

An aerial photograph of the University of Oregon campus, showing various buildings, a large central lawn with a star-shaped path, and surrounding residential areas.

UNIVERSITY OF OREGON

June 21 to August 13

1954

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UNIVERSITY OF OREGON

BULLETIN

Oregon State System
of Higher Education

UNIVERSITY OF OREGON BULLETIN

NUMBER 34

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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, and Eastern Oregon College of Education at La Grande. The Portland State Extension Center, the University of Oregon Medical School, and the University Oregon Dental School are located Portland.

Each of the institutions provides the general studies fundamental to a well-rounded education. At the three colleges of education, students who do not plan to become teachers may devote their time to general studies or (at Southern Oregon and Eastern Oregon colleges of education) to approved lower-division programs in certain semi-professional fields.

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.

Oregon State System of Higher Education

CHARLES D. BYRNE, Ed.D., Chancellor

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and Director of Information

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VIRON A. MOORE, Ed.D.....Assistant Dean of General Extension
JAMES C. CAUGHLAN, Ph.D.....Assistant Dean of General Extension

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IMOGENE CUSAC, B.A., B.A. in L.S.....Cataloger for Union Catalog

High School-College Relations Committee

E. DEAN ANDERSON, M.A.....Executive Secretary

* Appointment effective March 1954. Victor P. Morris, Ph.D., served as acting president from September 1953 to March 1954.

University of Oregon

Summer Session 1954

Faculty

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O. MEREDITH WILSON, Ph.D., President, University of Oregon.

PAUL B. JACOBSON, Ph.D., Director, University of Oregon Summer Sessions.

JOEL V. BERREMAN, Ph.D., Chairman, Committee on General Studies.

BARBARA MOLTZAU, Secretary of Summer Sessions.

ELDON L. JOHNSON, Ph.D., Dean of the Graduate School.

CLIFFORD L. CONSTANCE, M.A., Registrar.

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J. ORVILLE LINDSTROM, B.S., Business Manager.

CARL W. HINTZ, Ph.D., Librarian.

EARL M. PALLETT, Ph.D., Director of Teacher Placement.

DONALD M. DUSHANE, M.A., Director of Student Affairs.

GOLDA WICKHAM, B.S., Associate Director of Student Affairs.

N. RAY HAWK, D.Ed., Associate Director of Student Affairs.

H. PHILIP BARNHART, B.S., Director of Dormitories.

RICHARD C. WILLIAMS, B.S., Director of Student Union.

ELEANOR E. AHLERS, A.B., B.L.S., Assistant Professor of Library Science.

EXINE M. ANDERSON, M.A., Assistant Professor of Voice.

CURTIS E. AVERY, M.A., Director of E. C. Brown Trust; Professor of Education.

WALLACE S. BALDINGER, Ph.D., Associate Professor of Art; Curator of Museum of Art.

THOMAS O. BALLINGER, M.A., Assistant Professor of Art and Education.

ALBERT J. BERNATOWICZ, Ph.D., Instructor in Biology.

JOEL V. BERREMAN, Ph.D., Professor of Sociology.

ALDEN H. BLANKENSHIP, Ph.D., Superintendent, Tacoma Public Schools; Visiting Professor of Education.

GEORGE BOUGHTON, Mus.M., Associate Professor of Violin.

DAVID G. BOURGIN, Ph.D., Professor of Mathematics, University of Illinois; Visiting Professor of Mathematics.

QUIRINUS BREEN, Ph.D., Professor of History.

ROBERT CAMPBELL, Ph.D., Assistant Professor of Economics.

VERNON CARSTENSEN, Ph.D., University of Wisconsin; Visiting Associate Professor of History.

ALBUREY CASTELL, Ph.D., Professor of Philosophy; Head of Department.

SHANG-YI CH'EN, Ph.D., Associate Professor of Physics.

HARRISON H. CLARKE, Ed.D., Research Professor of Physical Education.

- HERMAN COHEN, Ph.D., Instructor in Speech.
DAVID L. COLE, B.S., Research Assistant in Anthropology.
ROSE COFFMAN, M.A., Instructor, Roosevelt High School, Portland; Visiting Instructor in English.
RALPH C. COLLINS, Ed.D., Instructor in Education.
FRANK COSTIN, Ph.D., Assistant Professor of Psychology; Clinical Counselor.
LUTHER S. CRESSMAN, Ph.D., Professor of Anthropology; Head of Department.
SHIRLEY P. COX, M.S., Instructor in Physical Education.
JACK CULBERTSON, M.A., Instructor in Education.
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SAMUEL N. DICKEN, Ph.D., Professor of Geography and Geology; Head of Department.
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PAUL S. DULL, Ph.D., Associate Professor of Political Science and History.
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GORDON WRIGHT, Ph.D., Professor of History; Head of Department.

CHARLES F. ZIEBARTH, Ph.D., Associate Professor of Business Administration.

Summer Session Calendar

June 21—August 13, 1954

June 21	Registration
June 22	Classes begin
June 24	Last day for payment of registration fee without penalty
June 30	Last day for adding a course
July 4	Independence Day, holiday
July 17	Last day for withdrawal from a course
July 31	Last day for filing graduate theses
August 12-13	Final examinations

General Information

THE fiftieth annual summer session of the University of Oregon will be organized as a single session of approximately eight weeks between June 21 and August 13, 1954.

Opportunities for Teachers. Because many teachers wish to take summer work to improve their professional training, the session at the University has been planned especially to meet their needs.

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 education 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 specifies 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.

Graduate Work in Elementary Education. Graduate work in elementary education is offered by the University of Oregon. The summer faculty in this field will include visiting instructors with special competence in the field. Work will be offered both for classroom teachers and for supervisors and principals.

Administrative Credentials. Every administrator who enters an administrative position in the Oregon public schools after July 1, 1952 must have an appropriate administrative certificate. Persons engaged in administrative work before July 1, 1952 may continue without certificates until July 1, 1956. 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. A program in school administration, planned specifically to meet the requirements for each of these certificates, is offered at the University of Oregon.

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 1953 summer session of at least five weeks' duration, and (2) has been regularly employed as a teacher during the school year 1953-54.

A teacher who is eligible for veterans educational aid under this regulation may receive aid for work toward a graduate degree in the 1954 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 1954 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 1953-54, that he was so employed; the statement must show the beginning and ending dates of the 1953-54 session.

Requirements for 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 Master of Arts in General Studies and Master of Science in General Studies.

Grade Requirements. A grade of D or F or an accumulation of 9 term hours of C grades 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 Master of Arts or Master of Science 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 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 Undergraduates. A large selection of lower-division courses will be offered in the 1954 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 re-

quirements. 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 all or part of their 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.

Registration Procedure. Students will register for the summer session on Monday, June 21; classes will begin Tuesday morning, June 22. 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 18, or on Saturday morning, June 19. 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 21.

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 3:00 p.m. Monday through Friday, and from 8:00 a.m. to 12:00 noon on Saturday.

Registration fee.....	\$55.00
Students registering for 7 or more term hours of work pay this fee. There is no additional out-of-state tuition for the summer session.	
Part-time fee.....	\$14.00 to \$42.00
1 or 2 term hours, \$14.00; 3 term hours, \$21.00; 4 term hours, \$28.00; 5 term hours, \$35.00; 6 term hours, \$42.00.	
Late-registration fee, per day.....	\$1.00
Undergraduate and graduate students pay the late-registration fee if they register after 3:00 p.m. on June 24.	
Change-of-program fee.....	\$1.00
Assessed for changes made after June 30.	
Examination fee for graduate students not enrolled in summer session.....	\$10.00
Paid by students not enrolled in the summer session who take examinations for advanced degrees during the summer.	
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 summer courses for this special fee.	
Fee for children receiving instruction in Clinical School.....	\$20.00
Music fees.....	See page 44

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 of all fees over \$ 5.00
Withdrawing within first two weeks.....	Refund of all fees over \$13.75
Withdrawing after two weeks and before beginning of fifth week.....	Refund of all fees over \$27.50
Withdrawing after beginning of fifth week.....	No refund

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

Board and Room. Board and room for both men and women will be available during the summer session in University halls of residence: for men, in the John Straub Memorial Building; for women, in Carson Hall. Students living in the halls must also board in the dormitory dining rooms (exceptions may be granted in unusual cases). Blankets and bed linen, and the laundry of these items, are furnished by the halls; students furnish their own towels. Applications for reservation of dormitory rooms should be sent to the Director of Housing, Business Office, University of Oregon, Eugene, before the opening of the summer session.

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

One floor of Carson Hall will be reserved for graduate women students and for mature women teachers. These dormitory residents will not be subject to the strict supervision provided for undergraduate women students.

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

	Multiple Occupancy		Board*	Total, Room & Board	
	Multiple Occupancy	Single Occupancy		Multiple	Single
Straub (men)					
Eight-week session	\$42.00	\$56.00	\$94.50	\$136.50	\$150.50
Four-week session	21.50	28.50	48.50	70.00	77.00
Three-week course	16.00	21.50	36.50	52.50	58.00
Two-week course	10.75	14.25	24.25	35.00	38.50
One-week course	7.00	9.00	13.25	20.25	22.25
Per day	1.75	2.25	2.50†	4.25	4.75
Carson (women)					
Eight-week session	\$55.00	\$70.00	\$94.50	\$149.50	\$164.50
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

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

	Straub		Carson	
	Multiple	Single	Multiple	Single
At the opening of session.....	\$ 68.25	\$ 75.25	\$ 74.75	\$ 82.25
Prior to 3:30 p.m., July 19.....	68.25	75.25	74.75	82.25
	\$136.50	\$150.50	\$149.50	\$164.50

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 July 1, or if the second installment is not paid by July 19.

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

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

† Rates per meal: breakfast, 50 cents; lunch, 80 cents; dinner, \$1.20.

