

University of Oregon

June 18 to August 10

SUMMER
SESSION

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UNIVERSITY OF OREGON BULLETIN

OREGON STATE SYSTEM OF HIGHER EDUCATION

University of Oregon

June 18 to August 10

UNIVERSITY OF OREGON BULLETIN

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SUMMER

SESSION

1956

Eugene, Oregon

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Oregon State System of Higher Education

The Oregon State System of Higher Education, as organized in 1932 by the State Board of Higher Education following a survey of higher education in Oregon by the U. S. Office of Education, includes all the state-supported institutions of higher education. The several institutions are elements in 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, Oregon College of Education at Monmouth, Southern Oregon College of Education at Ashland, Eastern Oregon College of Education at La Grande, and Portland State College at Portland. The University of Oregon Medical School and the Dental School are located in Portland.

Each of the institutions provides the general studies fundamental to a well-rounded education. At the three colleges of education, and at Portland State College, students who do not plan to become teachers may devote their time to general studies or semiprofessional work.

At the University and the State College two years of unspecialized work in liberal arts and sciences are provided on a parallel basis in the lower division. 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.

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, Eugene, Oregon.

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University of Oregon Summer Session 1956

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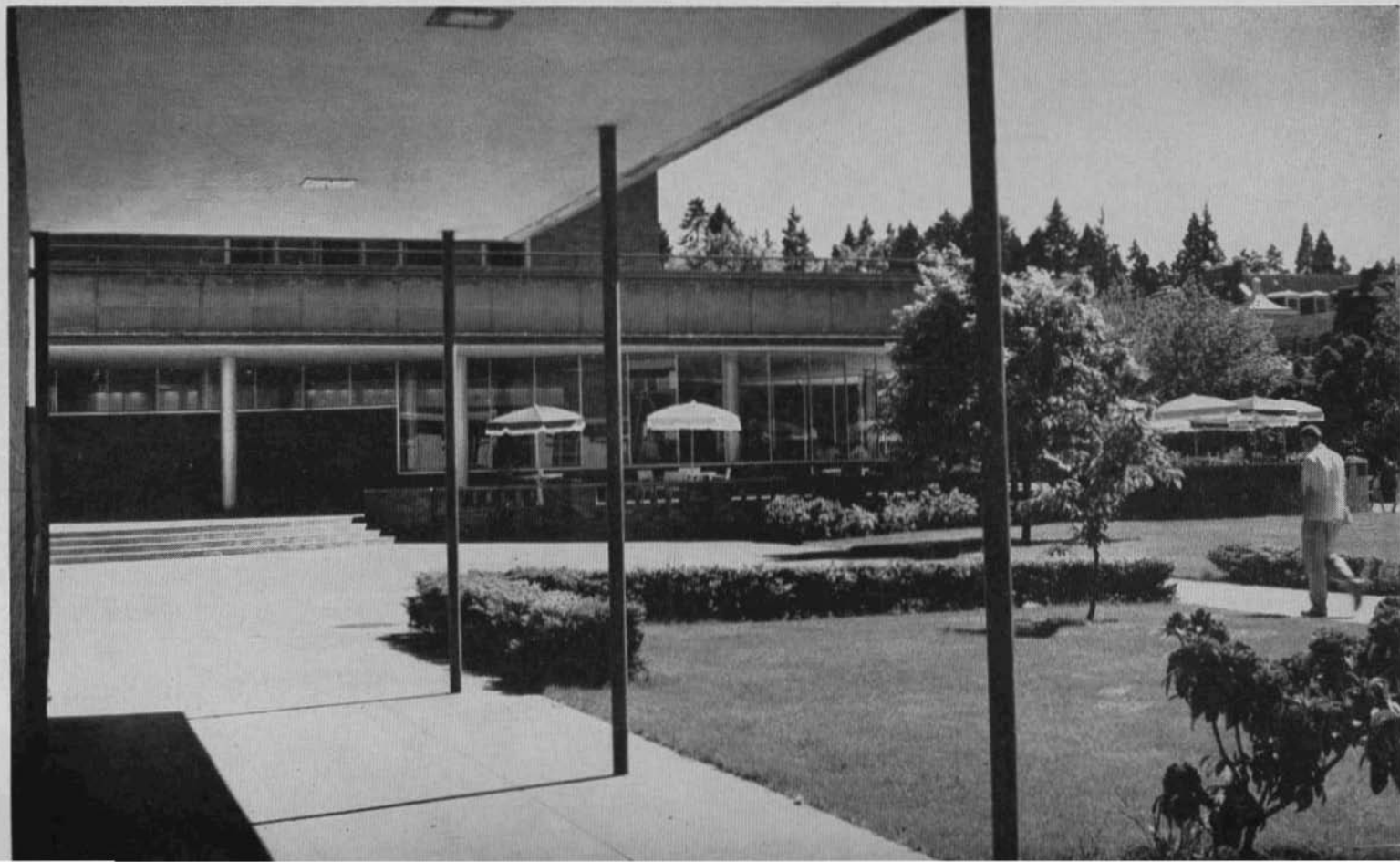
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THE CAMPUS, LOOKING WEST PAST THE ADMINISTRATION BUILDING



Summer Session Calendar

June 18—August 10, 1956

June 18.....	Registration
June 19.....	Classes begin
June 20.....	Last day for payment of registration fee without penalty
June 27.....	Last day for adding a course
July 4.....	Independence Day, holiday
July 14.....	Last day for withdrawal from a course
July 16.....	Last day for filing doctor's theses
July 27.....	Last day for filing master's theses
August 8.....	Last day for master's and doctor's oral examinations
August 9-10.....	Final examinations

The Summer Program

The fifty-second annual summer session of the University of Oregon will be organized as a single session of approximately eight weeks between June 18 and August 10, 1956.

Undergraduate Work

A large selection of lower-division courses will be offered in the 1956 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.

Maximum Load. Undergraduate students may enroll for a maximum of 12 term hours in the summer session.

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 Director of Admissions before registering, preferably before coming to the campus.

Preparation. For a graduate major, the equivalent of an undergraduate major in the same field is required.

Credit Requirements. For the departmental master's degree the University requires a program of study of not less than 45 term hours, with a minimum of 30 term hours in the major subject. No major is required for the degrees of M.A. in General Studies and M.S. in General Studies.

Grade Requirements. An accumulation of 9 term hours with grades below B in the student's major field disqualifies him for further graduate work toward the master's degree. To be eligible for a master's degree, a student must present 45 term hours of graduate work with grades of A or B.

Residence Requirement. Three terms of residence are required for the master's degree. A maximum of 15 term hours (one term) earned in other divisions of the Oregon State System of Higher Education is accepted toward the satisfaction of this requirement for the M.A. or M.S. degree. For the M.A. in General Studies and the M.Ed., a maximum of 33 term hours of work may be completed in the extension centers of the State System.

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, and does not shorten the residence requirement, except as noted above.

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

Qualifying Examination and Program. During the first term of work toward the master's degree, the student should file a tentative program, planned in conference with his major adviser. It is expected that the qualifying examination will be taken during the first term of residence, or before 15 term hours have been earned.

Admission to Candidacy. A graduate student is admitted to candidacy for an advanced degree only after he has passed his qualifying examination. At least 12 term hours of graduate work must be completed after admission to candidacy.

Maximum Course Load. The maximum summer course load for a graduate student is 12 term hours. In unusual cases the student may petition to carry more than the maximum load.

Thesis Registration. All graduate students working for an advanced degree for which a thesis is required must register for Thesis (503). The candidate for the M.A. or M.S. degree with thesis earns 9 term hours of credit for this work; a first draft of the thesis must be accepted by the adviser before the student can register for the final 3 hours.

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

Opportunities for Teachers

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

Secondary-School Teaching. The state of Oregon will grant a one-year provisional certificate for secondary-school teaching to a person who holds a bachelor's degree and who has completed a minimum of 17 term hours of work of edu-

cation and a course in Oregon history. 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 college courses at the upper-division or graduate level. On the completion of 45 term hours of work as a graduate student, the teacher is eligible for regular certification. A total of 32 term hours of work in education, including undergraduate and graduate courses, is required for the regular certificate.

Master of Science in General Studies. The University offers a program of graduate study planned especially for students working toward the satisfaction of the requirements for regular high-school teacher certification. The program leads to the degree of Master of Science in General Studies. The program is administered by the dean of the Graduate School and supervised by the Committee on General Studies.

Enrollment 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 or departments in which he proposes to work, and must complete prerequisites for specific courses. The requirements for the degree of Master of Science in General Studies 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 graduate courses in two departments or fields of study, including not less than 15 term hours in each field. At least 6 term hours must be in 500 courses in one of the two departments; the student's program must be planned to provide well-rounded knowledge, and must not be made up of scattered, unrelated courses.

(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 work in education completed by the student as an undergraduate. (The state certification requirement specified 9 term hours of work in education beyond the bachelor's degree and 6 term hours in education electives, which may be taken either at the undergraduate or the graduate level; students who take these electives as graduate students must complete a total of 15 term hours of graduate work in education to qualify for the degree of Master of Science in General Studies.)

(2) Satisfaction of the regular requirements of the Graduate School for the master's degree; a thesis is not required.

Other Graduate Programs. In addition, the University offers departmental master's degrees in journalism, English, history, social science, foreign languages, mathematics, biological science, physical science, geography and geology, speech, health and physical education, music, art, and business. Work toward these degrees is admirably fitted to the needs 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 degree is the Master of Education, which fits the needs of the superintendents, deans, principals, and elementary teachers. For a few high-school teachers who have very few education credits and who must concentrate in this field, the program leading to this degree may be the most satisfactory.

Elementary Education. A complete undergraduate program in child growth and development and methods in elementary schools will be offered in the 1956 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. Practice teaching in the elementary schools will not be offered in the summer of 1956.

Graduate Work in Elementary Education. Graduate work in elementary education will be offered in the summer session. 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. Effective July 1, 1956, 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.

Federal Veterans Aid for Teachers. Federal veterans educational aid regulations provided that, beginning July 25, 1951, a veteran receiving aid under the G.I. Bill of Rights must pursue his course of education or training continuously. There is, however, a special regulation for regularly employed teachers; a teacher will be considered to have satisfied the "continuous pursuit" rule if (1) he has attended a 1955 summer session of at least five weeks' duration, and (2) has been regularly employed as a teacher during the school year 1955-56.

A teacher who is eligible for veterans educational aid under this regulation may receive aid for work toward a graduate degree in the 1956 summer session and in succeeding summer sessions, provided he continues to be regularly employed as a teacher during the school year and provided he attends summer sessions of at least five weeks' duration.

Teachers who wish to receive veterans aid for study at the 1956 summer session will be required, at the time of registration, to submit evidence, certified by a responsible official of the institution where he was employed as a teacher during 1955-56, that he was so employed; the statement must show the beginning and ending dates of the 1955-56 session. This aid program ends on July 25, 1956.

Registration Procedure

Students will register for the summer session on Monday, June 18; classes will begin Tuesday morning, June 19. Registration will begin at 8 o'clock in the morning and continue until 4 o'clock in the afternoon. Students will receive registration material and further instructions at the Registrar's Office. (Education majors may obtain registration material either at the School of Education or at the Registrar's Office.)

Graduate students in education who reside in Eugene or vicinity are urged to obtain their registration materials at the School of Education on Friday, June 15, or on Saturday morning, June 16. 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 18.

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 5:00 p.m., Monday through Friday.

Registration fee \$65.00

Students registering for 7 or more term hours of work pay this fee. There is no additional out-of-state fee for the summer session.

Part-time fee \$16.00 to \$48.00

1 or 2 term hours, \$16.00; 3 term hours, \$24.00; 4 term hours, \$32.00; 5 term hours, \$40.00; 6 term hours, \$48.00.

Late-registration fee, per day \$1.00
Full-time undergraduate and graduate students pay the late-registration fee if they register after June 20.

Change-of-program fee \$1.00
Assessed for changes made after June 27.

Graduate qualifying examination fee \$1.00 to \$15.00

Staff fee, per term hour \$3.00
On approval by the President's Office, full-time staff members may register for a maximum of 4 term hours in summer courses for this special fee.

Fees for children receiving instruction in Clinical School \$20.00

Music fees see page 46

Fee Refunds. 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 of classes.....	Refund for all fees over \$6.50
Withdrawing within first two weeks.....	Refund of all fees over \$16.25
Withdrawing after two weeks and before beginning of fifth week.....	Refund of all fees over \$32.50
Withdrawing after beginning of fifth week.....	No refund

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

Board and Room

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

Blankets and bed linen, and the laundry of these items, are furnished by the halls; students furnish their own towels. Applications for reservations of dormitory rooms must be sent to the Director of Housing, Business Office, University of Oregon, Eugene, before the opening of the summer session.

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 session rate or occasionally at per-meal rates.

Most of the dormitory rooms available are for multiple occupancy; the few single rooms will be reserved for those who first make requests for single-room accommodations.

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 reservations must be made in advance.

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, Room & Board Multiple	Single
Eight-week session	\$57.00	\$72.00	\$97.00	\$154.00	\$169.00
Four-week session	28.50	36.00	48.50	77.00	84.50
Three-week course	21.25	27.00	36.50	57.75	63.50
Two-week course	14.25	18.00	24.25	38.50	42.25
One-week course	9.00	12.00	13.25	22.25	25.25
Per day	2.00	2.50	2.50†	4.50	5.00

* Three meals per day, 6 days per week; Sundays and holidays, breakfast and dinner.
† Rates per meal: breakfast, 50 cents; lunch, 80 cents; dinner, \$1.20.

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

	<i>Multiple</i>	<i>Single</i>
At the opening of session.....	\$ 77.00	\$ 84.50
Prior to July 14.....	77.00	84.50
	\$154.00	\$169.00

A penalty charge of \$1.00 per day, up to a maximum of \$5.00, is made if the first installment is not paid by June 27 or if the second installment is not paid by July 14.

