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Oregon

**The University of Oregon
General Catalog
1973-74
Eugene**

University of Oregon 1973-74 General Catalog

The information in this catalog endeavors to be as current as possible. However, circumstances constantly change within a large institution, and new decisions may affect the accuracy of the details appearing here. This very likely will be true for the fee schedules, which were being reviewed by the State Board of Higher Education when the catalog went to press.

Students are advised to study closely the *Time Schedule of Classes*, available at registration, and to consult with faculty advisers for information not available when the catalog was published.

Copies of this catalog may be obtained by mailing \$1.25 to University of Oregon, Box 3449, University Station, Eugene, Oregon, 97403. Zip code must be included in the return address.

The catalog is available on-campus at both the University bookstore and the student union, and may be purchased for \$1.00.

The *University of Oregon 1974-75 General Catalog* will be published in midsummer 1974, and may be purchased in the same manner.

The *University of Oregon 1974 Summer Session Catalog* will be published in March 1974 and may be received by writing Summer Session, room 130 Education, University of Oregon, Eugene, Oregon 97403. There is no charge for the Summer Session catalog.

Address for all University offices is :
University of Oregon
Eugene, Oregon 97403

Telephone (University Information) is :
(Area Code 503) 686-3111.

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General Catalog

University of Oregon

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OREGON LIBRARY

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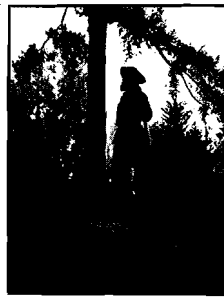


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Academic Calendar

Fall Term 1973

August 15 Wednesday . . . Last day to apply for fall term admission.
 September 16-21 Sunday to Friday . . . New Student Week.
 September 20-21 Thursday and Friday . . . Registration.
 September 24 Monday . . . Classes begin.
 September 26 Wednesday . . . Last day to pay fees without penalty.
 October 5 Friday . . . Last day for fall term registration.
 October 12 Friday . . . Last day to change courses.
 November 22-25 Thursday to Sunday . . . Thanksgiving vacation.
 December 7 Friday . . . Fall term graduation convocation.
 December 10-15 Monday to Saturday . . . Fall term examinations.

Winter Term 1974

January 3-4 Thursday and Friday . . . Registration.
 January 7 Monday . . . Classes begin.
 January 7 Monday . . . Last day to pay fees without penalty.
 January 18 Friday . . . Last day for winter term registration.
 January 25 Friday . . . Last day to change courses.
 March 9 Saturday . . . Winter term graduation convocation.
 March 12-16 Tuesday to Saturday . . . Winter term examinations.
 March 18-24 Monday to Sunday . . . Spring vacation.

Spring Term 1974

March 25-26 Monday and Tuesday . . . Registration.
 March 27 Wednesday . . . Classes begin.
 March 27 Wednesday . . . Last day to pay fees without penalty.
 April 9 Tuesday . . . Last day for spring term registration.
 April 16 Tuesday . . . Last day to change courses.
 May 27 Monday . . . Memorial Day Holiday.
 June 3-8 Monday to Saturday . . . Spring term examinations.
 June 8 Saturday . . . Alumni Day.
 June 9 Sunday . . . Commencement Day.

Summer Session 1974

June 17 Monday . . . Registration.
 June 18 Tuesday . . . Classes begin.
 June 21 Friday . . . Last day to pay fees without penalty.
 June 28 Friday . . . Last day for summer session registration.
 July 4 Thursday . . . Independence Day Holiday.
 July 5 Friday . . . Last day to change courses.
 August 9 Friday . . . Eight-week session ends.
 August 10 Saturday . . . Summer Session graduation convocation.
 August 30 Friday . . . Eleven-week session ends.

Fall Term 1974

August 15 Thursday . . . Last day to apply for fall term admission.
 September 22-27 Sunday to Friday . . . New Student Week.
 September 26-27 Thursday and Friday . . . Registration.
 September 30 Monday . . . Classes begin.
 October 2 Wednesday . . . Last day to pay fees without penalty.
 October 11 Friday . . . Last day for fall term registration.
 October 18 Friday . . . Last day to change courses.
 November 28-December 1 Thursday to Sunday . . . Thanksgiving vacation.
 December 13 Friday . . . Fall term graduation convocation.
 December 16-21 Monday to Saturday . . . Fall term examinations.

September 1973

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August 1974

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History

THE history of the University of Oregon dates from October 19, 1872, when the University was established by an act of the Oregon Legislature. The institution formally opened its doors to its first 177 students on October 16, 1876; the University will observe its centennial anniversary in 1976. Currently, there are 15,432 students enrolled, including 3,584 in graduate studies; an additional 1,431 students attend the Medical and Dental schools on the University's Portland campus. The University has over 1,300 faculty members engaged in teaching and research during the regular academic year.

From a small curriculum limited almost entirely to classics and literature, the University has continued to expand to a current curriculum covering a broad range of knowledge. There are now thirty-five departments and special programs in the liberal arts; nine professional schools and colleges; twelve research bureaus, institutes, and centers; and a graduate division.

The quality of the programs of instruction at the University of Oregon was recognized in 1969 when the institution was named to membership in the Association of American Universities. The University has full accreditation from the Northwest Association of Secondary and Higher Schools.

Funds for the support of higher education in Oregon are derived primarily from state appropriations for the operation of institutions, specified sums from the national government assigned for definite purposes by Congressional acts, income from student tuition and other fees, and such sources as gifts, grants, sales, and service charges.

The Community

The University of Oregon main campus is in Eugene, a city of some 85,000 people located at the southern tip of the Willamette Valley. Although the community is the state's second largest metropolitan area, it retains much of the atmosphere of a small town.

1 General Information

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Eugene is an hour's drive from either seacoast or Cascade ski slopes. Because of its location, its unspoiled natural environment, and mild year-round climate, outdoor activities, like camping, hiking, fishing, boating, and skiing are extremely popular.

Both campus and community sponsor and patronize a wide variety of lectures, art exhibits, concerts, and theatrical productions, as well as sports events. Local facilities for education, recreation, shopping, and medical care all are excellent.

Outside the Eugene-Springfield metropolitan area, Lane County is pleasantly rural. Its evergreen forests help make it the lumber capital of the United States, with agriculture ranking as its second industry. Eugene is the county seat, and site for a number of federal, state and local governmental agencies. Students may and do take part in all aspects of community life.

Administration

The fundamental structure for the government of the University of Oregon was established on October 28, 1876 in a legislative statute commonly known as the University Charter. It specified that the President and the professors constituted the University faculty, and that this faculty should "have the immediate government" of the institution.

This established a tradition of consultative and mutual responsibility for the University's government which has continued to the present time.

Many of the academic practices of the University are established at the monthly open faculty meetings. Among the President's closest advisers on administrative policies are the members of the Faculty Advisory Council, who are elected by the faculty and who, in regular meetings with the President, provide him with faculty opinion and counsel on University affairs.

In addition to the Faculty Advisory Council, the President is advised by the Council of Deans, by faculty and administrative committees composed of both faculty and students, by the officers of student government which is organized as the Associated Students of the University of Oregon (ASUO), and several other groups. These include citizens' committees, the Alumni Association Board of Directors, and the Development Fund Executive Board of Directors.

The operational responsibilities of the University are exercised by the President through three vice-presidents, in the organizational areas of academic affairs, administration and finance, and student services.

The Vice-President for Academic Affairs and Provost administers planning, direction, and personnel matters for all the campus' professional schools and colleges, the College of Liberal Arts, and the Graduate School. Several other academic and service programs also come within jurisdiction of this office.

The office of the Vice-President for Administration and Finance generally is responsible for the University's fiscal affairs and administrative matters not directly associated with students, curricula, or faculty.

Coordinating student services is the province of the Vice-President for Student Services.

Each vice-president has operational responsibility over the departments within his division, with coordination provided by the President and an executive dean. The President and his immediate staff form an Administrative Committee which meets regularly to formulate operational procedures.

The accompanying chart illustrates administrative structure of the University, naming presidential assistants, vice-presidents and their assistants, and directors of major administrative units.

University Organizational Structure

State Board of Higher Education

Chancellor

<p>Campus Consulting Committees Budget Committee Administrative Committee</p>	<p>University Faculty Faculty Senate Faculty Committees</p>	<p>President, Robert D. Clark</p> <p>Staff Executive Dean, John E. Lallas Assistant to President, Muriel K. Jackson</p> <p>Special Assistants Affirmative Action Officer, Myra Willard Assistant for Legal Affairs, David Frohnmayer University Relations Director, William Korns</p>	<p>Advisory Council</p>	<p>Associated Students University of Oregon</p>
Development Fund Executive Board.....		Development Fund Director, Carl Fisher		
Alumni Association Board of Directors		Alumni Director, Michael Brundage		

Vice-President for Academic Affairs and Provost, Harry Alpert

Assistant for Faculty Personnel, Henry Osibov
Academic Planning Staff, Fred Mohr

Vice-Provost for Academic Administration, Marshall Wattles

Dean of School of Architecture and Allied Arts, Robert S. Harris

Dean of College of Business Administration, Richard R. West

Dean of College of Health, Physical Education and Recreation, Lynn S. Rodney

Dean of School of Journalism, John W. Crawford

Dean of School of Law, Eugene F. Scoles

Dean of School of Librarianship, Elizabeth Findly

Dean of School of Music, Robert Trotter

Head, Department of Military Science and Aerospace Studies, William E. Burr

Dean of College of Liberal Arts, Paul Holbo (Actg.)
Associate Dean for Undergraduate Studies, Robert Albrecht

Associate Dean for Academic Personnel

Assistant Dean for Academic Advising, Beverly Fagot

Assistant Dean for Science Services, Jack Overly

Director of Honors College, Edward Diller

Department Heads, Pre-Professional Programs, Special Study Groups

Dean of Graduate School, Aaron Novick

Associate Dean, Joyce Mitchell

Director of Federal Relations, Joanne Kitchel

Institutes and Bureaus

Vice-Provost for Academic Planning and Resources, Richard Littman

Dean of College of Education, Robert D. Gilberts

Dean of Wallace School of Community Service and Public Affairs, James G. Kelly

University Librarian, T. William Axford

Director of Division of Broadcast Services, John R. Shepherd

Director of Continuing Education, Thomas L. Dahle

Director of Summer Session, Clarence W. Schminke

Vice-President for Administration and Finance, N. Ray Hawk

Assistant for Administration, Herbert Penny

Assistant, Ralph C. Sunderland

University Historian, George Belknap

Director of Budget Office, Ralph C. Sunderland

Director of Business Affairs, W. N. McLaughlin

Assistant Business Manager, Donald Thomas

Internal Audits Manager, Harry Cronan

Research Financial Administrator, Donald Howard

Traffic Appeals Officer, Charles Wood

Director of Classified Personnel, Jack W. Steward

(Collective Bargaining Officer), Jack W. Steward

Assistant Personnel Director, Albert Moore

Staff Benefits Officer, Robert Simmons

Director of Computing Center, George W. Struble
Administrative Officer, Gus Pusateri
Operations Manager, Toshira Katsura
Systems Programming Supervisor, Gordon Ashby
User Services Director, Fred Beisse

Director, Environmental Health & Safety Programs, Robert Sudmann

Radiation Safety Officer, Robert Sudmann

Director of Intercollegiate Athletics, Norval J. Ritchey

Assistant Athletic Director, W. J. Bowerman

Athletic Business Manager, Odell Wood

Athletic Public Relations Director, Wm. C. Landers

Director of Museum of Art, Richard C. Paulin

Chief Preparator, Mark Clarke

Supervisor, Statewide Services, Antonio Diez

Director of Physical Plant, Harold Babcock

Assistant Director—Physical Plant, Leland Lorange

Assistant Director—Architecture, Jon Kahananui

Fiscal and Business Officer, Robert Schutz

Heat and Power Plant Superintendent, Archie F. Hammon

Director of University Planning, Harry Van Oudenallen (Actg.)

Director of University Relations, William Korn

Director of Public Affairs

Director of News Bureau, Josephine Moore

Director of Printing Department, Claus Hauboldt

Director of Publications, Tom Mitchell

Vice-President for Student Services,

Gerald K. Bogen

Director of Erb Memorial Union, Richard C. Reynolds

Associate Director, Adell McMillan

Associate Director for Programs, Neil Murray

Food Director, Kenneth Larsen

Outdoor Program Coordinator, Gary Grimm

Recreation Coordinator, Gary Bartlett

Scheduling Officer, Dorine Duval

Dean of Student Administrative Services, Donald Rhoades

Director of Admissions, Vernon Barkhurst

Director of Student Financial Aids, Walter Freauff (Actg.)

Registrar, Spencer Carlson

Director of Student Services Research, Arthur Bowers

Educational Opportunity Services Program Office

Director of Student Health Services, Avard C. Long, M.D.

Assistant Director, Herbert C. Lemon, M.D.

Administrative Officer, Snell B. Prince

Director of Nurses, Leota Boyington

Dean of Student Personnel Services, Robert Bowlin

Associate Dean of Student Services, Shirley J. Wilson

Director, Career Planning and Placement Service, Verlin Odell

Coordinator, Career Planning

Director of Counseling Center, David Brinks

Director of International Student Services, Kenneth Ghent

Coordinator of Student Conduct Programs, Donald McCarty

Director of University Housing, Philip Barnhart
Assistant Director of Housing, Dennis Vetrus
Director of Married Student Housing, John Thorpe
Assistant Director of Dormitory Student Personnel Services, Richard Romm
Conference and Summer Session Coordinator, Charles Harris
Personnel Coordinator, Dorothy Goode
Executive Housekeeper, Jeanette Sullins
Food Services Coordinator, Patricia Smith

Director of University Security, Oakley Glenn
Parking Administrator, James O'Donnell
Security Supervisor, Winfred Smith
Key Issuance, Betty Pyle

Equal Opportunity

The University of Oregon is committed to provide equal opportunity and access to University facilities to everyone, without regard to race, creed, color, age, sex, or national origin. In an affirmative action policy statement on October 15, 1971 the University adopted the following general policy:

Policy. It is the policy of the University of Oregon that discrimination based on race, color, religion, sex, age, or national origin shall not exist in the University.

This policy applies to all facets of the University, and is intended to carry out explicitly all state and federal laws and executive orders which pertain to discrimination.

To carry out this policy, the University has established an Affirmative Action Program. The Program describes specific procedures to be employed in avoiding discrimination. It recognizes that merely to oppose discrimination is not sufficient to achieve nondiscrimination, and that traditional employment practices often perpetuate the status quo. The University is pledged to actively seek new and creative ways to combat discrimination and to insure that nondiscrimination is a pervasive part of the University environment.

Intent. Growing out of the policy stated above, and in recognition of the disadvantaged position of women and minorities with respect to employment in society, the University of Oregon Affirmative Action Program is a positive plan intended to:

- (1) increase substantially the employment of women and minority group persons in add segments of the University's work force to levels at least equal to their availability within comparable work forces.
- (2) insure that women and minority group persons receive equal opportunity and treatment with other employees in respect to salary, promotion, advancement, and all other aspects of employment.
- (3) encourage admissions of minority and female students, particularly to Ph.D. and other graduate and professional programs.

Student Government

Associated Students of the University of Oregon (ASUO)

Purpose. Student government at the University of Oregon is the Associated Students of the University of Oregon (ASUO). It is a network of agencies, activities, and programs designed to serve student needs and interests. The purpose of the ASUO is to give students the opportunity to plan and direct their own programs, to become involved with nearly every aspect of University life, and to influence the decisions that affect the quality of education and student life at the University of Oregon.

Structure. The ASUO is divided into executive, legislative, and judicial branches. The executive body is composed of a president, vice-president, and three administrative officers. It is responsible for the incidental fee budget and oversees the ASUO programs. The executive branch also recommends the appointment of student members to the many regular and ad hoc committees that serve the University and its administration.

During the past year, the ASUO student senate, which acted as the student government's legislative arm, was discontinued with a view toward forming a faculty-student senate which would give students true co-governance responsibilities with the faculty. Two groups have been established to take over the Senate's function during the interim: a seven-person co-governance committee which is working with administration, students, and faculty to determine guides for the proposed faculty-student senate; and the incidental fee committee, composed of five student members elected by the student body.

The judicial branch of the ASUO is the constitution committee. It has the responsibility for interpreting the ASUO constitution. Its five members, four of whom are University of Oregon School of Law students, are appointed by the ASUO president. ASUO elections are administered by the elections board with an elections court, both functionally responsible to the ASUO vice-president.

Funding. ASUO administrative costs, programs, and services are funded from incidental fees paid by students at the beginning of each term during registration. Incidental fee payments, amounting to approximately \$19-\$20 per student per term, make up a large share of the budget which is proposed by the ASUO and finally approved by the State Board of Higher Education.

The proposed incidental fee budget for 1973-74 is estimated at nearly one million dollars. The incidental fee is administered by the ASUO and allocated by the five-member incidental fee committee.

Each spring the ASUO president submits an estimated ASUO incidental fee budget to the President of the University, after agencies and programs have submitted estimates of their year's needs to the ASUO, and their funding requests have been reviewed by the incidental fee committee. The final incidental-fee budget is approved by the State Board of Higher Education.

Erb Memorial Union. Approximately half the ASUO budget goes toward the support of the Erb Memorial

Union. The student union is the focal point for a wide variety of educational, cultural, and recreational activities. The bulk of student funds received annually by the EMU are used for internal administration—staff salaries, food service, and maintenance. Costs of personnel and supplies for such specialized services as the EMU Print Shop, the Poster and Sign Shop, and the Main Desk are also paid from student fees, as are programs such as Club Sports, the Outdoor Program, and the Crisis Center.

The EMU was built more than twenty years ago for a student population of about 8,500. Construction funds came entirely from gifts and student fees. Now that the student enrollment has nearly doubled, EMU facilities are often inadequate, and construction has begun on a three-story addition due to be completed in the spring of 1974.

The addition will provide new space for the student government and service offices now located on the third floor of the EMU. Other areas of the addition will house lounges, meeting rooms, a craft workshop, and new food-service facilities.

Athletic Department. The ASUO has budgeted \$150,000 to the UO Athletic Department for the academic year 1973-74, so that students may purchase either season or individual tickets to campus athletic events for a reasonable cost.

Oregon Daily Emerald. The ASUO annually pays a bulk subscription rate to the *Oregon Daily Emerald*, the University independent daily student newspaper. In the coming year, the Emerald will receive about \$30,000 from the ASUO, entitling each student to receive a daily copy of the paper.

ASUO Services

Housing Office. The Housing Office provides a rental referral service for students looking for off-campus housing or roommates. It annually publishes a pamphlet containing a section on landlord-tenant law, and a variety of helpful information for the prospective renter.

Crisis Center. The Crisis Center gives students help with personal crises resulting from stress, drugs, or emotional problems, which occur during the evening or early morning hours when other campus services may not be available.

Student Projects, Inc. SPI, a student operated non-profit corporation, includes two major units: Footnotes, which each term publishes class notes for large lecture courses; and ARSEP, the Andreason Recreation and Services for the Elderly Program, in which students provide recreation and service programs for older people in the community's nursing homes and senior activity centers.

OSPIRG. The Oregon Student Public Interest Research Group is a statewide organization of college students, funded with student fees, to investigate consumer and environmental problems.

International Education Center. The IEC was established as a campus information and coordinating agency for overseas travel, work, and study programs. Its services have expanded to provide coordination of campus and national programs promoting international understanding.

Survival Center. The Survival Center offers a way for students and community to share information and concern about environmental issues, and provides the organization for projects directed at specific problems. An example is Project Intercept, designed to recycle paper used in the Erb Memorial Union and other campus buildings, and to begin the education needed to change "trash habits" on the campus.

ESCAPE. Student-initiated and student-run, ESCAPE is an accredited practicum which places student volunteers as teaching aides, tutors, and counselors in public and private local schools, day-care centers, nursing homes, and other educational agencies throughout the Eugene area.

EMU Recreation Programs

Club Sports. Participation by all interested students is the emphasis of the Club Sports Program, a special inter-collegiate athletic program.

Outdoor Program. The Outdoor Program maintains a recreational and educational center for those who enjoy outdoor life. The Program enables students and other members of the community to participate in a variety of outdoor experiences geared to individual tastes and skills, and at a low cost.

Women's Recreation Association. The WRA is open to all women students at the University, who may participate in a wide selection of sports activities, either for recreation or in intercollegiate competition.

Cultural, Educational and Environmental Programs

Cultural Forum. The ASUO Cultural Forum uses student-fee funding to plan and present a campuswide program of entertainment and cultural activities each year.

Cosmopolitan Student Association. The CSA has pursued the goals of promoting cross-cultural exchanges among nationalities represented on the campus, thus fostering friendship and international cooperation.

KWAX-FM. The student-operated campus radio station KWAX-FM (91.1) provides radio programming and service for both the University and the community.

Music. The ASUO provides some financial support for student music activities, bands, choirs, and symphony orchestra, which are administered by the School of Music.

Repertory Dancers. The Modern Repertory Company, composed of faculty and advanced modern dance students, performs works choreographed by students and the director. The company performs on campus several times each year.

Recreational Folk Dancing. This program provides folk dance instruction and evening dance recreation up to three nights a week for interested members of the University community.

SEARCH: Office of Experimental and Innovative Education. SEARCH is the ASUO agency responsible for student initiated and frequently student-taught courses labeled experimental or innovative either because the content, or learning situation, or both, differ greatly from

existing standard courses. These courses carry full University academic credit.

Forensics. Forensics is the University's debating society, funded by the ASUO and advised by faculty and staff from the Department of Speech.

Administrative Units and Student Associations

Student Administrative Board. The Student Administrative Board (SAB) is responsible for: (1) setting policy relating to student organizations, on-campus extracurricular activities, and fund raising activities among students; (2) granting or withdrawing recognition of student groups; (3) developing criteria to guide scheduling of campus events; and (4) authorizing the use of the University's name by student groups.

Legislative Coordinators. The Office of Legislative Coordinators voices student opinions and concerns to the Oregon State Legislature, informs legislators of campus activities, and promotes student involvement in the legislative process.

Legal Services. The ASUO Legal Services Office, staffed by two lawyers and several secretaries, provides legal services for all students who have paid their incidental fees, excluding litigation and some exceptions such as the preparation of tax returns and wills. The office also provides legal advice to the ASUO executive and ASUO programs.

Interinstitutional Union of Students. This organization, composed of elected and appointed delegates from seven schools in the Oregon System of Higher Education, attempts to mobilize student opinion and make it part of the decision making process within the State Board of Higher Education and the Legislature. It also provides a valuable channel of communication for students in state system schools.

National Student Lobby. The National Student Lobby is a federation of state organizations, student governments, and individuals devoted to the interests of the recently enfranchised millions of college and secondary school students throughout the United States. As a registered lobby with the U.S. Congress, the NSL maintains close contact with state student lobbies (legislative coordinators) and other statewide student associations, providing mutual support in their respective endeavors. The ASUO encourages University students to participate in the NSL.

Student Unions

Black Graduate Student Council. The Black Graduate Student Council represents the interests and needs of black graduate students at the University.

Black Student Union. The Black Student Union is the focus of social and cultural activities, the agent for developing community unity and black consciousness, and the center for promoting interest and involvement in University affairs among black students.

Foreign Student Organization. The Foreign Student Organization (FSO) represents the University's foreign students before the State Board of Higher Education, the Legislature, the University administration, and the student body in matters that directly affect foreign students.

Graduate Student Council. The Graduate Student Council (GSC) is an elected body representing the interests of more than 3,600 graduate students.

MEChA. This organization represents the Chicano students at the University. MEChA stands for *Movimiento Estudiantil Chicanos de Aztlan*, or Student Movement of Chicanos of Aztlan. It coordinates Chicano student activities and represents the interests of Chicano students at the University.

Native American Student Union. The Native American Student Union (NASU) is primarily concerned with orienting native Americans to campus life through cultural, recreational and social events; and in educating the community to native American life styles, both historic and contemporary.

Student Bar Association. The Student Bar Association (SBA) functions as the umbrella agency for student interest groups within the University of Oregon School of Law.

University Feminists. University Feminists is an organization of women committed to the elimination of sexism from the campus, and to the advancement of women's rights.

Oregon Prisoners Coalition. OPC is an association of students who have had experience with a variety of correctional institutions. It is a clearinghouse for rehabilitation and social programs for prisoners and ex-prisoners, and is partially funded through the ASUO.

Selective Service System

Information on current selective service regulations, including minimum class loads for graduates and undergraduates, and liaison with a student's draft board is available from the selective service clerk in the Office of the Registrar.

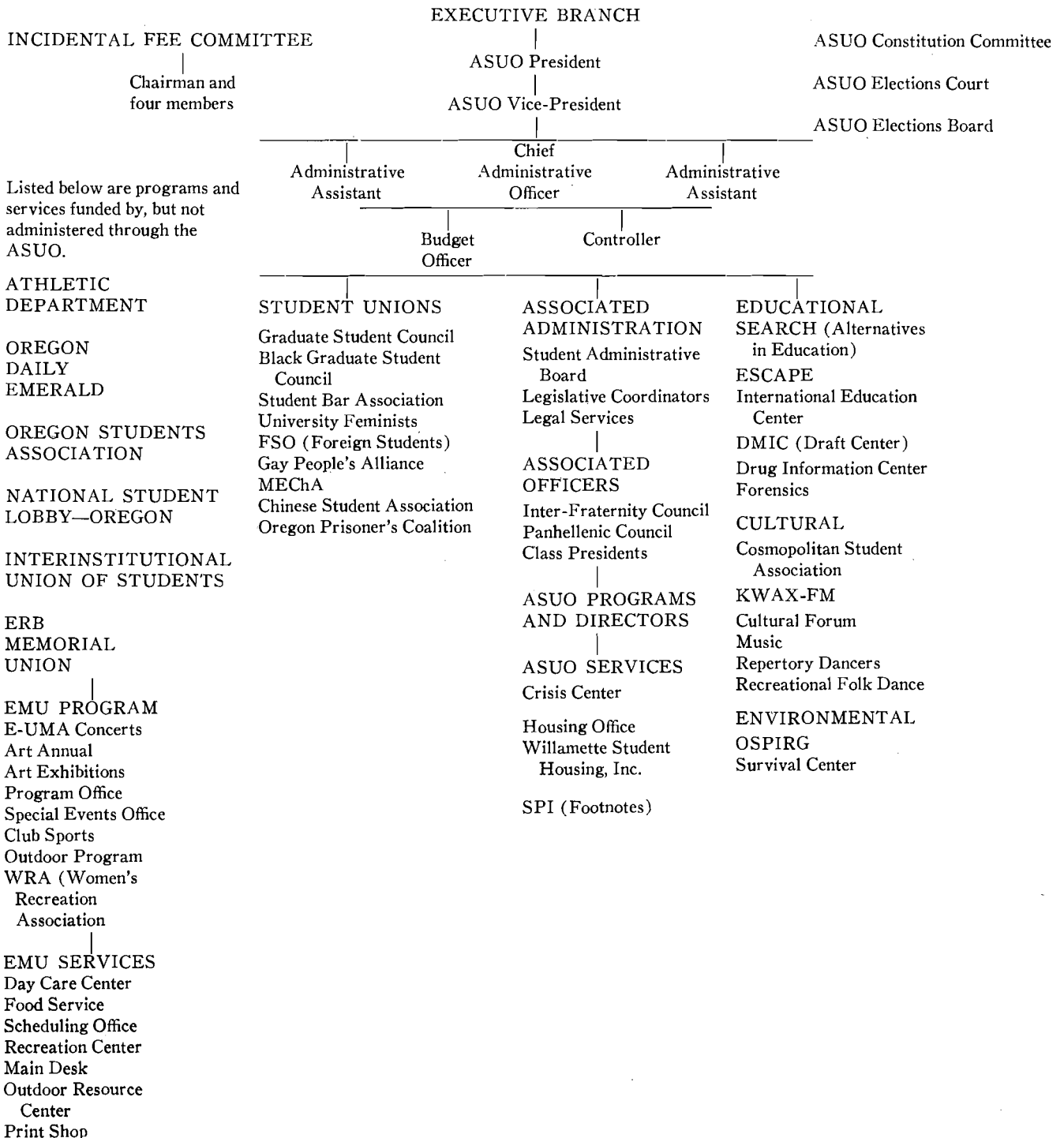
Further information and personal counseling are available from the ASUO Draft and Military Center in the Erb Memorial Union. Counselors are familiar with military law and alternatives to military service; a specialized library is maintained containing reference works, selective service bulletins, and minutes of Congressional meetings.