Board and room charge are paid at the University Cashier's office, Emerald Hall. This office is open, Monday through Friday, from 8:00 a.m. to 12 noon and from 1:00 to 3:00 p.m., and on Saturday from 8:00 a.m. to 12 noon.

The dormitories will be open for the summer session at 1:00 p.m. on Sunday, June 20; the first meal served will be breakfast on Monday. The dormitories will close Saturday noon, August 14; the last meal served will be dinner on Friday. Meals will be served on July 4.

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. The office of the Housing Secretary will be open about this time to help students obtain satisfactory living quarters.

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 undergraduates during the summer session. Mature undergraduate teachers are excepted from these rules.

(1) Freshmen 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.

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.

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.

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 summer 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.

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.

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.

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.

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.

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

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

ANTHROPOLOGY

Professor: CRESSMAN. Associate Professor: LAUGHLIN. Field Assistant: COLE.

Anth 408. **Field Work in Anthropology.** (G) 9 hours.

Archeological field work in Oregon. Prerequisite: consent of instructor. Cressman, Cole.

Anth 456. Races and Cultures of the Circumpolar Regions. (G) 4 hours.

An introductory survey of the physical, cultural, and linguistic characteristics of the Eskimo, Aleut, Chukchee, Samoyed, Lapps, and other circumpolar peoples. Attention to prehistory and to contemporary problems of adjustment. Prerequisite: senior standing. Daily, 11:00. 104 Science. Laughlin.

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 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. 126 Education. Foskett, Laughlin, Littman, Macy, Ostrom, Tope.

ARCHITECTURE AND ALLIED ARTS

Professors: HAYDEN, LITTLE. Associate Professors: BALDINGER, FERENS, M. D. ROSS, VICTORIA A. ROSS. Assistant Professor: BALLINGER, SPONENBURGH, WILKINSON.
Instructor: MILLER. Visiting Professors: HOOK, MASLEY.

Applied Design**AA 255. Ceramics.** 2-4 hours.

Introduction to ceramic techniques and materials. Throwing and moulding. Surface decoration and two- and three-dimensional surfaces. Students participate in stacking, firing, and drawing the kilns. Open to nonmajors. MTuWTh, 1:00-4:00. East Studio, Architecture. Ross.

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. MTuWTh, 1:00-4:00. East Studio, Architecture. Ross.

Architecture

Courses in advanced architectural design are available to major students at the University of Oregon and from other accredited schools. Visiting students will be graded in design according to the Oregon system, and may take their finished work for final grading to their own schools. The number of credit hours for completed work is flexible, and only grades of "pass" or "not pass" are given. Visiting students registering for credit should submit a letter from their dean indicating their design status.

Design students must register for not less than 4 credit hours. Credit for completed work will not be given in excess of the number of hours for which the student has registered.

AA 387, 487, 587. Architectural Design. 1-10 hours.

No-grade course. Problems in advanced architectural design intended for students who wish to accelerate their studies, to make up past deficiencies, or to work towards completion of degree requirements. Open to major students and qualified students from other institutions. Criticisms daily, 8:00-5:00, appointments to be arranged. 200 Architecture. Hayden, Ferens, Miller, Ross.

AA 507. Seminar: Design Coordination. 1 hour.

W, 4:00. Seminar Room, Architecture.

Art Education

- ArE 311. **Creative Arts and Crafts for the Elementary Teacher.** 3 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. MTuWTh, 8:00-10:00. 221 Architecture. Ballinger.
- ArE 315. **Art Education in the Junior High School.** 3 hours.
Art activities in the junior high school; the needs and abilities of the pre-adolescent child relative to self-expression; critical evaluation of art materials in terms of student experience; laboratory work with basic problems in the junior-high-school art program. MTuWTh, 10:00-12:00. 221 Architecture. Ballinger.
- ArE 401. **Special Studies: Watercolor Techniques and Methods.** (g) 2-4 hours.
A special summer course designed to meet the needs of beginning and advanced students and teachers interested in investigating watercolor and gouache media. Demonstrations, use of materials, mounting, and other related study. Studio work supplemented by class field trips and sketch problems. Sec. 1, MTuWTh, 8:00-10:00. Sec. 2, MTuWTh, 10:00-12:00. Studio, Architecture. Hook.
- ArE 415. **Art Education in the High School.** (G) 3 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. MTuWTh, 10:00-12:00. 222 Architecture. Ballinger.
- ArE 405. **Senior Assigned Reading.** (g) Hours to be arranged.
- ArE 501. **Special Studies.** Hours to be arranged.
Ballinger, Hook.
- ArE 505. **Assigned Reading.** Hours to be arranged.
Ballinger, Masley. 221 Architecture.
- ArE 532. **Art Education in the Elementary School.** 3 hours.
A children's laboratory art class will serve as a resource unit for graduate students doing research in the field. Children's work will be examined, evaluated, and studied in seminar meetings. Practice teachers may enroll without graduate status. Time to be arranged. Masley, Ballinger. 220 Architecture.

Art History

- AA 440, 441, 442. **Contemporary American Architecture.** (G) 3 hours.
The development of architecture in the United States in the present century. Emphasis on regional building in the Northwest. Open to nonmajors. Students must register for full sequence. MTuWTh, 11:00. 107 Architecture. Ross.
- AA 476. **Backgrounds of Modern Art.** (G) 3 hours.
Intensive study of contemporary architecture, sculpture, painting, and other arts. Conducted as a seminar. Open to nonmajors. Prerequisite: consent of instructor. MTuWTh, 1:00. 107 Architecture. Baldinger.

Drawing and Painting

- AA 290. **Painting.** 2-3 hours.
Instruction for beginners in the watercolor or oil media. Landscape and studio problems designed to emphasize the significance of color. MTuWTh, 1:00-4:00. Studio B, Architecture. Wilkinson.

AA 490. Advanced Painting. (G) 3 hours.

Easel-painting in any medium. Landscape, figure, and still life. Experiences in color and light. MTuWTh, 1:00-4:00. Studio B, Architecture. Wilkinson.

AA 491. Drawing. (G) 2-3 hours.

Graphic techniques in the study of space and light. MTuWTh, 1:00-4:00. Studio B, Architecture. Wilkinson.

AA 492. Composition and Visual Theory. (G) 2 hours.

Nature of visual communication and the resources of painting. Studio problems and lectures. MTuW, 1:00-4:00. Studio B, Architecture. Wilkinson.

Sculpture**AA 393. Techniques of Sculpture.** 2-4 hours.

Figure study and composition. Techniques of stone and wood carving. Time to be arranged. Architecture. Sponenburgh.

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

No-grade course. Studies in space and motion. Application of sculpture to related fields of architecture, landscape architecture, and industrial design. M, 9:00-12:00. Sponenburgh.

Sculpture Workshop**Klamath Falls, Oregon****August 16-27**

A workshop, sponsored jointly by the General Extension Division of the Oregon State System of Higher Education and the Klamath Art Association, will be offered at Klamath Falls from August 16 to 27. Students, after attending the regular University summer session, have the opportunity to continue their work in this field in a different surrounding. Mark R. Sponenburgh, assistant professor of art, will be the instructor. For further information, see the School of Architecture and Allied Arts or the General Extension Division.

BIOLOGY

Professor: HUESTIS. Instructor: JAMESON.

Bi 401. Research Hours to be arranged.**Bi 403. Thesis.** Hours to be arranged.**Bi 405. Reading and Conference.** Hours to be arranged.**Bi 419. Advanced General Biology.** (g) 4 hours.

The principles of life science demonstrated by the use of favorable material. Seminar discussion and laboratory practice. Designed for students interested in high-school science teaching. Daily, 8:00. 314 Science. Huestis.

Bi 501. Research. Hours to be arranged.**Bi 503. Thesis.** Hours to be arranged.**Bi 505. Reading and Conference.** Hours to be arranged.**BUSINESS ADMINISTRATION**Professor: MORRIS. Associate Professor: RICHENS. Assistant Professors: ROBERT, SMITH.
Instructor: JONES.**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. 366 Commonwealth. Smith.

SS 111. Stenography. 4 hours.

Gregg shorthand. Students should also enroll in Typing (SS 121), unless they have had equivalent training. Daily, 11:00. 266 Commonwealth. Jones.

SS 121. Typing. 2 hours.

Touch typing; rhythm drills, dictation exercises; arrangement of business letters. Students with one year of high-school typing may not take SS 121 for credit. 5 hours laboratory; 1 hour home assignment. Daily, 9:00. 270 Commonwealth. Jones.

SS 211. Applied Stenography. 2-4 hours.

Development of speed in taking dictation and in transcription. Advanced phrasing and vocabulary. Intensive work with business letters, forms, and reports. Verbatim reporting of conferences. Daily, 8:00. 266 Commonwealth. Jones.

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. Prerequisites: senior standing. Hours to be arranged. Morris, staff.

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, 10:00. 370 Commonwealth. Richins.

BA 416. Business Law. (G) 4 hours.

Application of fundamental legal principles to typical business situations; illustrated by selected cases. The following topics are considered: contracts, bankruptcy, insurance, suretyship, sales, agency, personal property, real property, business organizations, partnerships, corporations, associations, trusts, joint stock companies, negotiable instruments. Daily, 9:00. 137 Commonwealth. Robert.

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

First four weeks, June 21-July 16. 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: senior standing and consent of instructor. Daily, 8:00-10:00. 366 Commonwealth. Smith.

BA 425. Real-Estate Fundamentals. (G) 4 hours.

Problems relating to the purchase, transfer, lease, and financing of land and buildings; home building, site selection, principles of house-and-lot evaluation. Open to nonmajors. Daily, 11:00. 137 Commonwealth. Robert.

BA 435. Sales Management. (G) 4 hours.