Refunds of board or 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 5:00 p.m.

The dormitories will be open for the summer session at 1:00 p.m. on Sunday, June 17. The first meal served will be breakfast on Monday, June 18. The dormitories will close Saturday noon, August 11. The last meal served will be the evening meal on Friday, August 10.

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

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

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) Freshman students are required to live in the University dormitories; other lower-division men and other undergraduate women are required to live either in the dormitories or in houses maintained by organized University living groups (fraternities, 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 apartment houses, 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 gymnasiums, swimming pools, and tennis courts; they will be furnished with swimming suits, lockers, towels, and soap.

Murray Warner Collection of Oriental Art. The Museum of Art, housing the Murray Warner Collection of Oriental Art and the Museum of Art Library, a collection of 5,000 volumes on Oriental art and culture, will be open to students during part of the summer.

Two special conducted tours of the Murray Warner Collection will be arranged during the session; one tour will give attention to Japanese materials, the other to Chinese materials. Advance registration for the tours is required. Students wishing to participate should see Dr. Wallace S. Baldinger, curator of the Museum of Art, during the first week of the session.

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.

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

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 8:30 a.m. to 12:30 p.m., Monday through Friday.

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.

Teacher Placement. The School of Education maintains a Placement Service primarily to help graduates of the University obtain suitable teaching positions. This service is extended also to older teachers who have been connected with the University, including students in the summer session.

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.

Description of Courses

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.

WORKSHOPS AND CONFERENCES

- Ed 508. **Workshop: Family Financial Security Education.** 6 hours. June 18-July 13.
- Ed 508. **Workshop: Counseling Adolescents in Premarriage and Family Problems.** 3 hours. June 18-29.
- Ed 508. **Workshop: The Mentally Retarded.** 3 hours. June 18-August 10.
- Ed 508. **Workshop: County Superintendent.** 2 hours. July 23-28.
- Ed 508. **Workshop: Library Service and the Curriculum.** 3 hours. July 30-August 10.
- Ed 508. **Workshop: Curriculum Project.** 4 hours. July 16-August 3.
- Ed 508. **Workshop: Teaching Methods in Geography.** 3 hours. July 9-20.
- Eng 507. **Seminar: Reading and Writing Workshop.** 3 hours. June 19-July 3.
- PE 406. **Workshop: Dance, Tumbling, and Sports.** 1-4 hours. June 18-29.
- PE 406. **Workshop: Contemporary Dance.** 2 hours. June 18-29.
- PE 406. **Special Problems: Coaching School.** 2 hours. June 11-16.
- PE 411, 412, 413. **Workshop: Elementary-School Physical Education.** (g) 9 hours. June 18-August 10.
- Soc 508. **Workshop: Intergroup Relations.** 3 hours. July 9-20.
- High-School Music Summer Session.** June 24-July 13.

ANTHROPOLOGY

Professor: CRESSMAN. Visiting Faculty: BENNETT, SCHEANS.

- Anth 408. **Field Work in Anthropology.** (G) 9-12 hours.
Archaeological and ethnological field work in Oregon. Prerequisite: consent of instructor. Cressman, Scheans.
- Anth 414. **Race and Culture.** (G) 3 hours.
Racial classifications and comparisons; the biological base of culture; attitudes toward race in human relations. Prerequisite: 9 hours in anthropology or consent of instructor. MTuWTh, 11:00. 17 Anthropology. Bennett.
- 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 process considered in detail. Daily, 8:00-10:00. 104 Education. Bennett, Bisno, Campbell, Luchins, Seligman, Tope.

ARCHITECTURE AND ALLIED ARTS

Associate Professors: BALDINGER, FERENS, WILKINSON. Assistant Professors: BALLINGER, BRYAN, BURGNER. Instructors: JAMES, MOURSUND. Visiting Faculty: WHITE.

Architecture

- AA 387. **Architectural Design.** 4 hours minimum, 6 hours maximum credit.
No-grade course. Planning and design, beginning a three-year sequence of intensive study in programming, theoretical analysis, and problem solution. Instruction includes field trips, seminars, and discussions. Prerequisite: AA 287. Daily, 9:00-5:00. Criticism by appointment.
- AA 401. **Special Studies.** Hours to be arranged.

- AA 405. **Seminar.** Hours to be arranged.
- AA 487. **Architectural Design.** 4 hours minimum, 8 hours maximum credit.
No-grade course. Second year of planning and design sequence. Students work in the drafting room under individual observation of staff members. Field trips, seminars. Prerequisite: 12 term hours in AA 387 or equivalent. Daily, 9:00-5:00. Criticism by appointment.
- AA 587. **Architectural Design.** 4 hours minimum, 10 hours maximum credit.
No-grade course. Third year of planning and design sequence. The student assumes greater individual responsibility in the execution of design and planning studies. Field trips, seminars. Prerequisite: 18 term hours in AA 487 or equivalent. Daily, 9:00-5:00. Criticism by appointment.

Applied Design

- AA 255. **Ceramics.** 1-3 hours.
Introduction to ceramic techniques and materials. Throwing, molding, and hand building. Surface decoration of two and three-dimensional surfaces. Students participate in stacking, firing, and drawing the kilns. Open to non-majors. Section A, MTuWTh, 9:00-12:00. Section B, MTuWTh, 1:00-4:00. The student may enroll for either a four- or an eight-week period.
- 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. Section A, MTuWTh, 9:00-12:00. Section B, MTuWTh, 1:00-4:00. The student may enroll for either a four- or an eight-week period.
- AA 455. **Advanced Ceramics.** (g) 2-4 hours.
Advanced studio work in ceramics; individual projects. Emphasis on creative form. Study of material, texture, and functional relationships. Body and glaze making; earthenware, stoneware, and porcelain. Kiln atmospheres and effects on body and glaze. Students assume responsibility for firing their own work. 30 term hours required for major. Prerequisite: 6 term hours in AA 255.
- AA 457. **Advanced Metalwork and Jewelry.** (G) 1-3 hours.
Emphasis on creative work. Advanced problems in forging, sand and centrifuge casting, enameling, etching, lapidary work, brazing, welding, repousse, and tool making. Section A, MTuWTh, 9:00-12:00. Section B, MTuWTh, 1:00-4:00. The student may enroll for either a four- or an eight-week period.

Painting and Drawing

- AA 290. **Painting.** 2-3 hours.
Instruction in the use of oil color, water color, and other media. 12 term hours required for upper-division standing. MTuWTh, 9:00-12:00 or 1:00-3:00. Criticism by appointment.
- AA 291. **Drawing.** 2 hours.
Training in observation and selection of significant elements. 6 term hours required for upper-division standing. MTuWTh, 9:00-12:00 or 1:00-3:00.
- AA 481. **Advanced Water Color.** (g) 2-4 hours.
Advanced work in water color, with particular attention to landscape material. MTuWTh, 9:00-11:00 or 1:00-3:00.
- AA 490. **Advanced Painting.** (G) 2-4 hours.
Advanced problems in portrait, figure, landscape, and still life, in all media. Prerequisite: 12 term hours in AA 290. MTuWTh, 9:00-12:00 or 1:00-3:00. The student may enroll for either a four- or an eight-week period.
- AA 509. **Graduate Studies in Painting.** Hours to be arranged.
Work at an advanced level with problems of color and form, techniques, processes and visual theories.

Art History**AA 477. Background of Modern Art. (G) 3 hours.**

Intensive study of contemporary architecture, sculpture, painting, and other arts. Conducted as a seminar. Open to nonmajors. Prerequisite: AA 201, 202, 203 or AA 363, 364, 365, or equivalent. Daily, 11:00.

Art Education**ArE 313. Creative Arts and Crafts for Elementary Teachers. 2-4 hours.**

Art activities for the classroom teacher. Use of basic tools and materials. Planning the art program to meet the needs of the child. Art in the school curriculum. Material and supply resources. Art experiences in relation to child growth and development. Laboratory work, with lecture sessions. Two sessions of four weeks each. 2 hours of credit for each workshop session. Students may also enroll for the eight-week session for 4 term hours of credit. MTuWTh, 8:00-10:00.

ArE 401. Special Studies: Kindergarten and Primary Art Education. 2-4 hours.

First four weeks, June 18-July 13. A creative approach to the art experiences of the preschool child. Workshop activities with simple tools and materials, with specific emphasis on the physical, mental, and emotional growth of the child. MTuWTh, 10:00-12:00.

ArE 401. Special Studies: Children's Art Laboratory. 2-4 hours.

Second four-weeks, July 16 to August 10. A children's art laboratory will be offered for the beginning student who is interested in investigating children's creative art experiences in laboratory situations with 7- to 10-year old elementary children. Students and children will work with simple materials in parallel art activities.

ArE 405. Reading and Conference. 2-4 hours.

June 18 to August 10. MTuWTh, 10:00-12:00.

ArE 411. Methods and Research Materials in Elementary School Art. (G) 2 hours.

June 18 to July 13. An investigation of current trends and directives in elementary public school art education. Methods and laboratory practices in the effective use of materials and ideas in creative activities. Study of significant research and literature in the field. Prerequisite, ArE 311, 312, or one year of teaching experience. MTuWTh, 10:00-12:00.

ArE 415. Art Education in the High School. (G) 2-4 hours.

Study of art education in the secondary school, through laboratory work and individual research. Practice-teaching problems examined and studied as a group experience. Evaluation of current thinking in the field; application to the classroom situation. Two four-week sessions. 2 term hours credit for each session. Students may also enroll for the eight-week session for 4 hours of credit. MTuWTh, 8:00-10:00. June 18-August 10.

ArE 501. Special Studies: Arts and Crafts in Special Education. 3 hours.

First four weeks, June 20-July 15. Use of simple materials and ideas as they pertain to the needs of the deviant child. Major consideration to the instruction program for the mentally handicapped.

ArE 505. Reading and Conference. 2-4 hours.

June 18 to August 10.

ArE 507. Seminar: Art Education. 2 hours.

Second four weeks, July 18-August 10. Students will discuss and evaluate current thinking, problems, and philosophy of art education. MTuWTh, 11:00.

ArE 533. Art in the Elementary School. 2 hours.

July 18-August 10. Designed to enable elementary art teachers and admini-

strators to gain a better understanding of the significance of creative art activity. Lectures closely integrated with laboratory work. Levels of creative development in children; direction and supervision of this development. Laboratory work with elementary-school children. 10:00 to 12:00.

BIOLOGY

Associate Professor: SODERWALL. Assistant Professor: KEZER.

Beginning with the 1956 summer session, the Department of Biology will offer a long-range summer session program particularly directed toward the needs of biology teachers. The following subjects will be taught on a rotational plan over a period of several summers: (1) general biology; (2) field and laboratory techniques in biology; (3) genetics; (4) mammalian physiology; (5) microbiology; (6) history of biology; (7) field botany. One term of work in general biology and a course in field biology will be offered each summer, together with one or more of the other courses in the above list. This program will assure the summer session student an opportunity to gain a substantial background in the biological sciences over a period of several summers. In addition to the biology offerings at Eugene, courses emphasizing marine biology and invertebrate zoology are offered at the Institute of Marine Biology, located near Coos Bay.

Bi 101. General Biology. 4 hours.

Structure and function of vertebrate organ systems with emphasis on man. Lectures, MWF, 8:00. 312 Science. Laboratory, MW, 9:00-12:00. 322 Science. Soderwall, Kezer.

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 441. Introduction to Mammalian Physiology. (g) 4 hours.**

Physiological principles as they apply to the mammalian organism. The laboratory work utilizes the albino rat for most of the experiments, many of which are easily applicable to high-school courses in biology either as regular student experiments or demonstrations by the teacher. Prerequisite: one year of biological science and one year of chemistry. Lectures, MWF, 1:00. 314 Science. Laboratory, M, 2:00-5:00, and four additional laboratory periods to be arranged. 301 Science. Soderwall.

Bi 494. Laboratory and Field Techniques in Biology. (g) 3 hours.

Designed particularly 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 laboratory. Special laboratory techniques effective in demonstrating the dynamics of living processes. Field trips to the coast and the Cascades. Prerequisite: two years of biological science or consent of instructor. Lectures, laboratory, and field work, TuTh, 1:00-5:00; all-day field trips to be arranged. 322 Science. Kezer.

The following courses will be offered in the Institute of Marine Biology, Coos Bay. Detailed description of these courses is contained in a special announcement.

Z 201, 202, 203. General Zoology. 9 hours.**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, 507. Seminar. 1 hour.****Bi 450. Marine Invertebrate Types. (g) 2 hours.****Bi 451. Planktonology. (G) 3 hours.****Bi 462. Invertebrate Zoology. (G) 6 hours.****Bi 474. Biology of Fishes. (G) 6 hours.****Bi 482. Marine Ecology. (G) 3 hours.**

BUSINESS ADMINISTRATION

Professor: MORRIS. Associate Professors: GREENE, JOHNSON, RICHINS, SMITH.
Assistant Professors: JONES, KOVARSKY.

BA 111. Constructive Accounting. 4 hours.

Technique of account construction; preparation of financial statements. Application of accounting principles to practical business problems. Required of majors; prerequisite to advanced work in business. Daily, 11:00. 266 Commonwealth. Smith.

SS 121. Typing. 2 hours.

Introduction to touch typewriting, with emphasis on speed and accuracy development; application of skill to simple business exercises. Students with one year of high-school typing may not take SS 121 for credit. Daily, 9:00. 270 Commonwealth. Jones.

SS 122. Typing. 2 hours.

Application of typing skill to business letters and forms; development of speed and accuracy. Daily, 9:00. 270 Commonwealth. Jones.

BA 222. Elements of Finance. 4 hours.

The financial problems of corporations. Organization of corporations; how they obtain long-term funds; management of working capital; distribution of securities. Required of all majors. Prerequisite: BA 111, 112, 113. Daily, 8:00. 366 Commonwealth. Johnson.