Veterans' Benefits

Information about the G.I. Bill, Oregon State Veterans' Aid, and War Orphans' Education Assistance is available at the Office of the Registrar. A veteran is considered to be a full-time student if enrolled for 12 credit hours in undergraduate studies, or 9 credit hours in graduate studies.

ASUO Organizational Structure

The current organizational structure is shown here, along with a listing of most of the programs and services to be supported wholly, or in part, by the ASUO during the academic year 1973-74.



Alumni Association

Director, Michael H. Brundage

THE objectives of the Alumni Association are to advance the cause and quality of higher education in general and particularly in the state of Oregon, to promote the interest and increase the usefulness of the University of Oregon, to encourage the mutual acquaintance and good fellowship of the alumni, and to sustain and protect the integrity of the University as a distinguished institution of higher education.

All graduates and all other persons, except those currently enrolled, who have at any time enrolled in a course or courses in any school, college, or department of the University of Oregon are members of the Alumni Association. This is a nondues paying organization.

The major programs now being carried on by the Alumni Association include:

- (1) establishment and maintenance of alumni clubs throughout the country;
- (2) alumni travel program and group tours;
- (3) speakers bureau;
- (4) publication of *Old Oregon* magazine and *Oregon Today*, a newspaper supplement;
- (5) support services for special alumni and friend groups such as Law, alumni, Business alumni, and the State Association of UO Women, which has been providing loan funds and scholarships for students since 1906;
- (6) maintenance of accurate alumni records;
- (7) providing opportunities for continuing education for all alumni.

The alumni programs are administered through the Alumni Office in Susan Campbell Hall on the campus. The governing body of the Alumni Association is the Board of Directors, and currently they are:

Athletics

Director, Norval J. Ritchey

THE Department of Athletics at the University of Oregon is charged with the responsibility of administering nine major sports programs. These include football, basketball, gymnastics, swimming, wrestling, golf, tennis, track and field, and baseball.

Oregon belongs to the Pacific Eight Conference (Washington, Washington State, Oregon State, California, Stanford, UCLA, and USC), and the National Collegiate Athletic Association. As a member of these two organizations, Oregon conducts its programs under their rules and policies.

Oregon is in the University Division of the NCAA which means that all nine sports are conducted at the highest level of intercollegiate competition. Although Oregon does recruit athletes in all nine programs, the policy of the department is to give any student wishing to do so the opportunity to try out for any team.

The athletic department is financed with nonstate funds and relies on contributions from the general public, gate receipts from athletic events, and revenues from the student sector for its budget.

Approximately 500 student-athletes participate in the athletic program at Oregon, and it is the policy of the athletic department to keep it a player's program. Admission to athletic events for students is by paid admission.

Development Fund

Director, Carl O. Fisher

AN INTEGRATED and continuing program to obtain financial support of the academic work of the University from private donors is operated through the University of Oregon Development Fund, a nonprofit organization incorporated under the laws of the state of Oregon. The fund is administered through a Board of Directors, including alumni, faculty members, students, and other friends of the institution. Information concerning the program and concerning University needs for which private support is essential may be obtained from the director and his staff.

Division of Continuing Education

Director, Thomas L. Dahle

The continuing education program is primarily an extension of University resources to persons not regularly enrolled as students on campus. This program includes courses offered for credit or no credit, conferences, cultural offerings, and special educational service projects.

University continuing education programs reach many communities in Oregon and are developed to meet varying needs. They are designed to help people learn to do their jobs well, to lead useful lives, and to make good use of leisure time.

Special educational programs are provided in outlying areas of the state by means of correspondence study and educational broadcasts.

Detailed information may be obtained from the University of Oregon office of the Division of Continuing Education, Education annex, University of Oregon, Eugene, Oregon 97403.

Summer Session

Director, Clarence W. Schminke, Ph.D.

The Open Campus Concept. The summer program is open to anyone wishing to study in summer. Formal admission is required only if participation in a formal degree program is desired. The only requirement is that a Registration Request notice be filed at least three weeks in advance of registration day to allow preparation of a personalized registration packet. All summer courses offer bona-fide University credit.

Course Scheduling. More than thirty instructional units offer over 800 courses in addition to individual study and research opportunities. The eight-week session encompasses the majority of these courses. Shorter courses ranging from one to six weeks in length are available and begin at various times throughout the summer. Courses in the eleven-week session are restricted to concentrated study programs in which three terms or one academic year of credit can be earned during one summer. A small number of workshops are usually available during the week preceding the eight-week session.

1974 Summer Session Calendar. June 10-14 are the dates for the Pre-session, with the Eight-Week Session beginning June 18 and ending August 9, and the Eleven-Week Session extending from June 18 until August 30.

June 17 is registration day for the two major sessions. Registration before June 17 is not allowed, with the exception of courses in the pre-session week. Registration for other courses is on the first day of class. See the *Summer Time Schedule of Classes* for detailed registration procedures.

Summer Session Students. An estimated 7,500 students enroll for credit in summer courses. About 45% of this total are undergraduates, and 55% are normally graduate students. Approximately half the total enrollment is composed of students who were enrolled either fall, winter, or spring quarters. Teachers, students previously admitted to a degree program, summer-only graduate degree candidates, and the once-only matriculators account for the other half of the summer student population. One-third of the Summer Session enrollees come from out of state since nonresident fees have traditionally been waived for summer. The difference in student body composition is evident when compared with the regular academic year, when 75% are undergraduates and 25% are graduates. Over 15,000 students are on campus during the regular year.

Summer Faculty. Some 500 faculty members and 250 graduate teaching fellows serve students during the summer. The summer teaching program is enriched with contributions of approximately 100 visiting faculty. The concentrated nature of the summer program allows more frequent contact with the faculty.

Prefreshman Program. A resident of Oregon who is unable to qualify for fall-term admission on the basis of a high-school record or either SAT or ACT test scores, has the opportunity to qualify for admission by doing acceptable work during Summer Session. Any student

who wishes to participate in the prefreshman program is advised to consult the Office of Admissions for complete information.

Summer Fees. Fee structures are subject to change, but the fees charged for Summer Session generally are the same as those charged during the preceding spring term. It is likely that the fee schedule on page 28 of this *Catalog* will be followed for the 1974 Summer Session. A notable exception is that nonresident fees are waived.

Housing. Dormitory facilities during the summer are abundant, making reservations prior to registration unnecessary. Double rooms are available for married couples without children. Although a few vacancies may become available, the married student housing projects are usually occupied during the summer by year-round students. Rental houses, apartments, and boarding houses are located near the campus. Complete housing information is in the *Summer Session Catalog*. Inquiries about University housing should be directed to the Housing Office in Carson Hall.

Financial Aid. The University has scholarships, loans, and part-time work available, although on a relatively restricted basis during the summer. The largest amount of this aid accrues to continuing students rather than to those attending only during the summer. Students planning to attend the Summer Session who are in need of financial assistance should consult the Office of Financial Aid to permit an early determination of their eligibility for the various types of financial aids available.

Summer Session Publications. The comprehensive *Summer Session Catalog* will be available on about March 1, 1974, and the *Summer Time Schedule of Classes* on about May 15. Some special programs are highlighted in separate circulars.

For More Information. Further information about the Summer Session may be obtained from the *Summer Session Catalog* or by writing the Director of Summer Session, Room 130 Education, University of Oregon, Eugene, Oregon 97403.

Buildings and Grounds

Campus buildings and grounds are maintained by the University's Physical Plant. A landscape maintenance crew cares for the lawn, trees, and shrubs on more than 250 acres of campus. A team of licensed tradesmen in cabinetry, carpentry, painting, electrical work, and plumbing care for the campus buildings, which encompass some three million square feet of space.

Also administered by the Physical Plant is the heating and power plant which provides steam heat to most campus buildings, and which supplies electricity to sixty per cent of the University's buildings.

Responsible for the proper functional and esthetic use of the University's facilities are the professional members of the Physical Plant's planning and architectural staff. These include the campus planner, the space analyst, and the University architect.

The Physical Plant maintains two University facilities in other parts of the state, the Marine Biology Station at Charleston on the Oregon coast, and Pine Mountain Observatory near Bend in central Oregon.

In all, the Physical Plant employs, on the average, 220 full-time employees and seventy-five seasonal and part-time employees, of whom fifty are students.

Division of Student Personnel Services

Dean, Robert L. Bowlin, D.Ed.

Analyst, Howard Ramey, M.F.A.

THE University offers to students an integrated program of counseling and assistance under the direction of the Dean of Student Personnel Services. The dean's staff has responsibility for counseling, career planning and placement, the conduct program, assistance to foreign students, reading and study skills assistance, advising student organizations, and other aspects of student welfare.

Office of Student Services

Associate Dean, Shirley J. Wilson, M.A.

Assistant Dean, Judith R. Bogen, M.Ed.

Assistant Dean, Jane M. Farrand, B.A.

Assistant Dean, Leonard Jackson, M.S.

Assistant Dean, Mary N. Longland, M.A.

Assistant Dean, W. Claire Nosler, B.B.A.

Assistant Dean, George W. Wasson, M.S.

Assistant Dean, David A. Zumwalt, M.S.

The Office of Student Services, located in the Administrative Services Building, provides a potpourri of services to assist students with their personal, academic, and career needs and goals. "Ombudsman" assistance is always available to students, as well as detailed information on campus resources.

Staff members in the Office of Student Services serve as facilitators who try to be sensitive to objectives and resources of all segments of the academic community, bringing together the widest range of talents and resources possible to accomplish the goals described above. Attention is invited to three programs:

Early Orientation and Registration Program. Upon being admitted to the University, freshmen who have had no previous college enrollment receive invitations to participate in a special orientation, advising, and registration program in July. Actual registration for fall-term classes will be completed during the July program. Students are provided opportunities to confer with their academic advisers, to learn about the various academic

programs offered by the University, and to plan their own schedules of courses for the year. Other University faculty and staff members and upperclass students will be available to assist participants in becoming acquainted with University resources and facilities. In conjunction with the Early Orientation and Registration Program, a special concurrent day of events is planned for parents of freshman students.

New Student Week. The days of activity preceding fall-term classes are planned to acquaint new undergraduates with campus resources and facilities. A variety of programs including workshops, small group discussions, outdoor activities, films and other cultural activities are scheduled throughout the week. New students who did not participate in the Early Orientation and Registration Program during the summer will meet with their academic advisers and register for classes during the week.

A schedule of events and complete information is mailed to all new students prior to their coming to campus.

Physically Disabled Students. Special assistance to physically disabled students is provided by several University offices working in conjunction with off-campus agencies attempting to meet the needs of disabled students. Assistance in class planning and registration, coordination of special volunteer services, and modification of architectural barriers is available.

For information and to request assistance, consult the Office of Student Services, Administrative Services Building.

University Counseling Center

Director, David Brinks, Ed.D.

Associate Director, Saul Toobert, Ph.D.

Psychiatric Consultant, W. A. Brooksby, M.D.

Counselor, Sharon Kosch-Graham, Ph.D.

Counselor, Carolin S. Keutzer, Ph.D.

Counselor, William L. Kirtner, Ph.D.

Counselor, George S. Ralph, M.S.

Counselor, Andrew Thompson, Ph.D.

The University Counseling Center provides facilities for counseling and testing University students. Counseling is available for personal-emotional concerns, career decision-making, pre-marriage and marriage counseling. The Center offers group as well as individual counseling. Among group counseling opportunities, human relations, communication skills, and encounter groups are available. Group-process consultation is offered to other divisions and departments of the University. Counseling services are available without fee, although a modest fee is charged for educational and vocational testing.

The Counseling Center serves as a coordinator for most of the national testing programs, such as CLEP, College Entrance Examination Boards, Graduate Record Examination, Law School Test, and the like. Application forms and registration materials for these programs are available at the Counseling Center, which is located in Susan Campbell Hall.

Career Planning and Placement Service

Coordinator of Placement, Verlin Odell, M.Ed.
 Coordinator of Career Planning, Theresa Ripley, Ph.D.
 Counselor, Donald B. McCarty, B.A.
 Counselor for Student Athletes, Ulysses Whitehead, M.Ed.
 Librarian, June Wyant, M.L.S.

Career planning and placement services are available to students from all departments on campus and to University of Oregon alumni. Career planning assistance is available to undergraduates deciding on a major, and to persons seeking a second career. Placement service is available to graduating students and alumni seeking new or better positions.

Students who are currently enrolled, alumni, and persons who have completed twelve or more credit hours at the University are eligible to register for placement service. Limited placement service is provided without charge to graduating seniors and graduate students during their last year at the University. Alumni using the placement service are charged a fee.

The offices of Career Planning and Placement Service are located in Susan Campbell Hall.

University Study Skills Center

Director, Jacqueline Bonner, M.S.
 Director, Study Skills Program for Minority Students, Herb L. Cawthorne, B.S.
 Instructor, Nancy L. Reynolds, M.D.

For students who wish to increase their proficiency in areas of study skills, the University Study Skills Center, located in Condon Hall, offers a variety of courses. An accelerated reading class teaches speed, recall, nonfiction patterns, methods of study, and summarizing for the student who reads with an average to above average comprehension. Other classes include vocabulary building, efficient textbook study, listening and notetaking, and examination skills. For foreign students, the Center offers specialized help in English as a second language with classes directed toward conversation, reading, and writing. On an individual basis, students may receive tutoring in writing, spelling, and reading. A fee is charged for the services.

Student Conduct Program

Coordinator, Donald B. McCarty, B.A.

The University operates under a progressive student-conduct program, which is designed to encourage self-direction and maturity among students while protecting the University's educational objectives and the health and safety of individuals within the University community.

A faculty-student committee has primary responsibility for formulating and evaluating student-conduct policies and procedures. The program is administered by the Coordinator of Student Conduct, whose office is in the Administrative Services Building.

The Code of Student Conduct and detailed information concerning the Student Court, minor courts, and the University Appeals Board appear in the Student Handbook section of the *Time Schedule of Classes*.

International Student Services

Director, Kenneth S. Ghent, Ph.D.
 Assistant Director, Thomas J. Mills, M.S.
 Special Assistant, Mary E. Litchman

The Director of International Student Services and his staff are prepared to counsel students from abroad who are attending the University, to assist them with personal problems and with adjustments to the customs and procedures of American higher education. They are prepared to give advice and help in connection with visas, government regulations, scholarships, employment, and general orientation to American life.

Study Abroad Information. The staff of the Office of International Student Services provides information and advice for American students planning study abroad, including information and selection procedures for Fulbright grants. The Office of International Student Services is in the Administrative Services Building.

Educational Opportunity Services

Special help is offered to educationally and economically disadvantaged students through the University's Educational Opportunity Services (EOS).

The University, recognizing the unique needs of disadvantaged students, provides special services for them in regular campus offices.

Those University offices and departments which provide student services employ personnel, many of them from minority or disadvantaged backgrounds, to act as advocates of the special needs of poor and minority students, and to help them with problems in such areas as admissions, academic advising, tutoring, housing, financial aid, and career planning.

Student Employment

Campus

Student Employment Office. The Student Employment Office is organized to assist University of Oregon students, their spouses and dependents, in finding full or part-time work. No fee is charged for their service. Students may register with this office upon arrival at the University, after determining class schedules. Openings

are usually available in the following areas: child care, gardening, and typing. Most others fluctuate with the general employment situation in the Eugene area. The office is located in the new Administrative Services Building.

Office of Financial Aid The University of Oregon receives an annual appropriation from the federal government to make available part-time employment of students whose parents can make little or no contribution to their higher education.

Federally sponsored work-study jobs are one financial aid package option offered to needy students through this office. Students who qualify for these jobs have many opportunities open to them, as all departments on campus have openings for work-study students. (These jobs are funded 80% by the federal government and 20% by the department.)

Students applying for College Work-Study awards must be in need of earnings from employment, must maintain good academic standing, and must be accepted for enrollment as full-time students.

In order to receive prime consideration for any financial assistance, applications must be submitted by March 1 prior to the fall term in which one plans to enroll. Eligibility is determined on the basis of the application for financial aid and the Parents' Confidential Statement. The Office of Financial Aid is in the new Administrative Services Building.

Oregon State Employment Office, University of Oregon Branch. This office coordinates applications and information regarding civil service jobs available on the University of Oregon campus; Personnel Office, Administrative Services Building.

Dormitories. Food Service and Resident Adviser positions are available in the dormitories. Dormitory residents are given first priority for food service positions. Interested persons should consult dormitory food supervisors upon arrival on campus.

The Resident Adviser positions, open to both men and women, provide room and board in exchange for dormitory counseling responsibilities. Appointments are generally made by the end of April for the following school year. Apply directly to the Office of the Assistant Director of Dormitories, Carson Hall.

Student Union. A variety of positions, including food service, are available in the Erb Memorial Union (student union). Inquiries should be sent to the Director, Erb Memorial Student Union.

Physical Plant. Students, both women and men, who seek custodial or grounds maintenance work should direct inquiries to the Physical Plant, University of Oregon.

Instruction and Research. Advanced students wanting to be considered for positions as assistants in instruction and research should apply to the head of their department. Reader positions are also handled by the departments, or by individual instructors.

Registration. Temporary jobs are available to assist at registration at the beginning of each term. Communicate with the Office of the Registrar.

Community

Apartment Managers. These positions are usually advertised in the daily newspaper under "Help Wanted: Couples."

Restaurants and Taverns. Many students find employment in restaurants and taverns near campus. Flexible schedules and the possibility of tips make these jobs rather attractive.

Oregon State Employment Office. This office provides information and referral for jobs in the Eugene-Springfield area; the office is located at 432 W. 11th, Eugene, Oregon.

Switch Board. This is a local community information and referral service located at 416 Jefferson, Eugene, Oregon.

Sales Clerks. Several part-time jobs are available in shops near campus (including the student cooperative bookstore), as well as throughout the Eugene-Springfield community.

Student Health Center

Director, Avard C. Long, M.D.

Assistant Director, Herbert C. Lemon, M.D.

Associate University Physicians: David J. Abel, M.D., Paul S. Bassford, M.D., Frank L. Baynes, M.D., Wilford A. Brooksby, M.D., Stanley A. Brown, M.D., Norman A. Gosch, M.D., Peter A. Hafner, M.D., William R. McCluskey, M.D., Pearl H. Pierson, M.D., David R. Studdenberg, M.D.

THE purposes of the Student Health Center are to assure students of the University of Oregon a healthy environment in which to live and work, to safeguard the general health of the students, and to teach them the value of preventive and curative medicine through health education and individual, informal, health counseling:

The student health services in the institutions in the Oregon State System of Higher Education are supported by a student health fee and such charges as are necessary. Only students registered for the current term are entitled to the services of the Student Health Center.

In general, medical services offered include: (1) general medical attention and treatment, including minor surgery (major surgery and other procedures requiring general anesthesia, intensive medical care, and specialists' services are referred); (2) fifteen-day infirmary care in the Student Health Center facility during one academic year if recommended by a Health Center physician; (3) twenty-four limited emergency service during regular school terms (major emergencies are referred to the general hospital located near the campus); (4) routine laboratory procedures, including X-ray and a licensed clinical laboratory; (5) a registered pharmacy; (6) psychiatric and counseling services by a psychiatrist; (7) limited physical therapy.

Visits to the Student Health Center are by appointment, except for emergencies. An appointment may be made by telephone or by a visit to the Student Health Center during clinic hours, 8:00 a.m. to 4:30 p.m. Appointments are not necessary for the Saturday morning clinic from 8:00 a.m. to 11:30 a.m.

Charges are made against the breakage deposit for prescriptions, X-ray, laboratory procedures, and services, such as immunizations and physical therapy, but every attempt is made to keep these as low as possible.

All expenses of, or connected with, surgical operations or specialized services must be borne by the student. This includes the services of a special nurse, where deemed necessary, and medical or surgical specialists who see patients in consultation in the Student Health Center or elsewhere. Under no circumstances will the Student Health Center pay or be responsible for bills from private physicians or private hospitals. It is recommended that all students who are not covered by sickness and accident insurance buy the Sickness and Accident Insurance Policy that is tailored to meet the specific needs of college students and may be purchased through the Associated Students of the University of Oregon. Student insurance does not entitle a person not registered for the current term to Student Health Center services but does apply to general medical care elsewhere as indicated in the policy. Parents are reminded that in family medical and hospital insurance policies, coverage may cease for their children when they reach the age of nineteen years.

The services of the Student Health Center are not available to members of the faculty.

Immunization Requirements. For protection of the public health, the Board of Higher Education requires of all students, as a condition for admission to the University: (1) an intradermal tuberculin test within six months of registration unless there is a history of a previous positive test, in which case a chest X-ray is required; and (2) proof, to the satisfaction of the University physician, of diphtheria-tetanus immunization within ten years, unless medically contraindicated. The immunization and tuberculin test requirements apply to students returning to the University after a period of absence. These students should consult the Student Health Center concerning possible deficiencies.

Students who decline immunization because of religious conviction may be admitted after completion of forms supplied by the Student Health Center. Students may choose to have a chest X-ray in lieu of the skin test, but must have an annual chest X-ray while enrolled at the University.

Student Housing

Dormitories. The University maintains five dormitories. Residents may select from a variety of living accommodations, including units reserved exclusively for freshmen, upperclassmen, and graduate students. Single and double rooms are available in all units.

Facilities

The following services are provided to dorm residents: (1) food service: 20 meals per week except during vacations (no meals are served Sunday evenings); (2) bed linens: sheets, pillow and case, mattress pad and cover, one blanket; (3) drapes, desk lamp, study chair, mirror, waste basket, water glass; (4) recreation: color television, table tennis, vending machines, basketball standards, tennis courts; (5) coin-operated washers, free dryers, ironing boards; (6) locked storage space for luggage; (7) telephones: floor phones for campus calls, pay phones, and private phones available for an additional charge.

Costs

Room and board rates are subject to change. At the present time, they are \$1,325 for a single room for the 1973-74 school year, and \$1,020 for a double room. Fall term rates are \$596 for single, \$459 for double; winter term rates are \$398 for single, \$306 for double; spring term rates are \$331 for single, \$255 for double. These charges are payable at the beginning of the term, or in two installments, the first at the beginning, the second at a fixed date during the term. A ten-day leeway period is allowed at the beginning of each term, after which a \$1.00 per day late penalty fee is charged. If fees are not paid within twenty days, registration may be cancelled.

Reservations

Reservations should be made as soon as possible before the opening of the school year, if possible with the application for admission; a reservation form is provided along with the form for application for admission. The dormitory application form must be accompanied with a \$50.00 deposit when it is returned. Priority for filling reservations is determined by the date application is received in the Housing Office. Inquiries may be addressed to the office in Carson Hall, University of Oregon, Eugene, Oregon 97403.

Contract

Dormitory residents are required to sign a contract—the terms and conditions of occupancy—which explains rights, privileges, and responsibilities of dormitory residency. These terms are based on consideration for other residents, health and safety standards, and compliance with established laws and the University Conduct Code. Failure to comply with the terms and conditions of occupancy may lead to eviction.

Rooms are available only to those who agree to room and board in a dorm throughout the entire school year (except Summer Session, see below). However, while remaining in the University, a student may be released from contract by providing a satisfactory replacement or by the payment of \$1.00 a day for the remaining days in the school year, along with the forfeiture of the \$50.00 deposit.

Refunds

Deposit Refund

If dormitory reservations are cancelled in writing by August 1 for fall term or 14 calendar days before the term begins for winter and spring, \$40.00 of the \$50.00 room deposit will be refunded (\$10.00 will be retained as a processing fee). The entire room deposit will be forfeited if notice of cancellation is received after this time. If a student withdraws from the University during the year,

the \$50.00 deposit will be returned within six weeks after any charges or damages have been deducted. If there are no charges against the student's account, the \$50.00 may be applied to the next year's reservations. The \$50.00 deposit will be refunded if admission to the University is not granted.

Room and Board Refund

Charges for room and board are made on a full term basis. If persons withdraw from the dormitory and the University before the tenth week of the term, room and board charges will be prorated, and any unearned room and board payments will be refunded. Board charges during an absence from Eugene of ten or more consecutive full days are refunded at the rate of \$2.00 per day. No board refund is made to students hospitalized in the Student Health Center.

Vacations

There is no food service during vacation breaks. Students may remain in their rooms during Thanksgiving at no charge. Students who remain during Christmas and spring breaks are moved together and charged an additional fee (\$20.00 and \$10.00 respectively).

Summer Session

Summer Session students may select a seven or five-day board; the five day week includes Monday breakfast through Friday lunch with the option to purchase weekend meals on a per-meal basis. A contract is required. Students leaving the University during their designated length of stay will be released from contract.

Dormitory facilities are available to married couples at the regular double-room and board rate for each person; both husband and wife must submit individual applications in advance.

In addition, housing and food services are available to workshop and conference groups.

Kitchen Jobs

Kitchen jobs for students are available in the dormitories, with dorm residents given first priority. Minimum hourly wage is \$1.70. Applications may be made to the dormitory food-service supervisor.

Sorority and Fraternity Rushees

Students hoping to join a fraternal living group may arrange for temporary quarters in the dormitories until their final plans are known.