Structure of sales organizations; sales policies; control of sales operations; sales planning; market analysis; coordination of production and sales; selection, training, and management of salesmen. Prerequisite: BA 223. Daily, 1:00. 370 Commonwealth. Richins.

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

Retail policies and problems. Stock policies; control of sales operations; sales planning, market analysis; coordination of production and sales; selection, training, and management of salesmen. Prerequisite: BA 223 or consent of instructor. Daily, 2:00. 370 Commonwealth. Richins.

BA 456. Property Insurance. (G) 4 hours.

Nature of coverage, types of underwriters, types of contracts; analysis of the policy contract, special endorsements, and factors determining rates and

adjustments of losses. Prerequisite: consent of instructor. Daily, 8:00. 137 Commonwealth. Robert.

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.

BA 503. **Graduate Thesis.** Hours to be arranged.

BA 507. **Seminar: Family Financial Security Education.** 6 hours.

First four weeks, June 21-July 16. 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. 101 Commonwealth. Millhollen, staff.

BA 507. **Seminar: C.P.A. Problems.** 3 hours.

August 2-12. Intensive review of advanced accounting theory and problems, in preparation for C.P.A. examinations. Prerequisite: good background of accounting training, including courses in cost accounting, auditing, intermediate accounting theory and practice, and income taxation. Class limited to 30 students; admission by advance application only. Twenty class sessions, twenty laboratory periods. Johnson.

CHEMISTRY

Professors: KUNZ, VAN RYSSSELBERGHE. Associate Professor: SWINNHART. Assistant Professors: GORIN, KLEMM. Instructors: KITTINGER, RICHTER.

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. Assistant Professor: CAMPBELL.

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

A study of significant economic problems facing the United States today; analysis and evaluation of proposed solutions. Daily, 8:00. 134 Commonwealth. Campbell.

Ec 418. **Public Finance.** (G) 4 hours.

A study of expenditure, revenue, and borrowing programs of local, state, and Federal governments, with special attention to the effects of these programs upon the operation of the economic system. Daily, 11:00. 134 Commonwealth. Macy.

Ec 450, 451. **Comparative Economic Systems.** (g) 4 hours.

A comparative study of capitalism and alternative systems, with emphasis upon background, similarities, and differences. Daily, 10:00. 134 Commonwealth. Campbell.

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

Economic development of the United States since 1900. Daily, 11:00. 107 Commonwealth. Sorenson.

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

Macy.

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

Campbell.

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

Campbell.

EDUCATION

Professors: BERREMAN, BREEN, CASTELL, CLARKE, JACOBSON, KAMBLY, KILLGALLON, MACY, PALLETT, TOPE. Associate Professors: FOSKETT, HEARN, LAUGHLIN, LITTMAN, ROMNEY, SANDIN, ZIEBARTH. Assistant Professors: GOLDHAMMER, MILLHOLLEN, OSTROM, PIERCE-JONES, RUMMEL, SELIGMAN, SORENSON, SUNDBERG. Instructors: COLLINS, JOHANNIS, KRAUS. Visiting Faculty: BLANKENSHIP, COSTIN, CULBERTSON, DEAN, FOWLKES, GUBSER, HINES, HOGG, HURLEY, IRISH, JUILFS, KIRKENDALL, KNIGHT, KRUZNER, LOBAUGH, LOGSDON, MARSH, NUTTING, SHIBLER, SMITH, SPEARS.

Post-Session. There will be a two-week post session for graduate students in education from August 16 to 27. Three term hours of credit may be earned in Reading and Conference (Ed 505). The fee for this session is \$7.00 per term hour. Professors Hearn, Killgallon, and Sandin will be in charge of the post session.

General Education

Ed 311. Secondary Education in American Life. 3 hours.

Education as a career, function of education in a democracy, historical backgrounds, characteristics and needs of pupils, basic principles of teaching, the secondary-school curricula, pupil personnel work, school activities, school-community relationships. Prerequisite: Psy 201. MTuWF, 9:00. 134 Commonwealth. Collins.

Ed 312. Educational Psychology. 3 hours.

Physical, mental, emotional, and social development as bases for learning; educationally significant individual and group differences; learning and factors affecting learning. Daily, 1:00. 130 Education. Costin.

Ed 313. 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 312 or equivalent. MTuWTh, 11:00. 125 Education. Kambly.

Ed 316. Oregon School Law and System of Education. 2 hours.

Analysis of the Oregon school system and of the laws on which the system is based. Problems of Oregon schools, plans proposed for their solution, and trends in educational development in the state. Prerequisite: Ed 311. MWF, 11:00. 126 Education. Goldhammer.

Ed 405. Reading and Conference: Institute for Educational Secretaries. 1 hour.

July 26-30. One week conference for educational secretaries, following the convention of the National Association of Educational Secretaries, a division of the N.E.A., to be held in Eugene. Theme of institute: "Improve Yourself." General session daily from 8:30 to 10:00, with addresses by representatives of the University administration. Classes from 10:00 to 12:00 and from 1:00 to 4:00 in speech, psychology, art appreciation, personal finance, trends in education, personnel management, bookkeeping, secretarial techniques, report writing, etc. Classes taught by University faculty members and other specialists. Sponsored jointly by the School of Education, the School of Business Administration, and the Association of Educational Secretaries. Admission by preregistration, on a form mailed to educational secretaries throughout the United States. All classes held in Commonwealth Hall. Fee: \$14.00.

Ed 424. Measurement in Education. (G) 4 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. Daily, 11:00. 242 Commonwealth. Costin.

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

Second four weeks, July 19-August 13. 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. 136 Education. Kruzner.

Psy 460. Psychology of Infancy and Childhood. (g) 4 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. Daily, 11:00. 301 Condon. Littman.

Psy 461. Psychology of Adolescence. (g) 4 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. Daily, 9:00. 130 Education. Pierce-Jones.

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.** 1-3 hours.**Ed 507. Seminar: Core Curriculum.** 4 hours.

Study and discussion of objectives, philosophy, characteristics, design, current practices, strengths and weaknesses, and other facets of the core curriculum in elementary and secondary schools. Daily, 10:00. 126 Education. Sandin.

Ed 507. Seminar: School and Society in the Recent Past. 4 hours.

How conditions in America have defined and redefined the task of public education in America. Daily, 2:00. 202 Chapman. Castell.

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

First four weeks, June 21-July 16. 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. 101 Commonwealth. Millhollen, staff.

Ed 508. Workshop: Education for Marriage and Family Life. 3 hours.

June 21-July 2. Exploration of the place of family life education in the high schools; lectures and discussions. Building boy-girl friendships, mate selection, sex education, parent-adolescent relationships, counseling on family life problems, and the impact of social forces on the family. Numerous films and an ample library of book and pamphlet material will be available. Admission by prior application. Registration, 9:00 a. m., June 21, Student Union. Kirkendall, staff.

Ed 508. Workshop: Intercultural Education. 3 hours.

July 5-16. 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. Special emphasis on methods and materials for intercultural education. Berreman, staff.

Ed 512. Research Procedures in Education. 4 hours.

The nature and procedures of research in education; special techniques of thesis, field study, research paper, and dissertation. Open to graduate students majoring in other fields. Does not take the place of individual supervision of the student's thesis. Daily, 10:00. 125 Education. Rummel.

Ed 515. Educational Statistics. 3 hours.

An introductory course in statistics. Computing machines are available for student use. Prerequisite: consent of instructor. MTuWF, 9:00. 1 Deady. Massey.

Ed 516. Educational Statistics. 3 hours.

Technique in quantitative and experimental methods. Calculus not required. Prerequisite: consent of instructor, graduate standing. Daily, 1:00. 101 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, drama; music; publications; evaluation of the school activity program. Daily, 9:00. 127 Education. Logsdon.

Ed 525. Pupil Personnel Work. 4 hours.

The need for guidance and counseling; organization and administration of guidance services; tests, inventories, questionnaires, and records; guidance in the curriculum; counseling the individual; the role of the home and community in guidance; evaluation of guidance services. Daily, 11:00. 127 Education. Logsdon.

Ed 529. Advanced Educational Psychology. 4 hours.

Review of some modern viewpoints in educational psychology; discussion of useful experimental material. Prerequisite: graduate standing in education. Daily, 1:00. 130 Education. Costin.

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 or 4 hours.

Second four weeks, July 19-August 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. 342 Commonwealth. Lobaugh.

Ed 566. Curriculum Construction. 3 or 4 hours.

First four weeks, June 21-July 16. 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. 336 Commonwealth. Spears.

Ed 567. Curriculum Materials. 4 hours.

First four weeks, June 21-July 16. Effective use and organization of curriculum materials; text and reference books, supplementary pamphlet material, films and slides, records and recordings, pictures, radio, etc.; techniques of unit construction and community survey. Daily, 10:00-12:00. 241 Commonwealth. Smith.

Ed 574. School Supervision. 3-4 hours.

Second four weeks, July 19-August 13. Purpose and plans for supervision; use of tests, diagnosis of pupil difficulty, etc., as applied to both elementary and secondary schools. Prerequisite: Ed 311, Ed 312, Ed 313, or teaching experience. Daily, 10:00-12:00. 130 Education. Millhollen.

Elementary Education

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

The application of games of low organization to the elementary-school physical-education program. MTuWTh, 1:00. 121 Gerlinger. Poley.

PE 283. Dance for the Elementary School. 3 hours.

Rhythmic fundamentals, skills, and dances for children of grades 1 through 6. Special emphasis on teaching methods. MTuWTh, 9:00. 121 Gerlinger. Cox.

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

The purpose and requirements of the elementary-school health-service program, with emphasis upon organization and procedure for the school health examination, organization and presentation of teaching materials based on the health needs of the child, community needs, and school health services. MTuWTh, 2:00. 101 Physical Education. Moorhead.