BA 311. Merchandise Accounting and Control. 4 hours.

Study of accounting principles and procedures peculiar to retail stores. Practical problems to familiarize the student with necessary forms and retail accounting routine. Prerequisite: BA 111, 112, 113. Daily, 10:00. 336 Commonwealth. Richins.

BA 323. Office Organization and Management. 3 hours.

Elements of office organization, office management, office records and systems. Special study of the office manager as an executive, and of his qualifications. Prerequisite: consent of instructor. MTuWTh, 1:00. 241 Commonwealth. Jones.

SS 324. Office Practice Techniques. 2 hours.

First four weeks, June 18-July 13. Includes study of various duplicating machines, electric typewriters, the handling of a variety of office tasks, and the application of these to practical office situations. Daily, 10:00-12:00. 269 Commonwealth. Jones.

SS 325. Office Practice Techniques. 2 hours.

Second four weeks, July 16-August 10. Includes study of voice-writing machines, filing, and performance of actual office tasks. Daily, 10:00-12:00. 269 Commonwealth. Jones.

BA 339. 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, magazines, broadcasting, outdoor advertising, direct mail. Daily, 1:00. 336 Commonwealth. Richins.

BA 379. Federal Income Tax. 4 hours.

Nonprofessional and relatively nontechnical study of the principles involved in determining taxable net income and computing Federal income taxes for individuals, partnerships, and corporations. Emphasis on the reasons behind the various provisions of the Internal Revenue Code, and on the effects of the various provisions of the income-tax laws. Designed for nonmajors and business administration majors who are not specializing in accounting. Prerequisites: BA 111, 112, 113. Daily, 9:00. 366 Commonwealth. Johnson.

BA 401. Research. Hours to be arranged.

Supervised individual work in some field of special interest. Subjects chosen must be approved by the major professor. Prerequisite: senior standing. Hours to be arranged. Morris, staff.

BA 407. Seminar: Recent Labor Law. (G) 4 hours.

The legal and administrative interpretations of the Fair Labor Standards Act, the Labor Management Relations Act, and the laws pertaining to labor in the state of Oregon. Hours to be arranged. Kovarsky.

BA 412. Personnel Management. (G) 4 hours.

Place and significance of personnel management in modern business organization; personnel policies and practices conducive to good relations with business employees. Personnel problems of small organizations. Prerequisite: BA 222, 223. Daily, 2:00. 137 Commonwealth. Kovarsky.

BA 418. Business Law. (G) 4 hours.

An examination of the laws pertaining to sales, personal property, mortgages, real property, and suretyship. Daily, 1:00. 137 Commonwealth. Kovarsky.

BA 421. Principles of Business Education. (G) 4 hours.

First four weeks, June 18-July 13. Aims and objectives of business education; history, trends, issues, curriculum construction at high-school and junior-college levels; instructional problems; research in business education. Prerequisite: consent of instructor. Daily, 8:00-10:00. 266 Commonwealth. Smith.

BA 422. Problems in Business Education. (G) 4 hours.

Second four weeks, July 16-August 10. Examination of current literature and text materials. Work-experience programs; standards of achievement; guidance programs; placement and follow-up; in-service training for teachers; business entrance tests; evaluation of current methods; auditory and visual aids. Prerequisite: consent of instructor. Daily, 8:00-10:00. 266 Commonwealth. Smith.

BA 442. Principles of Salesmanship. (G) 4 hours.

Principles and techniques of personal salesmanship; selling reactions. From the standpoint of seller and buyer. Prerequisite: BA 223. Daily, 11:00. 336 Commonwealth. Richins.

BA 499. Advanced Accounting Problems. (G) 4 hours.

Application of the technical phases of accountancy. Professional training in practical accounting problems. Prerequisite: BA 483, 484, 485. Required of accounting majors. Daily, 10:00. 366 Commonwealth. Johnson.

BA 501. Advanced Business Research. Hours to be arranged.

Examination and criticism of typical studies in business research. Methods of procedure adapted to various types of business problems. Hours to be arranged. Morris, staff.

BA 503. Graduate Thesis. Hours to be arranged.**BA 505. Reading and Conference.** Hours to be arranged.**Ed 507. Graduate Seminar.** Hours to be arranged.**BA 507. Seminar: Family Financial Security Education.** 6 hours.

First four weeks, June 18-July 13. Aspects of money and banking, insurance, real estate, investments, estates, and family financing related to family financial security. Designed for classroom teachers. Admission by prior application. 341 Commonwealth. Akers, staff.

CHEMISTRY

Professors: KUNZ, VAN RYSELBERGHE. Associate Professors: REITHEL, SWINEHART, WHITE.
Assistant Professors: GRAVEN, KLEMM.

Ch 401, 501. Research. Hours to be arranged.**Ch 403, 503. Thesis.** Hours to be arranged.**Ch 405, 505. Reading and Conference.** Hours to be arranged.

ECONOMICS

Professor: MACY. Associate Professor: SORENSON.
Assistant Professor: KOPLIN.

- Ec 201. Principles of Economics.** 4 hours.
Principles that underlie production and exchange. Attention to sources and distribution of national income. Daily, 9:00. 134 Commonwealth. Macy.
- Ec 407. Seminar: Principles and Problems of Government Finance.** (g) 4 hours.
A study of basic issues involved in financing government. Theory and its application to contemporary problems of Federal, state, and local units. Daily, 11:00. 134 Commonwealth. Macy.
- Ec 415. Economy of the Pacific Northwest.** (G) 4 hours.
Changes in and sources of personal income in the Pacific Northwest; survey of regional resources and industries; development of wood products. Daily, 10:00. 134 Commonwealth. Koplin.
- Ec 417. Contemporary Economic Problems.** (g) 4 hours.
Study of selected current economic problems in the United States; analysis and evaluation of proposed solutions. Daily, 8:00. 134 Commonwealth. Koplin.
- Ec 489. American Economic History.** (G) 4 hours.
The economic development of the United States, 1900 to the present. Daily, 9:00. 232 Commonwealth. Sorenson.
- Ec 501. Research.** Hours to be arranged.
Koplin.
- Ec 503. Thesis.** Hours to be arranged.
Macy.
- Ec 505. Reading and Conference.** Hours to be arranged.
Koplin.

EDUCATION

Professors: BREEN, CASTELL, CLARKE, DUBIN, JACOBSON, KAMBLY, KILLGALLON, MACY, ROMNEY, TOPE. Associate Professors: AKERS, HEARN, LUCHINS, WILLARD. Assistant Professors: BISNO, CAMPBELL, CULBERTSON, FULLMER, GRAHAM, HUNTER, KERSH, LOWE, MILLHOLLEN, PIPER, SELIGMAN, SUNDBERG, TUCKER. Instructors: CHRISTENSEN, MARQUIS, SCHAFF, SCHOLTEN, WILLIAMS. Visiting Faculty: BEARDSLEY, BENNETT, BURTON, CONWAY, COSTIN, DURAND, EAST, FISK, GUBSER, HINES, HOGG, IRISH, KIRKENDALL, LOBAUGH, LOGSDON, MCQUISTON, MARSH, PEACE, VAN HORN, WILSON.

Post Session. There will be a two-week post session for graduate students in education from August 13 to 24. Three term hours of credit may be earned in Reading and Conference (Ed 505). The fee for this session is \$8.00 per term hour. Instruction will be offered by Professor Hearn and others.

General Education

- 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. MTuWTh, 8:00. 332 Commonwealth. Schumacher.
- Ed 311. The School in American Life.** 3 hours.
Education as a career; function of education in a democracy; curriculum and organization of schools; current educational trends and contemporary problems; financing public education; the characteristics, needs, and interests of pupils by age groupings; general principles of growth and learning, and relation to current practices. MTuWTh, 8:00. 125 Education. Scholten.

Ed 312. Psychological Foundations of Teaching I. 4 hours.

Designed to provide psychological knowledge especially relevant to the professional activities of teachers in the elementary and secondary schools. Various aspects of the development and adjustment of the school child, with attention to the role of the teacher and the school program in the development of the pupil. Laboratory training in observation of the school child and in the interpretation of growth, health, psychological-test, and other data commonly available to the teacher. Prerequisite: Psy 201 or Psy 204. Daily, 1:00. 136 Education.

Ed 313. Psychological Foundations of Teaching II. 4 hours.

Theoretical and practical study of learning and of factors affecting learning by children and youth in school. Theories of learning, motivation, guidance; learning activity, transfer, evaluation of achievement; principles of learning; applicable to learners of varying levels of maturity. Laboratory training in observation and analysis of the teaching-learning situation from a psychological viewpoint. Prerequisite: Psy 201 or Psy 204. Daily, 9:00. 130 Education. Kersh.

Ed 317. Social Foundations of Teaching. 4 hours.

The nature and influence of such social determinants of child behavior as family, class structure, peer groups, mass media of communication, etc. Daily, 10:00. 130 Education. Graham.

MuE 351. Voice Class. 2 hours.

Study of voice problems in the public schools. MWF, 2:00. 202 Music. Anderson.

MuE 407. Seminar: Wind-Instrument Literature and Techniques. (G) 3 hours.

A survey of wind literature from the sixteenth through the twentieth century, with emphasis on interpretation and techniques of teaching. Performance, analysis, and special study projects. MTuThF, 11:00. 104 Music. Vagner.

MuE 407. Seminar: Techniques of the Marching Band. (G) 3 hours.

The techniques of planning rehearsals, performance, and arranging music for outdoor presentation; a symposium of new trends. MTuThF, 8:00. 104 Music. Lee.

MuE 407. Seminar: String Literature and Techniques. (G) 3 hours.

A survey of representative literature for stringed-instrument groups. Performance, analysis, and special study projects. MTuThF, 10:00. 201 Music. Boughton.

MuE 408. Special Teaching Methods: Music. 1-3 hours.

Conferences and reports on materials and procedures used in vocal and instrumental teaching. Prerequisite: consent of instructor.

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

Instruction in speech and speech forms designed for classroom use. Required for English majors who intend to teach, but open to all prospective teachers. MTuWTh, 2:00. 205 Villard. Nobles.

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

Use and interpretation of informal and standardized tests as supervisory and guidance instruments for the diagnosis, analysis, evaluation, and improvement of instruction in the elementary and secondary schools. Test planning, item writing, essay testing, administration and scoring, analysis of scores, and grade assignment. Simple statistics of test interpretation. MTuWTh, 1:00. 130 Education. Costin.

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

Second four weeks, July 16-August 10. The development and use of audio-visual aids in education. Emphasis on actual learning situations in which radio, recordings, films, slides, pictures, maps, charts, etc. are utilized. Sources of

materials and equipment; administration of audio-visual programs. Daily, 1:00-3:00. 127 Education. Hunter.

Ed 440. History of Education. (G) 4 hours.

A general review of the growth and development of education in relation to the civilization of the times; emphasis on development of educational philosophies. Daily, 1:00. 237 Commonwealth. Breen.

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

Growth of behavior during the prenatal period, infancy, and childhood. Development of muscular activities, perception, emotional adjustment, intelligence, language, and social behavior in childhood. Not open to students who have completed Ed 460. MTuWTh, 8:00. 370 Commonwealth. Costin.

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

Study of the behavior changes during pre-adolescence and adolescence, as related to physiological development and social and cultural factors. Emphasis on personal and social adjustment. Intended to follow Psy 460. Not open to students who have completed Ed 461. MTuWTh, 9:00. 370 Commonwealth. Costin.

Ed 476. School Law and Organization. 2 hours.

Oregon laws applying to schools and teachers; teacher personnel policies and practices; professional organizations; means for continued professional growth. MWF, 3:00. 128 Education. Christensen.

Ed 490. Social Education. (G) 4 hours.

Structure and functioning of society, as a background for the study and evaluation of education in its varied forms; the contribution of sociological principles and findings to the improvement of education practices. Daily, 2:00. 130 Education. Graham.

Ed 501. Research. 1-3 hours.

Ed 501. Research: Field Study. 3 hours.

Ed 503. Thesis. Hours to be arranged.

Ed 505. Reading and Conference. 1-4 hours.

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

Ed 507. Seminar: Advanced Educational Psychology. 4 hours.

Review of some modern viewpoints in educational psychology. The learning process; character development of the individual in relation to the socialization process; diagnosis and school treatment of pupils' conduct and behavior; the psychological principles of leadership and morale, as related to classroom teaching and school administration. Prerequisite: graduate standing in education and introductory course in educational psychology; or consent of instructor. Daily, 11:00. 125 Education. Kersh.

Ed 507. Seminar: The Public and the Press. 4 hours.

Analysis of the role of newspapers, magazines, motion pictures, radio, and television in a democratic society; the problem of improving the relationship between the public and the press in the mass-communication process. Not open to journalism majors. Daily, 10:00. 306 Allen. Nelson.

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

The teacher's role in guiding student publications in secondary schools and junior colleges. Not open to journalism majors. Daily, 9:00. 306 Allen. Nelson.

Ed 508. Workshop: Curriculum Project. 4 hours.

July 16 to August 3. Sponsored by local school systems, the Oregon State Department of Education and the University of Oregon. Membership limited, by invitation, to persons who are working on state-wide curriculum study. Tuition paid by the Board. Four-week courses before the opening of the workshop are available. Student Union. Burton, staff.

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

First four weeks, June 18-July 13. Aspects of money and banking, insurance, real estate, investments, estates, and family financing, related to family financial security. Designed for classroom teachers. Admission by prior application. Daily, 9:00-12:00. 341 Commonwealth. Akers, staff.

Ed 508. Workshop: Counseling Adolescents in Premarriage and Family Problems. 3 hours.

June 18-29. For persons counseling adolescents in situations centering about dating, mate selection, sexual adjustment, and parent-adolescent adjustments. Especially for counselors, deans, and teachers with counseling responsibilities. Daily, 10:00-12:00, 1:00-3:00. Student Union. Kirkendall, Sundberg.