Student Family Housing. University-owned apartment housing is available to married students with or without children and single students with children. Two hundred forty-seven two bedroom units are located at Amazon, a complex of renovated WWII surplus buildings within walking distance to campus. Rent is \$42.50 per month (subject to change) and includes water, garbage and TV cable. Tenants must provide their own stove and refrigerator. (The University provides these appliances for rent at \$2.50 per month.)

A newer complex, Westmoreland, rents 408 one and two bedroom apartments for \$81.00 and \$91.00 per month respectively. Furnished are water, garbage, TV cable, and household furniture (including stove and refrigerator). Westmoreland is located three miles from campus.

Both housing projects have a recreational area for children and a coin-operated laundry. No pets are allowed.

Applicants are required to submit a confidential financial statement. Those applicants with net income low enough to qualify for financial aid will have priority above other applicants. Assignments are made on a priority basis with graduate assistants having first priority, then graduate students, and finally, undergraduates in descending order of class standing. Any remaining available housing will be assigned on the basis of academic class priority and the date of application.

The estimated maximum net incomes allowable for housing assignments for 1973-74 are the same as those used for student loan eligibility and are as follows, based on a twelve-month period: (1) husband and wife, no children, \$5,050; (2) husband and wife, one child, \$6,000; (3) husband and wife, two children, \$6,450; (4) husband and wife, three children, \$7,150.

To be eligible for married-student housing, students must be enrolled for a minimum of course work as follows: graduate fellows holding half-time appointments, 6 credit hours; graduate fellows holding one-third-time appointments, 9 credit hours; other graduate students, 9 credit hours; undergraduates, 12 credit hours. Graduate students holding appointments for more than half-time are not eligible.

Occupancy is restricted to members of one family only. Maximum tenant occupancy is restricted to the following: one-bedroom apartments—two adults and one child under the age of one year; two-bedroom apartments—two adults and two children over the age of one year and one child under the age of one year.

During the Summer Session, dormitory facilities are available for married couples without children at the regular double-room and board rate for each person. Both husband and wife must submit individual applications. Inquiries about Student-Family Housing should be made to the Housing Office, Carson Hall.

Miscellaneous Housing. In anticipation of further building expansion, the University has purchased land and houses on the east side of campus. One hundred seven of these miscellaneous, unfurnished houses are rented on a walk-in basis through the Housing Office. Monthly rent varies from \$70-\$150, exclusive of utilities. A \$20.00 cleaning deposit is required. These houses are rented on a monthly basis (no contract) and are available to anyone. Inquire at the Housing Office, Carson Hall.

Co-operatives

University of Oregon co-ops are student-owned-and-operated living organizations which charge about \$200 less per year than dormitories. The lower cost is possible because members share in the work and upkeep of the houses. Professional cooks prepare family-style meals.

Four co-ops are available: Parr Tower (1648 Alder Street, Eugene) and University House (791 East 15th Avenue, Eugene), the two women's organizations; Philadelphia House (1883 University Street, Eugene), a Christian men's living unit; and Campbell Club (1670 Alder Street, Eugene), a co-ed venture. Membership ranges from thirty to forty members per unit. All of the houses are within one block of the campus.

Off-campus Housing. There is an inadequate supply of acceptable low-cost housing in Eugene. Finding an inexpensive dwelling may be a time-consuming problem, especially if one has pets, is looking for something near campus, or wants to live alone.

Apartments

Most students live in one- or two-bedroom apartments within a mile of campus. In that area, rents are generally ten to twenty per cent higher than the rest of Eugene-Springfield and range from \$90.00 to \$145.00 for furnished one-bedroom apartments. Some studios and quad apartments are available for \$75.00 to \$95.00. A quad is a single sleeping room with kitchen and bath facilities shared with three other units. Two-bedroom apartments cost from \$130 to \$180. Unfurnished units are about \$10.00 to \$15.00 less. Most buildings have coin-operated laundry machines.

Houses

Single-family houses are the most popular housing option. Because they are so popular, demand far exceeds available supply. Many fine homes are being demolished to make way for apartment complexes. Finding a house may take a long time; one must check the newspapers, bulletin boards, and referral services. Many houses are passed on between friends and never advertised. Many are rented from a window or lawn sign, and never appear in the papers or referral lists. Generally, houses are a bit cheaper than apartments.

Rooms and Roommates

A few rooms are available in private homes. There are a few boarding houses in Eugene. Some students rent large apartments or houses, then rent rooms or look for roommates. For most students the only way to raise enough rent money is to share an apartment or house with one or two others.

Finding a Place

Off-Campus Housing (Room 319, Erb Memorial Union, University of Oregon) maintains a free referral for all types of rental housing. They have information about houses, apartments, studios, rooms, and quads. There are also lists of people looking for roommates. This is all kept on bulletin boards in the hall outside the office. In addition to the referral service, they have maps of Eugene, model rental agreements, inventory-and-condition reports, information about landlord-tenant law, and a courtesy phone—all free of charge. The *Oregon Daily Emerald*, the *Springfield News*, and the *Eugene Register-Guard* carry classified advertisements of rentals. The latter is available in many county libraries; a look at the newspaper before arriving in Eugene may provide a better idea of costs and where to look. The best rentals appearing in the papers are usually taken within a few hours; experienced students get the papers as they come off the press.

Many bulletin boards scattered around campus and in stores near the University have information about available housing in addition to several boards in the Student Union. Many real estate firms rent apartments and houses in the Eugene area. Also, two commercial rent-referral services operate in Eugene. Confer with Off-Campus Housing for more information.

Temporary Housing

Temporary housing is available at the EUGENE YOUTH HOSTEL (416 Jefferson; 686-8453) for a dollar a night. The Hostel is open only part of the day; one must check-in between 6:00 p.m. and midnight, and leave before 9:00 in the morning. Facilities are available for bathing, but not for cooking. Off-Campus Housing may also have information on temporary quarters.

Rental Tips

Written Leases. Most landlords require tenants to sign some sort of agreement. Read it carefully. Ask for an explanation of any provisions not understood, and request modification of those that appear unreasonable. Most rental agreements are designed to protect the landlord, not the tenant. In the absence of a written agreement, the landlord can evict a tenant for nonpayment when the rent is ten days late. When it's twenty days late, he can lock the unit and hold most of the belongings. He can evict a tenant for any reason at all with thirty days written notice. Copies of a model rental agreement are available from Off-Campus Housing.

Deposits. Most landlords require a deposit (damage, cleaning, or security) to cover any damage the tenant may cause beyond normal wear and tear. Problems may arise when the tenant moves out, and asks for a deposit refund regardless of the condition of the dwelling; there may also be honest disagreements about the condition of the dwelling, or what each party had promised to do. It is important to read the lease or rental agreement carefully. Be sure to understand what the deposit is for and under what conditions it will be returned. Write down any promises which the landlord makes orally, and have him sign the list.

To help assure that the deposit will be returned properly:

- (1) Complete an Inventory-and-Condition Report upon moving in. These are available from the Off-Campus Housing Office. Make two copies; give one to the landlord after he signs it, and keep one.
- (2) Keep a receipt or cancelled check to verify payment of deposit and the exact amount.
- (3) Clean thoroughly before leaving, and then ask the landlord to inspect the unit. During the inspection, complete another inventory form.
- (4) With the landlord, agree upon the amount of the deposit to be refunded, and the date to receive it.

Consult the Off-Campus Housing Office for further advice on deposits, or if problems arise.

Fraternities and Sororities

Fraternities and sororities at the University of Oregon offer students small group-living accommodations and the opportunity for involvement in a wide variety of campus and community activities. Membership is by invitation and all students in good academic standing (2.00 grade average or above) are eligible to belong. A pre-school "Rush" period is scheduled before fall registration to allow students the opportunity to live in a chapter house their first year at Oregon. During "Rush," students stay in dormitories and spend several days getting acquainted with each other and meeting members of the various fraternities and sororities.

Yearly costs for sorority members average \$1,110 for the first year, including room, board, and social fees. Second year expenses average \$990.00. Dormitory residents belonging to sororities pay an average bill of \$15.00 per month for weekly meals at the chapter house and social events. Fraternity house bills average \$980.00 per year.

It is not necessary to reserve a room in a dormitory for the academic year until after one has made a decision on pledging. Rooms are guaranteed to students not pledging, or who choose not to live in a chapter house, but selection is more limited at this time.

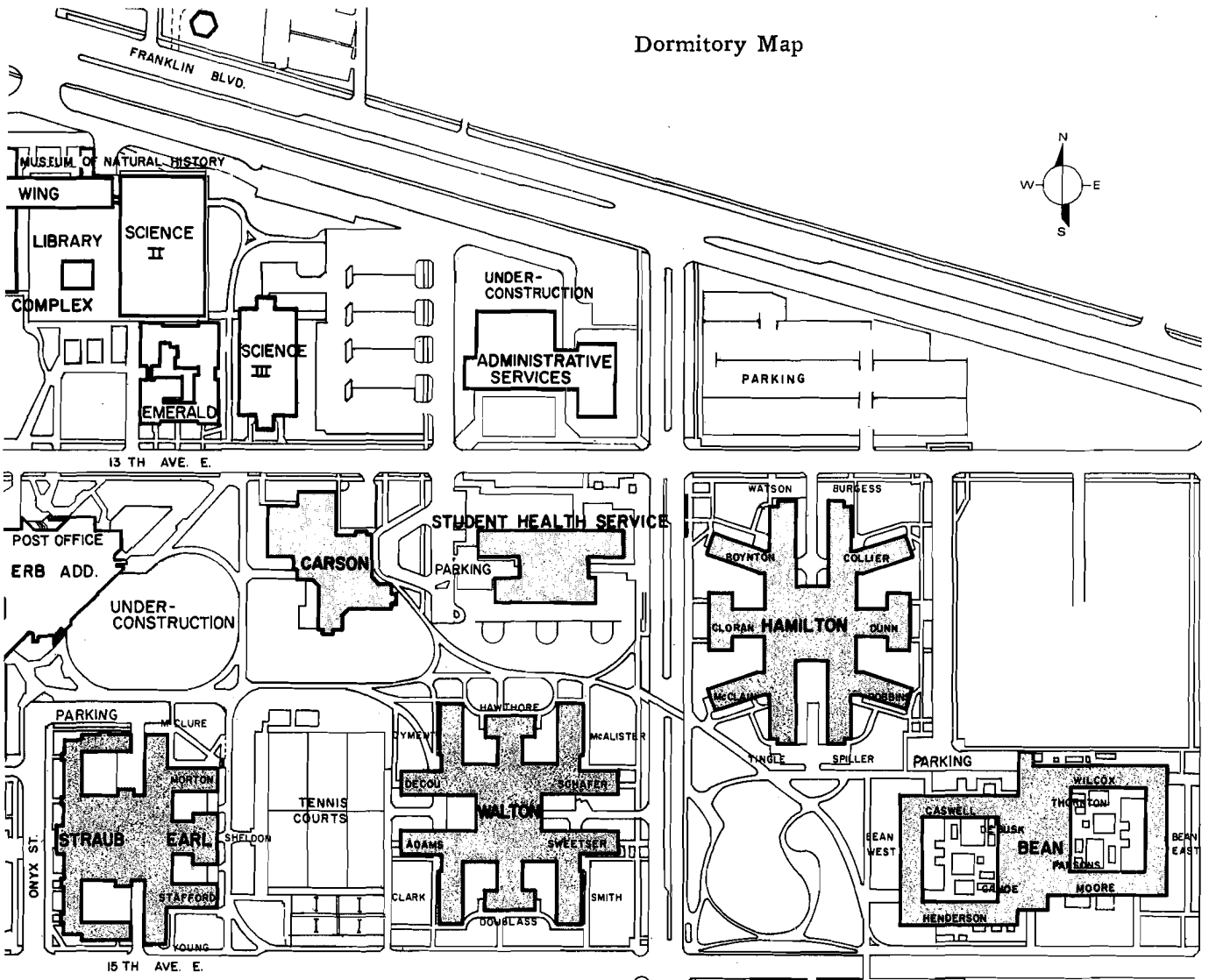
Students interested in more information about fraterni-

ties and sororities at Oregon should consult either Interfraternity Council (for men) or Panhellenic (for women), Emerald Hall, University of Oregon.

Sororities at Oregon include: Alpha Chi Omega, Alpha Delta Pi, Alpha Omicron Pi, Alpha Phi, Chi Omega, Delta Delta Delta, Delta Gamma, Gamma Phi Beta, Kappa Alpha Theta, Kappa Kappa Gamma, Pi Beta Phi, and Sigma Kappa.

Fraternities include: Alpha Tau Omega, Beta Theta Pi, Chi Psi, Delta Tau Delta, Kappa Sigma, Sigma Chi, Sigma Nu, Sigma Phi Epsilon, Sigma Alpha Epsilon, and Theta Chi.

Dormitory Map



Museums and Libraries

Museum of Art

Director, Richard C. Paulin, M.A.
 Chief Preparator, Marke Clarke, M.F.A.
 Supervisor of Statewide Services, Antonio Diez, B.Arch.

THE University of Oregon Museum of Art was built in 1930 to promote among the students, faculty, and general public, an active and continuing interest in the visual arts, both past and present. The museum building was financed through the generosity of friends throughout the state. The adjoining garden court was dedicated to the memory of Prince Lucien Campbell, fourth president of the University.

The Murray Warner Collection of Oriental Art includes over 3,200 objects, mostly representing the cultures of China and Japan. The collection also includes works from Cambodia, Korea, Mongolia, and Russia, and American and British works which show Oriental influence. The Warner Collection was bequeathed in 1921 to the University by Gertrude Warner as a memorial to her husband, Major Murray Warner. Mrs. Warner served as director of the museum until her death in 1951. Major acquisitions, both by gift and purchase, continue to be added to the collections of Oriental art. Outstanding among these acquisitions are Ghandaran and Indian sculpture, Chinese funerary jade, Persian miniatures, and Syrian glass.

The museum has been collecting contemporary American, European, and greater Pacific Basin art work, with emphasis on artists and craftsmen from the Northwest. Over 900 objects are in this growing collection with a new rotating gallery devoted exclusively to it. Two unique collections, newly acquired by gift, are over 500 works, both archival and major, by Northwest painter Morris Graves, and over 137 photographic architectural documentations of buildings throughout the nation designed by Pietro Belluschi. Three new galleries are devoted to the sculpture of India, arts and crafts of Korea, and the work of Graves.

The museum serves as an educational laboratory and study resource for students and faculty in all academic disciplines, but particularly those in the School of Architecture and Allied Arts. Art History and Art Education seminars are regularly scheduled to meet in the museum, and faculty and students in other classes visit frequently. A study carel is maintained for students wanting to work with items not on display in galleries; there is also a small study gallery for exhibition of particular works requested by students and faculty. A one-year museum-training seminar and practicum is offered through the Department of Art History.

An extensive exhibitions program is maintained. Exhibitions are local, national, and international in scope, and come both from the museum's collections and from traveling exhibits. There is an annual exhibit of the terminal projects of graduates from the Department of Fine Arts.

The Friends of the Museum association was organized in 1957 to maintain a statewide membership to support museum activities, which include the Statewide Services program, docent training program, acquisitions, lectures and publications, Rental-Sales Gallery, and the Museum Shop. Membership is open to the public; dues range from \$3.00 for students to \$250 and higher for benefactors.

Attendance at the museum has grown from 8,200 visitors in 1953, when the museum first opened to the general public on a regular basis, to over 60,000 in 1972. The museum is closed to visitors on Mondays, and from mid-August to late September; admission is without charge.

Museum of Natural History

Acting Director, David Cole, M.S.
 Curator; Paleobotany, Jane Gray, Ph.D.
 Curator, Geology, Laurence R. Kittelman, Ph.D.
 Curator, Herbarium, Georgia Mason, M.S.

THE Museum of Natural History is primarily a research department devoted to studies of the history of the earth, plants, animals, and man as found in Oregon. The knowledge gained in these studies is made available to the public through displays, publication, a public-school loan program, a museum information service, and loans to other institutions. As a repository, the Museum of Natural History maintains large collections of fossils, plants, animals, rocks, and the objects used by aboriginal man.

In addition to storage and display areas, the Museum of Natural History has a preparation laboratory and shop, an archaeology laboratory, paleoecology laboratories including facilities for the study of sedimentation and pollen, and drafting, illustration, and darkroom areas, for staff and graduate-student research.

Libraries

University Librarian, H. William Axford, Ph.D.
 University Librarian Emeritus, Carl W. Hintz, Ph.D.
 Assistant University Librarian, Donald T. Smith, M.A., M.S.
 Lois I. Baker, M.A., Law Librarian Emeritus.
 Eugene B. Barnes, Ph.D., Head Acquisition Librarian.
 J. Gail Burkart, M.L.S., Architecture and Allied Arts Librarian.
 Ella S. Carrick, B.A., Senior Catalog Librarian Emeritus.
 Ronald L. Cherry, M.L.L., Law Librarian.
 Diane J. Chez, M.L.S., Catalog Librarian.
 Rodney E. Christensen, M.S., Social Science Librarian.
 Jane B. Durnell, M.L.S., Reference Librarian.
 Katherine G. Eaton, M.S., Social Science Librarian.
 Robert W. Getty, B.S., Audiovisual Librarian.
 Joanne V. Halgren, M.L., Science Librarian.
 Alfred Heilpern, M.L., Acquisition Librarian Emeritus.
 J. Richard Heinzkill, M.L.S., Humanities Librarian.
 Jane Yen-Cheng Hsu, B.A., Senior Catalog Librarian.
 Margaret E. Hughes, B.S., Medical School Librarian.
 Dwight H. Humphrey, M.A., Catalog Librarian Emeritus.
 Donald L. Hunter, B.S., Head, Audiovisual Media Center.
 Carol Jenkins, M.L.S., Dental School Librarian.
 Holway R. Jones, M.A., Head Social Science Librarian.
 Edward C. Kemp, M.L.S., Acquisition Librarian.
 Elaine A. Kemp, M.L.S., Catalog Librarian.
 Lorna L. Kent, M.L.S., Reference Librarian.
 Clarice E. Krieg, A.M., Head Catalog Librarian.
 William C. Leonard, M.S., Head, Graphic Arts Service.
 Robert R. Lockard, M.A., Social Science Librarian.
 Robin B. Lodewick, M.L.S., Catalog Librarian.
 Richard J. Long, M.S., Reference Librarian.
 Nola McClellan, M.A., Assistant Documents Librarian.
 Robert R. McCollough, M.A., M.S., Head Humanities Librarian.
 Reyburn R. McCready, M.A., Head Reference Librarian.
 Corinne C. McNeir, M.S. in L.S., Documents Librarian.
 Deirdre D. Malarkey, M.L.S., Reference Librarian.
 Margaret Markley, A.B., B.S. in L.S., Senior Catalog Librarian.
 Claire Meyer, M.A., Head Circulation Librarian.
 Frances S. Newsom, M.A., Architecture and Allied Arts Librarian Emeritus.
 Kay Ollerenshaw, M.L.S., Acting Assistant Law Librarian.
 Guido A. Palandri, B.A., B.L.S., Assistant Head Catalog Librarian.
 Grethe J. Parr, Cert., Oslo, Catalog Librarian.
 HuiBERT Paul, M.L.S., Acquisition Librarian.
 K. Keith Richard, M.S., M.L.S., University Archivist.
 J. Carlyle Ross, M.A., Assistant Head, Audiovisual Media Center.
 Martin Schmitt, B.S., B.S. in L.S., Curator of Special Collections.
 Lois M. Schreiner, M.L.S., Reference and Social Science Librarian.
 Rose Marie Service, M.A., Social Science Librarian.
 Marcia J. Sigler, M.L.S., Senior Catalog Librarian.
 Walter W. Slocum, M.L.S., Acquisition Librarian.
 Edmund F. Soule, Ph.D., Music Librarian.
 Edward P. Thatcher, M.A., Map Librarian.

Helena von Pfeil, M.L.S., Acting Assistant Law Librarian.
 Luise E. Walker, A.M.L.S., M.S., Head Science Librarian.
 Kathleen M. Wiederholt, M.A.L.S., Social Science Librarian.

THE services of the University of Oregon Library are organized in broad subject divisions: Social Science, Science, Humanities, and General Reference. Each of the divisions has its own reading areas, conveniently integrated with its book collections. All University students have free access to the book stacks.

The services of the subject divisions are supplemented by the Audiovisual Media Center, which provides facilities for the production, preservation, and use of recordings, slides, films, and similar materials, and by the Special Collections Division, which is responsible for the development and care of collections of Pacific Northwest historical materials, rare books, manuscripts, and University archives.

The University Library was founded in 1882 through a gift of books, worth \$1,000, selected and purchased by Henry Villard of New York City. Before 1882, the only library available to students was a collection of about 1,000 volumes owned by the Laurean and Eutaxian student literary societies; this collection was made a part of the University Library in 1900. In 1881, Mr. Villard gave the University \$50,000 as a permanent endowment; a provision of the gift was that at least \$400 of the income should be used for the purchase of nontechnical books for the Library.

In addition to the general Library collections, the University has a number of specialized libraries with permanent collections. The holdings of the several libraries as of December 31, 1972, are as follows:

General Library, 1,082,982 volumes
 Law Library, 78,471 volumes
 Total number on the Eugene campus, 1,161,453 volumes
 Medical School Library, 133,042 volumes
 Dental School Library, 14,792 volumes
 Total Library holdings, 1,309,287 volumes

Other materials in the University Library include: 148,866 government documents; 120,380 maps; 29,854 microfilms; 386,192 other microforms; 283,642 photos, pictures, and prints; 16,453 sound recordings; 114,398 slides; 765 filmstrips; 775 motion picture films; 125,342 uncataloged pamphlets; and 1,312,336 manuscripts.

The Library's facilities for undergraduate work are excellent, and strong collections for advanced study and research are being built in the various fields of liberal and professional scholarship. All of the books in the libraries of the institutions of the Oregon State System of Higher Education are available to the students and faculty of the University.

Some of the Library's resources of particular value for advanced study are: a collection of source materials on English life and letters in the seventeenth century; a collection of books, reports, and periodicals on English opinion and politics of the nineteenth century, including con-

siderable materials on English liberalism in its relation to public education; materials on the history of American education in the nineteenth century; unusually extensive and complete files of psychological periodicals; and extensive collections of manuscripts, photographs, maps, pamphlets, books, and newspapers. The noncurrent records of the University of Oregon are deposited with the Library as University archives.

The Burgess Collection of manuscripts, incunabula, and rare books is the gift of Miss Julia Burgess, late professor of English at the University, and of friends of the institution.

The Ernest Haycox Memorial Library, housed in a special room in the Library, consists of books and other materials accumulated by the late Mr. Ernest Haycox, '23, for background and reference use during his twenty-five-year career as a writer.

The Douglass Room, established through a bequest from the late Matthew Hale Douglass, former librarian of the University, contains record and tape collections of music, poetry, plays, and speeches. The room has 72 individual listening positions, a group listening room for 70 persons, and six booths.

The Pauline Potter Homer Collection of fine editions, illustrated books, books with fine bindings, and examples of the work of private presses, honors a former member of the University Library staff.

The Hallett E. Cole Collection of books, pamphlets and memorabilia relating to the history of lighter-than-air craft.

The Gertrude Bass Warner Memorial Library of books on the history, literature, life, and particularly the art of Oriental countries, is the gift of Mrs. Warner.

The Adelaide Church Memorial Room, a browsing room for recreational reading in the Erb Memorial Union, is operated as a department of the University Library.

The Bureau of Governmental Research and Service Library, housed in Hendricks Hall, contains books, pamphlets, and other materials dealing with problems of local government.

The Law Library, housed in the Law Center, contains complete case reports of the National Reporter System, complete state reports from Colonial times to the establishment of the Reporter System, a substantial collection of English and Canadian case law, compilations of state and federal statute law, standard legal digests and encyclopedias, etc. Its periodical collection includes more than 450 titles. An excellent collection of publications relating to Oregon territorial and state laws includes an extensive file of Oregon Supreme Court briefs.

The School of Architecture and Allied Arts has a reference collection in Lawrence Hall. The collection includes the architecture library of the late Ion Lewis, Portland architect, given in 1929 by Mr. Lewis, and the Library of William Whidden, given by his heirs.

Service. During the regular sessions, the General Library is open on Mondays, Tuesdays, Wednesdays, Thursdays and Fridays from 8:00 a.m. to 10:00 p.m.; on Saturdays

from 9:00 a.m. to 5:00 p.m.; and on Sundays from 2:00 to 10:00 p.m. The Reserve Book Room is open on Mondays, Tuesdays, Wednesdays, and Thursdays from 8:00 a.m. to 12:00 midnight; on Fridays from 8:00 a.m. to 10:00 p.m.; on Saturdays from 8:00 a.m. to 5:00 p.m.; on Sundays from 10:00 a.m. to 10:00 p.m. In addition, the Reserve Book Room is open until 1:00 a.m. on the two Fridays and Saturdays preceding final examinations. The General Library is open until 10:00 p.m. on the two Saturdays preceding final examinations week. During vacation periods the Library is open from 8:00 a.m. to 5:00 p.m., Monday through Friday. Books other than reference books and those especially reserved for use in the Library may be borrowed for a period of two weeks, with the privilege of renewal if there is no other demand. Library privileges are extended to all students and staff members of the Oregon State System of Higher Education (OSSHE), and may be granted to other persons upon application.

Library Fines and Charges. The following regulations govern Library fines and charges in all Oregon State System of Higher Education libraries except the Medical School and the Dental School libraries:

(1) A fine of 25 cents per day is charged for each overdue book, recording, or other Library material other than reserve books and material circulated by special permission (maximum, \$10.00 each item).

(2) The following fines are charged for violation of rules governing reserve books and material circulated by special permission: (a) for overdue books, 25 cents an hour or fraction thereof (maximum, \$10.00 each item), until the material is returned or reported lost (a maximum charge of \$1.00 an hour may be made in case of flagrant violation of the rules); (b) for failure to return books to proper department desk, 25 cents.

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

(4) Borrowers losing Library materials are charged: (a) the replacement cost of the material, (b) the amount of fine incurred up to the time the material is reported missing (maximum, \$10.00 each item), and (c) a service charge of \$3.00 for each title. A charge to be determined by the librarian will be made for the repair or replacement of mutilated library materials.

(5) When a lost book, for which the borrower has been billed, is returned before a replacement has been ordered, a refund not exceeding the replacement cost may be made. In cases where a replacement has been ordered, any refunds to the borrower are at the discretion of the librarian.

(6) The State System libraries will honor each other's faculty and student identification cards for the purpose of borrowing library materials subject to the lending library's circulation policies. Any fines or charges accrued by faculty and students from other State System libraries will be submitted to the head librarian of their home institution for routine billing in accordance with the procedure of the home institution.

Instruction. The University, through the School of Librarianship, offers a service course, Use of the Library (Lib 127), to acquaint students with library resources and their use.

