-12 MTuWTh. Dubin, Jacobson, Dykstra.

Soc 508. Workshop: Intergroup Relations. 3 hours.

June 20-30. 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 will be 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. 9-11; 1-3 Daily. Berreman.

Speech

Professors: ALY, ROBINSON, WOOD.

Associate Professor: KRETSINGER.

Assistant Professors: NOBLES, PECK, RAMEY.

Instructor: LEWIS.

Technician: MURPHY.

Sp 111. Fundamentals of Speech. 3 hours.

Projects in extempore speaking. Primary emphasis on content, organization, and adjustment to the speaking situation. 8 MTuWTh. Nobles.

Sp 211. Interpretation. 2 hours.

The application of the principles of oral reading to literature. 11 MTuW.

Sp 264, 265, 266. Production Workshop. 3 hours.

Practical experience in the construction, painting, and handling of scenery; lighting for plays. 1 MTuWTh. Peck.

Sp 351. Technique of Acting: Voice. 3 hours.

Problems in the use of voice in dramatic roles. 10 MTuWTh. Robinson.

Sp 408. Special Methods in Teaching Speech. 3 hours.

Planning the secondary-school course in public speaking. Consideration and practice of effective methods of speech instruction. 11 MTuWTh. Nobles.

Sp 437. Contemporary Television. (G) 1-2 hours.

July 10-21. Television as a contemporary art. An attempt will be made to develop a critical awareness of the potential and problems facing television in development towards an artistically and culturally significant medium. McGiffert.

Sp 445. Television Production. (G) 3 hours.

Problems and procedures in broadcast production; preparation and production of closed-circuit television programs. 11 MTuWTh. Kretsinger.

Sp 448. Radio-Television and the Public. (G) 3 hours.

The influence and importance of broadcasting as a social, political, and cultural force. 9 MTuWTh. Kretsinger.

- Sp 464. **History of the Theater.** (G) 3 hours.
A historical study of the theater from ancient times to the Renaissance. 9 MTuWTh.
- Sp 481. **Speech Pathology.** (G) 3 hours.
Symptoms, causes, and treatment of speech abnormalities; functional articulatory defects, delayed speech, emotional speech disorders. 9 MTuWTh.
- Sp 484, 485, 486. **Clinical Speech Therapy.** (G) 2-4 hours.
Supervised clinical work with speech-defective children and adults enrolled for testing, counselling and treatment in the Speech and Hearing Clinic. (Write to the Director, Speech and Hearing Clinic, University of Oregon, if you plan to register for this course in the summer session.) MTuWTh. Wood.
- Sp 489. **Audiology.** (G) 3 hours.
The auditory function, hearing impairment, and the education or re-education of persons with hearing loss; lip reading, speech and auditory training, psychology of deafness, school and vocational problems. 11 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: Principles of Oral Discourse.** 3 hours.
First four weeks, June 19-July 14. Principles of rhetorical theory and criticism applied in the study of the texts of speeches of historical significance. Daily. Aly.
- Sp 507. **Seminar: Literature of the Rhetorical Tradition.** 3 hours.
First four weeks, June 19-July 14. Masterpieces of oral discourse analyzed in terms of the canons of rhetoric. Daily. Aly.
- Sp 507. **Seminar: Directing the High School and College Forensic Program.** 3 hours.
2 MTuWTh. Nobles.
- Sp 507. **Seminar: Special Problems in Speech Pathology.** 3 hours.
1 MTuWTh.
- Sp 507. **Seminar: Directing the Dramatic Production.** 3 hours.
MTuWTh.
- Sp 507. **Seminar: Technical Problems in the Theater.** 3 hours.
MTuWTh. Peck.
- Sp 507. **Seminar: Problems in Radio-Television Research.** 3 hours.
MTuWTh. Kretsinger.
- Sp 507. **Seminar: Television in Education.** 3 hours.
MTuWTh. Kretsinger.
- Sp 508. **Workshop: Educational Television.** 4 hours.
June 12-23. 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. Lewis, Murphy, Ramey.
- Sp 513. **Recent Rhetorical Criticism.** 3 hours.
The revival of the Aristotle-Cicero canon; the impact of contemporary literary criticism on rhetoric; the relevance of content analysis to rhetorical criticism. 1 MTuWTh. Nobles.
- Sp 551. **Theory of Dramatic Production.** 3 hours.
Theory of acting. 8 MTuWTh. Robinson.