Soc 508. Workshop: Intergroup Relations. 3 hours.

July 9-20. Designed for teachers and community leaders whose activities involve intergroup relations, either through 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 difference. Scott.

Ed 512. Research Procedures in Education. 4 hours.

The nature and procedures of research in education; special techniques of thesis, field study, research paper, and dissertation. Open to graduate students majoring in other fields. Does not take the place of individual supervision of the student's thesis. Daily, 1:00. 128 Education. Fullmer.

Ed 515. Educational Statistics. 3 hours.

An introductory course in statistics. Computing machines are available for student use. Prerequisite: consent of instructor. MTuWF, 10:00. 11 Deady. Tucker.

Ed 516. Educational Statistics. 3 hours.

Advanced statistics applied to research in physical education; partial and multiple correlation, regression, analysis of variance, chi-square, and special correlation methods. Prerequisite: Ed 515. Daily, 2:00. 143 Physical Education. Clarke.

Ed 523. School Activities. 4 hours.

Principles and purposes of school activities; pupil participation in school government; assemblies; clubs, social activities, athletics, speech activities, drama, music, publications; evaluation of the school activity program. Daily, 8:00. 127 Education. Logsdon.

Ed 525. Pupil Personnel Programs. 4 hours.

The need for guidance and counseling; organization and administration of guidance services; tests, inventories, questionnaires, records; guidance in the curriculum; counseling the individual; the role of the home and the community in guidance; evaluation of guidance services. Daily, 9:00. 244 Commonwealth. Hearn.

Ed 526. Counseling Procedures. 3 hours.

Counseling problems of various types. Methods of interviewing for different purposes. Sources of vocational information. Diagnosis of individual cases. Evaluation of counseling programs. Prerequisite: clinical methods. MTuWTh, 1:00. 125 Education. Lowe.

MuE 532. Problems in Music Education. 3 hours.

Research, reports, and discussion of problems and issues in music education. Prerequisite: consent of instructor. MTuThF, 10:00. 104 Music. Nye.

Ed 543. History of American Education. 4 hours.

The intellectual development of the United States, with special reference to education. Prerequisite: knowledge of American history. Daily, 2:00. 202 Chapman. Castell.

Ed 546. Philosophy of Education. 4 hours.

Study of broad fundamental principles and problems of education as evaluated by the various schools of philosophical thought. Daily, 1:00. 202 Chapman. Castell.

Ed 565. Curriculum Foundations. 3-4 hours.

First four weeks, June 18-July 13. Implications of the basic social, philosophical, and psychological factors in curriculum planning and organization; historical background; techniques of curriculum planning. Daily, 8:00-10:00. 128 Education. Lobaugh.

Ed 566. Curriculum Construction. 3-4 hours.

Second four weeks, July 16-August 10. Survey and appraisal of curricular patterns; state and city programs; courses of study in major subject areas; techniques of course-of-study planning. Daily, 8:00-10:00. 128 Education. Millhollen.

Ed 574. School Supervision. 3-4 hours.

First four weeks, June 18-July 13. Purpose and plans for supervision; use of tests, diagnosis of pupil difficulty, etc., as applied to both elementary and secondary schools. Prerequisites: Ed 311, Ed 313 or teaching experience. Daily, 10:00-12:00. 173 Commonwealth. Millhollen.

Elementary Education**Mth 7. Mathematics for Elementary Teachers.** 3 hours.

Elements of arithmetic, algebra, and geometry. A required course in the elementary teacher training program. Daily, 9:00. 102 Deady. Niven.

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

Second four weeks, July 16-August 10. Games of low organization for children from grades 1 through 6. Special emphasis on teaching methods. Daily, 9:00-11:00; F, 8:00. East Court. Hackett, Sprague.

PE 283. Rhythmic Programs for the Elementary School Child. 2 hours.

First four weeks, June 18-July 13. Rhythmic fundamentals, skills, and dances for children of grades 1 through 6. Special emphasis on teaching methods. Daily 9:00-11:00; F, 8:00. East Court. Cox.

Ed 359. The Child and his Curriculum: Social Studies. 3 hours.

Social studies 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 social studies, provision for individual differences, cultivation of critical thinking, provision for growth and retention, and methods of evaluating results of instruction. Prerequisite: Ed 312, Ed 313. MTuWTh, 11:00. 136 Education. Irish.

MuE 370. Music for Elementary Teachers. 3 hours.

Music activities for the elementary teacher. The first term of an introductory sequence designed to build basic musicianship through experiences related to the teaching of music in the elementary school classroom. Required of majors in elementary education. MTuThF, 10:00. 203 Music. Madsen.

PE 411, 412, 413. Workshop: Elementary-School Physical Education. (g) 9 hours total credit.

June 18-August 10. Open to men and women students. A workshop for elementary-school teachers who have physical-education responsibilities. Every important aspect of elementary-school physical education, such as objectives, principles, methods, materials, and evaluation, will be covered. The activities considered will include rhythms, stunts, games, relays, and self-testing activities. All materials will be developed in terms of the objectives, standards, and purposes of the Oregon physical-education program. Each teacher will have the opportunity to develop a program for his or her school. Prerequisite: certification as a teacher or consent of instructor. Daily, 8:00-11:00. 101 Physical Education. Cox, Hackett, Sprague.

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

The purposes and requirements of the elementary-school health service program, with emphasis upon 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. TuWThF, 11:00. 101 Physical Education. Hackett.

Ed 451. Early Childhood Education. (G) 4 hours.

Review of the development of children, age 5 through 8. Program planning; group behavior; the place of the teacher; equipment, activities, books, and music for these age levels. Daily, 10:00. 126 Education.

PE 460. Physical Education in the Elementary School. (g) 3 hours.

An analysis and interpretive study of the objectives, standards, and activities of the elementary-school physical-education program. MTuWTh, 8:00. 101 Physical Education. Hackett.

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

Purposes and procedures of health service in the schools; control of common communicable diseases; technique of pupil health appraisal by the teacher. Prerequisite: HE 361, 362, 363 or consent of instructor. TuWThF, 8:00. 143 Physical Education. Haar.

MuE 407. Seminar: Music in the Primary Grades. (G) 2 hours.

First four weeks, June 18-July 13. Curriculum, materials, and procedures of music teaching in kindergarten through third grade. Designed for classroom teachers, music majors, and administrators. This course, in combination with Seminar: Music in the Intermediate Grades (MuE 407), satisfies the methods-course requirement in the elementary area. Daily, 9:00. 203 Music. Nye.

MuE 407. Seminar: Music in the Intermediate Grades. (G) 2 hours.

Second four weeks, July 16-August 10. Curriculum, materials, and procedures of music teaching in grades 4, 5, 6. Designed for classroom teachers, music majors, and administrators. This course, in combination with Seminar: Music in the Primary Grades (MuE 407), satisfies the methods-course requirement in the elementary area. Daily, 9:00. 203 Music. Nye.

Ed 507. Seminar: Children's Literature. 3 hours.

Recent findings in children's literature. A large collection of children's books will be available for examination. Study of materials suitable for various grade levels. Opportunity to study and discuss materials suitable for language arts, literature, social studies, science, and other areas at the elementary level. MTuWTh, 8:00. 130 Education. Piper.

Ed 508. Workshop: Teaching Methods in Geography. 3 hours.

Two weeks, July 9 to July 20. A study of principles and methods used in the presentation of the basic materials of geography. Maps, globes, charts, slides, film strips. MTuWTh, 10:00-12:00; 2:00-4:00. Durand.

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; rooms and equipment. Daily, 9:00. 125 Education. Kambly.

Ed 535. Social Studies in the Elementary School. 4 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. Daily, 9:00. 136 Education. Willard.

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

The role of language arts in the elementary-school program; research findings on language development; the teaching of spelling, writing, and speaking-listening skills; newer instructional materials; testing and evaluation. MTuWTh, 8:00. 136 Education. Irish.

Ed 537. Reading in the Elementary School. 4 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. Daily, 11:00-1:30 Education. Willard.

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

Number abilities needed by children; research findings on mathematics education; designed number experiences; theories of teaching desirable teaching procedures; selection and use of materials. MTuWTh, 10:00. 136 Education. Irish.

Ed 553. Elementary-School Curriculum. 3 hours.

July 9-20. A systematic study of the elementary-school curriculum, including pupil needs in everyday life situations, objectives, essentials of a good program; varying curriculum designs, organization of learning experiences, evaluation of learning and appraisal of newer curriculum practices. Daily 8:00-11:00, 1:00-4:00. 167 Commonwealth. Beardsley.

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

The role, duties, needs, and problems of modern supervision, including evaluation and improvement of the teaching-learning situation. TuWThF, 2:00. 237 Commonwealth. Culbertson.

Secondary Education**Ed 314. Principles of 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 311, Ed 313. MTuWTh, 11:00. 128 Education. Kambly.

PE 406. Workshop: Dance, Tumbling, and Sports. 1-4 hours credit.

June 18-29. This workshop is designed for junior and senior high-school teachers. Participation, demonstration and practice, and illustration of teaching materials. Credit granted on the basis of 1 hour for each area. Students may audit if they prefer.

MuE 407. Seminar: Choral Music in the Upper Grades and Junior High School. (G) 3 hours.

A survey of appropriate material for chorus and special performing groups. Problems of organization and rehearsal techniques. MTuThF, 10:00. 202 Music. Risinger.

MuE 407. Seminar: Choral Music in the High School. (G) 3 hours.

A survey of representative choral literature. Interpretation, rehearsal techniques, and problems of organization. Students may bring additional material of their own selection for reading and study. MTuThF, 11:00. 202 Music. Risinger.

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. MTuWTh, 9:00. 237 Commonwealth. Wilson.

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

July 9-20. Origin, underlying philosophy, and functions of the junior high schools. Administrative procedures; guidance and counseling, school activities; areas of instruction; evaluation of the junior high school program. Daily, 9:00-12:00; 1:30-4:00. Student Union. Conway.

Ed 486. Educational and Vocational Guidance. (G) 3 hours.

The place of school records, test results, interest, aptitudes, abilities, and personal characteristics in the appraisal of educational and vocational

potentialities; sources of current materials relating to educational opportunities and occupational trends. MTuWTh, 10:00. 243 Commonwealth. Wilson.

Ed 507. Seminar: Methods in Social Studies in the Junior and Senior High School. 3-4 hours.

First four weeks, June 18-July 13. Designed for experienced classroom teachers. Attention will be given to the social-studies curriculum, citizenship education, the teaching of current affairs, handling of controversial issues, use of audio-visual aids, evaluation techniques, classroom techniques, and materials. Opportunity for students to prepare materials for use in their classes. Daily, 1:00-3:00. 370 Commonwealth. Williams.

Ed 507. Seminar: Methods in Mathematics in the Junior and Senior High School. 3-4 hours.

Second four weeks, July 16-August 10. For experienced teachers; techniques of instruction in general mathematics, algebra, geometry, and advanced courses. Daily, 8:00-10:00. 234 Commonwealth. Schaaf.

Ed 522. Secondary-School Curriculum. 4 hours.

A survey of the secondary-school curriculum; trends and outstanding practices in organization, content, methodology, materials, and evaluation. Problems approach to specific subject areas. Daily, 10:00. 242 Commonwealth. Hearn.

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

The secondary-school principalship; principles of administration, staff relationships, public relations, and professional growth; business administration, administration of guidance services, curriculum and school activities; evaluation of the secondary school. Daily, 11:00. 127 Education. Logsdon.

MuE 534. Music in the Junior High School. 3 hours.

The junior-high-school pupil; the general music class; integration and correlation; listening, playing, and creative experiences; survey of the vocal and instrumental program; teaching aids; music in the school and community. MTuThF, 1:00. 203 Music. Madsen.

Ed 589. Organization and Administration of Guidance Services. 3 hours.

Principles and functions of guidance; organizing the guidance programs; guidance personnel; evaluation of the school's guidance services. MTuWTh, 1:00. 243 Commonwealth. Wilson.

Special Education**Ed 409. Psycho-Educational Clinic.** (G) 4 hours.

Supervised practice in diagnosing and teaching retarded readers. Case material may be provided for experience with emotionally, mentally, or visually handicapped children. Students needing such experience should write the director of the clinic well in advance of registration. Daily, 10:00-12:00. 135 Education. Killgallon, Hogg.

Ed 460. Administration of Special Education. (G) 4 hours.

Organizing, financing, housing, equipping, staffing, and supervising the special-education program. Desirable educational provisions for each type of handicapped child. Daily, 2:00. 125 Education. Gubser, staff.

Ed 462. Psychology of Exceptional Children. (G) 4 hours.

Survey of characteristics and problems of all types of exceptional children, with special emphasis on those with sensory handicaps; consideration of essential education adaptations. Daily, 1:00. 232 Commonwealth. East.

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. Daily, 2:00. 232 Commonwealth. East.

Ed 464. The Mentally Handicapped Child. (G) 3-4 hours.

Identification and guidance of the mental deficient, the slow learner, and the gifted. First four weeks: the mentally retarded. Second four weeks: the gifted. Prerequisite: consent of instructor. MTuWTh. 1:00. 173 Commonwealth. McQuiston.

Ed 465. Diagnostic and Remedial Techniques. (G) 4 hours.

A clinical course. Diagnostic, remedial, and corrective techniques in basic school subjects. Daily, 9:00. 127 Education. Hogg, Killgallon.

Ed 507. Seminar: Curriculum and Methods of Teaching the Mentally Retarded. 3 hours.

Nature and scope of the educational program for the mentally retarded. Organization and planning of instruction; selection, preparation, and use of materials, equipment, records and reports; public relations and other practical problems of organization and classroom management. Prerequisite: consent of instructor. MWF, 2:00-4:00. 136 Education. Peace.