Admission to the University

Undergraduate Admissions

EVERY undergraduate person wanting to earn credit in the regular sessions of the University must send to the Office of Admissions: (1) an application on an official University form, obtainable through the Office of Admissions or in the office of the Principal in high schools of Oregon; (2) a \$10.00 application fee (this fee is not refundable); (3) official transcripts of all high-school or college records or both. (College transfers needs not file a separate high-school transcript if information relevant to it is adequately recorded on the college record.)

Freshmen applicants (including college transfers with less than twelve hours of advanced standing) must file the results of either the *Scholastic Aptitude Test*, or the *American College Testing* assessment. The test results are used for advising and for course-placement recommendations, an integral part of the admissions process.

Applications and supporting materials should be filed well before the applicant intends to enter the University; late filing may delay or prevent registration. Undergraduate students (except foreign students) seeking admission must submit their applications to the Office of Admissions no later than thirty days prior to the start of the term to which admission is sought. Students (except foreign students) planning to enter the University in the fall term should submit their applications no later than August 15.

An undergraduate applicant who is not a citizen of the United States and who does not possess an immigrant visa, must file an application and the available supporting credentials by May 1 if seeking admission to the summer session or the fall term. Application deadline for winter term is October 15; for spring term, January 15.

If a student fails to submit the required documents in complete and satisfactory form, admission and registration may be cancelled. All records submitted, filed, and accumulated in the Office of Admissions and the Office of the Registrar become the property of the University.

Admission to Freshman Standing

To be admitted to freshman standing in the College of Liberal Arts, a student must be a graduate of a standard or accredited high school and, in addition, must meet certain qualitative educational standards. The qualitative requirements for residents of Oregon differ from those of nonresident students.

Resident Students. To be eligible for admission with freshman standing in the fall term, a student who is a resident of Oregon must: (1) have a 2.25 grade-point

average in all high-school subjects taken for graduation; or (2) attain a satisfactory score (890) on the *College Entrance Examination Board Scholastic Aptitude Test*, or a composite score of 20 on the *American College Testing* assessment; or (3) achieve a grade-point average of 2.00 on either 9 credit hours of a structured program or 12 credit hours of elective course-work in a regular accredited collegiate summer session. The structured 9 credit hours must include a course in English Composition, and the remaining hours must be chosen in the fields of Humanities, Social Science, or Science.

To be eligible for admission on the basis of high-school grades in the winter or spring terms, a resident student must have a high-school grade-point average of 2.00 or a satisfactory score (880) on the *Scholastic Aptitude Test* or a composite score of 20 on the *American College Testing* assessment.

Nonresident Students. To be eligible for admission with freshman standing, a student who is not a resident of Oregon must: (1) have a 2.75 grade-point average in all high-school subjects taken for graduation; or (2) have a 2.25 high school grade-point average combined with satisfactory scores on either the *Scholastic Aptitude Test* or the *American College Testing* assessment or (3) achieve a grade-point average of 2.25 on either the 9 or 12 credit hour summer session options defined above for Oregon residents.

Early Admission. A high-school student who meets the above criteria for either resident or nonresident applicants by the end of the first half of the senior year will be granted admission with subsequent enrollment contingent only upon completion of high-school graduation requirements.

Admission of Undergraduate Transfers

Transfer students are persons admitted to the University of Oregon after having been registered in other universities, colleges, and community colleges, or in a department or center of extension work, including the Division of Continuing Education of the Oregon State System of Higher Education. Transfer students must present evidence that they were in good standing when leaving the college or university previously attended. They must meet certain qualitative standards of scholastic attainment. The qualitative requirements for residents of Oregon differ from the requirements of nonresidents. (1) To be eligible for admission as a resident transfer student, an applicant must present a grade-point average of 2.00 covering all previous transferable college work attempted.

(2) A nonresident transfer student must have achieved a grade-point average of 2.25 on all previous transferable college work attempted.

The amount of transferred credit granted depends upon the nature and quality of the applicant's previous work evaluated according to the academic requirements of the University. Records from institutions fully accredited by appropriate regional accrediting associations are evaluated before admission is granted. Credit transferred from an accredited community college or junior college may be counted only as a part of the first 108 credit hours earned toward the bachelor degree. Usually, no advanced standing is granted at entrance for work done in nonaccredited collegiate institutions. This policy, however, is tempered by recommendations contained in the *Report of Credit Given by Educational Institutions*, published by the American Association of Collegiate Registrars and Admissions Officers. Validating examinations may be required.

Admission to Professional Schools and Colleges

The same admission standards as were previously cited for the College of Liberal Arts apply to both pre-major and major status in the School of Architecture and Allied Arts, the College of Education, and the College of Health, Physical Education, and Recreation. These same standards also apply for admission to pre-major status in the College of Business Administration, the School of Community Service and Public Affairs, the School of Journalism, and the School of Music. In order to gain admission as a major to one of this latter group, however, certain other criteria are also considered.

The College of Business Administration requires satisfactory completion of several lower-division courses: Fundamentals of Speech, Elements of Calculus, English Composition, Introduction to Numerical Computation, Financial Accounting, Introduction to Law, Introduction to Business Statistics, and Introduction to Economics.

To be admitted as a major in Community Service and Public Affairs, requires, in addition to the general standards, that the applicant be a college junior (90 credit hours of advanced standing) and have completed a minimum of 36 credit hours in social science, approximately two-thirds of which should be in the behavioral social sciences such as psychology and sociology.

Acceptance to the School of Journalism requires that the student be a college junior (90 credit hours of advanced standing) and must have substantially satisfied the lower-division requirements of the University and achieved a grade-point average of 2.50, or higher, on all college work attempted, with no more than 13 quarter hours of failed (no-pass) work. Furthermore, on each of the last two terms prior to evaluation for acceptance, the applicant to the Journalism major must have satisfactorily completed Journalistic Writing; as a rule, all applicants in Journalism will have to be accepted to the University initially as pre-journalism students.

To make the transition from pre-music status to Music major, the student must have completed two terms of ensemble work, Musicianship I and Studio performance study, at the University of Oregon and be continuing these same courses. The transition process also requires the applicant to present a written statement of long-range career plans in Music, and to have one or more members of the University of Oregon Music faculty recommend status as a Music major.

Students planning to enter the University of Oregon School of Nursing need to qualify for the Pre-Nursing program on the Eugene campus by meeting the general requirements for admission to the College of Liberal Arts. Selection to the School of Nursing in Portland will be determined from applications directed later to that school.

Admission to the University of Oregon School of Law, and School of Librarianship is predicated upon the receipt of an undergraduate degree. Information about admission to those graduate programs may be obtained by writing directly to the deans of the schools.

For further details on admission, direct inquiries to the Director of Admissions, University of Oregon, Eugene, Oregon 97403.

Placement Examinations

Either SAT or ACT results must be filed by freshman applicants, including transfers with less than 12 units of advanced standing, before the application can be reviewed. In addition, an individual who has studied one foreign language for two or more years in high school must take the College Board Achievement Test in that language for potential placement usage, if the language is to be studied in college, or for possible waiver of the language requirement for a degree when this is appropriate. Special campus administrations of placement tests can sometimes be arranged for those who seek admission too late to be served by one of the nationally scheduled testing dates.

Degrees Offered by the University

When requirements for degrees are changed, special arrangements may be made for students who have taken work under the old requirements. In general, however, a student will be expected to meet the requirements in force at the time the degree is expected. The University grants the following degrees:

Honors College: B.A. (Honors College).
 Liberal Arts: B.A., B.S., M.A., M.S., M.F.A., Ph.D., D.A. (English).
 Architecture and Allied Arts: B.A., B.S., B.Arch., B.I.-Arch., B.L.A., B.F.A., M.A., M.S., M.Arch., M.F.A., M.L.A., M.U.P., Ph.D. (Art History).
 Business Administration: B.A., B.S., B.B.A., M.A., M.S., M.B.A., Ph.D.
 Community Service and Public Affairs: B.A., B.S., M.A., M.S.
 Dentistry: M.S., D.M.D., B.S. (Dental Hygiene).

Education : B.A., B.S., B.Ed., M.A., M.S., M.Ed., D.Ed., Ph.D.

Health, Physical Education, and Recreation : B.A., B.S., B.P.E., M.A., M.S., D.Ed., Ph.D.

Journalism : B.A., B.S., M.A., M.S.

Law : B.A., B.S., J.D.

Librarianship : M.L.S.

Medicine : M.S., Ph.D., M.D., B.A., B.S. (Medical Technology).

Music : B.A., B.S., B.Mus., M.A., M.Mus., D.M.A.

Nursing : B.A., B.S., M.N., M.S.

The M.A. and M.S. degrees are also granted upon the completion of programs of interdisciplinary studies.

Requirements for the Bachelor Degree

Requirements for a bachelor degree are as follows :

(1) Written English: English Composition (Wr 121, 323), 6 credit hours. (With the consent of the head of the Department of English, all or part of this requirement may be waived for students who demonstrate superior ability in writing.)

(2) Physical Education: 5 terms in activity courses (normally MPE 121-199, WPE 121-199, and CPE 121-199, taken before the end of the sophomore year) unless excused. (One or more terms of this requirement may be waived on the basis of proficiency examinations. Students who have completed six months of active military service in the Armed Forces of the United States are exempt from 3 terms of the physical education requirement; to qualify for exemption, such students must file official documentary evidence of their service.) Waiver of the requirement on the basis of either health or age or both will be considered, upon request, by the College of Health, Physical Education, and Recreation.

(3) Health Education: 1 term personal health (normally HE 150, 250, 450). (This requirement may be waived on the basis of a proficiency examination.)

(4) Credit in upper-division courses: minimum, 62 credit hours.

(5) Credit in the major: (a) Minimum: 36 credit hours, including at least 24 hours in upper-division courses. (b) Any additional requirements of the major school or department (satisfaction must be certified by the dean or department head).

(6) Credit in residence: minimum, 45 credit hours of the last 60 presented for the degree. Only University of Oregon work completed on the Eugene campus of the University or at the Medical School or the Dental School in Portland may be counted for the satisfaction of this requirement. Work in Continuing Education courses is not work in residence. (For students officially enrolled in the School of Nursing, residence with respect to a degree in nursing may include any work taken in any branch of the State System of Higher Education, including the Division of Continuing Education, provided that (i) the work is required in degree programs in the School of Nursing

and (ii) is not concurrently offered by the School of Nursing.)

(7) For the B.A. degree, language and literature courses: 36 credit hours, including attainment of proficiency in a foreign language equivalent to that attained at the end of two years of college study of the language.

The language and literature instructional fields of the College of Liberal Arts are classified as follows: General Arts and Letters, Classics, Chinese and Japanese, English, German and Russian, Romance Languages, Speech.

The language requirement for the B.A. degree may be met in any one of the following ways: (1) two years (normally 24 credit hours) of college work in a foreign language; (2) one year of college work at the second-year or higher level; or (3) examination, administered by the appropriate department, showing language competence equivalent to that attained at the end of two years of college study.

(8) For the B.S. degree, science or social science courses: 36 credit hours in science or 36 credit hours in social science.

The social science instructional fields of the College of Liberal Arts are: General Social Science, Anthropology, Economics, Geography, History, Home Economics, Philosophy, Political Science, Psychology, Religious Studies, Sociology.

The science instructional fields are: General Science, Biology, Chemistry, Computer Science, Geology, Mathematics, Nursing, Physics, Psychology, Geography, Anthropology.

(9) Restrictions: (a) Correspondence study: maximum 60 credit hours. (b) Law, medicine, dentistry, technology: maximum, 48 credit hours in professional courses toward any degree other than a professional degree. (c) A total of 24 credit hours with not more than 12 in any one of the following areas: (i) Lower division vocational technical courses. (ii) Physical Education activity courses (normally MPE, WPE and CPE), except for majors in Health, Physical Education, and Recreation. (iii) Studio instruction in Music, except for majors in Music. (d) Music Majors: towards the B.A., B.S., degree, a maximum of 24 credit hours in studio instruction of which not more than 12 hours may be taken in the student's freshman and sophomore years.

(10) Total credit: (a) For B.A., B.S., B.B.A., B.Ed., B.P.E., or B.Mus. degree: minimum 186 credit hours.

(b) For B.Arch., B.F.A., B.I.Arch., or B.L.A. degree: minimum, 220 credit hours.

(11) Academic performance: (a) Ninety pass-differentiated credit hours (graded A, B, or C) of which a minimum of 45 must be earned in residence.

(b) Satisfactory completion of 85 per cent of all work graded A, B, C, P, or N taken at the University of Oregon.

(12) Group Requirement: to promote breadth of liberal education, all candidates for a bachelor degree are required to take work in each of three groups—arts and letters, social science, and science—as listed below, in courses, numbered 100-499, exclusive of courses numbered 400-410, and 199.

Majors in liberal arts: six courses of at least 3 credit hours each in each of the three groups—arts and letters, social science, and science—for a total of 54 hours.

Majors in professional schools: twelve courses of at least 3 credit hours each in arts and letters, social science, and science, for a total of 36 hours. At least 3 courses must be taken in each of the three groups.

Arts and Letters Group

General Arts and Letters

Art: ArH 201, 202, 203, 204, 205, 206, 207, 208, 209.

Classics, Chinese and Japanese

English, Writing (except as noted below)

German and Russian

Music: Mus 201, 202, 203, 204, 205, 206.

Philosophy: Phl 204, 212, 222, 301, 302, 303, 304, 305, 306, 328, 329, 411, 413, 416, 419, 423, 425, 427, 429, 430, 431, 432, 433, 434, 435, 438, 439, 440, 441, 442, 443, 447, 448.

Romance Languages

Speech

Writing: Wr 121, 323, or their equivalent are to be used for satisfaction of the written English requirement only, and cannot be counted toward satisfaction of the Arts and Letters group requirement.

Social Science Group

General Social Science

Anthropology: Anth 102, 103, 207, 208, 209, 301, 302, 303, 411, 412, 413, 414, 415, 416, 417, 418, 419, 423, 424, 425, 426, 427, 428, 438, 439, 440, 441, 442, 443, 444, 445, 446, 450, 451, 452, 456, 457, 458, 461, 462, 463, 464, 465, 466.

Economics

Geography (except Geog 481, 482, 488)

History

Philosophy: Phl 201, 202, 203, 205, 206, 207, 208, 209, 210, 221, 307, 308, 309, 321, 322, 323, 324, 325, 326, 339, 340, 350, 351, 453, 454, 455, 456, 458, 459, 461, 462, 463, 465, 468, 480, 481, 482.

Political Science

Psychology: Psy 214, 215, 216, 451, 452, 454, 456, 457, 458, 460, 462, 465, 470, 472, 475, 476, 477, 478, 480, 486, 488.

Religion

Sociology

Science Group

Anthropology: Anth 101, 320, 321, 322, 323, 324, 475, 476, 477, 478, 479.

Biology

Chemistry

Computer Science

General Science

Geography: Geog 481, 482, 488.

Geology

Mathematics

Physics

Psychology: Psy 211, 212, 213, 217, 218, 219, 324, 414, 417, 418, 420, 423, 426, 429, 430, 433, 436, 439, 442, 444, 446, 447, 448, 449, 450.

Students who want to earn a second bachelor degree must satisfy the requirements listed above and, in addition, must earn at least 36 credit hours in courses on the Eugene campus beyond all requirements for the first degree (45 credit hours if their first degree was not earned at the University of Oregon).

Advanced Degrees

The general requirements for graduate degrees are listed under GRADUATE SCHOOL and in the catalog sections for each college, school, and department. The requirements for the degree of Doctor of Jurisprudence are listed under SCHOOL OF LAW. The requirements for the degree of Doctor of Medicine are listed in the Medical School Catalog; the requirements for the degree of Doctor of Dental Medicine are listed in the Dental School Catalog.

Application for Degree

All students who intend to receive a degree from the University must make application by filing the proper form in the Registrar's Office at the close of the third week of classes of each term of the expected graduation date; late application will delay graduation. All University academic obligations must be satisfied before any degree will be conferred.

Honors

The University of Oregon offers special programs of study as a challenge to students of superior scholastic ability. Students interested in such programs may consult their major department or school for details. Recognition of outstanding scholarship is also provided through election to membership in several honor societies.

Honors College. The University of Oregon Honors College offers a four-year program of study leading to the degree of Bachelor of Arts (Honors College). For further information see Honors College section of this catalog.

Master Degree with Honors. Candidates for the master degree who pass a final examination with exceptional merit may, by vote of the examining committee, be awarded the degree with honors.

Honor Societies. University of Oregon chapters of several national scholastic honor societies recognize exceptional distinction in scholarship through election to membership. Among these societies are: Phi Beta Kappa (liberal arts), Sigma Xi (science), Order of the Coif (law), Kappa Tau Alpha (journalism), Beta Gamma Sigma (business administration), Pi Kappa Lambda (music), Alpha Lambda Delta (freshman women), Phi Eta Sigma (freshman men).

Academic Procedure

The regular academic year throughout the Oregon State System of Higher Education is divided into three terms of approximately twelve weeks each. (Except the School

of Law, which operates on a semester calendar.) The summer session supplements the work of the regular year, for which special announcements are issued. Students may enter at the beginning of any term. It is important that freshmen and transferring students entering in the fall term be present for New Student Week. A detailed calendar for the current year appears on the opening pages of this catalog.

Students are held responsible for familiarity with University requirements governing such matters as routine of registration, academic standards, student activities, organizations, and the like. Complete academic regulations are included each fall in the separately published *Time Schedule of Classes*, a copy of which is furnished each student at registration.

When regulations are changed, the changed regulations are effective on the date of their publication, unless a later date is indicated on publication.

Registration Procedure

A registration period is set aside, with published dates, preceding the beginning of classes in each term or session. Complete registration instructions are contained in the *Time Schedule*. Students are officially registered and entitled to attend classes only when they have completed the prescribed procedures.

Students planning to register in a term of the regular academic year after absence of a term or more, or after attending only a summer session, must notify the Registrar's Office by filing a re-enrollment card several weeks before registration, in order to allow time for the preparation of registration materials. If notice is not given, registration will be delayed, and the student may become subject to penalties.

Students planning to register in a summer session should file, well in advance, a form stating this intent and supplying identifying and statistical information. This form is available in the *Summer Session Catalog* and from the Summer Session and Registrar's Offices.

All regular students are required to file official transcripts of any academic work taken at other institutions since their first enrollment in the University; a student's official records must be kept complete at all times. Exceptions are made only for "special" and "provisional" students who are formally admitted under individual arrangements, and for summer "transient" students, who are not formally evaluated and admitted. Any failure to file all required records is considered a breach of ethics, and may result in the cancellation of admission, registration, and credits.

The Student Health Center requires that all regular-session students returning after more than one year's absence be cleared through that office.

Students who need to be registered at the same time in more than one unit of the State System (e.g., the University and the Division of Continuing Education) may accomplish this without paying excess fees, under the provisions for "concurrent enrollment." The necessary forms and instructions are available in the Registrar's Office.

Academic Advising

Academic advising is regarded by the University as an extension of the teaching function and, therefore, as an important responsibility of the faculty. Academic advisers attempt to communicate to students, particularly freshmen, the meaning of higher education and its significance to the student. Advisers also explain University academic requirements and assist individual students in building programs which satisfy these requirements.

The Office of Academic Advising coordinates a general program of advising in which each student is assigned a faculty adviser, normally one who teaches in the student's major field. Students must have their first-term programs in the University signed by their advisers, and should consult with their advisers whenever they have academic problems.

Advisers for all students who have chosen a field of major study are assigned by major schools and departments; advisers for other students are assigned by the Office of Academic Advising. The director of Academic Advising is affiliated with the Office of the Dean, College of Liberal Arts.

Definitions

A CREDIT HOUR represents three hours of the student's time each week for one term. This time may be assigned to work in classroom or laboratory or to outside preparation. The number of lecture, recitation, laboratory, or other periods required per week for any course may be found in the *Time Schedule of Classes* published each academic year with quarterly supplements.

A COURSE is a subject, or an instructional subdivision of a subject, offered through a single term.

A YEAR SEQUENCE consists of three closely articulated courses extending through three terms of the academic year.

A CURRICULUM is an organized program of study arranged to provide integrated cultural or professional education.

Course Numbering System

Courses in University of Oregon catalogs are numbered in accordance with the course numbering plan of the Oregon State System of Higher Education. The plan, as it applies to University courses, is as follows:

1-49. Remedial courses which carry no credit toward a degree.

50-99. Beginning courses in subjects taught in high school which carry credit toward a bachelor degree.

100-299. Lower-division courses.

300-499. Upper-division courses.

400-410. Upper-division courses which may be taken successive terms under the same number, credit being granted according to the amount of work to be done. Certain numbers in this bracket are reserved for special types of work: 401, Research or other supervised original

work; 403, Thesis; 405, Reading and Conference; 407, Seminar.

400-499, with designation (G) or (g). Upper-division courses which may be taken for graduate credit. Courses which may be taken for graduate *major* credit are designated (G); courses which may be taken for graduate *minor or service-course* credit only are designated (g).

500-599. Graduate courses. Seniors of superior scholastic achievement may be admitted to 500 courses on the approval of the instructor.

500-510. Graduate courses which may be taken through successive terms under the same number, credit being granted according to the amount of work to be done. Certain numbers in this bracket are reserved for special types of work: 501, Research or other supervised original work; 503, Thesis; 505, Reading and Conference; 507, Seminar. In all divisions except the School of Law, Research (501) and Thesis (503) are classified as no-grade courses.

500-599 with designation (p). Courses in a professional field offered at a level of intellectual maturity suitable for graduate students who have earned a bachelor degree in a field other than their graduate professional field.

600-699. Courses of a highly professional or technical nature, which count toward a professional degree only (not toward advanced academic degrees such as M.A., M.S., Ph.D.).

Grading System

Grades. Student work is graded as follows: A, exceptional; B, superior; C, satisfactory; P, satisfactory or better; N, unsatisfactory; I, incomplete; W, withdrawn; X, no grade reported by instructor; Y, no basis for grade. Students ordinarily receive one of the four passing grades or N. When the quality of the work is satisfactory, but some minor yet essential requirement of the course has not been completed, for reasons acceptable to the instructor, a report of I (Incomplete) may be made and additional time (normally not more than three terms) granted for completion of the work. Students may withdraw from a course by filing the proper forms in the Registrar's Office in accordance with University regulations.

Pass-undifferentiated (ungraded). Under certain conditions, student work may be entered in University records with a grade of "pass" (P) or "no pass" (N). Credits with a grade of P are granted: (1) for courses offered only on a no-grade basis and so designated in the *Catalog* and *Time Schedule*; (2) for any University course at the option of the student, provided that the pass-undifferentiated option is not contrary to the policy of the division offering the course; (3) for courses in which the student receives credit by examination (including advanced-placement credit and credit through examinations administered by the University); (4) for work taken at another collegiate institution, in cases where the Director of Admissions is unable to evaluate the specific quality of the work in terms of the University grading system. A student who wants to exercise the pass-undifferentiated option in any course must do so at the time of registration, or within the period allowed for changes.

Acceptability of credit earned with a mark of P toward the satisfaction of major requirements is determined by the school, department, or committee directing the major program.

Grade-Point Average. For the convenience of students wanting such information, the Registrar will record the following numerical equivalents with pass-differentiated grades: A, 4 points per credit hour; B, 3 points per credit hour; C, 2 points per credit hour; however, the University will no longer compute a grade-point average to determine eligibility for graduation.

Credit by Examination

On petition to the Academic Requirements Committee, a student may be permitted to take examinations in undergraduate courses in which the student is not enrolled, and receive credit in courses on the basis of successful performance in the examinations. The rules governing credit by examination are as follows:

- (1) The student's petition must have the approval of the individual faculty member administering the test and approval of the dean or department head.
- (2) Arrangements for the examination must be completed at least one month before the examination date.
- (3) The student must pay, in advance, a special examination fee of \$15.00 per course.
- (4) The student is allowed only one opportunity to qualify for credit by examination in any given course.
- (5) The student has the option of credit recorded with a mark of Pass (P) or Grade (A, B, C).
- (6) Credit by examination may not be counted toward the satisfaction of the residence requirement.
- (7) Credit by examination may be earned only in courses whose content is identified by title in the University of Oregon catalog; credit by examination may not be earned for research (401), thesis (403), reading and conference (405), or seminars (407), or (199) special studies.
- (8) A student may not receive credit by examination in courses (a) which would substantially duplicate credit already received; (b) which are more elementary than courses in which credit has been previously earned.
- (9) A student must be registered for classes the term in which the examination is administered.

Scholarship Regulations

The administration of the regulations governing scholarship requirements is vested in the Committee on Scholastic Deficiency of the faculty. This committee may disqualify a student from attending the University when it appears that work is of such character that he or she cannot continue with personal profit nor with credit to the University. In general, profitable and creditable work means substantial progress toward meeting graduation requirements. Any term or cumulative record which is considered unsatisfactory may bring the student's record under review by the committee. Further details on committee procedures are published each year in the *Time Schedule of Classes*.

Fees

REGULAR charges paid by students enrolled in the institutions of the Oregon State System of Higher Education include (1) tuition fees, and (2) health service, incidental, and building fees.

Payment of the stipulated tuition and other fees entitles students enrolled for academic credit to services maintained by the University for the benefit of students. These services include: instruction in University courses; use of the University Library; use of laboratory and course equipment and materials in connection with courses for which the student is registered; medical attention at the Student Health Center; use of gymnasium equipment (including gymnasium suits and laundry service); admission to concert and lecture series sponsored by the University. No reduction is made for students who may not want to use some of these services.

Tuition and other regular fees are paid by all students under the usual conditions of undergraduate or graduate study, and are payable as specified in the annual *Time Schedule of Classes* or other official notices at the time of registration each term. Special fees are paid under the special conditions noted.

Tuition Fee Schedule

Fees are specified for one term only; there are three terms in the regular academic year: fall, winter, spring. The fees listed below are the charges in effect for the 1972-73 academic year. When this catalog went to press, the Oregon State Board of Higher Education had not yet determined the fees for the 1973-74 academic year. The Board reserves the right to make changes in the tuition fee schedule. The final fee schedule will appear in the *Time Schedule* and other supplementary publications. The current fee schedule for graduate students appears in the Graduate School section of this catalog.

Undergraduate Tuition: Resident

Full-time registration: 12-21 credit hours	\$169.50
Part-time registration:	
1-2 credit hours	49.00
3 credit hours	59.50
4 credit hours	70.00
5 credit hours	81.00
6 credit hours	91.50
7 credit hours	105.50
8 credit hours	119.50
9 credit hours	132.50
10 credit hours	145.00
11 credit hours	157.00
Over-time registration: (per credit hour)	10.50

Undergraduate Tuition: Nonresident

Full-time registration: 12-21 credit hours	\$522.50
Part-time registration:	
1-2 credit hours	107.50
3 credit hours	147.50
4 credit hours	187.50
5 credit hours	227.50
6 credit hours	267.50
7 credit hours	310.50
8 credit hours	353.50
9 credit hours	396.50
10 credit hours	438.50
11 credit hours	479.50
Over-time registration: (per credit hour)	20.00
Foreign student (continuously enrolled full-time since fall 1971)	472.50

General Deposit

All persons who enroll for academic credit (except staff members) must make a general deposit of \$25.00 payable at the time of registration. The deposit is required for protection of the University against loss of or damage to institutional property such as dormitory and laboratory equipment, military uniforms, Library books, and locker keys, and against failure to pay promptly nominal fines and assessments, such as Library fines, campus traffic fines, and Health Center charges. If at any time charges against this deposit become excessive, the student may be called upon to re-establish the original amount.