World Affairs Program

The Fourth Annual World Affairs Program will be held on the University campus from June 19 to July 14. It will consist of two parts: (1) seminar 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 University.

PS 407, 507. Seminar: Problems in Overseas Aid Administration. 3 hours.

Analysis of problems in foreign policy implementation involving (a) the organization and functioning of American policy making and administrative procedures for overseas programs and (b) the requirements and capabilities in foreign governments and private organizations for cooperation with American and other foreign governments' policies and assistance programs. 10-12 TuTh. Gange.

Ec 450. Comparative Economic Systems: The Soviet Economy. (g) 3 hours.

Analysis of organization and performance of the Soviet economy, with emphasis on planning, structure of the economy, the rate of growth, and foreign trade. 10-12 MW. Allen.

Ec 524. Economic Growth and Development: Africa. 3 hours.

Problems of economic development of Africa, with special reference to the present and potential capabilities of these low-income countries, the role of private capital and international agencies, and limitations and prospects for African economic growth. 8-10 TuTh. Chudson.

Juvenile Courts Program

A Juvenile Courts Summer School will be held on the University campus the week of July 10 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 10-15. 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. Polk, staff.

Summer Academy of Contemporary Arts

The third annual Summer Academy of Contemporary Arts will be held on the University campus during the 1961 summer session. A series of two-week courses devoted to various aspects of contemporary arts will be taught by dis-

tinguished lecturers and practicing artists. The focus of all courses will be on present trends and significant work since World War II; lectures will be supplemented by class discussions and observation. As a culminating part of each course, the artist-in-residence or commentator will present a performance appropriate to his field.

The faculty of the Summer Academy of Contemporary Arts will include Erick Hawkins, nationally known dancer, choreographer, and teacher; Jack McGiffert, producer of *Camera III*, script writer, and consultant for educational television for CBS; Theodore Roszak, nationally known sculptor and an authority on contemporary sculpture; Ingolf Dahl, internationally known composer, pianist, and conductor.

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 each two-week course. The courses are open to auditors as well as students registered 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 of art with which the course is concerned. To earn 1 hour of credit, attendance at all lectures is mandatory. In all courses, a bibliography is furnished as a guide to the student's future reading. Fees for regular University credit or for audit are \$22.00 for each two-week session.

Some of the course lectures are scheduled from 3:00 to 4:00 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 periods from 2:00 to 3:00 p.m. Attendance at the discussion periods is optional.

All Summer Academy lectures are open to the public. The fee for visitors is \$5.00 for each two-week session; tickets will be on sale at the door or at the University Business Office. Visitors' comments or questions are welcome during the question sessions. 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.

PE 439. Contemporary Dance. (G) 1-2 hours.

June 26-July 7. Theory and demonstration of principles of abstraction, distortion, and amplification to arrive at new directions in movement, music, and design for theater dance. Hawkins.

AA 439. Contemporary Sculpture. (G) 1-2 hours.

July 24-August 4. A survey of contemporary sculpture. Relation of American contemporary movements to international trends. Demonstrations involving basic technical approach to metal sculpture. Roszak.

Mus 439. Contemporary Music. (G) 1-2 hours.

June 26-July 7. A survey of contemporary American music. Changing concepts and their effects on materials and individual practice. Special attention to trends of the last decade.

Sp 437. Contemporary Television. (G) 1-2 hours.

July 10-August 21. Television as a contemporary art. An attempt will be made to develop a critical awareness of the potential and problems facing television, in its development toward an artistically and culturally significant medium. McGiffert.