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

Observation and teaching of a class for the mentally retarded in the elementary school. Under supervision of a demonstration teacher. Must be taken concurrently with Seminar: Curriculum and Methods of Teaching the Mentally Retarded (Ed 507). Prerequisite: consent of instructor. Daily, 10:00-12:00. Edison School. Peace.

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

A study of basic issues involved in financing government. Theory and its application to contemporary problems of Federal, state, and local units. Daily, 11:00. 134 Commonwealth. Macy.

Ed 507. Seminar: Higher Education. 3 hours.

Problems relating to higher education: finance, organization, administration, student personnel, staff, and general trends. MTuWTh, 9:00. 241 Commonwealth. Lowe.

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

For advanced graduate students who are at or past the master's level. Draws from the literature in 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. MTuWTh, 10:00-12:00. 104 Education. Jacobson, Dubin, Marquis, staff.

Ed 507. Seminar: Scope and Method of the Social Sciences. 3-6 hours.

The background and perspectives of each of the social-science disciplines—anthropology, economics, political science, psychology, and sociology. Selected aspects of social organization and process considered in detail. Daily, 8:00-10:00. 104 Education. Bennett, Bisno, Campbell, Luchins, Seligman, Tope.

Ed 508. Workshop: County School Superintendents. 2 hours.

July 23-28. Administrative services, auxiliary services, and curricular services of the county school superintendent's office. Planning and evaluation of the work of the county superintendent. Student Union. Tope.

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: Ed 311, Ed 313 or teaching experience. Daily, 2:00. 126 Education. Romney.

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

Second four weeks, July 16-August 10. Ed 572, 573, 574 required for majors in school administration. Ed 573 deals with organization in both grade and high school; emphasis on the small system. Prerequisite: Ed 311, Ed 313 or teaching experience. Daily, 10:00-12:00. 370 Commonwealth. Fisk.

Ed 575. School Finance. 3-4 hours.

The problems of school finance and business management; sources of school income; relationship to the state financial structure; budgeting and accounting. Construction of a school budget. Daily, 1:00. 126 Education. Romney.

Ed 576. School Buildings. 3-4 hours.

First four weeks, June 18-July 13. Study of problems in planning, construction, maintaining, and operating school buildings. The basic course in school buildings, intended for persons who have not had much experience in building problems. Daily, 8:00-10:00. 126 Education. Hines.

Other Courses for Teachers

The summer courses listed below have been specifically planned to meet the needs of classroom teachers. For descriptions, see the several departmental sections in this catalog.

Art

AA 255. **Ceramics.** 2 hours.

AA 257. **Metalwork and Jewelry.** 2 hours.

AA 290. **Painting.** 2 hours.

ArE 313. **Creative Arts and Crafts for Elementary Teachers.** 2-4 hours.

ArE 314. **Art Education in the Junior High School.** 2-4 hours.

ArE 401. **Special Studies: Children's Art Laboratory.** 2-4 hours.

ArE 411. **Methods and Research Materials: Art in Elementary Schools.** (g) 2-4 hours.

ArE 416. **Art Education in the Senior High School.** (g) 2-4 hours.

AA 455. **Advanced Ceramics.** (g) 2-4 hours.

AA 457. **Advanced Metalwork and Jewelry.** (g) 2-4 hours.

AA 477. **Background of Modern Art.** (g) 3 hours.

AA 481. **Water Color.** 2 hours.

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

ArE 501. **Special Studies: Arts and Crafts in Special Education.** 2-4 hours.

Biology

Bi 494. **Laboratory and Field Technics in Biology.** (g) 3 hours.

Business Administration

BA 323. **Office Organization and Management.** 3 hours.

SS 324. **Office Practice Techniques.** 2-4 hours.

BA 412. **Personnel Management.** (G) 4 hours.

BA 418. **Business Law.** (G) 4 hours.

BA 421. **Principles of Business Education.** (G) 4 hours.

BA 422. **Problems in Business Education.** (G) 4 hours.

Economics

- Ec 201. **Principles of Economics.** 4 hours.
 Ec 417. **Contemporary Economic Problems.** (g) 4 hours.
 Ec 489. **American Economic History.** (G) 4 hours.

English

- Wr 111. **English Composition (First Term).** 3 hours.
 Wr 112, 113. **English Composition.** 3 hours each term.
 Wr 211. **Advanced Writing.** 3 hours.
 Wr 411. **English Composition for Teachers.** (g) 3-4 hours.
 Eng 103. **Survey of English Literature (Third Term).** 3 hours.
 Eng 104. **Appreciation of Literature (First Term).** 3 hours.
 Eng 203. **Shakespeare (Third Term).** 3 hours.
 Eng 423. **Types of Prose Fiction.** (G) 3 hours.
 Eng 428. **Chaucer.** (G) 3 hours.
 Eng 475. **Literary Foundations of American Life (First Term).** (g) 3 hours.
 Eng 507. **Seminar: Milton.** 3-4 hours.
 Eng 507. **Seminar: Studies in Romance.** 3-4 hours.
 Eng 507. **Seminar: American Literature.** 3-4 hours.
 Eng 507. **Seminar: Reading and Writing Workshop.** 3 hours.

Foreign Languages

- RL 405. **Reading and Conference (French).** 3 hours.
 RL 405. **Reading and Conference (Spanish).** 3 hours.
 GL 320. **Scientific German.** 3 hours.

Geography

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

Health and Physical Education

- PE 180, 190, 380, 390. **Tennis.** 1 hour.
 PE 180, 190, 380, 390. **Ballroom Dancing.** 1 hour.
 PE 180, 190, 380, 390. **Golf.** 1 hour.
 PE 190, 390. **Swimming.** 1 hour.
 HE 252. **First Aid.** 3 hours.

History

- Hst 101. **History of Western Civilization.** 4 hours.
 Hst 202. **History of the United States.** 4 hours.
 Hst 203. **History of the United States.** 4 hours.
 Hst 411. **History of Greece.** (G) 4 hours.
 Hst 419. **Studies in Western Civilization.** (g) 4 hours.
 Hst 445. **Europe Since 1939.** (g) 4 hours.
 Hst 448. **Soviet Union.** (G) 4 hours.
 Hst 474. **American Foreign Relations.** (g) 4 hours.
 Hst 478. **History of the Pacific Northwest.** (G) 4 hours.
 Hst 489. **American Economic History.** (G) 4 hours.

Mathematics

- Mth 7. **Mathematics for Elementary Teachers.** 3 hours.
 Mth 425. **Elements of Statistical Methods.** (g) 3 hours.
 Mth 479. **Algebra.** 3 hours.
 Mth 489. **Geometry.** (g) 3 hours.
 Mth 599. **Foundations of Mathematics.** 3 hours.

Physics

- Ph 411. **Modern Physics.** (G) 3 hours.
 Ph 507. **Seminar: Foundations of Physics.** 4 hours.

Political Science

- PS 201. **American Government.** 3 hours.
 PS 320. **World Politics.** 4 hours.
 PS 414. **Political Parties and Election Problems.** (G) 4 hours.
 PS 424. **The Struggle for Asia: Democracy vs. Communism.** (G) 4 hours.
 PS 505. **Reading and Conference: American Government and Politics.** Hours to be arranged.
 PS 505. **Reading and Conference: International Relations.** Hours to be arranged.

Psychology

- Psy 336. **Social Psychology.** 4 hours.
 Psy 436. **Character and Personality.** (G) 3 hours.
 Psy 467. **Learning.** (G) 3 hours.
 Psy 507. **Seminar: Psychology of Small Groups.** 3 hours.

Sociology

- Soc 334. **Social Psychology.** 4 hours.
 Soc 407. **Seminar: Industrial Sociology.** (G) 4 hours.
 Soc 416. **Criminology and Delinquency.** (G) 4 hours.
 Soc 466. **The Family in American Culture.** (G) 4 hours.

Speech

- Sp 114. **Voice and Diction.** 3 hours.
 Sp 321. **Argumentation, Discussion, and Persuasion.** 3 hours.
 Sp 364. **Play Direction.** 3 hours.
 Sp 411. **Speech for the Classroom Teacher.** 3 hours.
 Sp 448. **Radio and Television and the Public.** (G) 3 hours.
 Sp 482. **Speech Defects and Disorders.** (G) 3 hours.
 Sp 507. **Seminar: Problems of Education by Television.** 3 hours.
 Sp 507. **Seminar: Technical Problems of the Theater.** 2-4 hours.

ENGLISH

Professors: LESCH, SOUERS. Associate Professors: McCLOSKEY, SHERWOOD, WILLARD.
Assistant Professors: GORDON, OSWALD. Visiting Faculty: PERRIN.

- Eng 103. **Survey of English Literature (Third Term).** 3 hours.
From Byron to the present. MTuWTh, 10:00. 117 Friendly. Oswald.
- Eng 104. **Appreciation of Literature (First Term).** 3 hours.
This course may, on petition, be taken to complete any 100 sequence in English that satisfies the arts and letters Group I requirement. TuWThF, 10:00. 106 Friendly. Gordon.
- Wr 111. **English Composition (First Term).** 3 hours.
Fundamentals of English composition. TuWThF, 8:00. 117 Friendly. Gordon.
- Wr 112, 113. **English Composition.** 3 hours each term.
Not offered in the 1956 summer session. Summer students may take Wr 211 in place of either Wr 112 or Wr 113 to satisfy the composition requirement.
- Eng 203. **Shakespeare (Third Term).** 3 hours.
MTuWTh, 9:00. 115 Friendly. McCloskey.
- Wr 211. **Advanced Writing.** 3 hours.
Expository writing. Summer students may take Wr 211 in place of either Wr 112 or Wr 113 to satisfy the composition requirement. MTuWTh, 8:00. 118 Friendly. Oswald.
- Eng 403. **Thesis for Honors Candidates.** Hours to be arranged.
- Eng 405. **Reading and Conference.** Hours to be arranged.
- Eng 407. **Seminar: Shakespeare.** (G) 3 hours.
MTuWTh, 8:00. 115 Friendly. Lesch.
- Wr 411. **English Composition for Teachers.** (g) 3 or 4 hours.
For students expecting to teach English in high school. Practice in writing and a review of the rules of composition. Required for satisfaction of the high-school teaching-field requirement in English. Prerequisites: Wr 111, 112, 113. MTuWTh, 11:00. 117 Friendly. Oswald.
- Eng 428. **Chaucer.** (G) 3 hours.
As much of Chaucer's work read as time permits. Required for graduate students in English. TuWThF, 2:00. 106 Friendly. Souers.
- Eng 475. **Literary Foundations of American Life (First Term).** (g) 3 hours.
Authors whose writings have largely given shape to American thought. Required of all majors in American literature who have not taken Eng 261, 262, 263. Two consecutive terms satisfy the high-school teaching-field requirement in English. MTuWTh, 10:00. 115 Friendly. McCloskey.
- Eng 423. **Types of Prose Fiction.** (G) 3 hours.
TuWThF, 1:00. 117 Friendly. Gordon.
- 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.** 3-4 hours.
Time to be arranged. First meeting, June 19, 9:00. 112 Friendly. Lesch.
- Eng 507. **Seminar: Studies in Romance.** 3-4 hours.
Time to be arranged. First meeting June 19, 3:00. 112 Friendly. Souers.

- Eng 507. **Seminar: American Literature.** 3-4 hours.
Time to be arranged. First meeting, June 19, 11:00. 112 Friendly. McCloskey.
- Eng 507. **Seminar: Reading and Writing Workshop.** 3 hours.
June 18-29. An organization meeting will be held at 2:00 on June 18. 118 Friendly. Perrin, Willard, Sherwood.

FOREIGN LANGUAGES

Professor: KREMER. Assistant Professors: LECUYER, GARCIA-GIRON.

French

- *RL 1, 2. **First-Year French.** 8 hours.
An introduction to the language, stressing reading, comprehension of the spoken tongue, and the basic principles of French grammar. Equivalent of the first two terms of First-year French given during the regular academic year. Daily, 8:00-9:00. 216 Friendly. Lecuyer.
- RL 405. **Reading and Conference.** 3 hours.
Advanced grammar and composition; a thorough review intended primarily for teachers and prospective teachers. Students wishing work in literature should consult the instructor. Time to be arranged. Lecuyer.
- RL 503. **Thesis.** Hours to be arranged.
- RL 505. **Reading and Conference.** 3 hours.
Advanced grammar and composition; a thorough review, intended primarily for teachers and prospective teachers. Students wishing work in literature should consult the instructor. Time to be arranged. Lecuyer.

German

- *GL 1, 2. **First-Year German.** 8 hours.
The fundamentals of grammar, oral drill, translation of prose selections. Equivalent of the first two terms of First-Year German given during the regular academic year. Recommended for students who wish to acquire a reading knowledge. Daily, 8:00-9:00. 215 Friendly. Kremer.
- GL 320. **Scientific German.** 3 hours.
Intensive practice in the reading of scientific texts of increasing difficulty. Prerequisite: consent of instructor. Time to be arranged. Kremer.

Spanish

- *RL 11, 12. **First-Year Spanish.** 8 hours.
An introduction to Spanish, stressing speaking and reading. Exercises in elementary composition. Equivalent of the first two terms of First-Year Spanish given during the regular academic year. Daily, 8:00-9:00. 312 Friendly. García-Girón.
- RL 405. **Reading and Conference.** 3 hours.
Readings in Spanish or Spanish-American literature, the field to be determined in consultation with the instructor. Time to be arranged. García-Girón.
- RL 503. **Thesis.** Hours to be arranged.
- RL 505. **Reading and Conference.** 3 hours.
Readings in Spanish or Spanish-American literature, the field to be determined in consultation with the instructor. Time to be arranged. García-Girón.

* Students who complete RL 1, 2, RL 11, 12, or GL 1, 2 with a grade of A or B may enter Second-Year French, German, or Spanish in the fall term.