Special Fees

The following special fees are assessed to University students under the special conditions noted.

Application Fee: \$10.00. This fee is required of students not previously enrolled at the University of Oregon. It is payable when the application for admission is submitted. The fee is non refundable.

Late Registration: \$5.00 plus. Students who register late will be charged a late-registration fee of \$5.00 for the first late day plus \$1.00 for each late day thereafter. The regulation applies to both full-time and part-time students. The last date in each term to register without payment of penalty is: Fall, September 26, 1973; Winter, January 7, 1974; Spring, March 27, 1974.

Change of Program: \$1.00. This fee may be required for each change in the student's official program.

Exceptions to Procedures: \$1.00-\$25.00. Approved exceptions to procedural deadlines are subject to this fee.

Special Examination: \$15.00 per course. This fee is assessed for the privilege of taking an examination for advanced credit. The fee applies to each special examination regardless of the number of credit hours sought.

Graduate Qualifying Examination: \$1.00 to \$15.00. This fee is assessed to students taking the Graduate Record Examination or other standard tests of ability to do graduate work.

Counseling and Testing: \$7.50.

Transcripts: \$2.00. The first copy of an official copy of a student's University academic record is \$2.00; each additional copy furnished at the same time is \$1.00. The University reserves the right to withhold transcripts for persons who have unpaid financial obligations to the institution.

Replacement of I.D. Card and Certificate of Registration: \$4.00.

Replacement of Certificate of Registration only: \$1.50.

Reinstatement: \$2.00. The fee is assessed whenever a student is permitted to continue studies after having had registration cancelled for failure to comply with the regulations of the institution.

Returned Check: \$5.00. A penalty is imposed if any institutional charges are paid by a check which is returned because of an irregularity for which the person submitting it is responsible.

Senior Citizens: \$5.00 per credit hour. Persons 65 years of age and older not seeking academic credit nor working toward a degree are authorized to attend classes on a space-available basis. Charges for any special materials are in addition to the credit-hour rate. Incidental fee services are not provided. The fee is nonrefundable.

Staff: \$5.00 per credit hour. University employees are permitted to enroll in University classes; academic staff enroll with the approval of the Payroll Department; civil service staff enroll with the approval of the Personnel Office. Full-time employees are usually limited to 3 credit hours of work in any term; part-time employees may enroll for a maximum of 10 credit hours. The fee is nonrefundable.

Auditor: Regular Tuition. Persons who have permission to attend classes without receiving academic credit are subject to the regular full-time or part-time tuition fees. Auditors are not considered to be enrolled students.

Concurrent Enrollment

The State Board of Higher Education has authorized concurrent enrollment by undergraduate students, graduate students, and teaching and research fellows appointed to positions of .15 FTE or more in the various institutions and the Division of Continuing Education. Information concerning procedures for concurrent enrollment may be obtained from the Registrar's Office or from Division of Continuing Education centers and regional offices.

Refunds

Fee Refunds. In the event of complete withdrawal, refunds may be granted to students in accordance with the refund schedule on file in the University Business Office. Fee refunds may be made for reduction of course load for reasons beyond the student's control. All refunds are subject to the following regulations:

(1) Withdrawal or course reduction does not automatically result in a refund. Any claim for refund must be made in writing within the current term but no later than the close of the following term.

(2) Refunds in all cases are calculated from the date that the student officially withdraws from the University, not from the date when the student ceased attending classes, except in unusual cases when formal withdrawal has been relayed through causes largely beyond the control of the student.

(3) No refunds will be made for any amount less than \$1.00.

(4) Refunds of incidental fees are subject to return of Certificate of Registration and Student Athletic Card.

General Deposit Refund. The \$25.00 general deposit, less any deductions which may have been made, is refundable within the term following withdrawal, if a request is made in writing to the Business Office. Otherwise an automatic refund is made during the summer following the close of the academic year.

Automobile Fees

Although students are not encouraged to bring automobiles to the University, a minimum amount of parking space is available near the dormitories; regulations govern its use. Students who use University parking lots must purchase and display the proper parking permit. Student parking permits are \$15.00 for automobiles and \$7.50 for motorcycles during the regular school year; student permits are \$8.00 during the summer session. All such fees, however, are subject to change.

Parking permits may be purchased during registration in McArthur Court, and at other times from the Office of Campus Security in Straub Hall. Parking regulations are enforced at all times, and penalties for violations are imposed.

Bicycle racks and ramps are provided throughout the campus, and the development of cycling paths is underway both on campus and in the community. There is an adequate city bus system.

A summary of University parking regulations appears in the *Time Schedule of Classes*. Copies of the complete regulations are available from the Office of Campus Security.

Scholarships and Fellowships

SCHOLARSHIPS and fellowships are available to University students of ability and promise. Most of these awards have been established through the generosity of private donors. Most of the scholarships listed below are open to competition by all students or by specified groups of students.

Scholarship and fellowship awards are administered through a faculty committee on scholarships and financial aid. A student applying for a particular scholarship is given consideration for all scholarships for which he may be eligible.

Entering freshmen may make application for any scholarship administered by the University of Oregon on a form furnished by the Oregon State System of Higher Education; copies of the form may be obtained from high-school principals. Other applicants may obtain forms from the Office of Financial Aid for general University scholarships, and from departments for scholarships awarded in specific academic fields. Further information may be obtained from the Office of Student Financial Aid. Applications should be filed not later than March 1.

Fellowships and scholarships offered to students at the University of Oregon Medical School, Dental School, and School of Nursing are listed in the separate catalogs of these schools.

Oregon State Scholarship Commission

State Cash Scholarships. A limited number of cash scholarships, with a maximum value of \$500, are awarded annually by the Oregon State Scholarship Commission to especially able graduates of Oregon high schools who are in need of financial assistance; the scholarships may be used in any accredited institution of higher education in the state of Oregon. Application forms may be obtained only from Oregon high-school principals; applications are transmitted by high-school principals to the State Scholarship Commission. Applications for renewal must be filed prior to March 1 each year with the institution the student plans to attend. Scholarships may be renewed up to 12 terms provided the student meets eligibility requirements.

State Need-Grants

Awards of \$100 to \$500 are made to entering freshmen who are Oregon residents. Awards are made on the basis of financial need and may be renewed up to 12 terms, provided the student remains eligible. Application for renewal must be filed with the institution each year prior to March 1. The grants are transferrable to other Oregon institutions.

University Assistantships. Teaching and research assistantships are awarded annually by the University to qualified graduate students. For stipends and application procedure, call or write the Graduate School.

Air Force Reserve Officer Training Corps Scholarships. A number of scholarships are awarded annually to outstanding cadets in the A.F.R.O.T.C. four-year program. These scholarships cover fees, a \$25 term book allowance, and a subsistence pay of \$50 a month. Funds are provided by the United States Air Force.

Army Reserve Officer Training Corps Scholarships. Financial assistance is offered to outstanding young men in the Army R.O.T.C. program who plan Army careers. Each scholarship covers fees and cost of textbooks, plus \$50 a month subsistence pay. During a six-week summer training period at the end of the junior year, this pay is increased to \$120. Scholarships may be awarded for either two or four years.

Robert A. Booth Fellowship in Public Service. This fellowship, supported by a bequest from the late Robert A. Booth of Eugene, Oregon, is awarded annually to an outstanding graduate of an accredited college or university. The award, between \$250 and \$500, is made on the basis of scholarship, character, personality, financial need, and interest in public service as a career.

Coca Cola Scholarship. This scholarship, at present approximately \$500, is awarded annually to a graduating senior of the University of Oregon, as an aid to post-graduate study at the University. In choosing a Coca Cola scholar, a faculty committee gives consideration to scholastic record, character, good citizenship, and promise as a graduate student. The scholarship is endowed through a gift from Eugene Coca Cola Bottling Company.

Co-op Housing-Janet Smith Scholarships. Three \$75 scholarships are awarded annually to members of women's cooperative houses on the University campus. The scholarships are named in memory of the late Miss Janet Smith, adviser to the cooperative houses.

Cowden Scholarship. A \$200 scholarship, supported through an endowment provided by Norton Cowden, Class of '14, is awarded annually to a worthy student who is in need of financial assistance.

Leon A. Culbertson Scholarships. Scholarships ranging from \$300 to \$1,000 are supported through interest on an endowment under the will of the late Leon A. Culbertson, Class of '23. Ten or more new scholarships are awarded each year, and are renewable for a total period of twelve terms. Awards are based on character, financial need, and scholastic achievement.

Colonel Harry L. Dale Scholarship. Under the terms of the will of the late Colonel Harry L. Dale, worthy students from Baker High School, Oregon, attending the University of Oregon may receive a \$500 scholarship through the University of Oregon Development Fund. Candidates are nominated by a committee from Baker on the basis of personal integrity, potential value as citizens, scholarship, leadership, character, and need. The scholarships are paid in three annual installments and are renewable up to twelve terms.

Bernard Daly Scholarships. Under terms of the will of the late Dr. Bernard Daly of Lakeview, Oregon, worthy young men and women of Lake County, Oregon may

receive a portion of their college expenses from the Bernard Daly Educational Fund. The fund is administered by a board of trustees, including a representative of the University of Oregon; the board selects the scholars annually after a qualifying examination held in Lake County.

Delta Delta Delta Scholarships. Two scholarships of \$100 to \$300 are awarded annually by the Delta Delta Delta Sorority to University women students. The awards are made on the basis of need, scholarship, and record of student activities. The scholarships are financed by the local Delta Delta Delta chapter and by alumnae groups.

Development Fund Scholarships. A number of scholarships are awarded annually by the University of Oregon Development Fund. The scholarships are awarded on the basis of merit and financial need. These scholarships are available to both in-state and out-of-state students.

General Motors Scholarship. Each year the General Motors Corporation provides funds for one scholarship to be awarded to a University of Oregon freshman of outstanding merit, chosen by the University Scholarship Committee. Consideration is given to academic record, participation in extracurricular activities, and evidence of responsibility and leadership. The scholarships vary in amount from \$200 to \$2,000, depending on the need of the recipient, and are renewable through the student's undergraduate years, provided he maintains an outstanding scholastic record. Preference is given to a student majoring in business administration, economics, mathematics, or science.

Jennie Beatie Harris Scholarship. Two \$250 scholarships are awarded annually to full-time women students on the basis of scholastic record, character, good citizenship, and financial need. The scholarships are supported by income from the Jennie Beatie Harris Loan Fund established by the State Association of University of Oregon Women.

Holmes Scholarship. A tuition scholarship, named in honor of Harry and David Holmes of Medford, is awarded annually to a graduate of a Jackson County, Oregon high school who is in financial need and shows high scholastic promise.

Herbert Crombie Howe Scholarship. This scholarship is endowed through a gift from Mrs. Herbert Crombie Howe in memory of her husband, a member of the faculty of the Department of English from 1901 until his death in 1940, and for many years faculty representative to the Pacific Coast Intercollegiate Athletic Conference. It is awarded to students injured in athletic competition, to help them continue their education.

Maurice Harold Hunter Scholarship. The Maurice Harold Hunter Leadership Scholarship, covering full tuition, is awarded annually to the junior man in the University, a resident of the state of Oregon, who is judged to have made the most notable contribution, through his own achievements and good example, toward the development of qualities of leadership among his fellow students. The names of the recipients are engraved on a permanent plaque, which is displayed in the Browsing Room in the Student Union. The scholarship is supported through gifts to the University by the late Chancellor and Mrs. Frederick Maurice Hunter and Dr. and Mrs. Arthur Francis Hunter, in honor of their son and brother, Captain Maurice Harold Hunter, Class of '41. Captain Hunter was killed in action in Burma on January 31, 1945.

Lowe Scholarships. Two \$150 scholarships, supported by Mr. and Mrs. George K. Lowe of Eugene, Oregon, are awarded annually to University men students on the basis of scholastic ability and performance, character, citizenship, interest and proficiency in wrestling and track, and need of financial assistance.

Karl W. Onthank Scholarships. Several scholarships are awarded annually to out-of-state students and to in-state students, in honor of the late Karl W. Onthank, Class of '16 and member of the University faculty from 1916 until his death in 1967.

Oregon Dads Scholarships. The Oregon Dads organization awards several tuition scholarships each year. Recipients of the scholarships are chosen on the basis of character, citizenship, academic record, and financial need.

Oregon Mothers Scholarships. The Oregon Mothers organization awards several \$500 scholarships annually. Recipients of the scholarships are chosen on the basis of academic record and financial need.

Phi Gamma Delta Scholarship. The Phi Gamma Delta Scholarship, a memorial to Robert C. Jones, is a \$200 award given annually to a junior student who is outstanding in scholarship, leadership, and prospects for future service. Mr. Jones, Class of '43, was killed on December 26, 1944 in the Battle of the Bulge. The scholarship has been endowed by Mrs. Eleanor Jones Mumm and Mr. and Mrs. Frank C. Jones.

Rockwell Scholarships. Two \$250 scholarships, endowed through a bequest from the late Mrs. Mary E. Rockwell, are awarded annually "to assist worthy, ambitious, and needy young men and women to acquire an education" at the University of Oregon, "so that they may be better fitted and qualified to appreciate and help to preserve the laws and institutions of this country."

Loretta Showers Rossman Scholarships. One or two scholarships, varying from \$250 to \$500, are awarded annually to worthy students in memory of Loretta Showers Rossman, a graduate of the University of Oregon in the Class of '10.

Silva Scholarship. A tuition scholarship, endowed by Julio W. Silva of Eugene, is awarded annually to a graduate of a Lane County, Oregon high school, preferably a student from the Eugene-Springfield area. The award is made on the basis of scholarship, leadership, character, and need.

Richard Shore Smith Memorial Scholarship. A \$600 scholarship is awarded annually to a University man on the basis of scholastic performance, character, leadership, interest and proficiency in sports, and need. The scholarship is supported by the income from an endowment given to the University by Dr. and Mrs. Donald B. Slocum of Eugene, Oregon as a memorial to Mrs. Slocum's father, the late Richard Shore Smith, Class of '01.

Mary Spiller Scholarship. One or more scholarships of \$250 are awarded annually to a woman student who has been enrolled in the University for three full terms; the award is on the basis of scholastic record, character, good citizenship, and financial need. The scholarship is supported by income from the Mary Spiller Endowment Fund and the Mary Spiller Loan Fund, memorials to the first woman teacher in the University.

Joseph Kinsman Starr Scholarships. Approximately twenty scholarships, varying from \$300 to \$900 accord-

ing to financial need, are awarded annually to University men students in memory of Joseph Kinsman Starr, a graduate of the University of Oregon School of Law in the Class of '07. For eligibility, students must have strong academic records, must be residents of communities of population of 5,000 or less, and must be descendants of early American pioneers. Scholarships are renewable for up to twelve terms.

William W. Stout Scholarships. Several scholarships, ranging in amount from \$500 to \$900, are awarded annually to worthy students who need financial assistance to get the maximum benefit from their education. The scholarships are supported through a bequest from the late William W. Stout of California.

C. P. Tillman Scholarship. The C. P. Tillman Scholarship, about \$100, is awarded annually to a University freshman residing in the Eugene-Springfield area, on the basis of ability and financial need. The scholarship is supported by an endowment bequeathed to the University by the late C. P. Tillman of Eugene, Oregon.

Max Tucker Scholarships. Two or three \$1,000 scholarships are awarded annually to University of Oregon students from a fund established by the will of the late Max Tucker of Lebanon, Oregon. In the selection of Tucker scholars, special consideration is given to graduates of Lebanon High School.

Zimmerman Scholarships. The Joseph P. and Eva Zimmerman scholarships, of varying amounts, are awarded to seniors and graduate students. The scholarships are supported through a bequest of the late Miss Lois Zimmerman, Class of '28, and is named in memory of her father and mother.

Liberal Arts

Thomas Condon Fellowship in Paleontology. The Thomas Condon Fellowship is awarded by the Department of Geology as an aid to graduate study in the field of paleontology. The fellowship is endowed through a bequest from the late Mrs. Ellen Condon McCornack, and is named in memory of her father, Dr. Thomas Condon, pioneer Oregon geologist and a member of the University faculty from 1876 until his death in 1906.

F. G. G. Schmidt Fellowship in German. A \$250 fellowship, supported by a gift from the late Dr. F. G. G. Schmidt, a member of the University faculty from 1897 until his death in 1945, is awarded annually to a worthy Ph.D. candidate majoring in German, who has passed his comprehensives.

Leona M. Kail Scholarship. This is awarded to students majoring in foreign languages in varying amounts based on financial need.

Walter Moberly Endowment Scholarship. A \$100 scholarship is awarded to a student based on work done in the field of marine biology.

Ralph Eustis Scholarship is an award made to a student majoring in biology.

Phi Beta Scholarship. A \$50 scholarship is given each term to an outstanding student majoring in theater or music.

James Stovall Scholarships. A \$100 award is offered to an academically outstanding senior geology major.

Roger Hong Scholarship. Five \$100 awards are made annually to undergraduate majors in Chinese, based on academic record, motivation and financial need.

Antoinette Shumway Stanton Scholarship. This scholarship is awarded to a student interested in the field of home economics.

Architecture and Allied Arts

Maude I. Kerns Scholarship. A \$100 scholarship is awarded annually to a junior, senior, or graduate student majoring in art education. This scholarship is supported by gifts to the University from friends and students of the late Miss Maude I. Kerns, Class of '99 and member of the University faculty from 1921 to 1947.

Ion Lewis Scholarship in Architecture. A \$3,000 traveling scholarship is awarded, when funds are available, to Oregon architects, draftsmen, or advanced architectural students who are under 30 years of age and have a combined architecture education and experience of at least six years. Award is made on the basis of character, ability, promise, and need of travel. The scholarship is supported by a trust fund established by the late Ion Lewis of Portland, Oregon.

Ina McClung Art Scholarships. Several scholarships of varying amounts up to \$500 are awarded annually to students in the School of Architecture and Allied Arts from the income of an endowment established by Mrs. Katherine H. McClung. The scholarships are named in memory of the late Miss Ina McClung, Class of '95.

Northwest Plaster Bureau Scholarship. A \$250 scholarship is awarded annually by the Northwest Plaster Bureau, Inc. to an architecture student recommended by the architecture faculty and the dean of the school.

Ellen M. Pennell Scholarships. Several scholarships, \$30 to \$100 are awarded for a term or a year to students in the School of Architecture and Allied Arts. They are endowed through a bequest from Mrs. Ellen M. Pennell, for many years a member of the University Library staff.

Women's Architectural League Scholarship. Scholarships in varying amounts, supported by the Women's Architectural League, are awarded annually to a fourth year student of architecture. Scholarships are based on potential and achievement in professional field.

Southwestern Oregon Chapter of the American Institute of Architects awards a tuition credit (the amount of in-state tuition) to a third, fourth, or fifth year student based on financial need and potential in the field of architecture or interior architecture.

National American Institute of Architects awards a scholarship of \$500 or more to a student majoring in architecture based on scholastic achievement and financial need.

Architecture Faculty Scholarship. This full or partial tuition scholarship is based on achievement, potential, and financial need, and is made possible through faculty donations.

Marie and Arthur Berger Scholarships are awarded to landscape architecture students on the basis of merit and financial need. A number of work scholarships are also available through this fund, made possible by endowment funds from the estates of Marie and Arthur Berger, landscape architects.

Phillip Halley Johnson Tuition Scholarships are awarded to majors in painting and printmaking in the Department of Fine and Applied Arts. This scholarship fund was made possible by a bequest from the will of

Phillip Halley Johnson, who received a B.S. in Fine Arts, 1935, and an M.F.A. in 1937.

S. H. Kress Foundation Scholarships. A five-year grant to the Department of Art History from the S. H. Kress Foundation has made possible the award of several tuition scholarships for the period of the grant, 1970 to 1975. Awards are based on academic excellence.

Patricia L. Slayter Memorial Scholarships to students career-oriented toward teaching in art education are awarded in varying amounts each year as funds are available. The scholarship fund was established by friends in memory of Patricia Slayter, a Eugene art teacher.

Business Administration

Autzen Foundation Scholarship. The Autzen Foundation provides an annual award of \$500 to an upper-division student in business administration. The award is made on the basis of scholarship, qualities of leadership, and probable success in a business career.

Cole, Clark and Cunningham Scholarship. The firm of Cole, Clark and Cunningham Insurance, Portland, Oregon, awards a \$400 scholarship annually to a deserving senior male student majoring in business administration. The recipient is selected by the Business Administration Day Committee of the College of Business Administration.

Eppstein Scholarship for Insurance Education. An annual \$200 scholarship is awarded to a business administration major in the field of insurance. The scholarship is a memorial to the late Arthur M. Eppstein, and is supported through a gift from agents of the Oregon Automobile Insurance Company, of which Mr. Eppstein was president. The award is made on the basis of scholarship, need, character, and professional aptitude for work in property and casualty insurance.

First National Bank of Oregon Scholarship. The First National Bank of Oregon awards annually two \$500 scholarships to students of junior standing with an interest in finance and who are Oregon residents. The award is based on leadership ability and scholastic achievement.

Haskins and Sells Scholarship. A \$500 scholarship "to stimulate higher academic achievement on the part of students majoring in accounting, and to encourage promising students to major in this field" is awarded annually to an accounting student from funds provided by the Haskins and Sells Foundation.

Haskins and Sells Teaching Fellowship in Accounting. A \$2,500 fellowship is awarded each year by the Haskins and Sells foundation to a graduate student preparing for a career in college teaching of accounting. For eligibility, an applicant should have completed the requirements for a master degree.

H. T. Miner Research Fellowship. An award of \$1,800 is made annually to a student planning graduate work in the College of Business Administration. The award is supported through the H. T. Miner Fund.

Insurance Society Scholarship. A \$200 scholarship is awarded annually to a student in the College of Business Administration majoring in risk and insurance. Funds are provided by the Insurance Society.

Republic Carloading and Distributing Company Scholarship. The Republic Carloading and Distributing Company awards annually a \$300 scholarship to an enter-

ing freshman student planning to major in the field of traffic management and transportation in the School of Business Administration. The scholarship is renewable each year until the student's graduation, provided he maintains a satisfactory academic record.

Weyerhaeuser Fellowship. The Weyerhaeuser Company Foundation offers a \$2,250 fellowship to outstanding graduate students in business administration majoring in forest industries management. The award is made through the Forest Industries Management Center to encourage advanced professional training for this field.

W. A. "Pete" Brooks Scholarship. A one year's scholarship for tuition and other fees at the University of Oregon is given to a senior student needing financial support and majoring in insurance.

Arthur Young Book Awards. Five \$25 awards in the form of books and periodicals are made to five outstanding prospective seniors majoring in accounting and completing their junior year.

August Quinby Memorial Scholarship. \$100 is given alternately by the College of Business Administration and the Economics Department to a male student working for his master or doctoral degree in economics or business, determined on the basis of demonstrated ability, financial need, and general worthiness.

Gregor Endowment Scholarship. Up to \$500 is available to a regularly enrolled senior student in accounting who intends to become a certified public accountant.

Standard Oil Company Scholarship. \$750 is offered to an outstanding student completing the junior year in accounting. The recipient must be a citizen of the United States or hold a permanent visa to the U.S.

Boise Cascade Scholarship. \$150 may be awarded to an individual meeting the academic requirements for Beta Alpha Psi (membership not required). It is based on general business aptitude and ability to logically analyze problem situations.

Mark E. Reed Scholarship. Two \$1,000 special scholarships are given to junior or senior students interested in business careers related to forest industries. Information is available from the Office of Forest Industries Management.

Lundquist Scholarship. A \$500 scholarship is offered to a deserving student in business.

Walter E. Heller Fellowship. \$1,000 from Walter E. Heller & Co., is given to an M.B.A. candidate on the basis of academic promise.

American Society of Women Accountants. A scholarship of at least \$200 is awarded annually to an outstanding woman accounting student enrolled in an Oregon college. Scholastic achievement, aptitude, and financial need are considered. Funds for the scholarship are provided by the Portland Chapter #35 of the American Society of Women Accountants.

Journalism

Arlyn E. Cole Memorial Scholarship. This award is presented annually by Cole and Weber, an advertising and public relations firm, in memory of the late Arlyn E. Cole, a founder of the firm. It provides a financial grant and summer internship experience to an outstanding junior in the field of advertising.

Crown Zellerbach Scholarships. A \$750 scholarship is

awarded annually by the Crown Zellerbach Foundation to upper-division students majoring in journalism. Scholarship, character, and journalistic ability are the major criteria for selection; financial need is not a criterion. Candidates must be United States citizens and preferably residents of the Pacific Northwest.

Eugene Register-Guard Allen Scholarships. Two \$500 scholarships are awarded annually by the Eugene *Register-Guard* to journalism students, on the basis of scholastic achievement, journalistic ability, and financial need. Candidates must intend to make newspaper work their career. The scholarships are named in memory of Eric W. Allen, first dean of the School of Journalism and member of the University faculty from 1912 until his death in 1944.

Howard Hillis Scholarship. A \$200 scholarship, named in honor of Howard Hillis, is awarded annually to a freshman student who intends to major in journalism. Funds for the scholarship are provided by the Oregon Scholastic Press and friends of the School of Journalism.

Jackson Foundation Scholarship in Journalism. Two \$1,000 scholarships are awarded annually to students in the School of Journalism by the Jackson Foundation of Portland. The awards are based upon scholastic achievement, professional promise, and financial need. The Jackson Foundation was established by the family of the founder of the *Oregon Journal*.

Oregon Newspaper Publishers Association Scholarships. Up to eight scholarships, ranging from \$100 to \$200, are provided through the Journalism Scholarship Fund of the Oregon Newspaper Publishers Association. The scholarships are awarded by the School of Journalism faculty to journalism majors or premajors who intend to enter the newspaper field.

Register-Guard 20-Year Club Scholarship. A tuition scholarship is awarded annually by the 20-Year Club of the Eugene *Register-Guard* to a sophomore or junior student in journalism who shows promise of achievement in the field, whose home is in the circulation area of the *Register-Guard*, and who has a need for financial assistance.

Sweet Memorial Scholarship. A \$300 scholarship, named in memory of the late Miss Florence Sweet, is awarded annually to a freshman student who intends to major in journalism. Miss Sweet was adviser to the Pendleton High School *Lantern* and president of the National Association of Journalism Directors. Funds for the scholarship are provided by the Oregon Scholastic Press and friends of the School of Journalism.