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

An analysis and interpretive study of the objectives, standards, and purposes of the elementary-school physical-education program. MTuThF, 8:00. 122 Physical Education. Sprague.

Ed 507. Seminar: Children's Literature. 4 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-school level. Daily, 2:00. 127 Education. Hurley.

Ed 507. Seminar: Primary Education. 3 hours.

Second four weeks, July 19-August 13. The purpose of this seminar is to focus study, thinking, and discussion on problems and interests of primary-grade teachers; also appropriate for principals who seek a better acquaintance with primary education. Daily, 8:00-10:00. 370 Commonwealth. Dean.

ArE 532. Art Education in the Elementary School. 3 hours.

A children's laboratory art class will serve as a resource unit for graduate students doing research in the field. Children's work will be examined, evaluated, and studied in seminar meetings. Practice teachers may enroll without graduate status. Time to be arranged. Masley, Ballinger. 220 Architecture.

MuE 533. Music in the Elementary School. 3 hours.

Philosophy, supervision, curriculum, materials, and procedures of music teaching in the elementary school. Research in problems involving music and related areas of instruction. MTuThF, 10:00. 104 Music. Nye.

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, 8:00. 136 Education. Irish.

Ed 536. Language Arts in the Elementary School. 4 hours.

The role of language arts in the elementary-school program, including consideration of objectives; research findings on language development; the teaching of spelling, writing, and speaking-listening skills; newer instructional materials; testing and evaluation. Daily, 10:00. 136 Education. Hurley.

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. 136 Education. Irish.

Ed 538. Mathematics in the Elementary School. 3 or 4 hours.

Number abilities needed by children; research findings on mathematics edu-

cation; designing number experiences; theories of teaching, desirable teaching procedures; selection and use of materials. Daily, 2:00. 130 Education. Nutting.

Ed 552. Elementary-School Problems. 4 hours.

First four weeks, June 21-July 16. Selected current problems; issues and theories of elementary education; characteristics of modern teaching; major trends in elementary education. Daily, 8:00-10:00. 370 Commonwealth. Blankenship.

Ed 553. Elementary-School Curriculum. 4 hours.

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, 11:00. 370 Commonwealth. Nutting.

Ed 554. Elementary-School Supervision and Administration. 4 hours.

The role, duties, needs, and problems of modern supervision, including evaluation and improvement of the teaching-learning situation. Daily, 9:00. 136 Education. Sandin.

Secondary Education

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

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

Ed 507. Seminar: Language Arts in Secondary Schools. 4 hours.

Selection of areas of instruction in language arts; units, techniques of instruction, materials for language-arts teaching. Open to all students interested in the teaching or supervision of language arts in junior or senior high schools. Daily, 1:00. 127 Education. Kraus.

Ed 507. Seminar: Science in Junior and Senior High Schools. 4 hours.

Selection of areas of instruction in science; science units; techniques of instruction for secondary-school science; materials for science teaching. Open to all students interested in the teaching or supervision of sciences in secondary schools. Daily, 11:00. 233 Commonwealth. Collins.

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 high-school science courses. Daily, 11:00. 16 Science. Ebbighausen, Dart.

Ed 508. Workshop: Junior High School. 3 hours.

July 5-16. Origin, underlying philosophy, and functions of the junior high school. Administrative procedures; guidance and counseling; school activities; areas of instruction; evaluation of the junior high school program. Time to be arranged. Hearn, Marsh.

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. Problem approach to specific subject areas. Daily, 2:00. 125 Education. Hearn.

Ed 526. High-School Counseling. 4 hours.

The purposes, techniques, and processes of counseling. Dynamics of adjustment and personality change. Methods of promoting emotional, educational, and occupational adjustment. Prerequisite: consent of instructor. Daily, 8:00. 130 Education. Pierce-Jones.

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

The secondary-school principalship; principles of administration, staff re-

relationships, public relations, and professional growth; business administration, administration of guidance services, curriculum, and school activities; evaluation of the secondary school. Daily, 10:00. 127 Education. Hearn.

Special Education

Ed 409. Psycho-Educational Clinic. (G) 4-6 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, 9:00-12:00 for 6 hours credit; 10:00-12:00 for 4 hours credit. 132 Education. Killgallon.

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 educational adaptations. Daily, 8:00. 128 Education. Gubser, State Department of Education staff.

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. 128 Education.

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

Identification and guidance of the mental deficient, the slow learner, and the gifted. Prerequisite: consent of instructor. Daily, 1:00. 128 Education.

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

A clinical course. Diagnostic, remedial, and corrective techniques in basic school subjects. Daily, 9:00. 128 Education. Hogg, staff.

Ed 507. Seminar: Teaching the Gifted Child. 4 hours.

Demonstration and observation; supervised teaching of gifted children. Daily, 9:00-12:00.

Ed 508. Workshop: Gifted Children. 4 hours.

Curriculum and methods of teaching gifted children. Daily, 2:00. 232 Commonwealth.

Educational Administration

Ec 418. Public Finance. (G) 4 hours.

A study of expenditure, revenue, and borrowing programs of local, state, and Federal governments, with special attention to the effects of these programs upon the operation of the economic system. Daily, 11:00. 134 Commonwealth. Macy.

Ed 507. Seminar: Higher Education. 4 hours.

Problems relating to higher education: finance, organization, administration, student personnel, staff, and general trends. Daily, 9:00. 242 Commonwealth. Pallett.

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, 1:00-3:00. 126 Education. Jacobson, Goldhammer, 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. 126 Education. Foskett, Laughlin, Littman, Macy, Ostrom, Tope.

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

July 19-23. Administrative services, auxiliary services, and curricular services of the county school superintendent's office. Planning and evaluation of the work of the county superintendent. Daily, 9:00-4:00. Student Union. Tope.

Ed 572. Public-School Administration. 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 312, Ed 313, or teaching experience. Daily, 1:00-125 Education. Romney.

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

First four weeks, June 21-July 16. Ed 572, Ed 573, Ed 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 312, Ed 313, or teaching experience. Daily, 10:00-12:00. 342 Commonwealth. Shibler.

Ed 575. School Finance. 3-4 hours.

Sec. I. The problems of school finance and business management; sources of school income; relationship to the state financial structure; budgeting and accounting. The construction of a school budget. Daily, 11:00. 336 Commonwealth. Romney.

Sec. II. Second four weeks, July 19-August 13. Advanced section intended for experienced school superintendents who have had courses in school finance. A study of the major problems of financing education and computing the cost of education. The problem of school revenues, the capital cost of education, budget making. Prerequisite: Ed 311, Ed 312, Ed 313, or teaching experience. Daily, 10:00-12:00. 342 Commonwealth. Fowlkes.

Ed 576. School Buildings. 3-4 hours.

First four weeks, June 21-July 16. 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. 342 Commonwealth. 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.

Anthropology

Anth 456. **Races and Cultures of the Circumpolar Regions.** (G) 4 hours.

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

Architecture and Allied Arts

AA 255. **Ceramics.** 2-4 hours.

AA 290. **Painting.** 2-3 hours.

AA 393. **Technique of Sculpture.** 2-4 hours.

AA 440, 441, 442. **Contemporary American Architecture.** (G) 3 hours.

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

AA 476. **Backgrounds of Modern Art.** (G) 3 hours.

AA 490. **Advanced Painting.** (G) 3 hours.

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

- ArE 311. **Creative Arts and Crafts for the Elementary Teacher.** 3 hours.
 ArE 315. **Art Education in the Junior High School.** 3 hours.
 ArE 401. **Special Studies: Watercolor Techniques and Methods.** (g) 2-4 hours.
 ArE 405. **Senior Assigned Reading.** (g) Hours to be arranged.
 ArE 415. **Art Education in the High School.** (G) 3 hours.
 ArE 501. **Special Studies.** Hours to be arranged.
 ArE 505. **Assigned Reading.** Hours to be arranged.

Biology

- Bi 419. **Advanced General Biology.** (g) 4 hours.

Business Administration

- BA 111. **Constructive Accounting.** 4 hours.
 SS 121. **Typing.** 2 hours.
 BA 416. **Business Law.** (G) 4 hours.
 BA 421. **Principles of Business Education.** (G) 4 hours.
 BA 425. **Real-Estate Fundamentals.** (G) 4 hours.
 BA 456. **Property Insurance.** (G) 4 hours.

Economics

- Ec 417. **Contemporary Economic Problems.** (g) 4 hours.
 Ec 418. **Public Finance.** (G) 4 hours.
 Ec 450, 451. **Comparative Economic Systems.** (g) 4 hours.
 Ec 489. **American Economic History.** (G) 4 hours.

English

- Wr 111. **English Composition (First Term)** 3 hours.
 Wr 211. **Advanced Writing.** 3 hours.
 Eng 101. **Survey of English Literature (First Term)** 3 hours.
 Eng 201. **Shakespeare (First Term).** 3 hours.
 Eng 407. **Seminar: Shakespeare.** (G) 3 hours.
 Eng 428. **Chaucer.** (G) 3 hours.
 Eng 476. **Literary Foundations of American Life (Second Term).** (g) 3 hours.
 Eng 485. **Major American Writers: Realists.** (G) 3 hours.
 Eng 488. **Literature for Teachers.** (g) 3 hours.
 Eng 489. **Studies in Lyric Poetry.** (G) 3 hours.
 Eng 508. **Workshop: Practice and Principles of Writing.** 3 hours.

Foreign Languages

- RL 405. **Reading and Conference.** 3 hours.
 RL 505. **Reading and Conference.** 3 hours.

Geography

- Geog 430. **Geography of South America.** (G) 3 hours.
 Geog 507. **Seminar: Geography of the Pacific Northwest.** 3 hours.
 Geog 508. **Workshop: Teaching Methods in Geography.** 3 hours.