GEOGRAPHY

Visiting Faculty: DURAND.

Geog 105. Introductory Geography. 3 hours.

A general introduction to the field of geography. MTuWTh, 9:00. 105 Condon.

Geog 430. Geography of South America. (G) 3 hours.

Physical, economic, and human geography of the continent. MTuWTh, 8:00. 105 Condon.

Geog 503. Thesis. Hours to be arranged.**Geog 505. Reading and Conference.** Hours to be arranged.**Ed 508. Workshop: Teaching Methods in Geography.** 3 hours.

Two weeks, July 9 to July 20. A study of principles and methods used in the presentation of the basic materials of geography. Maps, globes, charts, slides, film strips. MTuWTh, 10:00-12:00; 2:00-4:00. Durand.

GEOLOGY

Professor: STAPLES.

Geol 406. Advanced Field Geology. 9 hours.

Geological field work in selected parts of Oregon. Prerequisite: Geol 314, Geol 383, and consent of instructor.

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 in selected parts of Oregon. Emphasis on individual problems. Prerequisite: graduate standing and consent of the instructor.

HEALTH AND PHYSICAL EDUCATION

Professors: CLARKE, ESSLINGER, HAAR, WASHKE, WOODRUFF. Associate Professors: POLEY, SIGERSETH, SPRAGUE, WENTWORTH. Assistant Professors: COX, HACKETT, PUCKETT. Instructor: COOK. Assistant: GESER. Visiting Faculty: FORSYTHE, GILMAN, KAWASOE.

Workshops**PE 406. Workshop: Dance, Tumbling, and Sports.** 1-4 hours.

June 18-29. Designed for junior and senior high-school teachers. Participation, demonstration and practice, and illustration of teaching materials. Credit granted on the basis of 1 hour for each area. Students may audit if they prefer.

Tumbling. Participation and skill improvement. Program and demonstration materials. Beginning trampoline routines. Daily, 8:00-10:00. Puckett.*Team Sports.* Organization patterns and drills for large groups. Lead-up games. Choice of basketball, soccer, speedball. Daily, 10:00-12:00. Woodruff.*Individual and Dual Sports.* Badminton, archery, tennis. Skill improvement. Teaching aids. Instructional materials. Daily, 1:30-3:30. Puckett, Woodruff.*Dance.* Folk, square, ballroom dance; analysis of and methods of teaching dance materials. Daily, 3:30-5:30. Wentworth.**PE 406. Workshop: Contemporary Dance.** 2 hours.

June 18-29. Two 2-hour sessions daily of work in contemporary dance; basic movement leading to dance composition, dance-drama, musical interpretation and the use of percussion. Planned for college and high school teachers. Daily, 1:30-3:30; 7:00-9:00. Cook.

PE 411, 412, 413. Workshop: Elementary-School Physical Education. (g) 9 hours total credit.

June 18-August 10. Open to men and women students. A workshop for elementary-school teachers who have physical-education responsibilities. Every important aspect of elementary-school physical education, such as objectives, principles, methods, materials, and evaluation. The activities considered will include rhythms, stunts, games, relays, and self-testing activities. All materials will be developed in terms of the objectives, standards, and purposes of the Oregon physical-education program. Each teacher will have the opportunity to develop a program for his or her school. Prerequisite: certification as a teacher or consent of the instructor. MTuWThF, 8:00-11:00. 101 Physical Education. Cox, Hackett, Sprague.

PE 411. Physical Education in the Elementary School. (g) 3 hours.

An analysis and interpretive study of the objectives, standards, and purposes of elementary-school physical-education programs. Introduction to methods of teaching, program construction, and evaluation in physical education. MTuWTh, 8:00. 101 Physical Education. Hackett.

PE 412. Rhythms for the Elementary School. (g) 3 hours.

First four weeks. The rhythms program: exploration of locomotor and non-locomotor movement; dramatization and creative dance studies; singing games; traditional dance skills and folk dances. The objectives, units of instruction, and methods of teaching this program for the various grade levels. MTuWThF, 9:00-11:00; F, 8:00. 44 Physical Education. Cox.

PE 413. Activities for the Elementary School. (g) 3 hours.

Second four weeks. Fundamental movement and posture, conditioning exercises, games of low organization, sports activities, stunts and tumbling, as applied to the elementary-school program. Development of an understanding of the purposes of each activity and its place in the total program; methods, materials, and skills necessary for teaching. MTuWThF, 9:00-11:00; F, 8:00. 44 Physical Education. Hackett, Sprague.

Physical Education (Professional Courses)**PE 221. Games for the Elementary School.** 2 hours.

Second four weeks. Games of low organization for children from grades 1 through 6. Special emphasis on teaching methods. MTuWThF, 9:00-11:00; F, 8:00. East Court. Hackett, Sprague.

PE 283. Rhythmic Programs for the Elementary School Child. 2 hours.

First four weeks. Rhythmic fundamentals, skills, and dances for children of grades 1 through 6. Special emphasis on teaching methods. MTuWThF, 9:00-11:00; F, 8:00. East Court. Cox.

PE 406. Special Problems. Hours to be arranged.

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

PE 406. Special Problems: Ballroom Dancing. 2 hours.

For men and women. Materials of ballroom dancing, including the basic skills, and a variety of dance-pattern combinations of the fox trot, waltz, rumba, and tango. MTuWThF, 11:00. Gerlinger. Cox.

PE 460. Physical Education in the Elementary School. (g) 3 hours.

An analysis and interpretive study of the objectives, standards, and activities of the elementary-school physical-education program. MTuWTh, 8:00. 101 Physical Education. Hackett.

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.

Individual study of selected problems in the field of physical education, assigned by the adviser and approved by the dean of the school.

PE 506. Special Problems: Leadership Organization. 3 hours.

Analysis of research bearing on teaching methodology and leadership organization. Review and evaluation of teaching procedures. TuWThF, 8:00. 122 Physical Education. Sprague.

PE 506. Special Problems: Athletic Injuries. 3 hours.

Prevention and avoidance of injury. Analysis of types of injuries, their care and treatment; taping, bandaging, massage, etc. Use of mechanical aids in prevention and care of injuries, emergency procedures, conditioning against injury. Prerequisite: consent of instructor. TuWThF, 10:00. 122 Physical Education. Sigerseth.

PE 507. Seminar: Administration of Athletics. 3 hours.

Conduct of the interschool athletics, including officiating, game management, finance, publicity, awards, purchase and care of equipment, eligibility, contest regulations, policies, and facilities. Problems and trends. TuWThF, 9:00. 122 Physical Education. Forsythe.

PE 507. Seminar: Public Relations in Physical Education. 3 hours.

Nature and importance of public relations in physical education. Review of various media available to the physical educator. TuWThF, 11:00. 122 Physical Education. Forsythe.

PE 507. Seminar: Mechanical Analysis of Motor Skills. 4 hours.

Application of the laws of mechanics to the analysis of techniques of the major and minor sports, gymnastics, and swimming and diving. Lectures, MTuWTh, 8:00. Laboratory, F, 8:00-10:00. 114 Physical Education. Sigerseth.

PE 516. Intramural Organization and Management. 3 hours.

Nature and purposes of intramural programs; history of their development. Departmental organization. Relationship of program to physical-education instruction. Administrative problems. TuWThF, 10:00. 114 Physical Education. Washke.

PE 517. Methods of Research in Physical Education. 3 hours.

Methods and techniques of research in health, physical education, and recreation; practice in application to problems of current interest. MTuWTh, 2:00. 114 Physical Education. Poley.

PE 530. Developmental and Remedial Physical Education. 3 hours.

Programs to meet individual physical-fitness and social needs through physical education activities; case study techniques, developmental programs, remedial and restrictive programs, development of social traits; administrative problems. Prerequisite: PE 444, PE 446. MTuWTh, 3:00. 122 Physical Education. Clarke.

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

The use of norms, comparable scores, rating scales, and multiple regression as tools of research and interpretation of physical-growth, physical-status, and physical-performance data. Prerequisite: elementary statistics. MTuWTh, 3:00. 114 Physical Education. Geser.

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

Advanced statistics applied to research in physical education; partial and multiple correlation, regression, analysis of variance, chi-square, and special correlation methods. Prerequisite: PE 540. Daily, 2:00. 143 Physical Education. Clarke.

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

The different schools of thought and practice which determine the purposes and procedures in the professional field of physical education. Analysis of

the Oregon and other regional public school programs. Prerequisite: graduate standing in physical education. MTuWTh, 1:00. 122 Physical Education. Washke.

PE 551. Administration of Physical Education. 3 hours.

Organization and administration of physical education at the college level. Prerequisite: undergraduate course in this field. TuWThF, 11:00. 114 Physical Education. Esslinger.

PE 558. Program Construction in Physical Education. 3 hours.

Basic elements and procedures of program construction in physical education. An advanced course for supervisors and administrators of physical-education programs. Special application at the city, county, and state levels. Students may develop programs for their own situations. MTuWTh, 2:00. 122 Physical Education. Sprague.

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

Study of the acquisition of motor skills during the first decade of life. Prerequisite: PE 444 or Psy 460. MTuWTh, 1:00. 121 Gerlinger. Poley.

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

For men and women. MTuWTh, 3:00. Tennis Courts.

PE 180, 190, 380, 390. Ballroom Dancing. 1 hour.

For men and women. Gerlinger. MTuWTh, 1:00. Cox

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

For men and women. MW, 4:00-6:00.

PE 190, 390. Swimming. 1 hour.

For men. Men's Pool. MTuWTh, 11:00.

Coaching Clinic

June 11-16, 1956

PE 406. Special Problems: Coaching Workshop. 2 hours.

Special problems of coaching football, basketball, baseball, track and field, and wrestling. Designed especially to meet the needs of high-school coaches. Members of the teaching staff have been selected for their successful teaching experience on the high-school level. The schedule will be as follows:

Football Coaching.....	8:30-10:20	ThFS	} Gilman
	1:30-3:30	ThF	
	7:30-9:30	Th	
Football Coaching.....	10:30-12:00	ThFS	} Kawasoe
Basketball Coaching.....	8:30-10:20	MTuW	
	1:00-3:00	MTuW	
	7:30-9:30	M	} To be selected
Basketball Coaching.....	10:30-12:00	MTuW	
Baseball Coaching.....	4:00-5:30	MTuW	
	7:30-9:30	Tu	} Kirsch
Track Coaching.....	4:00-5:30	MTuW	
	7:30-9:30	W	
Wrestling Coaching.....	3:30-5:30	ThF	} To be selected
Trampolining.....	3:30-5:30	ThF	
Athletic Training.....	3:00-4:00	MTuW	
			Hammer
			Nissen
			Logan

Health Education (Professional Courses)**HE 252. First Aid.** 3 hours.

A study of first aid and safety procedures for the individual schools, athletics,

and civilian defense; meets certification standards of the American Red Cross. TuWThF, 9:00. 101 Physical Education. Washke.

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 elementary-school health service program, with emphasis upon 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. TuWThF, 11:00. 101 Physical Education. Hackett.

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

Purposes and procedures of health service in the schools; control of common communicable diseases; technique of pupil health appraisal by the teacher. Prerequisite: HE 361, 362, 363, or consent of instructor. TuWThF, 8:00. 143 Physical Education. Haar.

HE 501. Research. Hours to be arranged.

HE 503. Thesis. Hours to be arranged.

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

HE 506. Special Problems. Hours to be arranged.

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

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

Current basic issues and problems in school health education; economic and social forces affecting health education; implications for the programs. MTuWTh, 2:00. 101 Physical Education. 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. MTuWTh, 1:00. 101 Physical Education. Haar.

HISTORY

Professors: BREEN, WRIGHT. Associate Professors: SORENSON. Assistant Professor: SMITH.
Instructor: SNOW. Visiting Faculty: JOHANSEN, DULLES.

Hst 101. History of Western Civilization. 4 hours.

Origins and development of Western civilization: the ancient and mediaeval periods. First term of a three-term sequence. Daily, 8:00. 232 Commonwealth. Snow.

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

The United States, 1840-1896. Second term of a three-term sequence. Daily, 11:00. 232 Commonwealth. Johansen.

Hst 203. History of the United States. 4 hours.

The United States since 1896. Third term of three-term sequence. Daily, 9:00. 332 Commonwealth. Dulles.

Hst 405. Reading and Conference. 1 to 3 hours.