Newspaper Fund, Inc. These scholarship grants are available to black students majoring in journalism.

KPOK Broadcasting Scholarship of \$1,000 is awarded to an outstanding student preparing for a career in broadcasting.

Oregon Association of Broadcasters. A scholarship of \$250 is awarded each year to a student planning a career in broadcasting.

American Newspaper Publishers Foundation awards six \$250 scholarships to students majoring in journalism. Special scholarship funds are also available to black students majoring in journalism.

Theta Sigma Phi, journalism honorary, awards a \$250 scholarship to an outstanding student majoring in journalism.

Law

American College of Trial Lawyers Scholarship. A \$500 scholarship is provided annually by the Oregon members of the American College of Trial Lawyers for a law student who gives promise of becoming a competent advocate after his admission to the bar.

James D. Barnett Scholarship. One or more scholarships are awarded annually by the faculty of the School of Law to needy and worthy students. The scholarships are supported through the income of an endowment fund, established by Mrs. Winifred Barnett Allendoerfer and Professor Carl Allendoerfer, in memory of Dr. James D. Barnett, member of the University faculty from 1908 until his death in 1957.

Henry E. Collier Law Scholarships. Several scholarships are awarded annually, on the basis of financial need and good moral character, to worthy men students in the School of Law who intend to make the practice of law their life work. The scholarships are supported by the income of a \$50,000 trust fund established under the will of the late Henry E. Collier, Portland attorney. No recipient may be awarded more than \$500 in any one year.

Lane County Lawyers Wives Association Scholarship. A scholarship covering fees for one term is awarded annually by the Lane County Lawyers Wives Association to a second- or third-year law student on the basis of financial need and academic achievement.

Lorienne Conlee Fowler Law Scholarship. The Lorienne Conlee Fowler Scholarship is awarded, on the basis of need and scholastic record, to a woman student in the School of Law; the scholarship may be renewed as long as the recipient continues to make satisfactory progress toward a professional law degree. The award consists of the income of a \$5,000 trust fund established by Dr. Frank E. Fowler, Class of '20, in memory of his wife, Mrs. Lorienne Conlee Fowler.

Herbert B. Galton Scholarship. A \$300 scholarship is provided annually by Herbert B. Galton, a Portland attorney and a member of the Class of '38, to be awarded to a second-year student, for use during his third year in the School of Law, on the basis of interest in the field of labor law or problems of employed persons or other factors demonstrated by writings.

Charles G. Howard Law Scholarships. Several scholarships, of varying amounts, are awarded annually on the basis of satisfactory academic progress, financial need, and the applicant's effort to solve his own financial problems, to students in the School of Law. The scholarships are supported through a trust fund established by members of Phi Alpha Delta, legal fraternity, and are named in honor of Charles G. Howard, professor emeritus of law, and a member of the faculty of the School of Law from 1928 to 1971.

James T. Landye Scholarship. One or more scholarships are awarded annually to scholastically superior students who are in need of financial assistance. The scholarship is financed from the income from a fund contributed by the friends of the late James T. Landye, a Portland lawyer and a member of the Class of '34.

Law School Alumni Scholarships. Twelve \$330 scholarships are provided by the Law School Alumni Association for award to deserving members of the entering class of the School of Law whose prelegal academic records

are of B-average quality or higher. The recipients of these scholarships are selected by the president of the association and the dean of the school.

Paul Patterson Memorial Fellowship. A \$1,250 fellowship is awarded annually to a student completing his second year in the School of Law who best exemplifies the high qualities of integrity, leadership, and dedication to public service which characterized the late governor of Oregon, Paul L. Patterson, Class of '26. The fellowship is supported through gifts from alumni and friends of the University.

Kathryn Fenning Owens Memorial Scholarship is awarded on the basis of academic success and financial need with preference given to a woman student.

Jackson Foundation Scholarship. The trustees of the Jackson Foundation, a trust of the late Maria C. Jackson, widow of C. S. Jackson, founder of the *Oregon Journal*, offer annually a substantial scholarship to a needy law student of high ability who is a graduate of a secondary school in Oregon. Other things being equal, preference is given to the child of any present or former employee of the *Oregon Journal*. Selection is made by the School of Law faculty.

Women's Association of the Multnomah County Bar Scholarships. Annual scholarships of \$500 are provided each year by the Women's Association of the Multnomah County Bar for award, on the basis of financial need and academic achievement, to third-year law students enrolled in law schools in Oregon.

Medicine

Kenneth A. J. Mackenzie Memorial Scholarship. A \$1,000 scholarship is awarded annually for the study of medicine to the outstanding premedical student at the University of Oregon in his last year of premedical studies. The student receives \$200 during his last year of premedical work at the University and \$200 each year at the University of Oregon Medical School if he continues to maintain a high scholastic record. If the student does not maintain a high scholastic record at the Medical School, his scholarship is transferred to an outstanding member of his Medical School class who took his premedical work at the University. The scholarships are a memorial to Dr. Kenneth A. J. Mackenzie, former dean of the Medical School; they are endowed through a bequest from the late Mrs. Mildred Anna Williams.

John J. Rogers Premedical Scholarship. A \$500 scholarship is awarded annually to a premedical student. The scholarship is supported by Mrs. John J. Rogers of Eugene, Oregon.

See also University of Oregon Medical School catalog.

Music

Maud Densmore Memorial Music Scholarship. The Maud Densmore Memorial Music Scholarship, approximately \$250, is awarded annually to an upper-division student in music at the University. The scholarship is supported by the Eugene Women's Choral Club.

Eugene Women's Choral Club Scholarship. The Eugene Women's Choral Club awards annually a \$120 scholarship for vocal-music instruction in the University to a graduate of a Lane County, Oregon high school. The award, which is made on the basis of vocal activity, char-

acter, and financial need, may be divided between two applicants.

Mu Phi Epsilon Scholarships. These scholarships, covering fees for private instruction in performance, are awarded by the members of the Eugene, Oregon alumnae chapter and patronesses of Mu Phi Epsilon to women students in the School of Music.

Musicians' Mutual Association Scholarship. The School of Music awards annually a \$120 scholarship for woodwind, brass, or percussion instruction in the University to a Lane County, Oregon, resident. The scholarship is supported by funds provided by the Musicians' Mutual Association, Local 689, American Federation of Musicians.

Performing Assistantships. The School of Music awards annually to entering freshman students several \$500 assistantships for skilled instrumentalists to assist in various performing capacities as needed. These assistantships may be renewed annually up to a period of four years.

Phi Beta Scholarships. Several scholarships, covering fees for private instruction in performance, are awarded by alumnae and patroness groups of Phi Beta, women's national professional fraternity for music and drama, to women students in the School of Music on the basis of talent, scholarship, and worthiness.

Eugene Symphony Association Scholarships. Awards in varying amounts, are made to students participating in the Symphony.

Presser Foundation Scholarships are awarded in varying amounts to undergraduate students with preference to future teachers of music.

Paul Clarke Stauffer Scholarship is awarded to a male student majoring in music. First consideration is given to current high school seniors, graduates from Eugene, Oregon; next consideration is given to high school graduates from other areas in the state of Oregon.

Ruth Lorraine Close Musical Fellowship Awards in Music. Approximately \$30,000 is available annually through a bequest from the late Mrs. Ruth Lorraine Close Gracely to be presented in minimum academic year awards of \$2,000. These are granted to advanced music students of exceptional talent and achievement, with preference given to residents of Oregon or Washington who are specializing in the study of harp or composition.

Physical Education

Faculty Scholarship in Women's Physical Education The faculty of the division of physical education for women awards a scholarship of \$250 to an upper-division woman student who is preparing for a teaching career in health, physical education, or the dance.

Physical Education Scholarship for Men. The Service Course Committee for Men in the Department of Physical Education awards a \$100 scholarship each term to an undergraduate physical education major in recognition of high academic and professional achievement.

Janet G. Woodruff Alumnae Scholarship. The Association of Oregon Physical Education Alumnae awards annually one to three \$100 awards to women professional students in physical education. Awards are based on scholarship, professional interest and teaching promise.



Division of Broadcast Services and Televised Instruction

Director, John R. Shepherd, Ph.D.
Associate Director, Ronald E. Sherriffs, Ph.D.
James K. Carroll, M.A.
William B. Willingham, M.A.

THE Division of Broadcast Services was established in July 1964 by the University President, under the administrative office of the Dean of Faculties. The planning committee, under the direction of the Office of Planning and Institutional Research, articulated eight objectives "underlying the utilization of educational television at the University of Oregon." These were as follows:

- (1) To identify and utilize television's capability as an instructional medium;
- (2) To assist the University to meet shortages of qualified teaching faculty;
- (3) To facilitate increased efficiency in utilization of the physical space of the University;
- (4) To extend the educational resources of the University beyond the campus;
- (5) To encourage and facilitate research in the broad area of communications;
- (6) To provide for the proper education of students in theory and practice in television broadcasting;
- (7) To develop quality production and reproduction procedures and facilities;
- (8) To develop a library repository for collection, storage, distribution and use of recordings of educational, research, and historical value.

The Division of Broadcast Services and Televised Instruction serves the entire academic community of the University of Oregon. The impersonality of a large university is alleviated by the opportunity to communicate directly with the students through the University's ex-

2 Divisions & Institutes

Division of Broadcast Services
and Televised Instruction
Research Institutes
Institute of Molecular Biology
Institute of Theoretical Science
Institute of Marine Biology
Institute for Community Studies
Institute of Industrial and Labor Relations
Center for Environmental Studies
Center for the Advanced Study of
Educational Administration
Bureau of Governmental Research
and Service
E. C. Brown Center for Family Studies
Computing Center

tensive closed circuit television system, Private Line-3, and through the operation of Radio Station KWAX-FM.

The programming of PL-3 and station KWAX-FM accommodates the tastes and needs of students, faculty, and community. The broadcast schedule includes lectures, interviews, concerts, cultural events, discussion groups, news features, plays, and selected films. Because the Division is an integral part of the Oregon Educational Broadcasting Network, it provides a number of programs for release over KOAC-TV and KOAP-TV, the state-owned educational television stations. The University studios also produce regular programs for the State Department of Education, the Eugene Public Schools, and other programs designed for general distribution throughout the state. The Center for Media Research is responsible for a number of continuing research projects; the Instructional Television Unit provides the faculty with assistance in the development of instructional materials.

Basic Studio Production Equipment. Equipment now includes two image orthicon cameral chains, two vidicon cameral units, three tape machines, including one broadcast model Ampex 1100 Recorder, a film and slide chain. Related with these basic units is the production equipment such as switchers, monitors, transmitters (including micro-wave link to KOAC-TV and KOAP-TV), amplifiers, microphones, and lights. The Division has the responsibility for equipment housed in the various satellite facilities throughout the campus.

Distribution Equipment. Of particular importance to the functions of the Division is the development of the means of distribution for materials originated in the studio. Twenty-six classrooms are wired for television service, and these will accommodate a total of 1,315 students. In addition, thirty-four dormitory dining areas are wired to accommodate a total of 2,700 students. Through PL-3, a cable inter-connects all off-campus living units, including Westmoreland and Amazon Student Housing. PL-3 serves 28,000 homes in the Eugene-Springfield area.

In addition to the television equipment, the Division also operates Station KWAX-FM, a 400-watt station on the air noon to midnight, Mondays through Saturdays, and 4:00 p.m. to midnight on Sundays.

Video-Tape Library. One of the most important functions of the Division is to act as a resource for the acquisition and development of television materials suitable for classroom instruction and cultural enrichment.

The Division is equipped to record off-the-air signals of all major networks and stations. The decision to record is made on the basis of requests by faculty or by the decision of the Program Director for PL-3.

A second source of programs which are included in the library are those which are recorded by the instructor and retained for future use. Typical of these are special lectures and laboratory demonstrations.

The Center for Media Research

The Center for Media Research, established within The Division of Broadcast Services in 1965, offers the university student the opportunity to gain first-hand professional experience in the methods and implications of research in the broadcasting field.

Activities of the Center are concentrated in three major areas:

(1) **Research Training.** In the decade of the 1970s, the entire broadcasting industry is faced with a need for personnel qualified to perform significant research tasks within the industry. Recent FCC rulings demanding radio and television stations conduct audience-analysis research for station license renewal compound these needs. Moreover, the increased sophistication of media buying trends in multi-station markets (cable television included) necessitates personnel highly skilled in market research functions.

(2) **Conducting Research.** Students and staff associated with the Center design and institute research into economic, social, political, and cultural impact of the broadcast media. Such studies may comprise long-term, theoretically oriented investigations of the ways in which different segments of the radio-TV audience use the media, and the influence of their media exposure on attitudes and behavior in a variety of social contexts.

(3) **Service to the University and Broadcast Industry.** The Center furnishes the University and professional broadcaster with a research service which complements the facilities of commercial research organizations; such studies may include image studies of the media and of individual stations; patterns of listening and viewing habits; studies of broadcast audiences; and values derived from broadcast exposure by various audiences.

The Instructional Television Unit

Televised instruction has been used by Higher Education since the early fifties as a means of extending limited resources to large numbers of students. It also has been used as an effective tool in research and administration.

The Televised Instruction Unit, organized within the Division of Broadcast Services in 1972, offers faculty, staff, and students an opportunity to use television as a teaching, research, and administrative tool.

The staff of the Televised Instruction Unit will offer experienced assistance in the preparation, development, and production of programs sponsored by any of the University departments, city and county agencies, and local school districts.

The services and facilities offered are:

(1) **Classroom Television.** Professional consultation will be given for in-class uses of television in such areas as live demonstrations, and techniques of skill developments. Assistance in procuring equipment will be provided.

(2) **Studio Productions.** When appropriate, a single program or a program series involving faculty and a given curriculum may be produced either live or on video tape. The program may be broadcast at the time of production or played back at a regularly scheduled class period.

(3) **Remote Broadcasts.** To a limited extent, it will be possible to video-tape material and events which cannot be brought into the Villard Hall studios. These tapes may then be played back to classes over PL-3.

(4) **Video-Tapes.** Relevant programs broadcast by other channels may be video-taped and re-run later at times more convenient to the instructor and class.

(5) Presentations of Experiments. Complex and expensive experiments may be video-taped or filmed once, and then replayed any number of times to one class or several classes.

(6) Professional Dialogue. Panels of professors may discuss a problem related to a specific course, to be re-broadcast upon request. This allows the presentation of differing points of view to enrich course materials.

(7) Re-Runs. Films or video tapes shown in class may be re-run on PL-3 for the benefit of students absent when the first presentation was made. The opportunity for a second or third viewing for many students increases the educational value of the video materials.

(8) Micro-Teaching. Faculty and graduate teaching fellows wanting to evaluate their own teaching performance may request that the Televised Instruction Unit video record one of their classroom lectures for later analysis in a private viewing studio.

(9) Advising. Faculty may record presentations dealing with academic advising requirements for their respective departments for use by students upon request.

The activities of the Division are funded in the general budget of the University as well as with grants from the Corporation for Public Broadcasting, the TelePrompTer Corporation of Oregon, the ASUO, and the Station Support Program of voluntary giving administered through the Development Fund. There is no direct charge for most of the services provided. PL-3 and Radio Station KWAX-FM each publish a regular program schedule, which may be obtained free of charge upon request.

Research Institutes

Several interdisciplinary institutes administered through the Graduate School provide opportunities for graduate training and research in addition to those offered by schools and departments. Institute staff members hold joint appointments in related teaching departments. Graduate students who intend to do thesis research work in one of the institutes must also satisfy the graduate degree requirements of the related department through which they will receive their degree.

Students who want to work in any of these fields may obtain detailed information concerning the programs and available financial aid from the institute directors.

Institute of Molecular Biology

Director, Peter H. von Hippel, Ph.D., Professor of Chemistry.

Sidney A. Bernhard, Ph.D., Professor of Chemistry.

O. Hayes Griffith, Ph.D., Professor of Chemistry.

Brian W. Matthews, Ph.D., Professor of Physics.

Aaron Novick, Ph.D., Professor of Biology.

William T. Simpson, Ph.D., Professor of Chemistry.

Franklin W. Stahl, Ph.D., Professor of Biology.

George Streisinger, Ph.D., Professor of Biology.

Associates

Frederick Dahlquist, Ph.D., Assistant Professor of Chemistry.

Edward Herbert, Ph.D., Professor of Chemistry.

Ira Herskowitz, Ph.D., Assistant Professor of Biology.

John A. Schellman, Ph.D., Professor of Chemistry.

William R. Sistro, Ph.D., Professor of Biology.

Raymond G. Wolfe, Ph.D., Professor of Chemistry.

THE Institute of Molecular Biology offers the facilities, support, and research guidance necessary for investigations of biological problems at the molecular level. The approach is interdisciplinary, with the techniques of biology, chemistry, and physics all being brought to bear as appropriate. Problems under active investigation include: spectroscopic studies of compounds of biological interest, determinations of the three-dimensional atomic structures of proteins and nucleic acids, the role of solvent in determining macromolecular structure and stability, mechanisms of enzyme catalysis, membrane structure and function, protein-nucleic acid interactions, mechanisms and regulation of protein and nucleic acid synthesis, the molecular basis of mutation and recombination, and the molecular basis of genetic expression.

Staff members hold joint appointments in the science departments at the University. Research scientists are encouraged to visit the institute for varying periods. Graduate awards are given by the institute and fellowships from the National Institutes of Health are administered under the program.

Institute of Theoretical Science

Director, Gerald D. Mahan, Ph.D. Associate Professor of Physics.

Paul L. Csonka, Ph.D., Associate Professor of Physics.

Russell J. Donnelly, Ph.D., Professor of Physics.

Marvin D. Girardeau, Jr., Ph.D., Professor of Physics.

Amit Goswami, Ph.D., Associate Professor of Physics.

Rudolph C. Hwa, Ph.D., Associate Professor of Physics.

Robert M. Mazo, Ph.D., Professor of Chemistry.

Michael J. Moravcsik, Ph.D., Professor of Physics.

Michael R. Philpott, Ph.D., Associate Professor of Chemistry.

Robert L. Zimmerman, Ph.D., Associate Professor of Physics.

Associates

Richard B. Barrar, Ph.D., Professor of Mathematics.

Robert S. Freeman, Ph.D., Associate Professor of Mathematics.

Joel W. McClure, Ph.D., Professor of Physics.

John L. Powell, Ph.D., Professor of Physics.

William T. Simpson, Ph.D., Professor of Chemistry.

Gregory H. Wannier, Ph.D., Professor of Physics.

THE Institute of Theoretical Science provides a center for interdisciplinary research in overlapping areas of theoretical physics, theoretical chemistry, and mathematics.

Current research is centered in the areas of statistical mechanics, chemical physics, theory of solids and liquids, nuclear theory, elementary particle theory, and applied and applicable mathematics.

Graduate students with adequate preparation in one of the science departments may elect thesis research in the Institute. The Institute also sponsors postdoctoral research associateships and visiting professorships.

Institute of Marine Biology

Director, Paul P. Rudy, Ph.D., Associate Professor of Biology.

Assistant Director, Robert C. Terwilliger, Ph.D., Assistant Professor of Biology.

Associates

Bayard H. McConnaughey, Ph.D., Associate Professor of Biology

George H. Dersham, Ph.D., Acting Assistant Professor of Biology.

Peter W. Frank, Ph.D., Professor of Biology.

THE Institute of Marine Biology is situated on about 85 acres of property along Coos Bay at Coos Head, on the Oregon Coast. The many different marine environments in that area provide the institute with an ideal situation for the study of marine organisms. The institute offers a full program of summer study, and facilities for individual research are available throughout the year. The training deals principally with living marine organisms and is a strong complement to the work of a traditional campus course. Advanced students may undertake specialized work or research on an individual basis.

Current research is centered in the areas of the physiology of salt and water balance, biochemistry of respiratory pigments, and marine ecology. Each spring, the Institute offers a multi-disciplined course for undergraduates entitled *Man and the Oregon Coast*. The course is fully described on page 69.

Institute for Community Studies

Roland J. Pellegrin, Ph.D., Director of Institute for Community Studies; Professor of Sociology. Resigned, June 1973.

Max G. Abbott, Ph.D., Director, Center for the Advanced Study of Educational Administration; Professor of Education.

Walter T. Martin, Ph.D., Director, Center for Ecological Studies; Professor of Sociology.

Philip K. Piele, Ph.D., Director, Clearinghouse on Educational Management; Associate Professor of Education.

THE Institute for Community Studies conducts and encourages research in the behavioral and social sciences, education, and related areas. Most projects carried on under the auspices of the institute have a community orientation, focusing on the structure and functioning of the community as a social and political system. Emphasis is on the policy-formulation processes in the economy, government, education, and other institutional areas of the community.

The institute provides facilities for individual research by members of the faculty and for cooperative projects, together with opportunities for continuing communication, criticism, and reports of progress by participating scholars. It also provides research training for graduate students in connection with institute projects, with emphasis on the development of specific research designs as a basis for graduate dissertations.

The Center for the Advanced Study of Educational Administration (CASEA), a division of the institute, was established in 1964 with funds granted by the Research and Development Center Program of the United States Office of Education. The program of the center is concerned with the organizational and administrative implications of instructional changes in elementary and secondary schools.

The ERIC Clearinghouse on Educational Management, under contract with the National Institute of Education of the United States Department of Health, Education, and Welfare, was established at the University of Oregon in 1966. The Clearinghouse and its nineteen companion units located across the country is part of ERIC's (Educational Resources Information Center) nation-wide network of information processing and analysis centers. Besides processing documents and journal articles for announcement in ERIC's index and abstract catalogs (*Research in Education* and *Current Index to Journals in Education*), the Clearinghouse prepares bibliographies, literature reviews, state-of-the-knowledge papers, and other interpretive research studies on topics related to educational planning, management, and facilities.

The Center for Ecological Studies was established in 1967 in order to conduct research on ecological and demographic factors in social organization.

As divisions of the institute, centers draw upon the services of staff members and graduate students in the behavioral sciences and in the field of education.

Institute of Industrial and Labor Relations

Director, Eaton H. Conant, Ph.D., Professor of Management.

Peter Feuille, Ph.D., Assistant Professor of Management.

James L. Koch, Ph.D., Assistant Professor of Management.

THE Institute of Industrial and Labor Relations, University of Oregon, offers an integrated, multi-disciplinary program leading to a master degree in Industrial Relations. In close consultation with faculty advisers, students elect an integrated program with a choice of courses in economics, management, political science, sociology, and other disciplines listed below.

The program leads to the M.S. or M.A. degree, and requires 45 credit hours of work with thesis in courses approved by the Institute, or 54 hours of work without thesis. The program must cover at least three disciplines and must provide for at least 18 hours of work in one of the disciplines. At least 15 hours of the 45 or 54 must be in courses numbered 500 or higher, and of these 15, at least 6 must be in seminars.

The prerequisites for the program are a bachelor degree and 27 credit hours of prior work in the disciplines represented in the graduate program. The Institute may require that applicants submit Graduate Record Examination scores or a comparable objective test with a score satisfactory to the Institute. Applicants will be specifically notified when examination scores are needed.

The program prepares students for careers in government, or management, or with trade unions. Fields of concentration may include: unions, management, and labor relations policy; manpower utilization and development; organizational studies and human resource management.

A primary program objective is the development of integrative appreciations of human resources in advanced industrial society—from the adversary perspective of management and unions, from the economics and behavioral sciences perspectives, and from the institutional perspective of public policy and national welfare. Basic courses for each area of concentration will generally include collective bargaining, labor economics, and human resources management, plus appropriate work in supporting social sciences.

It is also a program objective to provide students with opportunities to perform research or to intern with public or private institutions concerned with labor and manpower problems. The Institute offers a number of research assistantships. The Institute also attempts to arrange work-study and internship programs so students can participate in industrial relations and manpower activities complementary to their academic studies. Students are admitted to the program at the beginning of any of the four terms of the year.

The following University courses are especially relevant to the graduate program in Industrial and Labor Relations:

Economics: Regional and Urban Economics (Ec 414, 415, 416); Economics of the Northwest (Ec 418); Labor Economics (Ec 444); Organized Labor (Ec 445); Labor Legislation (Ec 446); Economic Development (Ec 457, 458); Industrial Organization and Public Policy (Ec 460, 461, 462); History of Economic Thought (Ec 470, 471, 472); American Economic History (Ec 487, 488, 489); Development of Industrial Economics (Ec 490, 491, 492); Labor Economics (Ec 507); Manpower Economics (Ec 507); Regional and Urban Economics (Ec 507); Welfare Economics (Ec 407/507).

Education: Educational and Vocational Guidance (Coun 488); Counseling and Black Americans (Coun 407); Career Development (Coun 407).

History: American Economic History (Hst 487, 488, 489).

Journalism: Institutional Communication (J 407); Principles of Public Relations (J 459); Public Relations Problems (J 483); Journalism and Public Opinion (J 494).

Law: Law: Its Processes and Foundations (L 430); Labor Law (L 476); Labor Law Seminar (L 507).

Political Science: Administrative Organization Behavior (PE 412, 413); Public Opinion and Political Participation (PS 452, 453, 454); Democratic Institutions (PS 456); Political Behavior (PS 470); Allocation of Justice (PS 483); Federal Welfare Policy (PS 495); Urban Problems (PS 507); Multi-Ethnic Studies (PS 507); Policy Analysis (PS 507); Policy of Social Conflict (PS 507).

Management: Industrial Relations and Public Policy (Mgt 407/507); Human Resource Management (Mgt 412); Wage and Salary Compensation (Mgt 413/507); Problems in Human Resource Management (Mgt 414/507); Industrial Work Group (Mgt 533); Human Resource Administration (Mgt 534); Human Resource Psychology (Mgt 535); Organizational Change and Conflict (Mgt 536); Theory of Business Organization (Mgt 541, 542); Manpower and Public Policy (Mgt 507); Collective Bargaining (Mgt 507).

Sociology: Theory of Small Groups (Soc 430); Group Dynamics (Soc 431); Urbanization and City (Soc 442); Sociology of Race Relations (Soc 445); Sociology of Work (Soc 446); Industrial Sociology (Soc 447); Social Stratification (Soc 451); Sexism and Racism (Soc 507); Economic Development (Soc 507); Role Theory and Research (Soc 507); Urban Problems (Soc 507); Changing Organization (Soc 507); Theory of Organization (Soc 541).

Psychology: Psychology of Work (Psy 454); Social Psychology (Psy 456, 457); Social Psychology (Psy 517).

Interdisciplinary Studies: Research (ISt 501); Readings in Industrial Relations (ISt 507); Seminar in Industrial Relations (Soc 507).

Research Skills: Seminar in Nonparametric Statistics (QM 507); Seminar in Applied Analysis of Variance (QM 507); Seminar in Sampling Techniques (QM 407); Nonparametric Statistics (Soc 507); Statistics and Quantitative Methods (Psy 511, 512, 513); Econometrics (Ec 493, 494, 495).