Health and Physical Education

- HE 450. **Elementary-School Health Education.** (g) 3 hours.
HE 463. **Social Hygiene.** (G) 3 hours.
HE 507. **Seminar: Community Relationships.** 3 hours.
PE 221. **Games for the Elementary School.** 2 hours.
PE 283. **Dance for the Elementary School.** 3 hours.
PE 406. **Special Problems: Sports Workshop.** 2 hours.
PE 406. **Special Problems: Rhythms Workshop.** 2 hours.
PE 460. **Physical Education in the Elementary School.** (g) 3 hours.
PE 507. **Seminar: Program Construction in Physical Education.** 3 hours.
PE 516. **Intramural Organization and Management.** 3 hours.

History

- Hst 202. **History of the United States.** 4 hours.
Hst 421. **Middle Ages.** (G) 4 hours.
Hst 445. **Europe Since 1939.** (g) 4 hours.
Hst 455. **Contemporary Latin America.** (G) 4 hours.
Hst 470. **American Political Parties and Leaders.** (G) 4 hours.
Hst 475. **American Foreign Relations.** (G) 4 hours.
Hst 478. **History of the Pacific Northwest.** (G) 4 hours.
Hst 485. **Civil War and Reconstruction.** (G) 4 hours.
Hst 489. **American Economic History.** (G) 4 hours.
Hst 490. **Problems of the Pacific.** (G) 4 hours.
Hst 530. **European History: Problems and Interpretations.** 3 hours.

Journalism

- J 421. **Magazine Article Writing.** (g) 4 hours.
J 488. **The Public and the Press.** (g) 4 hours.
J 489. **Supervision of School Publications.** (g) 4 hours.

Library Methods

- Lib 381. **Elementary Bibliography and Reference Materials.** 3 hours.
Lib 386. **Acquisition and Organization of Library Materials.** 3 hours.
Lib 483. **Books and Related Materials for Children.** (g) 3 hours.
Lib 484. **School Library Administration.** (g) 3 hours.

Mathematics

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

Music

- Mus 195. **Band.** 1 hour.
Mus 196. **Orchestra.** 1 hour.
Mus 197. **Choral Union.** 1 hour.
MuE 351. **Voice Class.** 2 hours.
MuE 407. **Seminar: Choral Arranging and Composition.** (G) 3 hours.
MuE 407. **Seminar: Choral Materials.** (G) 2 hours.

- MuE 407. **Seminar: Contemporary Choral Techniques.** (G) 2 hours.
 MuE 407. **Seminar: Interpretation of Band Literature.** (G) 2 hours.
 MuE 407. **Seminar: Rehearsal Techniques for Instrumental Organizations.**
 (G) 2 hours.
 MuE 407. **Seminar: Special Methods for Strings.** (G) 3 hours.
 MuE 532. **Problems in Music Education.** 3 hours.
 MuE 533. **Music in the Elementary Schools.** 3 hours.

Philosophy

- Phl 507. **Seminar: Philosophy of Education.** 4 hours.

Physics

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

Political Science

- PS 417. **Public Administration and Public Policy Issues.** (G) 4 hours.
 PS 424. **The Struggle for Asia: Democracy vs. Communism.** (G) 4 hours.
 PS 507. **Seminar: Scope and Method of the Social Sciences.** 3-6 hours.

Psychology

- Psy 421. **Clinical Methods in Psychology.** (G) 2 hours.
 Psy 424. **Mental Testing Laboratory.** (G) 2 hours.
 Psy 435. **Counseling Procedures.** (G) 4 hours.
 Psy 450. **Abnormal Psychology.** (g) 4 hours.
 Psy 460. **Psychology of Infancy and Childhood.** (g) 4 hours.
 Psy 461. **Psychology of Adolescence.** (g) 4 hours.
 Psy 507. **Seminar: Scope and Method of the Social Sciences.** 3-6 hours.

Sociology

- Soc 417. **Juvenile Delinquency.** (G) 4 hours.
 Soc 464. **The Family in American Culture.** (g) 4 hours.
 Soc 507. **Seminar: Scope and Method of the Social Sciences.** 3-6 hours.

Speech

- Sp 448. **Radio and Television and the Public.** (G) 4 hours.
 Sp 482. **Speech Defects and Disorders.** (G) 4 hours.
 Sp 507. **Seminar: Speech Communication in Group Control.** 4 hours.

ENGLISH

Professors: LESCH, SOUERS. Associate Professor: McCLOSKEY. Assistant Professors: MUNDLE, OSWALD, SHERWOOD. Visiting Faculty: COFFMAN, LAIRD.

- Wr 111. **English Composition (First Term).** 3 hours.
 Fundamentals of English composition. TuWThF, 9:00. 115 Friendly. Mundle.
 Wr 112, 113. **English Composition.** 3 hours each term.
 See Wr 211, below.

Wr 211. Advanced Writing. 3 hours.

Expository writing. Summer students who wish to earn credit toward fulfilling the composition requirement may offer Wr 211 in place of either Wr 112 or Wr 113. MTuWTh, 9:00. 117 Friendly. Sherwood.

Eng 101. Survey of English Literature (First Term). 3 hours.

From *Beowulf* to Milton. TuWThF, 8:00. 117 Friendly. Mundle.

Eng 201. Shakespeare (First Term). 3 hours.

MTuWTh, 10:00. 118 Friendly. Souers.

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, 11:00. 117 Friendly. Lesch.

Eng 428. Chaucer. (G) 3 hours.

As much of Chaucer's work read as time permits. Required for graduate students in English. MTuWTh, 9:00. 118 Friendly. Souers.

Eng 476. Literary Foundations of American Life (Second 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, 8:00. 115 Friendly. McCloskey.

Eng 485. Major American Writers: Realists. (G) 3 hours.

Howells and James. MTuWTh, 10:00. 117 Friendly. McCloskey.

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

For students interested in teaching high-school English. Training in comprehension and analysis of representative literary work. Readings selected from English and American literature taken in part from state-adopted texts. Not accepted toward the satisfaction of the minimum requirements for a major in English. MTuWTh, 9:00. 106 Friendly. Oswald.

Eng 489. Studies in Lyric Poetry. (G) 3 hours.

A study of the nature of lyric poetry. Important lyrics, both of the past and of modern times, analyzed both as works of art and as expressions of culture. TuWThF, 11:00. 115 Friendly. Mundle.

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: Satire.** 3-4 hours.

Time to be arranged. McCloskey.

Eng 507. Seminar: Epic and Romance. 3-4 hours.

Time to be arranged. Souers.

Eng 508. Workshop: Practice and Principles of Writing. 3 hours.

June 21-July 5. An organization meeting will be held at 2:00 on Monday, June 21. 105 Friendly. Sherwood, Oswald, Laird, Coffman.

FOREIGN LANGUAGES

Professor: KREMER. Assistant Professor: GUÉDENET.

French***RL 1, 2. First-Year French.** 8 hours.

An introduction to the language, stressing reading, comprehension of the

* See page 34, note (*).

spoken tongue, and the first principles of French grammar. Equivalent to the first two terms of First-Year French given during the regular academic year. Daily 8:00-9:00. 216 Friendly. Guèdenet.

RL 405. Reading and Conference. 3 hours.

Advanced grammar and composition; a thorough review intended primarily for teachers and prospective teachers. Students wishing to do work in literature should consult the instructor. Time to be arranged. Guèdenet.

RL 503. Thesis. Hours to be arranged.

Guèdenet.

RL 505. Reading and Conference. 3 hours.

Advanced grammar and composition; a thorough review, intended primarily for teachers and prospective teachers. Students wishing to do work in literature should consult the instructor. Time to be arranged. Guèdenet.

German

***GL 1, 2. First-Year German.** 8 hours.

The fundamentals of grammar, oral drill, translation of prose selections. Equivalent to 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. Hours to be arranged.

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

GEOGRAPHY

Professor: DICKEN. Visiting Faculty: NEWHOUSE.

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

Physical, economic, and human geography of the continent. MTuWTh, 9:00. 102 Condon. Dicken.

Geog 501. Research. Hours to be arranged.

Geog 503. Thesis. Hours to be arranged.

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

Geog 507. Seminar: Geography of the Pacific Northwest. 3 hours.

Emphasis on Oregon. MTuWTh, 8:00. 102 Condon. Dicken.

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

First four weeks, June 21-July 16. A study of principles and methods used in the presentation of the basic materials of geography. Maps, globes, charts, slides, film strips. Occasional field trips in the vicinity of Eugene. MTuWTh, 10:00-12:00. 102 Condon. Newhouse, Dicken.

GEOLOGY

Professor: STAPLES.

Geol 406. Advanced Field Geology. 9 hours.

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

Geol 501. Research. Hours to be arranged.

Geol 503. Thesis. Hours to be arranged.

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

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

Geol 506. Advanced Field Geology. 9 hours.

Six weeks. Geologic field work in selected parts of Oregon. Emphasis on individual problems. Prerequisite: graduate standing and consent of the instructor. Staples.

HEALTH AND PHYSICAL EDUCATION

Professors: CLARKE, ESSLINGER, HAAR, WASHKE. Associate Professors: MOORHEAD, POLEY, SPRAGUE. Assistant Professor: RHODA. Instructor: COX. Visiting Faculty: FERICK, SANDERS, SUSICK.

Health Education (Professional)**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 purpose and requirements of the elementary-school health-service program, with emphasis upon organization and procedure for the school health examination, organization and presentation of teaching materials based on the health needs of the child, community needs, and school health services. MTuWTh, 2:00. 101 Physical Education. Moorhead.

HE 463. Social Hygiene. (G) 3 hours.

Social-hygiene content, methods, and materials appropriate for junior and senior high schools, with special application to social hygiene, mental health, and family-life education units in the state course of study. Prerequisite: senior standing in health education or biology; graduate standing in education or physical education. MTuWTh, 8:00. 101 Physical Education. Moorhead.