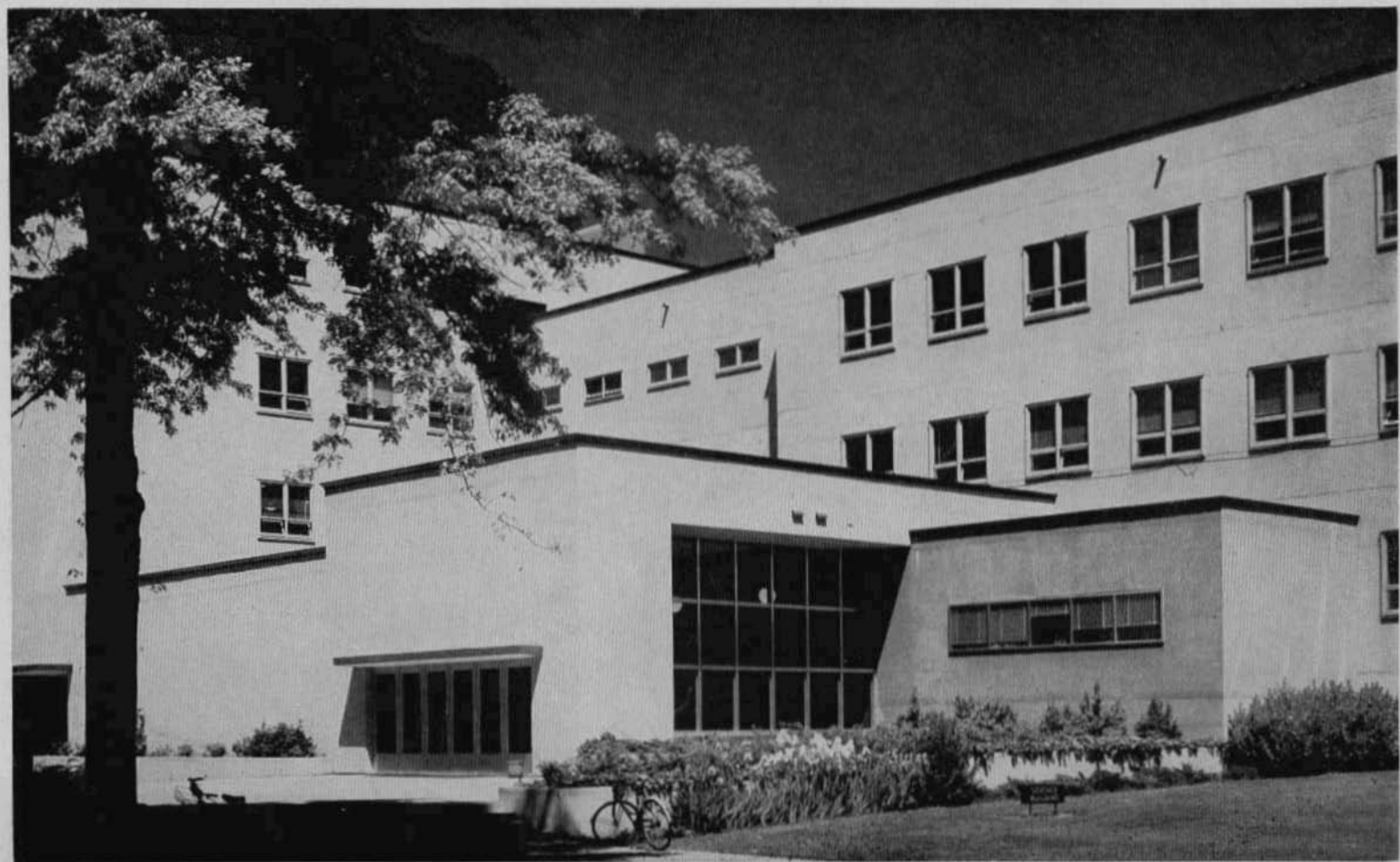
Directed readings in a special field, with a written report or examination. Open only to students eligible for honors (cumulative GPA of 2.75).

Hst 411. History of Greece. (G) 4 hours.

Political and cultural history of ancient Greece. Daily, 8:00. 237 Commonwealth. Breen.



THE UNIVERSITY OF OREGON LIBRARY



Hst 418. Studies in Western Civilization. (g) 4 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. Daily, 8:00. 333 Commonwealth. Smith.

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

Political, economic, and intellectual problems in the history of Western civilization, from 1815 to the present. Intended primarily for teachers; attention to aspects that are particularly applicable to teaching assignments. Daily, 10:00. 232 Commonwealth. Smith.

Ed 440. History of Education. (G) 4 hours.

A general review of the growth and development of education in relation to the civilization of the times; emphasis on development of educational philosophies. Daily, 1:00. 237 Commonwealth. Breen.

Hst 445. Europe Since 1939. (g) 4 hours.

Origins and course of World War II; postwar developments in Europe, domestic and international. Daily, 10:00. 237 Commonwealth. Wright.

Hst 448. Soviet Union. (G) 4 hours.

The revolution of 1917; Russian domestic and foreign policies from 1917 to the present. Daily, 8:00. 242 Commonwealth. Wright.

Hst 466. Tudor England. (G) 4 hours.

England under the Tudors and Stuarts, 1485-1689. Daily, 11:00. 237 Commonwealth. Snow.

Hst 474. American Foreign Relations. (g) 4 hours.

American foreign policy during the middle period of American history. Second term of a year sequence. Daily, 11:00. 242 Commonwealth. Dulles.

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

Not open to students who have had Oregon History (Hst 377). Meets state requirement for teacher certification. Daily, 9:00. 242 Commonwealth. Johansen.

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

The economic development of the United States, 1900 to the present. Third term of a year sequence. Daily, 9:00. 232 Commonwealth. Sorenson.

Hst 501. Research. Hours to be arranged.**Hst 503. Thesis. Hours to be arranged.****Hst 505. Reading and Conference: Modern European History. 3 hours.**

Time to be arranged. Smith.

Hst 505. Reading and Conference: Twentieth-Century American History. 3 hours.

Time to be arranged. Dulles.

Hst 507. Seminar: Mediaeval Monasticism. 3 hours.

Time to be arranged. Breen.

Hst 507. Seminar: Pacific Northwest. 3 hours.

Time to be arranged. Johansen.

Hst 531. European History: Problems and Interpretations. 3 hours.

Readings, reports, and group discussions of major trends, problems and interpretations in modern European history. Emphasis on standard works and on controversial viewpoints. Second term of a year sequence: the seventeenth and eighteenth centuries. Time to be arranged. Snow.

JOURNALISM

Professor: DUNCAN. Instructor: NELSON.

- J 488. **The Public and the Press.** (g) 4 hours.
Analysis of the role of newspapers, magazines, motion pictures, radio, and television in a democratic society; the problem of improving the relationship between the public and the press in the mass communication process. Not open to journalism majors. Daily, 10:00. 306 Allen. Nelson.
- J 489. **Supervision of School Publications.** (g) 4 hours.
The teacher's role in guiding student publications in secondary schools and junior colleges. Not open to journalism majors. Daily, 9:00. 306 Allen. Nelson.
- J 501. **Research.** Hours to be arranged.
- J 503. **Thesis.** Hours to be arranged.
- J 505. **Reading and Conference.** Hours to be arranged.

LIBRARY EDUCATION

Assistant Professor: AHLERS. Visiting Faculty: CHILCOTE, JAFFARIAN, SEALOFF.

- Lib 381. **Elementary Bibliography and Reference Materials.** 4 hours.
Study of important reference books, indexes, and bibliographies. Practical problems in the use of reference tools, with emphasis on reference work in the school library. Daily, 9:00. 223 Library. Sealoff.
- Lib 386. **Organization of Library Materials.** 4 hours.
Instruction and practice in simplified procedures for the acquisition, preparation, cataloging and classification of books and related library materials. MW, 1:00-2:00; TuTh, 1:00-3:00. 223 Library. Chilcote.
- Lib 484. **School Library Administration.** (g) 4 hours.
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 and equipment; standards; services; objectives. Daily, 11:00. 223 Library. Sealoff.
- Lib 488. **Books and Related Materials for Young People.** (g) 4 hours.
Primarily a reading course based on materials suitable for the junior and senior high school. Study of reading interests and curricular needs; criteria for evaluating materials; selection aids; evaluation of books and other materials. Daily, 10:00. 223 Library. Sealoff.
- Lib 505. **Reading and Conference.** 1-3 hours.
Sealoff.
- Ed 508. **Workshop: Library Services and the Curriculum.** 3 hours.
July 30-August 10. Emphasis on the library as a service agency, and on methods and materials for enriching all aspects of the school curriculum. Lectures, discussion groups, and committee work. Prerequisite: 9 hours of basic library-science courses. Daily, 9:00-12:00; 1:30-3:30. Library. Jaffarian, Ahlers, staff.

MATHEMATICS

Professor: NIVEN. Assistant Professors: SAN SOUCIE, TUCKER.

Upper-division and graduate courses offered by the Department of Mathematics during the summer session differ from those offered during the regular session. Regular-session students should consult the head of the department before planning their programs.

Candidates for the Master of Arts, Master of Science, and Doctor of Philosophy degrees may obtain detailed information on requirements for those degrees at the Mathematics Office.

The following sequences are designed primarily for teachers working toward the degree of Master of Science in General Studies:

- Mth 479 (g), Mth 579. Algebra. 6 hours.
Mth 489 (g), Mth 589. Geometry. 6 hours.
Mth 499 (g), Mth 599. Foundations of Mathematics. 6 hours.

It is the intention of the department to offer at least three of the total six terms of work in these courses each summer; the courses will be scheduled in such a manner that a student may complete two sequences in at most three summers and three sequences in at most four summers. Mth 489, Mth 579, and Mth 599 are being offered this summer. Mth 479, Mth 499, and Mth 589 are scheduled for 1957; and Mth 487, Mth 579, and one other course for 1958.

A special course, Mth 7, suitable for elementary-school and junior-high-school teachers will be offered.

Mth 7. Mathematics for Elementary Teachers. 3 hours.

Elements of arithmetic, algebra, and geometry. A required course in the elementary teacher training program. Daily, 9:00. 102 Deady. Niven.

Mth 10. Elements of Algebra. 3 hours.

Intended for students who have had less than one year of high-school algebra. May be integrated with Mth 7 if there is not sufficient enrollment to justify a separate section. Daily, 9:00. 106 Deady.

Mth 101. Essentials of Mathematics. 4 hours.

Intermediate algebra, with applications. Intended for students who have had only one year of high-school algebra or who have not had algebra for some time. Daily, 11:00. 104 Deady. San Soucie.

Mth 107. Analytic Geometry. 4 hours.

Plane analytic geometry and an introduction to solid analytic geometry. Prerequisite for calculus. Daily, 10:00. 106 Deady.

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

To be offered by reading and conference. Enrollment restricted to students whom the department feels need the course and are sufficiently well prepared to take it with little formal class instruction. Time and place 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. MTuWTh, 10:00. 11 Deady. Tucker.

Mth 489. Geometry. (g) 3 hours.

Intended primarily for high-school mathematics teachers. Geometry before 1800 A.D., Euclidean geometry after Euclid, theorems of Euclidean geometry which connect it with projective geometry, properties of the circle. Prerequisite: consent of instructor. MTuWTh, 8:00. 11 Deady. Tucker.

Mth 503. Thesis. Hours to be arranged.**Mth 505. Reading and Conference.** Hours to be arranged.**Mth 579. Algebra.** 3 hours.

Intended primarily for mathematics teachers. Theory of equations and determinants, selected algebraic topics, introduction to modern algebra. Prerequisite: analytical geometry. MTuWTh, 11:00. 102 Deady. Niven.

Mth 599. Foundations of Mathematics. 3 hours.

Selected topics leading to a better understanding of the nature of mathematics. MTuWTh, 9:00. 104 Deady. San Soucie.

MUSIC

Professors: KRATT, NYE. Associate Professors: BOUGHTON, GREEN, VAGNER.
Assistant Professors: ANDERSON, LEE, RISINGER.
Visiting Faculty: MADSEN, MILLER.

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

Mus 190. Applied Music. 1 to 2 hours.

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

Piano—Green. Stringed Instruments—Boughton.
Voice—Anderson. Brass Instruments—Lee.
Woodwind Instruments—Vagner.

Mus 290. Applied Music. 1 to 2 hours.

Sophomore year. Continuation of Music 190.

MuE 351. Voice Class. 2 hours.

Study of voice problems in the public schools. MWF, 2:00. 202 Music. Anderson.

MuE 370. Music for Elementary Teachers. 3 hours.

Music activities for the elementary teacher. The first term of an introductory sequence designed to build basic musicianship through experiences related to the teaching of music in the elementary-school classroom. Required of majors in elementary education. MTuThF, 10:00. 203 Music. Madsen.

Mus 390. Applied Music. 1 to 2 hours.

Junior year. Prerequisite: Mus 290 or equivalent and qualifying examination for upper-division standing.

Mus 395. Band. 1 hour.

Interpretation and performance of band literature, including the reading of selected music for high-school band. Open to all students. MTuWTh, 3:00. Music Auditorium. Vagner.

Mus 396. Orchestra. 1 hour.

Study and performance of orchestral literature. TuTh, 2:00, W, 7:00-9:00. Music Auditorium. Boughton.

Mus 397. Choral Union. 1 hour.

The preparation of a significant choral work in the larger form for public performance at the close of the summer session. Open to all students. MTuWTh, 1:00. 202 Music. Risinger.

Mus 405. Reading and Conference. Hours to be arranged.**MuE 407. Seminar: Wind-Instrument Literature and Techniques.** (G) 3 hours.

A survey of wind literature from the sixteenth through the twentieth century, with emphasis on interpretation and techniques of teaching. Performance, analysis, and special study projects. MTuWTh, 11:00. 104 Music. Vagner.

MuE 407. Seminar: Choral Music in the Upper Grades and Junior High School. (G) 3 hours.

Survey of appropriate material for chorus and special performing groups. Problems of organization and rehearsal techniques. MTuThF, 10:00. 202 Music. Risinger.

MuE 407. Seminar: Choral Music in the High School. (G) 3 hours.

Survey of representative choral literature. Interpretation, rehearsal techniques, and problems of organization. Students may bring additional material of their own selection for reading and study. MTuThF, 11:00. 202 Music. Risinger.

MuE 407. Seminar: Techniques of the Marching Band. (G) 3 hours.

The techniques of planning rehearsals, performance, and arranging music for outdoor presentation; a symposium of new trends. MTuThF, 8:00. 104 Music. Lee.

MuE 407. Seminar: String Literature and Techniques. (G) 3 hours.

Survey of representative literature for stringed-instrument groups. Performance, analysis, and special study projects. MTuThF, 10:00. 201 Music. Boughton.

MuE 407. Seminar: Music in the Primary Grades. (G) 2 hours.

First four weeks. Curriculum, materials and procedures of music teaching in kindergarten through third grade. Designed for classroom teachers, music majors, and administrators. This course, in combination with Seminar: Music in the Intermediate Grades. (MuE 407), satisfies the methods course requirement in the elementary area. Daily, 9:00. 203 Music. Nye.

MuE 407. Seminar: Music in the Intermediate Grades. (G) 2 hours.