The Institute of Industrial and Labor Relations provides advice and assistance to doctoral candidates who are interested in work in industrial relations as a minor field or as a supplement to their major program.

Center for Environmental Studies

THE primary purpose of the Environmental Studies Center is to coordinate information and activities pertaining

to environmental problems and their solutions. Emphasis is placed on the breakdown of traditional boundaries. The Center believes that significant studies of environmental problems require the merging of disciplines long kept separate; that significant solutions require the cooperation of groups of people ordinarily isolated or opposed to one another. The Center seeks the means to bring these disciplines and groups together in Eugene—to stimulate and aid the intensive investigations which must precede desirable and necessary change, to encourage the diverse communications required to effect such change.

At present, the Environmental Studies Center lacks the budget and staff necessary to progress very far toward these goals. Its limited ongoing activities include sponsoring occasional university seminars, community forums, and films. It maintains files on environmental courses offered at the University, other universities which offer environmental studies degree programs, employment information, sources of research funding, internships and other special study opportunities, groups and agencies involved in environmental issues, individuals interested in working on specific problems, and various local, national, and international environmental events. As time permits, the Center will assist in providing innovative environmental education experiences for University of Oregon students.

The main resource the Center currently offers the University is a small, but uniquely pertinent library in Prince Lucient Campbell Hall. Books, pamphlets, periodicals, and news items are gathered from as many different disciplines and points of view as possible, allowing a multifaceted understanding of the complexity and interrelationships of environmental problems. The library includes bibliographies, media guides, and information on other University library collections.

Center for the Advanced Study of Educational Administration

Director, Max G. Abbott, Ph.D.

THE programs which collectively are called the Center for the Advanced Study of Educational Administration (CASEA) are funded largely through separate contracts with the National Institute of Education. Together, CASEA's research and development activities concentrate on organizational and administrative problems in schools. The Center's objective, since it was established on the University of Oregon campus in 1964, has been to help administrators and other school people discover ways of implementing the emerging and most promising practices and products.

The various programs in CASEA direct their activities to four major areas: research, development, training, and dissemination. To this end, the programs conduct research on organizational change and design and test models, instructional materials and procedures for schools and school people. Research assistants work closely with

members of the professional staff in investigation and study, data collection, and related activities. Through a central information unit, the programs share findings and implications of their research and development activities with members of the educational community.

Within this collective structure, the five CASEA programs investigate the following areas:

The Responsiveness of Public Schools to Their Clientele

After producing a review of the responsiveness of public school institutions to their clientele and an inventory of their theoretical propositions, this program is developing several formal models of "responsive" school systems and describing alternative patterns of educational reform and what to expect from such reforms under a wide variety of conditions. Program Director: L. Harmon Zeigler.

Management Implications of Team Teaching

MITT is designed to follow the efforts of a sample of 20 elementary schools as they attempt to implement and operate team teaching. Instruments are being developed to measure the salient characteristics of team teaching and the control structure of the school and finally, the consequences of team teaching and the variables which predict its emergence. Program Director: John S. Packard.

Strategies of Organizational Change

This program extends more than four years of work in organizational development (OD), a system for self-renewal by which school people can learn to solve their own problems by improving sub-organizational processes. Previous research and complementary investigation are being combined to find ways for parents, students and other members of the educational community to influence what goes on in schools. Program Director: Richard A. Schmuck.

Management Utilizing Staff Training

MUST is designed to produce, test and disseminate integrated sets of instructional materials designed to provide school people with the knowledge and skills necessary to cope with specific instructional problems. Present research products include the prototype of Ernstspiel, a self-instructional kit to improve communication and foster task-group development and the formulative work on a planning kit, featuring Ariole, a framework for goal setting. Program Director: Francis C. Thiemann.

PPBS in Schools—Organizational and Client Consequences

This program is determining the consequences, with respect to both organizational variables and client (student) interest, of implementing systematic program planning and budgeting systems (PPBS) in schools. SPECS, a version of PPBS developed at CASEA between 1969 and 1972 and now being disseminated by General Learning Corporation, is the form of PPBS which this program is implementing and studying. Program Director: John M. Nagle.

CASEA publishes a monograph and technical report series, other special reports and a newsletter, *R & D Perspectives*. Further inquiries about these publications or the Center's programs and products may be directed to the CASEA Editor's Office, 1472 Kincaid, Eugene, Oregon 97401 (503-686-5074).

Members of CASEA: Max G. Abbott, Carla Borkosky, Richard O. Carlson, W. W. Charters, Jr., Terry L. Ei-

dell, John E. Jones, Robert L. Hammond, James F. McNamara, John M. Nagle, John S. Packard, Lawrence C. Pierce, Philip J. Runkel, Richard A. Schmuck, Francis C. Thiemann, Harry F. Wolcott, L. Harmon Zeigler.

Bureau of Governmental Research and Service

Director, Kenneth C. Tollenaar, M.A.
 Associate Director, Donald N. Johnson, B.A.
 Herman Kehrli, M.A., Director Emeritus.
 Judy M. Carlson, B.S., Research Assistant.
 Robert E. Keith, M.Arch., Planning Consultant.
 James M. Mattis, J.D., Legal Consultant.
 J. David Rowe, B.A., Planning Consultant.
 Karen M. Seidel, B.A., Planning Assistant.
 Shirley F. Swenson, M.A., Researcher.
 Arnold M. Westling, B.S., Planning and Public Works Consultant.

THE Bureau of Governmental Research and Service is a public service program of the University, established and maintained especially to serve Oregon state and local governments, as well as citizens, students, scholars, organizations, news media, and other individuals and agencies interested or involved in state and local government affairs.

The subject matter fields in which the Bureau conducts its programs include public finance, public law, public administration, planning, and public works. The Bureau conducts studies of state and local government policy problems; compiles and disseminates data and background information on state and local government programs; provides consultation to local governments, state agencies, citizen groups, and other interested persons or agencies; sponsors training conferences and participates in training sessions or meetings sponsored by others; and undertakes special service activities at the request of specific government agencies on a cost-reimbursable basis.

In addition to carrying on research, consultation, training, and service activities for state and local governments, Bureau staff members teach courses in the CSPA Division of Public Affairs and International Development, and in the Department of Urban Planning of the School of Architecture and Allied Arts. Students enrolled in the Interdisciplinary Master Program in Public Affairs may take CSPA 501, a course in research conducted by the Bureau which provides a combination of informal instruction and experience in public-affairs research.

E. C. Brown Center for Family Studies

Director, Theodore B. Johannis, Jr.
 Coordinator, Information and Publications, Joyce G. Lang
 Michael E. Pajot

THE E. C. Brown Center for Family Studies, established in 1968, is largely funded by the E. C. Brown Foundation of Portland. The Center provides an interdisciplinary research and study opportunity for University of Oregon students seeking professionalism in the areas of human sexuality, or male-female relationships emphasizing marriage, the family, occupation, and leisure.

An extensive resource facility provided by the Foundation is maintained at the Center. The resources include recent texts, readers, and other professional books on the family, marriage, and human sexuality. Research reports, family-life education curriculum guides, professional journals, and reports and newsletters from state and national research and professional organizations are available. The facility is open to all UO students and faculty as well as to interested professionals and others in the larger community.

Effective evaluation of innovative family-life education programs at public school and community levels is one of the prime continuing projects of the Center.

The Foundation's bimonthly publication, *Focus on the Family*, circulated nationally to over 2,500 students and family-oriented professionals, is produced and distributed through Center facilities.

The Center's UO affiliation is through the Wallace School of Community Service and Public Affairs. The Center is located at 1802 Moss Street.

Computing Center

Director, George W. Struble, Ph.D.
 Gus P. Pusateri, B.S., Administrative Officer.
 Toshiro Katsura, Machine Operations Manager.
 G. P. Ashby, M.B.A., Systems Programmer Supervisor.
 N. L. Beck, M.S., Systems Development Programmer.
 G. Fredric Beisse, M.A., Users Services Director.
 William R. Ekstrand, B.A., Research Assistant.
 Robert L. Heilman, M.A., Systems Programmer.
 Richard W. Haller, Ph.D., Senior Research Consultant.
 Joanne A. Hugi, M.S., Research Assistant.
 Richard M. Millhollin, B.S., Research Consultant.
 Robert L. Moore, M.S., Research Consultant.
 David B. Ulrich, B.A., Programmer Analyst.

The Computing Center provides computing facilities and services for the University, serving instructional, research, and administrative needs. Facilities include an IBM system 360/50H, used for batch processing, and a PDP-10/50 computer, used primarily for time-sharing, with peripheral data processing equipment. Programming systems and languages available include Fortran, WAT-FIV, PL/1, COBOL, BASIC, Assemblers for 360 and PDP/10, SIMSCRIPT, GPSS, SPSS, BMD, LISP, SNOBOL, and ALGOL. A documents room includes a library of manuals and documentation on programs and equipment. Applied programming and card punching services are available, and the staff provides consulting assistance and tutorials on elementary and advanced topics concerning the use of computers.



Graduate School

Dean, Aaron Novick, Ph.D.

Assistant Dean, Calvin W. Fisk, B.S.

Administrative Officer, Frederick S. Wilhelm, M.S.

Assistant Dean for Program Development, Joanne Kitchel, B.A.

Graduate Council

Chairman, Robert S. Harris; Fred C. Andrews, Lloyd L. Lovell, Gene E. Martin, Francis J. Reithel, Vernon S. Sprague, Elizabeth Findly, Earl Pomeroy.

THE primary objectives of graduate education are the development of the student's capacity to make significant contributions to knowledge, and of creative achievement in the advancement and extension of knowledge. Hence, a graduate degree indicates more than the mere completion of a prescribed amount of study; it signifies the attainment of a high level of expertise in a given academic or professional field and a mastery of the investigative techniques by the scholar.

The graduate curriculum at the University of Oregon allows considerable flexibility. All study beyond the bachelor degree, except for professional study in law, medicine, and dentistry, is administered through the Graduate School. The formulation of graduate programs is the responsibility of the instructional department; subject, however, to the general rules and requirements of the Graduate School. Individual graduate student programs are developed in consultation with advisers, subject to departmental and Graduate School requirements.

Advanced Degrees

The University of Oregon offers through the Graduate School work leading to advanced degrees in the liberal

3 Graduate Studies

Graduate School

Graduate Council

Advanced Degrees

General Regulations

Degree Requirements for
Master of Arts, Master
of Science

Interdisciplinary Master Programs

Doctor of Philosophy

Doctor of Education

Doctor of Musical Arts

Fellowships

Graduate Work in Portland

Outline of Procedure Leading to
Doctoral Degrees

arts and sciences, and in the professional fields of architecture and allied arts, business administration, dental sciences (at the Dental School in Portland), education, health, physical education, and recreation, journalism, library science, medical sciences (at the Medical School in Portland), music, and nursing (at the School of Nursing in Portland). The advanced degrees granted are listed below with the departments offering programs of study leading to these degrees.

The requirements for the majority of these degrees appear in the departmental sections of this catalog. General requirements appear in the following pages.

College of Liberal Arts.

Anthropology: M.A., M.S., Ph.D.; Biology: M.A., M.S., Ph.D.; Chemistry: M.A., M.S., Ph.D.; Classics: M.A.; Comparative Literature: M.A., Ph.D.; Computer Science: M.A., M.S.; Economics: M.A., M.S., Ph.D.; English: M.A., M.F.A., D.A., Ph.D.; Geography: M.A., M.S., Ph.D.; Geology: M.A., M.S., Ph.D.; Germanic Languages: M.A., Ph.D.; History: M.A., Ph.D.; Mathematics: M.A., M.S., Ph.D.; Philosophy: M.A., Ph.D.; Physics: M.A., M.S., Ph.D.; Political Science: M.A., M.S., Ph.D.; Psychology: M.A., M.S., Ph.D.; Romance Languages: M.A., Ph.D.; Russian: M.A.; Sociology: M.A., M.S., Ph.D.; Speech: M.A., M.S., M.F.A., Ph.D.

School of Architecture and Allied Arts.

Architecture: M.Arch.; Art Education: M.A., M.S.; Art History: M.A., Ph.D.; Fine and Applied Arts: M.A., M.S., M.F.A.; Landscape Architecture: M.L.A.; Urban Planning: M.U.P.

College of Business Administration.

Accounting and Quantitative Methods: M.A., M.S., M.B.A., Ph.D.; Finance and Business Economics: M.A., M.S., M.B.A., Ph.D.; Marketing, Transportation, and Business Environment: M.A., M.S., M.B.A., Ph.D.; Management: M.A., M.S., M.B.A., Ph.D.

College of Education.

Counseling: M.A., M.S., M.Ed., D.Ed., Ph.D.; Curriculum and Instruction: M.A., M.S., M.Ed., D.Ed., Ph.D.; Educational Administration: D.Ed., Ph.D.; Educational Foundations: D.Ed., Ph.D.; Educational Psychology: M.A., M.S., M.Ed., D.Ed., Ph.D.; Higher Education: D.Ed., Ph.D.; Special Education: M.A., M.S., M.Ed., D.Ed., Ph.D.

School of Community Service and Public Affairs.

International Studies: M.A., M.S.; Public Affairs: M.A., M.S.

College of Health, Physical Education, and Recreation.

Health Education: M.A., M.S., D.Ed., Ph.D.; Physical Education: M.A., M.S., D.Ed., Ph.D.; Recreation and Park Management: M.A., M.S., D.Ed., Ph.D.

School of Journalism.

Journalism: M.A., M.S.

School of Librarianship.

Library Science: M.L.S.

School of Music.

Music: M.A., M.Mus., D.M.A.

Interdisciplinary Studies.

Asian Studies: M.A., M.S.; Dance: M.A., M.S.; Industrial and Labor Relations: M.A., M.S.; Juvenile Correction: M.A., M.S.; Linguistics: M.A., M.S.; Teaching: M.A., M.S.

Dental School.

Dental Surgery: D.D.S.; Dental Sciences: M.S.

Medical School.

Medicine: M.D.; Medical Sciences: M.S., Ph.D.

School of Nursing.

Nursing: M.S., M.N.

General Regulations

Students wanting to earn a graduate degree at the University must be admitted to the Graduate School in accordance with the procedures described below.

Admission to the Graduate School. To be admitted to the Graduate School for the purpose of seeking an advanced degree, a student must be a graduate of an accredited four-year college or university and must also be accepted by the professional school or major department in which he or she proposes to study. (Students from unaccredited institutions or from those which offer the equivalent of baccalaureate instruction but not the degree itself may be admitted under special procedures if they are accepted by a school or department.) This acceptance is subject to the approval of the dean of the Graduate School. The schools and departments of the University determine their own specific requirements for graduate admission, with which the student should become familiar before applying. Initial admission may be either **CONDITIONAL** or **FULL**. If a student who has been conditionally admitted has not been granted full admission after the completion of 36 credit hours of graduate course work, the Graduate School will inquire of his or her school or department as to the reason and recommend that a decision on the student's status be made as soon as possible.

Former University of Oregon students must be formally admitted to the Graduate School in the same way as students from other colleges and universities. Students who have been formally admitted to the Graduate School and who want to change their major must be accepted by the new department, which is accomplished by filing a "Change of Major" form and any official documents the department may require.

Students not previously enrolled at the University of Oregon, are required to pay a \$10.00 admission application fee at the time of applying for admission.

Applicants should address inquiries concerning graduate admission to the department or school in which they plan to study, not to the Graduate School or the Office of Admissions.

Documents Supporting Application. An applicant for admission to the Graduate School must submit an application on an official University form, and transcripts of previous college work. The first copy of this form and an official transcript from the college or university from which he or she received either a bachelor degree or a

subsequent advanced degree must be sent to the Office of Admissions, University of Oregon, Eugene, Oregon 97403. The remaining copies of the form, and an official transcript of all previous college work, both undergraduate and graduate, must be sent to the department or professional school of the University in which the student wants to study. At the option of the school or department, the student may also be required to furnish such additional material as transcripts of test scores (Graduate Record Examination, Miller Analogies, etc.), evidence of foreign language proficiency, and letters of reference. The applicant should ascertain from the school or department what additional material, if any, is expected.

Admission to the University for Post-Baccalaureate Study. An Oregon resident who holds a bachelor degree or its equivalent and who wishes (1) to earn another undergraduate degree or (2) to take additional undergraduate or graduate work for professional or cultural reasons, without entering a degree or certification program, must submit all copies of the official application form and an official transcript from the college or university from which he or she received either a bachelor degree or a subsequent advanced degree to the Office of Admissions, University of Oregon, Eugene, Oregon 97403.

Admission to post-baccalaureate status is limited to Oregon residents, and will be granted only for one academic year. A satisfactory record is a factor in determining re-enrollment privileges for more than an academic year. Graduate credits earned by post-baccalaureate students are so recorded on these students' transcripts by the Registrar's Office, but may not be applied toward an advanced degree at the University of Oregon. Post-baccalaureate status may not be used to gain entry to Graduate School programs.

Continuous Enrollment. Students who have been admitted to the Graduate School to work toward an advanced degree or to pursue a specific program of graduate course work with a nondegree objective (certificate, credential) must enroll continuously in the University from the time they first register until they have completed all requirements for a degree or other program. (Registration in extension courses taken in the Division of Continuing Education does not satisfy the continuous enrollment requirement.)

In any term in which students are making use of University services or facilities, they must enroll for a minimum of 3 credit hours of graduate course work and pay the appropriate fees. Ordinarily students are expected to take this work in residence, but they may register by proxy for course work to be taken *in absentia*, when, for example, they are living elsewhere while writing a thesis or dissertation and sending chapters of it to an adviser for criticism. (Proxy and on-leave registration will be permitted only during the normal registration period for the term in question, and must be completed by the date indicated in the catalog as the last day to register for that term.)

If students interrupt their program of graduate study for one or more terms (excluding summer term), they must register for on-leave status to insure that a place will be kept open for them by the Graduate School and their school or department until they return. When students register for on-leave status, they are not required to pay

fees, but they are not permitted to place any demands on University staff or facilities. If a student fails to register for on-leave status, it will be assumed that he or she has decided to discontinue the graduate program, and Graduate School standing will be cancelled. In this event, if they should later want to return, they must apply for permission to re-register in the Graduate School, and be subject to quota limitations in effect for the term requested.

Because the Graduate School is subject to an enrollment limitation, on-leave status is granted for a stated period of time, but may not exceed one calendar year. If the student's request for on-leave status is denied, he or she must file a *Permission to Re-register* form for the term planned for return. Students who are able to pursue their master-degree work only in the summer term must apply for leave status for each ensuing school year; they may request extensions of leave up to but not beyond the seven-year limitation on credit earned toward a master degree. An application for on-leave status, endorsed by the major department or professional school, must be received by the Graduate School not later than the last day to register for classes in that term as stated in the annual *Time Schedule of Classes*.

Students may not apply for on-leave status unless they are graduate students in good standing in the school or department to which they have been admitted. Leave status is not applicable to post-baccalaureate students.

If students have completed all degree requirements, including the final oral presentation, but so late in the term that a degree cannot be awarded until the following term, they need not register for further course work to qualify for the degree; but they must register for on-leave status in the term when they expect the degree to be awarded.

Reservation of Graduate Credit. Superior students who have taken graduate seminars and courses during their senior year at the University of Oregon in excess of all baccalaureate-degree requirements may petition to apply the credit earned toward a master degree. Such graduate credit may be earned for graded courses in which either an A or B was recorded, or for nongraded courses for which the student may present the instructor's evaluation stating that the work was of graduate quality, and the approval of the major department. A *Transfer of Baccalaureate Credit* form, available in the office of the Graduate School, must be filed not later than two terms after matriculation to a master-degree program, and not later than two years after receipt of the baccalaureate degree. Such transfer of credit is limited to a maximum of 9 credit hours, and is limited to courses and seminars carrying graduate credit. Credit hours in research, thesis, reading and conference, practicums, and workshops do not qualify for transfer. Graded credit hours accepted for transfer under this provision will count in meeting the requirement of 24 hours of graded credit.

Course Registration Requirements. All graduate students using campus facilities or studying under the supervision of a member of the faculty are required to register for a minimum of 3 credit hours of graduate course work. This rule applies also to students taking comprehensive or final examinations, or presenting recitals or terminal projects for advanced degrees. If all requirements, including examinations, have been met in the term before that in which the degree is awarded, the student may

register only for on-leave status, and need not pay any fees.

Students working for a master degree with thesis are required to register for a minimum of 9 credit hours in Thesis (503) before completing the program for the degree. Students working for a Ph.D. or for a professional doctorate are required to register for a minimum of 18 credit hours in Thesis before completing the program for the degree. With school or department approval, up to 3 of the 9 hours of thesis required for the master degree, and up to 6 of the 18 required for the doctorate may be in Research (501) instead.

Graduate students holding half-time teaching or research appointments are required to enroll in a minimum of 6 credit hours of graduate course work; students holding three-tenths appointments must enroll in a minimum of 9 credit hours.

A student holding a half-time graduate teaching or research appointment may register for a maximum of 10 graduate-credit hours in any one term of the academic year; a student holding a three-tenths graduate teaching or research appointment may register for a maximum of 12.

Students who do not hold graduate teaching or research appointments are not limited in the number of graduate-credit hours for which they may register in a term of the academic year, except as they may be affected by the regulations under residence requirement for the master degree. There is, however, a surcharge of \$20.00 per credit hour for all hours in excess of 16 in any term, including the summer term. In the summer term, the 16-hour maximum covers the total number of credit hours earned by a student in either the eight-week or the eleven-week session, as well as any earned in pre- or post-session workshops.

(Faculty and staff members wanting to take graduate courses should refer to the University's *Administrative Manual* for information about maximum hours and permission to enroll. Persons holding faculty rank may not pursue studies toward an advanced degree in the same department in which they are employed; faculty members must petition the dean of the Graduate School within the first term after admission for permission to seek an advanced degree in a school or department other than the one in which they are currently employed.)

Graduate students and advisers are reminded that various agencies and offices, both on and off campus, have their own course-load requirements. For example, a graduate student who has a loan must register for the number of hours needed to meet the loan agency requirements. The Registrar's Office cannot certify a student for registration except for the hours indicated on an official registration card. The minimum registration requirements of the Graduate School do not affect a student's responsibility to register for the number of hours required by the outside supporting agency.

Grade Requirement. To qualify for an advanced degree, a graduate student is required to earn at least a B grade average in all graduate courses taken in a degree program at the University of Oregon. Of the 45 credit hours the Graduate School requires for a master degree, at least 24 must be in University pass-differentiated graduate

courses. A grade-point average of less than 3.00 at any time during a graduate student's studies, or the accumulation of more than five hours of N grades, regardless of the grade point, is considered unsatisfactory, and may result in disqualification by the dean of the Graduate School after consultation with the student's major department or school. Disqualification means that a student's degree program is terminated by the student being dropped from the Graduate School and from further work in an advanced degree program in that department or school.

Graduate Courses. All courses numbered in the 500s carry graduate credit, as do those in the 400s which have been approved by the Graduate Council. Approved courses in the 400s are designated in this Catalog by (G) or (g) following the course title. Courses designated (G) may form a part of either a major or a minor; courses designated (g) may be taken toward a minor or as graduate service courses, or, in certain circumstances, as part of an interdisciplinary master program. Undergraduate enrollment in the 400 courses designated (G) is generally restricted to seniors; undergraduate enrollment in 400 courses designated (g) is generally restricted to juniors and seniors.

Courses numbered in the 500s and designated (p) represent instruction offered at a level of intellectual maturity suitable for graduate students who have earned a bachelor degree in a field other than their professional field. Such courses carry credit toward a master degree, but this credit may not be counted toward the minimum requirement of 30 credit hours in the major.

Off-Campus Graduate Courses. Graduate students at the University of Oregon may, with the consent of their adviser, take courses carrying graduate credit at any of the other institutions in the Oregon State System of Higher Education. Students register for these courses with the University of Oregon Registrar. Grades are transmitted by the instructor to the University Registrar and recorded on the student's University of Oregon transcript.

Graduate Credit by Examination. A student may petition the dean of the Graduate School for permission to receive graduate credit by examination in areas for which he or she has qualified by experience or independent study, provided these areas are directly equivalent to graduate courses listed by title in the current Catalog of the University of Oregon. The rules governing such credit by examination are as follows:

- (1) The student's petition must be approved by a graduate adviser and the dean or department head of the division-offering the course.
- (2) Arrangements for the examination must be completed at least one month before the date of the examination.
- (3) The student must pay in advance a special examination fee of \$5.00 per credit hour.
- (4) Graduate credit by examination is recorded with a mark of "pass" (P) unless the course in question is listed in the most recent *Time Schedule* as pass-differentiated only. The courses may not count toward the satisfaction of the residence requirement for the master degree.

(5) Credit by examination is not awarded for the following courses: Research, Thesis, Reading and Conference, Workshop, and Practicum (401-410 and 501-510).

(6) Students may not receive graduate credit by examination in courses (a) in which they have previously enrolled and failed at the University of Oregon or elsewhere; or (b) which would substantially duplicate credit already received and which is being applied toward an advanced degree at the University of Oregon.

Tuition, Fees, and Deposits. Regular tuition and fees for graduate students, both residents of Oregon and non-residents, enrolled for a total of 9 to 16 credit hours of work are currently \$251.50 a term or \$754.50 for the three-term academic year. A surcharge of \$20.00 per credit hour is made for all hours in excess of 16. Students holding graduate teaching or research appointments pay reduced tuition and fees, currently \$41.50 a term or \$124.50 for the three-term academic year.

Tuition for less than a full-time program is as follows:

1-2 credit hours	\$ 74.00
3 credit hours	97.50
4 credit hours	121.00
5 credit hours	147.50
6 credit hours	173.50
7 credit hours	200.00
8 credit hours	226.00

All fees are subject to change by the State Board of Higher Education.

Graduate students must make a \$25.00 general deposit once each year at the time of first registration, as a protection to the University against loss of or damage to institutional property.

A new graduate student, who has not been previously enrolled in the University of Oregon, pays a \$10.00 application fee; this fee, which is not refundable, must be sent to the Office of Admissions with the student's application for admission.

A special fee of \$20.00 is paid by all students who are granted doctorates, to cover the cost of reproduction of their dissertation on microfilm.

Degree Requirements for Master of Arts, Master of Science

Credit Requirements. For a master degree, the student must complete an integrated program of study totaling not less than 45 credit hours in courses approved for graduate credit, at least 24 of these hours being in University pass-differentiated graduate courses.

Integration may be achieved either through a departmental major or through a program of interdisciplinary studies. For the master degree with a departmental major, a minimum of two-thirds of the work (30 credit hours) ordinarily must be in the major. A student earning a second master degree in a different field is required to take not less than 30 credit hours in the new major, of which 24 must be in University pass-differentiated (graded) graduate courses. Schools and departments may require more than this minimum in individual cases. Graduate courses graded P may be counted in the 45

credit hours required for a master degree (or in the 30 for a second master), but may not be counted in the required 24 credit hours of University pass-differentiated graduate courses.