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

Purpose 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. MTuWF, 9:00. 114 Physical Education. Haar.

HE 501. Research in Health Education. Hours to be arranged.**HE 503. Thesis** Hours to be arranged.**HE 505. Reading and Conference.** Hours to be arranged.**HE 506. Special Problems.** Hours to be arranged.**HE 506. Special Problems: Geriatrics.** 3 hours.

A study of the problems of an aging population, with special emphasis on adequate nutrition, problems associated with degenerative diseases, and the construction of mental hygiene, safety, and community programs; analysis of the structural changes which take place in the aging process, and of the problem of caring for the aged. MTuWTh, 3:00. 114 Physical Education. Haar.

HE 507. Seminar: Community Relationships. 3 hours.

Seminar for teachers of health education and for school administrators. The relationship of the school health program and physical-education program to official health agencies, to professional health and medical organizations, to lay health agencies, to all significant community organizations. Methods and techniques for interpreting the school programs to the community. How the various agencies and organizations operate within the community; their special interests in the school health program and in the physical-education program. MTuWTh, 11:00. 101 Physical Education. Moorhead.

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

Current basic issues and problems in health education; economic and social

forces affecting health education; implications for programs of health education. Prerequisites: HE 464, 465 or consent of instructor. MTuWTh, 2:00-114 Physical Education. Haar.

Physical Education (Service Courses)

- PE 380 or 390. **Tennis.** 1 hour.
For men and women. MTuWTh, 3:00. Tennis Courts. Washke.
- PE 380 or 390. **Golf.** 1 hour.
For men and women. MW, 4:00-6:00. Washke.
- PE 390. **Wrestling.** 1 hour.
MTuWTh, 10:00. Wrestling Room. Rhoda.
- PE 380 or 390. **Swimming.** 1 hour.
For men and women. MTuWTh, 11:00. Men's Pool. Rhoda.

Physical Education (Professional)

- PE 221. **Games for the Elementary School.** 2 hours.
The application of games of low organization to the elementary-school physical-education program. MTuWTh, 1:00. 121 Gerlinger. Poley.
- PE 283. **Dance for the Elementary School.** 3 hours.
Rhythmic fundamentals, skills, and dances for children of grades 1 through 6. Special emphasis on teaching methods. MTuWTh, 9:00. 121 Gerlinger. 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: Sports Workshop.** 2 hours.
First four weeks June 21-July 16. Advanced methods and materials in individual sports such as tennis, badminton, and archery. Special consideration will be given to the needs of the class members. Open to men and women students. Daily, 10:00-12:00. Gerlinger. Cox.
- PE 406. **Special Problems: Rhythms Workshop.** 2 hours.
Second four weeks, July 19-August 13. Advanced methods and materials in folk, square, and ballroom dance. Special consideration will be given to the needs of the class members. Open to men and women students. Daily, 10:00-12:00. Gerlinger. Cox.
- PE 460. **Physical Education in the Elementary School.** (g) 3 hours.
An analysis and interpretive study of the objectives, standards, and purposes of the elementary-school physical-education program. MTuThF, 8:00. 122 Physical Education. Sprague.
- PE 501. **Research in Physical Education.** 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 or recreation assigned by the adviser and approved by the dean of the school.
- PE 507. **Seminar: Program Construction in Physical Education.** 3 hours.
Basic elements and procedures of program construction in physical education. For supervisors and administrators of physical-education programs. Special application at the city, county, and state levels. Students may work directly on their own programs. MTuWTh, 1:00. 122 Physical Education. Sprague.

PE 507. Seminar: Administration of College Physical Education and Athletics. 3 hours.

Organization and administration of the service and intercollegiate athletic programs in colleges and universities. MTuThF, 8:00. 114 Physical Education. Esslinger.

PE 507. Seminar: Supervision in Physical Education for City Supervisors. 3 hours.

Purposes and plans for supervision; the supervision of staff, facilities, and areas. Departmental organization, regulations, and policies. MTuWTh, 10:00. 122 Physical Education. Sprague.

PE 516. Intramural Organization and Management. 3 hours.

Nature and purposes of intramural programs; history of their development. Departmental organization. Relationship of the program to physical-education instruction. Administrative problems of policy, supervision, and direction; scope of the program, finances, assignment of responsibilities. MTuWF, 9:00. 101 Physical Education. Washke.

PE 517. Methods of Research. 3 hours.

The methods and techniques of research in health, physical education, and recreation; practice in application to problems of current interest. MTuThF, 9:00. 122 Physical Education. Clarke.

PE 521. Corrective Physical-Education Studies. 3 hours.

Study of the common deviations of posture and feet; causes, methods of referral when advisable, and basic principles underlying the prescription of exercises for those conditions which may be handled safely by the physical-education teacher. MTuThF, 10:00. 121 Gerlinger. 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, 11:00. 114 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, 1:00. 114 Physical Education. Rhoda.

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

The different schools of thought and practice which determine the purposes and procedures in the professional field of physical education. Analysis of the Oregon and other regional public school programs. Prerequisite: graduate standing in physical education. MTuWTh, 11:00. 122 Physical Education. Washke.

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

Building layout and equipment; relationship of the various functional units; equipment, service, dressing facilities, activity spaces, administrative units, permanent and dismantlable equipment. MTuWTh, 3:00. 122 Physical Education. Rhoda.

PE 574. Physiological Principles of Advanced Conditioning. 3 hours.

Principles of diet, fatigue, circulatory and respiratory endurance, and muscular endurance which bear directly on physical performance in athletics. Important conditioning practices and environmental and geographical factors which determine performance ability. Planned to cover practical problems and practices of conditioning and physical fitness. MTuWTh, 2:00. 121 Gerlinger. Poley.

Coaching School*

June 14-19

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

No-grade course. Special problems of coaching football, basketball, baseball, track and field, and wrestling. Especially designed to meet the needs of high-school coaches. The schedule is as follows:

Football Coaching	8:00-10:00	MTuWThF. Sanders
Football Coaching	10:00-11:00	} MTuWThF. Susick
	8:00-10:00	
Track and Field Coaching	11:00-12:00	Sat.
	1:00- 2:00	} MTuWThF. Bowerman
Baseball Coaching	11:00-12:00	} MTuWThF. Kirsch
	1:00- 2:00	
Basketball Coaching	2:00- 4:00	MTuWThF. Feerick
Basketball Coaching	4:00- 5:00	MTuWThF. Borchert
	10:00-12:00	Sat.
Wrestling Coaching	8:00-10:00	MTuWThF. Hammer

HISTORY

Professors: BREEN, STEPHENSON, WRIGHT. Associate Professor: DULL. Assistant Professor: SORENSON. Instructor: PINCKNEY. Visiting Faculty: CARSTENSEN.

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

Social, political, economic, and military development, 1840-1896. Second term of regular year sequence. Daily, 10:00. 232 Commonwealth. Carstensen.

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

Conferences on reading in a special field, with a written report or examination. Open only to students eligible for honors (cumulative GPA of 2.75). Time to be arranged.

Hst 421. Middle Ages. (G) 4 hours.

History of Europe from the decline of the Western Roman Empire to 1000 A.D. First term of regular year sequence. Daily, 10:00. 212 Commonwealth Breen.

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. 232 Commonwealth. Dull.

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

Origins and course of World War II; postwar developments in the European states. Daily, 10:00. 107 Commonwealth. Wright.

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

The Revolution of 1917; Russian domestic and foreign policies from 1917 to the present. Daily, 9:00. 107 Commonwealth. Wright.

Hst 455. Contemporary Latin America. (G) 4 hours.

Developments in Latin America since 1900. Daily, 8:00. 212 Commonwealth. Pinckney.

Hst 470. American Political Parties and Leaders. (G) 4 hours.

The history of political parties, 1790-1850; prominent party leaders; constitutional, social, and economic issues that created alignments. Daily, 9:00. 212 Commonwealth. Stephenson.

* The Pacific Coast Athletic Conference Code provides that: "Any student who enrolls or participates in any course which teaches, coaches or includes training in football materials, techniques or activities during any summer session shall be ineligible for competition in football during the succeeding football season, and any student who enrolls or participates in any course which teaches, coaches or includes training in basketball materials, techniques or activities during any summer session shall be ineligible for competition in basketball during the succeeding basketball season, irrespective of whether such courses are or are not required courses in the curriculum of such student."

- Hst 475. American Foreign Relations.** (G) 4 hours.
The origins, character, and consequences of American foreign policies in the twentieth century. Daily, 10:00. 242 Commonwealth. Pinckney.
- Hst 478. History of the Pacific Northwest.** (G) 4 hours.
Detailed study of the building of civilization in the Pacific Northwest. Not open to students who have had Hst 377. Daily, 8:00. 232 Commonwealth. Carstensen.
- Hst 485. Civil War and Reconstruction.** (G) 4 hours.
Origins, course, and aftermath of the American Civil War. Daily, 11:00. 212 Commonwealth. Stephenson.
- Hst 489. American Economic History.** (G) 4 hours.
Economic development of the United States since 1900. Daily, 11:00. 107 Commonwealth. Sorenson.
- Hst 490. Problems of the Pacific.** (G) 4 hours.
A study of current political, economic, and social problems in the Pacific area, and of the historical roots of these problems. Daily, 11:00. 232 Commonwealth. Dull.
- Hst 501. Research.** Hours to be arranged.
- Hst 503. Thesis.** Hours to be arranged.
- Hst 505. Reading and Conference: United States History.** Hours to be arranged.
Sorenson.
- Hst 505. Reading and Conference: Latin America.** Hours to be arranged.
Pinckney.
- Hst 507. Seminar: Pacific Northwest.** 3 hours.
Tu, 2:00-4:00. 233 Commonwealth. Carstensen.
- Hst 507. Seminar: Twentieth-Century Historians of the United States.** 3 hours.
W, 2:00-4:00, 233 Commonwealth. Stephenson.
- Hst 530. European History: Problems and Interpretations.** 3 hours.
Readings, reports, and group discussion of major trends, problems, and interpretations in modern European history (Renaissance and Reformation periods). Th, 2:00-4:00, 233 Commonwealth. Breen.