Second four weeks. Curriculum, materials, and procedures of music teaching in grades 4, 5, 6. Designed for classroom teachers, music majors, and administrators. This course, in combination with Seminar: Music in the Primary Grades (MuE 407), satisfies the methods course requirement in the elementary area. Daily, 9:00. 203 Music. Nye.

Mus 407. Seminar: Analysis of Music Structure. (G) 2 hours.

For advanced students in music education. MWF, 2:00. 104 Music. Green.

Mus 407. Seminar: Theory. No credit.

Offers students an opportunity to remove deficiencies in theory, and acquire the requisite facility in theory for upper-division and graduate study. MTuThF, 9:00. 104 Music. Green.

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

Music in the classical period. MTuThF, 9:00. 202 Music. Miller.

MuE 408. Special Teaching Methods: Music. 1-3 hours.

Conferences and reports on materials and procedures used in vocal and instrumental teaching. Prerequisite: consent of instructor.

Mus 430. Introduction to Musicology. (G) 3 hours.

Study of the methods of research in music, and application of research techniques to particular musical problems. Prerequisite: Mus 360, 361, 362 or consent of instructor. MTuThF, 8:00. 202 Music. Miller.

Mus 490. Applied Music. 1 to 2 hours.

Senior year. Continuation of Mus 390, which is prerequisite. For instructors, see Mus 190.

Mus 501. Research. Hours to be arranged.**MuE 501. Research.** Hours to be arranged.**Mus 503. Thesis.** Hours to be arranged.**MuE 503. Thesis.** Hours to be arranged.**Mus 505. Reading and Conference.** Hours to be arranged.**MuE 505. Reading and Conference.** Hours to be arranged.**Mus 507. Seminar.** Hours to be arranged.**MuE 507. Seminar.** Hours to be arranged.

MuE 532. Problems in Music Education. 3 hours.

Research, reports, and discussion of problems and issues in music education. Prerequisite: consent of instructor. MTuThF, 10:00. 104 Music. Nye.

MuE 534. Music in the Junior High School. 3 hours.

The junior-high-school pupil; the general music class; integration and correlation; listening, playing, and creative experiences; survey of the vocal and instrumental program; teaching aids; music in the school and community. MTuThF, 1:00. 203 Music. Madsen.

Mus 590. Applied Music. 1 to 4 hours.

Individual instruction in piano, voice, stringed instruments, orchestral and band instruments, at the graduate level.

High School Music Summer Session

A three-week summer session for high-school students in band and orchestra will be held on the campus from June 24 to July 13. Observation of the rehearsals of the high-school groups will be interesting and valuable to high-school music teachers.

PHYSICS

Professors: ELLICKSON, CH'EN. Associate Professors: DART, EBBIGHAUSEN.

Ph 411. Modern Physics. (G) 3 hours.

The basic principles underlying modern developments in physics. Topics discussed include radioactivity, nuclear physics, and atomic energy, with special emphasis on topics suitable for presentation to high-school students. Lectures, MTuWTh, 10:00. 16 Science.

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 the physical sciences discussed with special attention given to those commonly considered in elementary and high-school science courses. The use, care, and adjustment of laboratory and demonstration equipment. Daily, 11:00. 16 Science. Ebbighausen.

POLITICAL SCIENCE

Professors: SCHLEICHER, SCHUMACHER. Assistant Professor: SELIGMAN. Instructor: MARQUIS.

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. MTuWTh, 8:00. 332 Commonwealth. Schumacher.

PS 320. World Politics. 4 hours.

Basic principles of the modern state system; analysis of factors making for conflict and cooperation. Daily, 11:00. 332 Commonwealth. Schleicher.

PS 414. Political Parties and Election Problems. (G) 4 hours.

The function of parties; nomination and election machinery; the 1956 presidential campaign. Daily, 10:00. 332 Commonwealth. Schumacher.

PS 424. The Struggle for Asia: Democracy vs. Communism. (G) 4 hours.

Basic conditions in Asia and the characteristics of the contest for power between Russia and the United States. Daily, 9:00. 333 Commonwealth. Schleicher.

PS 501. Research. Hours to be arranged.**PS 503. Thesis.** Hours to be arranged.**PS 505. Reading and Conference: American Government and Politics.** Hours to be arranged.

309 Commonwealth. Schumacher.

PS 505. Reading and Conference: International Relations. Hours to be arranged.

308 Commonwealth. Schleicher.

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 considered in detail. Daily, 8:00-10:00. 104 Education. Bennett, Bisno, Campbell, Luchins, Seligman, Tope.

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

For advanced graduate students who are at or past the master's level. Draws from the literature in 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. MTuWTh, 10:00-12:00. 104 Education. Dubin, Marquis, Jacobson, staff.

PSYCHOLOGY

Associate Professor: LUCHINS. Assistant Professors: MYRICK, VON HOLT. Instructor: CHERTOK. Visiting Faculty: COSTIN.

Psy 201. General Psychology. 3 hours.

Introductory study of behavior and conscious processes. Survey of experimental studies with reference to motivation, learning, thinking, perceiving, and individual differences. MTuWTh, 9:00. 301 Condon. Myrick.

Psy 334. Social Psychology. 4 hours.

Analysis of the psychological and sociological processes involved in personality formation and in various forms of group behavior. Particular attention to origin, function, ideologies, membership, and leadership. Prerequisite: Psy 201, 202 or Soc 204, 205. Daily, 8:00. 241 Commonwealth. Chertok.

Psy 421. Clinical Methods in Psychology. (G) 2 hours.

Application of psychological methods to the study of the individual; survey of intelligence tests; theoretical and statistical background for interpretation of test scores. Prerequisite: course in statistics or mental measurement. MWF, 9:00. 201 Condon. von Holt.

Psy 424. Mental-Testing Laboratory. (G) 2 hours.

Supervised practice in administration, scoring, and interpretation of the Stanford-Binet tests. Psy 421 must be taken concurrently if it has not been taken previously. Prerequisite: consent of instructor. MWF, 10:00. 201 Condon. von Holt.

Psy 425. Mental-Testing Laboratory. (G) 2 hours.

Supervised practice in administration, scoring, and interpretation of the Wechsler tests. Psy 421 must be taken concurrently if it has not been taken previously. Prerequisite: consent of instructor. MWF, 11:00. 201 Condon. von Holt.

Psy 436. Character and Personality. (g) 3 hours.

Development, functioning, and measurement of personality in normal individuals; emphasis on the mode of operation of the social environment on personality. Prerequisite: Psy 204 or equivalent. MTuWTh, 1:00. 301 Condon. von Holt.

- Psy 460. Developmental Psychology: Infancy and Childhood.** (g) 3 hours.
Growth of behavior during the prenatal period, infancy, and childhood. Development of muscular activities, perception, emotional adjustment, intelligence, language, and social behavior in childhood. Not open to students who have completed Ed 460. MTuWTh, 8:00. 370 Commonwealth. Costin.
- Psy 461. Developmental Psychology: Adolescence.** (g) 3 hours.
Study of the behavior changes during pre-adolescence and adolescence as related to physiological development and social and cultural factors. Emphasis on personal and social adjustment. Intended to follow Psy 460. Not open to students who have completed Ed 461. MTuWTh, 9:00. 370 Commonwealth. Costin.
- Psy 467. Learning.** (G) 3 hours.
A critical study of the psychology of learning; experimental work and related theoretical formulations on conditioning, concept formation, trial-and-error learning, problem solving, and development of skills. MTuWTh, 8:00. 301 Condon. Myrick.
- Psy 501. Research.** Hours to be arranged.
- Psy 503. Thesis.** Hours to be arranged.
- Psy 505. Reading and Conference.** Hours to be arranged.
- Psy 507. Seminar: Psychology of Small Groups.** 3 hours.
An application of the principles of social psychology to a special situation involving fewer people. TuTh, 1:00-3:00. 201 Condon. Myrick.
- Psy 507. Seminar: Scope and Method 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 considered in detail. Daily, 8:00-10:00. 104 Education. Bennett, Bisno, Campbell, Luchins, Seligman, Tope.

SOCIOLOGY

Professor: DUBIN. Assistant Professors: BISNO, JOHANNIS, SCOTT.
Instructor: CHERTOK. Visiting Faculty: WILLIAMS.

- Soc 334. Social Psychology.** 4 hours.
Analysis of the psychological and sociological processes involved in personality formation and in various forms of group behavior. Particular attention to origin, function, ideologies, membership, and leadership. Required of all majors. Prerequisite: Soc 204, 205 or Psy 201, 202. Daily, 8:00. 241 Commonwealth. Chertok.
- Soc 407. Seminar: Industrial Sociology.** (G) 4 hours.
Work behavior and its social consequences: the worker in industrial society; industry and the community. TuTh, 2:00-4:30. 234 Commonwealth. Dubin.
- Soc 416. Criminology and Delinquency.** (G) 4 hours.
The nature and extent of delinquency and crime as forms of deviant social behavior; contributing factors; current prevention and treatment programs. Prerequisite: Soc 204, 205; or Psy 201, 202; or Soc 307. Daily, 10:00. 244 Commonwealth. Chertok.
- Soc 466. The Family in American Culture.** (G) 4 hours.
Class, ethnic, and religious variations in patterns of family living, intensive study of selected subcultural patterns of family living, including the Negro family; dynamics of family interaction; changes and trends in family living. Prerequisite: Soc 465 or equivalent. Daily, 9:00. 243 Commonwealth. Johannis.
- 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: Behavioral Science Research Laboratory. 12 hours.

In cooperation with the Social Science Research Council, this course is offered as an intensive training experience in social research. Professor Robin M. Williams, Jr., of Cornell University has been invited to conduct it. A study will be designed, carried out, analyzed, and written up. The purpose is to gain experience in interrelating the problems that arise at all stages of a research undertaking. A limited number of substantial scholarships will be granted for enrollment in this course, application for which should be made directly to the Department of Sociology. Enrollment constitutes a full-time summer course load. Limited to 15 students. Daily, 8:00-4:00. 209 Commonwealth. Williams.

Soc 507. Seminar: Scope and Method of the Social Sciences. 3-6 hours.

The background and perspectives of each of the social science disciplines—anthropology, economics, political science, psychology, and sociology. Selected aspects of social organization and process considered in detail. Daily, 8:00-10:00. 104 Education. Bennett, Bisno, Campbell, Luchins, Seligman, Tope.

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

For advanced graduate students who are at or past the master's level. Draws from the literature in 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. MTuWTh, 10:00-12:00. 104 Education. Dubin, Marquis, Jacobson, staff.

Soc 508. Workshop: Intergroup Relations. 3 hours.

July 9-20. Designed for teachers and community leaders whose activities involve intergroup relations, either through 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. Scott.

SPEECH

Associate Professors: MONTGOMERY, ROBINSON, STARLIN. Assistant Professor: NOBLES. Instructors: KREMPFEL, RAMEY.

Sp 111. Fundamentals of Speech. 3 hours.

Projects in extempore speaking. Primary emphasis on content, organization, and adjustment to the speaking situation. MTuWTh, 8:00. 205 Villard. Nobles.

Sp 114. Voice and Diction. 3 hours.

Study and practice of the principles of tone production. Phonetic analysis of English sounds as a basis for correct and effortless diction. Intended for students who have slight deviations in voice and diction, and for foreign students. TuWThF, 9:00. 205 Villard. Montgomery.

Sp 261, 262, 263. Theater Principles. 3 hours.

Development of the physical theater and the mechanics of its stage and shops; planning and construction of stage settings and properties; basic principles of stage lighting. MTuWTh, 2:00. 103 Villard. Ramey.

Sp 321. Argumentation, Discussion, and Persuasion. 3 hours.

Argumentation; principles and practice in discussion forms; audience motivation and nature of audience response. MTuWTh, 10:00. 205 Villard. Nobles.

Sp 364. Play Direction. 3 hours.

Sources of dramatic material, choice of play, casting and rehearsal of players, production organization. Practical experience in directing. Designed especially for directors of school and community plays. MTuWTh, 1:00; 6 or more laboratory periods. 102 Villard. Krempel.

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

Instruction in speech and speech forms designed for classroom use. Required for English majors who intend to teach, but open to all prospective teachers. MTuWTh, 2:00. 205 Villard. Nobles.

Sp 446. Radio and Television Program Production. (G) 3 hours.

Theory and practice of production techniques as they apply to major program types. MTuWTh, 9:00. 304 Villard. Starlin.

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

The influence and importance of broadcasting as a social, political and cultural force; the development of broadcasting; commercial versus public-service broadcasting; the rights and duties of listeners; public opinion and propaganda influence. MTuWTh, 11:00. 217 Villard. Starlin.

Sp 466. History of the Theater. (G) 3 hours.

An historical study of the theater from ancient to modern times. MTuWTh, 10:00. 206 Villard. Robinson.

Sp 482. Speech Defects and Disorders. (G) 3 hours.

Symptoms and causes of speech abnormalities; emphasis on diagnosis and basic pathology of articulatory defects and delayed speech, with discussion of methods of treatment limited to general principles. TuWThF, 11:00. 101 Villard. Montgomery.

Sp 483. Clinical Methods in Speech Correction. (G) 3 hours.

Study of specific approaches and techniques in the treatment of the major speech defects, including functional articulatory difficulties, cleft-palate speech, stuttering, and neurological speech disorders. TuWThF, 1:00. 101 Villard. Montgomery.

Sp 484, 485, 486. Clinical Practice in Speech Correction. (G) 2-6 hours.

Actual case experience for student clinicians in the diagnosis and treatment of speech-defective children and adults, under supervision. Time to be arranged. Montgomery.

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: Discussion and Debate. 3 hours.**

MTuWTh, 1:00. 206 Villard. Nobles.

Sp 507. Seminar: Problems of Education by Television. 3 hours.

MTuWTh, 8:00. 217 Villard. Starlin.

Sp 507. Seminar: Technical Problems of the Theater. 2-4 hours.

Time to be arranged. Ramey.