JOURNALISM

Professor: DUNCAN.

- J 421. Magazine Article Writing.** (g) 4 hours.
A study of the problems of writing and selling articles, with emphasis on the marketing of manuscripts. Prerequisite: consent of instructor. TuTh, 8:00, and conferences. 241 Commonwealth. Duncan.
- 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 media in the mass communication process. Not open to journalism majors. Daily, 9:00. 241 Commonwealth. Duncan.
- 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. MWF, 9:00, and conferences. 241 Commonwealth. Duncan.
- J 501. Research.** Hours to be arranged.

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

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

LIBRARY METHODS

Visiting Faculty: BOURGIN, RADEMACHER, VAN ENGEN.

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

Study of important reference books, indexes, and bibliographies. Practical problems in the use of reference tools. MTuWTh, 10:00. 217 Library. Lamb.

Lib 386. **Acquisition and Organization of Library Materials.** 3 hours.

Instruction and practice in simplified procedures for the acquisition, preparation, organization, and circulation of books and related library materials. MTuWTh, 8:00. 217 Library. Ahlers.

Lib 483. **Books and Related Materials for Children.** (g) 3 hours.

Primarily a reading course based on materials suitable for elementary-school children. Study of reading interests and curricular needs; criteria for evaluating materials; selection aids; devices for encouraging reading. Prerequisite: Lib 381, Lib 382, Lib 386. MTuWTh, 9:00. 217 Library. Ahlers.

Lib 484. **School Library Administration.** (g) 3 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; evaluation; objectives. Prerequisite: Lib 381, Lib 382, Lib 386. MTuWTh, 11:00. 217 Library. Ahlers.

MATHEMATICS

Professors: MOORSUND, NIVEN. Associate Professors: GHENT, MASSEY.

Visiting Faculty: BOURGIN, RADEMACHER, VAN ENGEN.

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

Candidates for the 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 1955; and Mth 489, Mth 579, and Mth 599 for 1956.

*Mth 10. **Elements of Algebra.** 3 hours.

Intended for students who have had less than one year of high-school algebra.

*Mth 100. **Intermediate Algebra.** 4 hours.

Intended for student who have had only one year of high-school algebra, or who have not had algebra for some time.

* See page 41, note (*).

*Mth 105, 106, 107. **College Algebra, Trigonometry, Analytic Geometry.** 4-12 hours.

The standard first-year sequence in college mathematics. Prerequisite: one and one-half years of high-school algebra and consent of the department.

*Mth 201, 202, 203. **Differential and Integral Calculus.** 4-12 hours.

Prerequisite: analytic geometry and consent of the department.

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 the department. MTuWF, 9:00. 1 Deady. Massey.

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: analytical geometry. MTuWTh, 8:00. 204 Deady. Ghent.

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

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

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

Mth 507. **Seminar: Analysis.** 3-4 hours.

Topics selected primarily from real-variable theory to meet the needs of students who are at about first-year graduate level. Prerequisite: consent of instructor. MTuWTh, 8:00. 107 Deady. Moursund.

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. 204 Deady. Ghent, Massey.

Mth 599. **Foundations of Mathematics.** 3 hours.

To be offered by reading and conference. Topics selected to meet the needs of the student. Prerequisite: consent of instructor. Time and place to be arranged. Ghent.

Conference on Secondary-School Mathematics

Under a grant from the Fund for the Advancement of Education, an eight-week Conference on Secondary-School Mathematics will be held on the University campus during the summer session. The purpose of the conference is to help high-school mathematics teachers improve their knowledge of subject matter and teaching methods. A program has been arranged to meet the needs of teachers with widely varying mathematical backgrounds. The program will include: a Workshop in Secondary-School Mathematics, under the leadership of a nationally known authority in the field; courses in lower-division college mathematics, special college mathematics courses for teachers, and courses in advanced mathematics; and a seminar for secondary-school and college mathematics teachers, for the consideration of mathematical topics of common interest. (Also scheduled for the summer session is a Conference on College Mathematics; secondary-school teachers will find many of the lectures in this conference of interest.)

Membership in the Conference on Secondary-School Mathematics will be

* These courses will be offered on an individual and group-instruction basis. Students may register for from one to three terms (4 to 12 hours of credit) and may complete their work in from four to eight weeks. Regular hours will be: Daily, 9:00 to 11:00 and 1:30 to 2:30 in 104 Deady. Students may also use this room as a study room at other times. The University sequence, Mth 105, 106, 107, is equivalent to the Oregon State College sequence, Mth 101, 102, 103.

limited to not more than 60 persons, mainly high-school mathematics teachers. Stipends will be awarded to approximately 35 members. The stipends will normally be \$200, but may be less for persons residing in the immediate vicinity of Eugene. Stipend holders must pay summer-session fees. Upon approval of the director of the conference, a limited amount of credit may be earned outside the field of mathematics.

A leaflet giving details and a stipend application form may be obtained from the director, Professor Andrew F. Moursund, Department of Mathematics, University of Oregon, Eugene, Oregon.

Conference on Collegiate Mathematics

The National Science Foundation is sponsoring a conference on collegiate mathematics on the University campus during the period of the summer session. The purpose is to bring college and university teachers of mathematics, especially those not associated with the large research centers, into closer contact with modern mathematical trends and developments, with attention to the significance of these developments in undergraduate teaching. Several outstanding mathematicians, men famous for clear and lucid exposition as well as for their research, will lecture and participate in discussions at the conference.

The principal speakers, in residence throughout the conference, will be Professor D. G. Bourgin of the University of Illinois, who will lecture on "Principles of Convexity and Topology," and Professor Hans Rademacher of the University of Pennsylvania, who will lecture on "Analytic Additive Number Theory." In addition to these technical lectures there will be discussions relating the material to the undergraduate mathematical curriculum. Other participating mathematicians will be in attendance from time to time, including Professor C. B. Allen-dorfer, editor-in-chief of the *American Mathematical Monthly*.

Stipends of \$300 will be available to a limited number of members of the conference whose travel and living expenses cannot be completely financed by themselves or by their institutions. Membership in the conference will be freely granted, there being no University credit for attendance. Inquiries should be addressed to the director of the conference, Professor Ivan Niven, University of Oregon, Eugene, Oregon.

MUSIC

Professor: KRATT. Associate Professors: BOUGHTON, ELSTON, GREEN, KEUTZER, NYE, VAGNER.
Assistant Professors: ANDERSON, DIETERICH, LEE. Visiting Faculty: CUNNINGHAM.

Mus 195. **Band.** 1 hour.

MTuWTh, 3:00. Music Auditorium. Vagner, Lee.

Mus 196. **Orchestra.** 1 hour.

TuTh, 2:00; W, 7:00-9:00 p.m. Music Auditorium. Boughton.

Mus 197. **Choral Union.** 1 hour.

MTuWTh, 1:00. 202 Music. Keutzer.

MuE 319. **Music Education.** 3 hours.

Continuation of Mus 318 on the high-school level. Prerequisite: consent of instructor. Time to be arranged. Nye.

MuE 351. **Voice Class.** 2 hours.

Study of voice problems in the public schools. MWF, 11:00. 202 Music. Anderson.

Mus 395. **Band.** 1 hour.

MTuWTh, 3:00. Music Auditorium. Vagner, Lee.

- Mus 396. Orchestra.** 1 hour.
TuTh, 2:00; W, 7:00-9:00 p.m. Music Auditorium. Boughton.
- Mus 397. Choral Union.** 1 hour.
MTuWTh, 1:00. 202 Music. Keutzer.
- Mus 405. Reading and Conference.** Hours to be arranged.
- MuE 407. Seminar: Choral Arranging and Composition.** (G) 3 hours.
Arranging and composition for various types of choral groups. MTuThF, 9:00. 104 Music. Dieterich.
- MuE 407. Seminar: Choral Materials.** (G) 2 hours.
Second four weeks, July 19-August 13. Survey of choral materials from elementary school through college. Daily, 2:00. 202 Music. Keutzer.
- MuE 407. Seminar: Contemporary Choral Techniques.** (G) 2 hours.
First four weeks, June 21-July 16. A survey of the techniques employed by the outstanding authorities in the choral field. Daily, 2:00. 202 Music. Keutzer.
- MuE 407. Seminar: Interpretation of Band Literature.** (G) 2 hours.
First four weeks, June 21-July 16. Problems of conducting and interpretation. Daily, 8:00. 104 Music. Vagner.
- MuE 407. Seminar: Rehearsal Techniques for Instrumental Organizations.** (G) 2 hours.
MWF, 11:00. 202 Music. Vagner, Lee.
- MuE 407. Seminar: Special Methods for Strings.** (G) 3 hours.
Methods, materials, and organization of class instruction in string instruments in the public schools. MTuThF, 10:00. 203 Music. Boughton.
- Mus 408. Seminar in Music History.** (G) 3 hours.
Music of the twentieth century. Prerequisite: Mus 360, 361, 362, or consent of instructor. MTuThF, 9:00. 202 Music. Elston.
- 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, 10:00. 202 Music. Elston.
- Mus 434. Applied Theory.** (G) 3 hours.
Designed primarily for school orchestra, band, and choral directors. Practical study of problems of harmony, form, structure, counterpoint, rhythm, and intonation as they are usually encountered in the music performed by high-school organizations. May be counted toward the degree of Master of Science in General Studies; may not be counted toward a music degree. Prerequisite: experience as an orchestra, band, or choral director. Time to be arranged. Green.
- Mus 435. Applied Theory.** (G) 3 hours.
Continuation of Mus. 434. Time to be arranged. Green.
- Mus 436. Applied Theory.** (G) 3 hours.
Continuation of Mus. 435. Time to be arranged. Green.
- Mus 501. Research.** Hours to be arranged.
- Mus 503. Thesis.** Hours to be arranged.
- Mus 505. Reading and Conference.** Hours to be arranged.
- Mus 507. Seminar: Counterpoint.** 2 hours.
MWF, 8:00. 203 Music. Green.
- MuE 532. Problems in Music Education.** 3 hours.
Research, reports, and discussion of problems and issues in music education. Prerequisite: consent of instructor. MTuThF, 1:00. 104 Music. Nye.

MuE 533. Music in the Elementary School. 3 hours.

Philosophy, supervision, curriculum, materials, and procedures of music teaching in the elementary school. Research in problems involving music and related areas of instruction. MTuThF, 10:00. 104 Music. Nye.

Applied Music**Mus 190, 290, 390, 490. Individual Instruction.** 1 to 2 hours.**Mus 590. Individual Instruction.** 1 to 4 hours.

Private lessons in piano, violin, viola, cello, and voice: one lesson per week for eight weeks, \$20.00; two lessons per week, \$33.00. Private lessons in any of the wind instruments: one lesson per week for eight weeks, \$14.00; two lessons per week, \$28.00. Practice room fee: one hour daily, \$2.75.

High-School Music Summer Session

A three-week summer session for high-school students in band, orchestra, and vocal music will be held on the campus from June 27 to July 16. Observation of the rehearsals of the high-school groups will be interesting and valuable to high-school music teachers.

PHILOSOPHY

Professor: CASTELL.

Phl 507. Seminar: 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.

PHYSICS

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

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. MTuWTh, 10:00. 16 Science. Ebbighausen, Dart.

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, with special attention given to those commonly considered in high-school science courses. Daily, 11:00. 16 Science. Ebbighausen, Dart.

POLITICAL SCIENCE

Associate Professor: DULL. Assistant Professor: SELIGMAN.

PS 417. Public Administration and Public Policy Issues. (G) 4 hours.

Administrative problems of planning and decision-making in local, state, and national governments. Daily, 10:00. 137 Commonwealth. Seligman.

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. 332 Commonwealth. Dull.

Hst 490. Problems of the Pacific. (G) 4 hours.

A study of current political, economic, and social problems in the Pacific area, and of the historical roots of these problems. Daily, 11:00. 332 Commonwealth. Dull.

PS 501. Research. Hours to be arranged.**PS 503. Thesis.** Hours to be arranged.**PS 505. Reading and Conference.** Hours to be arranged.**PS 507. Seminar: 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. 126 Education. Foskett, Laughlin, Littman, Macy, Ostrom, Tope.

PSYCHOLOGY

Associate Professor: LITTMAN. Assistant Professors: PIERCE-JONES, SUNDBERG.

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

Application of psychological methods to the study of the individual; the role of the psychologist in clinical settings; interviewing; theoretical and statistical background for interpretation of test scores; survey of intelligence tests. Prerequisite: individual differences, statistics, or consent of instructor. MWF, 10:00. 301 Condon.

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

Supervised practice in clinical interviewing and the administration and scoring of the Stanford-Binet intelligence test; survey of other intelligence tests; training in test interpretation and diagnosis, with actual cases. Prerequisite: Psy 421 or Psy 431. MWF, 1:00. 301 Condon.

Psy 435. Counseling Procedures. (G) 4 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. Daily, 8:00. 130 Education. Pierce-Jones.

Psy 450. Abnormal Psychology. (g) 4 hours.

Various forms of unusual behavior, including anxiety states, neuroses, and psychoses. Normal motives and adjustment mechanisms as they are exaggerated in the so-called neurotic person. Daily, 8:00. 301 Condon. Sundberg.

Psy 460. Psychology of Infancy and Childhood. (g) 4 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. Daily, 11:00. 301 Condon. Littman.

Psy 461. Psychology of Adolescence. (g) 4 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. Daily, 9:00. 130 Education. Pierce-Jones.

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 and process considered in detail. Daily, 8:00-10:00. 126 Education. Foskett, Laughlin, Littman, Macy, Ostrom, Tope.

SOCIOLOGY

Professor: BERREMAN. Associate Professor: MARTIN. Instructor: JOHANNIS.

- Soc 301. Principles of Sociology.** 4 hours.
Fundamental concepts and empirical findings in the field of sociology. Not open to students who have completed Soc 204, 205. Daily, 8:00. 102 Commonwealth. Johannis.
- Soc 407. Seminar: Population Problems.** (G) 2 hours.
Analysis of trends in fertility, mortality, population size and composition, and population redistribution, with special reference to the population of Oregon. Prerequisite: general sociology or general psychology. Tu, 3:00-5:00. 234 Commonwealth. Martin.
- Soc 417. Juvenile Delinquency.** (G) 4 hours.
Nature and extent of delinquent behavior; contributing factors; current preventive and treatment programs. Prerequisite: general sociology or general psychology. Daily, 9:00. 102 Commonwealth. Martin.
- Soc 432. Community Structure and Organization.** (G) 4 hours.
Analysis of the community as a social system. Social class influences on the school, church, and other community institutions and voluntary associations. Conflict, cleavage, integration, and other aspects of community organization. Prerequisite: general sociology. Daily, 10:00. 102 Commonwealth. Martin.
- Soc 464. The Family in American Culture.** (g) 4 hours.
The family as a social institution. The development of the familial institution in society. The interrelation of the family and other social institutions. Class, ethnic, and religious variations in family life. Changes and trends in patterns of family living. Prerequisite: introductory course in sociology, anthropology, or psychology. Daily, 1:00. 102 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: 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. 126 Education. Foskett, Laughlin, Littman, Macy, Ostrom, Tope.

SPEECH

Associate Professor: ROBINSON. Assistant Professors: KRETSINGER, RAMEY. Instructors: COHEN, HARRISON, HUNTER. Visiting Faculty: PALMER, WEST.

- Sp 111. Fundamentals of Speech.** 4 hours.
Projects in extempore speaking. Primary emphasis on content, organization, and adjustment to the speaking situation. Daily, 9:00. 201 Villard. Kretsinger. Cohen.
- Sp 264, 265, 266. Production Workshop.** 3-6 hours.
Practical experience in connection with the production of plays. Planning and construction of stage settings and properties; principles of lighting; mechanics of the physical stage. Time to be arranged. Ramey.
- Sp 370. Phonetics.** 4 hours.
Study of sounds used in speech. Determination of sounds; their symbolic nature; their production; physical and psychological problems involved in their perception; sectional differences. Daily, 11:00. 201 Villard. Kretsinger.
- Sp 444. Radio and Television Program Production.** (G) 4 hours.
Theory and application of radio and television production techniques as they

- apply to major continuity types ; actual "on the air" production and direction, with critical evaluation of programs produced. Experience in casting, re-writing, rehearsing, and broadcasing under conditions similar to those found in the industry. Prerequisite: consent of instructor. Daily, 2:00. 304 Villard. Kretsinger.
- Sp 448. **Radio and Television and the Public.** (G) 4 hours.
The influence and importance of radio and television as a social, political, and cultural force ; history of radio and television programming ; commercial versus public-service broadcasting ; public opinion and propaganda influence of radio and television. Daily, 10:00. 304 Villard. Kretsinger.
- Sp 451. **Theory of Dramatic Production.** (G) 4 hours.
Lectures, discussion, and analysis of production theory. Prerequisite: Sp 351, 352, 353. Time to be arranged. Robinson.
- Sp 464. **History of the Theater.** (G) 4 hours.
An historical study of the theater from ancient to modern times. Daily, 11 :00. 206 Villard. Hunter.
- Sp 467, 468. **Lighting for Stage and Television.** (G) 4 hours.
The functions of lighting on the stage and in the television studio. The qualities of light. lighting instruments, control systems. Functions of light in the theater, theories and methods of lighting stage productions. Time to be arranged. Ramey.
- Sp 482. **Speech Defects and Disorders.** (G) 4 hours.
Emphasis on cleft-palate and spastic speech, aphasia, stuttering, and neurological speech disorders. Daily, 8:00. 101 Villard. Palmer.
- Sp 483. **Clinical Methods in Speech Correction.** (G) 4 hours.
Study of specific approaches and techniques used in treatment of the major speech defects, including functional articulatory difficulties, cleft-palate speech, stuttering, and neurological speech disorders. Daily, 9:00. 101 Villard. Palmer.
- Sp 484, 485, 486. **Clinical Practice in Speech Correction.** (G) 2-6 hours.
Actual case experience for student clinicians in diagnosis and treatment of speech-defective children and adults on an individual basis, under a plan of supervised practice. Time to be arranged. Palmer.
- 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: Technical Problems of Theater.** 2-4 hours.
Time to be arranged. Ramey.
- Sp 507. **Seminar: Rhetorical Theory.** 4 hours.
Daily, 8:00. 217 Villard. Cohen.
- Sp 507. **Seminar: Discussion and Debate in Education.** 4 hours.
Daily, 11 :00. 217 Villard. Cohen.
- Sp 507. **Seminar: Speech Communication in Group Control.** 4 hours.
Daily, 1 :00. 217 Villard. Cohen.
- Sp 507. **Seminar: Neurological Speech Disorders.** 6 hours.
First four weeks, June 21-July 16. Diagnosis and treatment of cerebral palsied speech, the aphasias, postpolio speech, and other neurological speech disorders. Prerequisite: consent of instructor or director of Speech Clinic. Daily, 8:00, 1 :00-3:00. 201 Villard. West.