Residence Requirement. The minimum residence requirement for the master degree is 30 credit hours of work on the Eugene campus after admission to the graduate program. Master-degree work must extend over a minimum of three terms if the individual has less than 12 hours either of transfer credit or reserved graduate credit or both; or a minimum of two terms if 12 to 15 hours are approved for either for transfer or reserved for graduate credit or both. The residence requirement for the M.F.A. degree in studio arts is two academic years (six terms). The residence requirement for a second master degree is a minimum of two terms of full-time study on the Eugene campus.

Transferred Credit. Credit earned in Graduate level courses at other accredited institutions, or in the Division of Continuing Education of the Oregon State System of Higher Education, may be counted toward the master degree under the following conditions: (1) the total of transferred credit may not exceed 15 credit hours in a 45-hour master-degree program; (2) the courses must be relevant to the degree program as a whole; (3) the transfer must be approved by the student's major department and the Graduate School; (4) the grades earned must be A, B, or P; (5) transferred credit may not be used to meet the requirement of 24 hours of credit in University pass-differentiated graduate courses. Graduate credit is not allowed for correspondence courses. Credit granted for work done at another institution is tentative until validated by work in residence.

Distinction Between the M.A. and M.S. Degrees. For the M.A. degree, the student must show a competence in one foreign language; the level of proficiency and the method of determining that level are decided by the major school or department. There is no language requirement for the M.S. and professional degrees unless specified by the school or department.

Course Requirements. For the M.A. or M.S. degree with a departmental major, at least 9 credit hours in 500-599 courses taken on the University of Oregon campus are required; for the interdisciplinary master degree, at least 6 credit hours in 500-599 courses are required.

Time Limit. All work for a master degree must be completed within a period of seven years. This includes work for which credit is transferred from another institution, thesis, and the final examination.

Examinations. Qualifying and final examinations may be required in any field at the discretion of the department or school. The conduct and content of these examinations are departmental or school responsibilities.

Thesis. In some fields, all candidates for the master degree are required to present a thesis; in others the thesis is optional or not required.

A student who writes a thesis should apply to the major school or department for information on the various steps involved and the standards expected. The student should also call at the Graduate School to obtain a current copy

of the *Style Manual for Theses and Dissertations*, which sets forth the requirements governing format, number of copies required, abstracts, and other regulations. Copies of theses will not be accepted by the Graduate School unless they meet the standards of form and style specified in the *Style Manual*.

Interdisciplinary Master Programs

In addition to specialized graduate work in the traditional fields of learning, the University provides opportunities for integrated interdisciplinary studies leading to the M.A. or M.S. degree—including both programs planned in the light of the individual student's interests and established programs of studies organized and administered through interdepartmental faculty committees.

Graduate students pursuing a program of interdisciplinary studies may supplement courses offered by the several departments and schools with individualized studies, for which they may enroll under the following course numbers:

ISt 501. Research.

Credit hours to be arranged. No-grade course.

ISt 503. Thesis.

Credit hours to be arranged. No-grade course.

ISt 505. Reading and Conference.

Credit hours to be arranged. No-grade course.
Industrial Relations.

ISt 507. Seminar.

Credit hours to be arranged. No-grade course.
Industrial Relations.
Juvenile Correction.
Asian Studies. Grade required for majors.

The established interdisciplinary programs approved by the Graduate Council are listed below. A student interested in one of these programs should direct an inquiry to the program chairman:

Asian Studies, Esther Leong; Juvenile Correction, Kenneth Polk; Industrial and Labor Relations, Eaton H. Conant; Dance, M. Frances Dougherty; Linguistics, Clarence D. Sloat.

The requirements for an M.A. or M.S. degree in interdisciplinary studies are the same as those for the departmental master degree, except those requirements relating to major or minor fields. The program is supervised by the Committee on Interdisciplinary Studies, which functions under the dean of the Graduate School.

Graduate Program for Teachers. A special program of graduate study for students working toward the satisfaction of the Oregon state requirement of a fifth year of college work for the standard secondary teaching certificate is offered as one of the University's programs of interdisciplinary studies. Students must have a reasonable background of undergraduate study in education and in the field in which they propose to work, as evidenced by holding a basic certificate of secondary teaching, and must complete prerequisites for specific courses. The requirements for a master degree in the program for teachers are as follows:

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

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

Option 1. A minimum of 36 credit hours in one of the following fields: computer science, English, Romance Languages, geography, history, mathematics, and school librarianship.

Option 2. Between 15 and 21 credit hours in each of two subject fields.

Option 3. A minimum of 36 credit hours in the composite field of social studies or the composite field of science. A program in social studies must include work in at least three of the following fields: anthropology, economics, geography, history, political science, psychology, and sociology. A program in science must include work in at least three of the following fields: biology, chemistry, geology, mathematics, and physics.

In each of the options listed above, at least 6 credit hours of work must be taken in 500-level courses. The remaining courses may include, with some restrictions, both the 400 (G) and 400 (g) series. The student's program must be well-rounded, and must not be made up of scattered, unrelated courses.

A student electing either option 1 or option 2 must have had at least 18 credit hours of undergraduate course work in the subject field involved. A student electing option 3 must have had at least 12 credit hours of undergraduate course work in each of the three subject fields involved.

(b) Between 9 and 15 credit hours in graduate courses in the field of education, the number of hours to be determined on the basis of the amount of work in education completed by the student as an undergraduate.

Inquiries about the interdisciplinary programs for teachers in history, computer science, English, school librarianship, mathematics, geography, and Romance languages should be directed to the chairmen of these academic departments. General inquiries about programs in other areas should be directed to the Committee on Interdisciplinary Studies, Graduate School.

Doctor of Philosophy

The degree of Doctor of Philosophy is granted primarily for attainments and proven ability. Requirements of time and credit are secondary; but no candidate will be recommended for the degree until the minimum requirements of residence and study have been satisfied. It is recommended that a student not take all undergraduate and all Ph.D. work at the University of Oregon.

Residence Requirement. For the Ph.D. degree, at least three years of full-time work beyond the bachelor degree are required, of which at least one academic year (three consecutive terms of full-time study, with a minimum of 9 credit hours per term) must be spent in residence on the Eugene campus. In the event the master degree is conferred by the University of Oregon, the three con-

secutive terms in continuous full-time residence must be after all requirements for all master degrees are completed.

Language Requirement. Knowledge of a foreign language or of other specialized disciplines such as computer science or statistics may be required by individual schools or departments as part of a Ph.D. program. For information on such requirements, the student should consult the school or department directly.

Comprehensive Examinations. The student working toward the Ph.D. degree must pass a group of comprehensive examinations (oral or written or both). These examinations are expected to cover major areas in the student's program of graduate study and may cover any supporting area requested by the school or department. The student will be held responsible not merely for material directly covered in the graduate courses completed, but also for additional independent study in his or her field, with the object of demonstrating a comprehensive and integrated command of the selected discipline.

Advancement to candidacy is contingent upon passing these examinations. The student is not eligible to take the examinations until all other requirements have been substantially satisfied, with the exception of the completion of the dissertation and the final examination.

Within two weeks after the student has passed the comprehensive examinations, the major school or department will submit a report to the dean of the Graduate School recommending advancement to candidacy. The date of advancement is that on which the recommendation is received by the Graduate School.

The final oral presentation for a doctorate (whether Ph.D. or professional) must be taken not later than three calendar years after advancement to candidacy. Failure to complete requirements for the degree within this period will invalidate the student's comprehensive examinations.

Advisory Committee. The advisory committee of the candidate for the Ph.D. degree determines the amount of work the student is to do for the degree in light of academic background and objectives.

This committee is appointed by the head of the department or dean of the school in which the student is working. Its membership need not be approved by the Graduate School. The committee usually is made up of three or four members, with the student's adviser serving as chairman. It may or may not have an outside member, depending on the preference of the department or school, which also may determine the time at which the committee is to be appointed.

Thesis. Every candidate for the Ph.D. degree must submit a thesis embodying the results of research and showing evidence of originality and ability in independent investigation. The thesis must be a significant contribution to knowledge, based on the candidate's own investigations. It must show a mastery of the literature of the subject, and be written in creditable literary style. It is expected that the preparation of an acceptable thesis will require at least the greater part of an academic year.

Dissertation Committee. This committee normally is composed of the members of the advisory committee,

with the chairman being the candidate's dissertation adviser. It must include at least three members from the graduate faculty of the candidate's major department or school, as well as an additional member not affiliated with that department or school who is regarded as the representative of the Graduate School. If the representative is nominated from the University of Oregon faculty, he or she must be a member of a different school or department from that of the candidate and represent a different discipline. If the member is nominated from the faculty of another university or from professional life, he or she may (but need not) represent the same discipline as that of the candidate.

The candidate's department or school proposes the membership of the committee to the dean of the Graduate School, who, after approving it, officially appoints the committee. The dean may appoint additional members, or the school or department may nominate additional members, including representatives of supporting or related disciplines, subject to the dean's approval.

The membership of the committee should be proposed to the dean of the Graduate School one month after advancement to candidacy and no later than one month before the date when the candidate is expected to complete the dissertation.

Completion of Thesis. The members of the dissertation committee must sign that they have met with the student, read, and approved the final version of the thesis, with a majority of the members concurring, before it is submitted in three copies to the Graduate School. If the committee is evenly divided on the acceptability of the thesis, the dean of the Graduate School will make the final decision as to whether or not the thesis is acceptable.

Copies of the thesis will not be accepted by the Graduate School unless they meet satisfactory standards of form and style. The student should obtain from the Graduate School a copy of the *Style Manual for Theses and Dissertations*, which defines these standards. Two copies of an abstract (not longer than 600 words) must be filed with the Graduate School at least three weeks before the date of the final oral presentation.

Final Presentation of Thesis. A formal oral presentation of the thesis on the Eugene campus is mandatory; it must occur before the Ph.D. degree can be granted. The presentation will normally take place during the term in which the degree is awarded. In this presentation, which shall be open to the public, the candidate will expound the major ideas and findings of the thesis and be questioned by the committee and other interested persons. Faculty members and graduate students in the candidate's department or school should be encouraged to attend and to participate in the discussion following the presentation. The student's school or department must inform the Graduate School of the date of the presentation at least three weeks in advance, so that at least one week's public notice of the presentation may be given.

The candidate's dissertation committee must attend the oral presentation, and the chairman of the committee must certify to the Graduate School that the presentation was made as scheduled.

Doctor of Education

General Requirements. The degree of Doctor of Education is granted in recognition of mastery of theory, practice, and research in professional education or in health, physical education, and recreation. In addition to a primary area of specialization, the student's plan of study should include work in supporting areas of education, foundation areas, a research area, and some non-education courses related to the program.

With the exceptions noted here, the general requirements for the qualifying examination, residence, comprehensive examinations, thesis, and final examinations for the D.Ed. degree are the same as those listed above for the Ph.D. degree.

Thesis. The doctoral dissertation may be either a report of research which makes an original contribution to knowledge or a study in which the student deals with knowledge already available and produces a constructive result of importance and value for educational practice. The dissertation proposal should be developed early in the doctoral program.

Advancement to Candidacy. Advancement to candidacy for the D.Ed. degree in the College of Education is based on proficiency shown in comprehensive examinations and the recommendation of a doctoral advisory committee. The comprehensive examinations may be taken only after the student has (1) been admitted to the degree program, (2) completed substantially all of the total course work planned, and received the consent of an adviser to take the examinations. Students interested in the D.Ed. degree in the College of Health, Physical Education, and Recreation must meet requirements established by that school.

Doctor of Musical Arts

The requirements for the degree of Doctor of Musical Arts are listed in the School of Music section of this catalog.

Fellowships

Teaching and research fellowships are available to qualified graduate students. Applications should be made before March 1. All persons holding these positions must enroll in the Graduate School, and must be admitted to a program leading to an advanced degree.

Teaching Fellowships. Nearly all schools and departments award graduate teaching fellowships. Stipends range from \$2500 to \$6000 for an academic year. Graduate students holding appointments at 30 per cent of full time or less may register for a maximum of 12 credit hours. Those holding half-time appointments may register for a maximum of 10 hours. Tuition for graduate teaching fellows is waived.

Research Fellowships. A number of departments and schools employ graduate students to work on research projects under the supervision of faculty members for up to 15 hours a week. Funds come from research grants and contracts. Stipends, fees, and enrollment limitations are about the same as for graduate students with teaching fellowships. Tuition is generally waived for graduate research appointments. It is sometimes possible to extend these fellowships through the summer, thus increasing the total stipend.

Special Fellowship Programs. Graduate students at the University of Oregon are normally eligible for fellowship awards granted by the federal agencies and privately endowed foundations. Specific information concerning the programs available may be obtained in the office of the Graduate School.

Postdoctoral Fellowships. The University of Oregon participates in several postdoctoral fellowship programs and provides facilities for postdoctoral study under faculty supervision.

Loans. Graduate students are eligible for loans from University loan funds and from funds available under the federal student loan programs. Information regarding loans may be obtained from the Office of Financial Aid.

Graduate Work in Portland

Graduate work leading to degrees from the University is offered in Portland at the University of Oregon Medical School, the University of Oregon Dental School, and the University of Oregon School of Nursing.

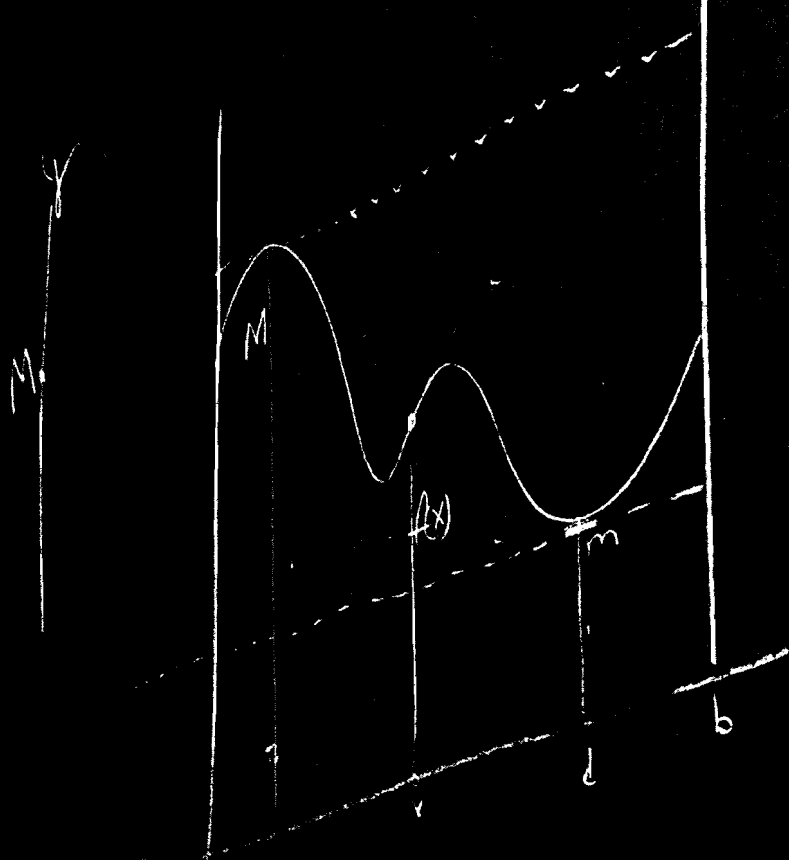
Medical School. The Medical School offers graduate instruction leading to the M.S. and Ph.D. degrees in the medical sciences (anatomy, bacteriology, biochemistry, medical psychology, pathology, pharmacology, and physiology). Graduate degrees earned at the Medical School are conferred by the University, on the recommendation of the faculty of the Medical School.

Dental School. The Dental School offers graduate work leading to the M.S. degree for students planning careers in dental education and research. Graduate major programs are offered in the fields of anatomy, bacteriology, biochemistry, dental materials, oral pathology, orthodontics, pedodontics, pharmacology, and physiology. Graduate degrees earned at the Dental School are conferred by the University, on the recommendation of the faculty of the Dental School.

School of Nursing. The School of Nursing offers graduate work leading to the M.N. and the M.S. degrees. The M.N. degree provides advanced professional preparation; the M.S. degree prepares qualified professional nurses for teaching positions in nursing. Graduate degrees earned in the School of Nursing are conferred by the University, on the recommendation of the faculty of the School of Nursing.

Outline of Procedure Leading to Doctoral Degrees

Procedure	Responsible Agency	Chronology
(1) Admission.	Department, school, or college.	First step.
(2) Course work and residence. Student's advisory committee, appointed by school or department, determines the program, which must include three years of work beyond the bachelor degree, of which at least one academic year (three consecutive terms of full-time study—minimum of 9 credit hours per term) must be spent on the Eugene campus or at the Medical School in Portland.	Department, school, or college.	After appointment of advisory committee.
(3) Foreign languages where required.	Advisory committee; college, school, or department.	Before comprehensive examination.
(4) Comprehensive examination covers the major discipline comprehensively; advances the student to candidacy for the degree.	Department, school, or college.	After substantially all course work has been taken, and after virtually all other requirements for the degree have been satisfied except the completion of the dissertation and the final oral presentation.
(5) Thesis required for all doctorates.	Department, school, or college.	After comprehensive examination. Thesis abstract must be filed with the Graduate School not later than three weeks before date of final oral presentation.
(6) Application for degree.	Registrar.	First three weeks of the term.
(7) Final oral presentation. Dissertation committee consists of at least three members from the graduate faculty of the candidate's major department or school, as well as a faculty member from another department or school of the University and representing a discipline different from the candidate's major field.	Department, school, or college.	Acceptance of thesis, completion of course work, and residence requirements, but within three years of the comprehensive examination (otherwise a new comprehensive examination must be taken).
(8) Thesis reproduction. \$20.00 fee required.	Gifts & Exchange (Library).	Before certification of completion.
(9) Granting of degree.	General faculty, on certification by Graduate School; Registrar.	After all requirements have been satisfied.
(10) Certificate of completion.	Graduate School; Registrar.	At end of term in which all degree requirements are satisfied.
(11) Diploma.	Registrar.	Dated as of Commencement.



$$m \leq f(x) \leq M$$

3. Если $f(x)$ непрерывна
 на отрезке $[a, b]$, то
 на нем существуют
 максимум и минимум

Courses of Instruction

IN THE pages that follow, there appear the details of the courses of instruction offered by the University of Oregon. The catalog endeavors to present the most current information possible, but because circumstances constantly change within a large institution and new decisions must be made, there inevitably will be information not available when the catalog was published. Students are advised to study closely the *Time Schedule of Classes* at the time of registration, and to confer with faculty advisers.

Each course of instruction is listed in the catalog section devoted to the appropriate University division responsible for teaching it. The divisions set forth the requirements and standards expected of their major students over and above the general University requirements. The instructional divisions of the University are colleges, schools, and departments.

Within the College of Liberal Arts are the following academic departments: Anthropology, Biology, Chemistry, Classics, and Chinese and Japanese, Computer Science, Economics, English, Geography, Geology, German and Russian, History, Home Economics, Mathematics, Philosophy, Physics, Political Science, Psychology, Religious Studies, Romance Languages, Sociology, and Speech.

The College of Liberal Arts also administers the Honors College, the Interdepartmental Studies and Special Programs, and the Prehealth Sciences.

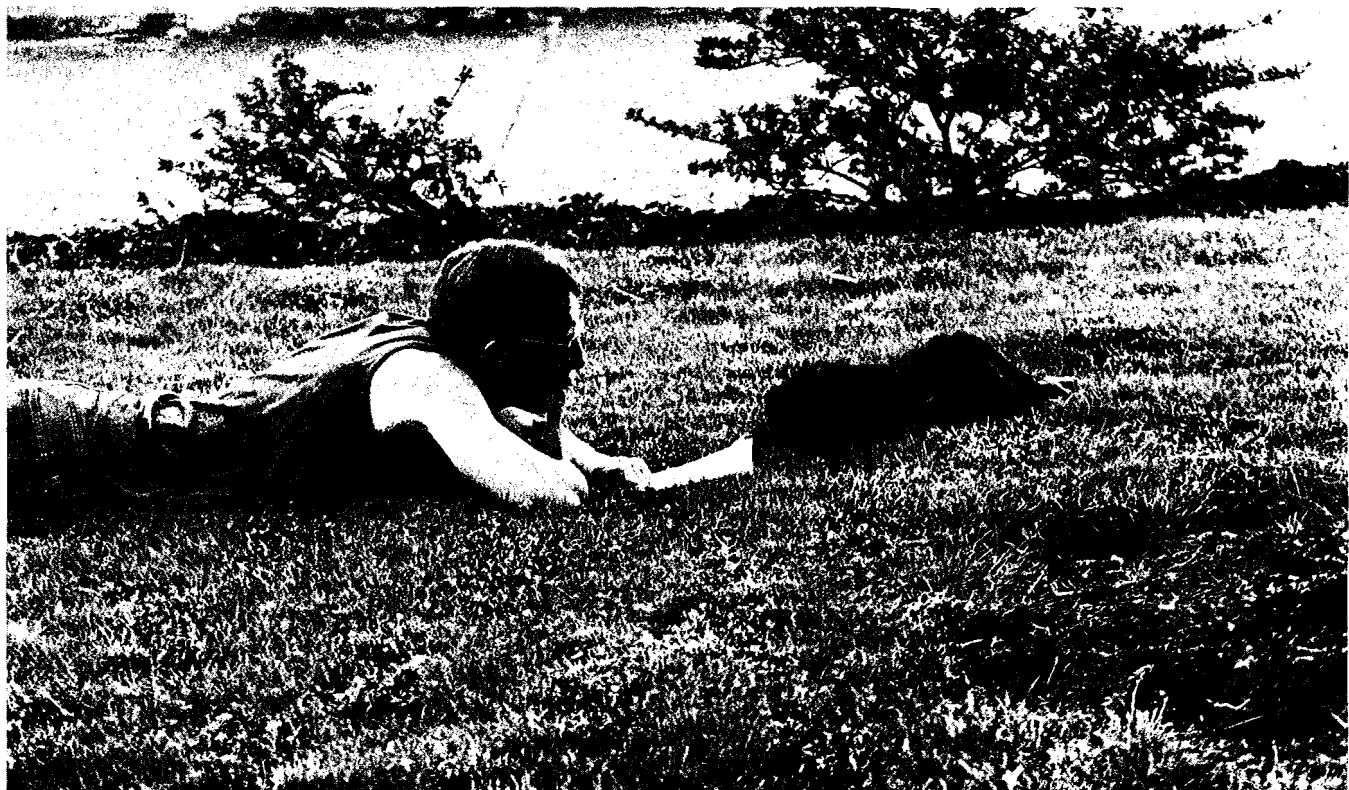
Professional studies at the University are offered by the following schools and colleges: School of Architecture and Allied Arts; College of Business Administration; Wallace School of Community Service and Public Affairs; College of Education; College of Health, Physical Education, and Recreation; School of Journalism; School of Law; School of Librarianship; and School of Music.

The Reserve Officers Training Corps is a separate department.

The courses of instruction for the three professional schools on the University of Oregon Portland campus, Dentistry, Medicine, and Nursing, are listed in separate catalogs. General information appears in this catalog.

4 Courses of Instruction

College of Liberal Arts
Honors College
Independent Study
Interdepartmental Studies and
Special Programs
Prehealth Sciences
Liberal Arts Departments
Professional Studies
ROTC
Professional Studies in Portland



College of Liberal Arts

Acting Dean, Paul S. Holbo, Ph.D.

Associate Dean, Robert C. Albrecht, Ph.D.

Director of Academic Advising, Beverly Fagot, Ph.D.

Acting Director, Academic Advising, Joan M. Pierson, M.A.

THE College of Liberal Arts gives form to man's study of his world, his history, and himself. Programs centered in the three great disciplines of the natural sciences, the social sciences, and the humanities emancipate his mind and extend that knowledge which is indispensable to the good life of free men.

The instructional divisions of the college are: Anthropology, Biology, Chemistry, Chinese and Japanese, Classics, Computer Science, Economics, English, Geography, Geology, German and Russian, History, Home Economics, Mathematics, Philosophy, Physics, Political Science, Psychology, Religious Studies, Romance Languages, Sociology, and Speech. All disciplines, except Home Economics, offer major curricula leading to baccalaureate degrees.

Also administered through the college are special programs in African studies, Asian studies, comparative literature, general arts and letters, general science, general social science, industrial and labor relations, Latin American studies, linguistics, and Russian and East European studies; preparatory programs in dentistry, medical technology, medicine, nursing, and pharmacy; and the Museum of Natural History.

Entrance Requirements. There are no entrance requirements, beyond the general entrance requirements of the University, for students intending to choose a major within the College of Liberal Arts.

Students who have taken examinations in the College Level Examination Program or the Advanced Placement Program sponsored by the College Entrance Examination Board should seek University of Oregon credit.

Degree Requirements. For a bachelor degree with a major in the College of Liberal Arts, a minimum of 186 credit hours of University work is required, including:

- (1) Written English (Wr 121 and Wr 323) 6 credit hours.
- (2) Physical Education; five terms in activity courses (normally CPE 121-199, MPE 121-199, and WPE 121-199, taken before the end of the sophomore year) unless excused for reasons of health, age, or experience in defense service.
- (3) Health Education; HE 150 or HE 250 (normally taken before the end of the sophomore year).
- (4) A minimum of 62 credit hours in upper-division courses.
- (5) A minimum of 36 credit hours in the student's major field, at least 24 of which must be in upper-division courses. Some departments require more than the 36-hour minimum. For certain interdepartmental majors, the major requirement is approximately 72 credit hours of work distributed in several departments.
- (6) Group Requirements; to promote breadth of liberal education, all students are required to take work in each of three groups—arts and letters, social sciences, and science—as listed below, in courses numbered 100-499 (exclusive of courses numbered 199, 400-410, and Wr 121 and 323).

Arts and Letters Group

General Arts and Letters.

Art: Art History 201, 202, 203, 204, 205, 206, 207, 208, 209.

Classics, and Chinese and Japanese.

English, Writing (except as noted below).

German and Russian.

Music: Music 201, 202, 203, 204, 205, 206.

Philosophy: Phl 204, 212, 222, 301, 302, 303, 304, 305, 306, 328, 329, 411, 413, 416, 419, 423, 425, 427, 429, 430, 431, 432, 433, 434, 435, 438, 439, 440, 441, 442, 443, 447, 448.

Romance Languages.

Speech

Writing: Wr 121 and 323 or their equivalent are to be used for satisfaction of the written English requirement only, and cannot be counted toward satisfaction of the Arts and Letters group requirement.

Social Science Group

General Social Science

Anthropology.

Economics.

Geography (except Geog 481, 482, 488).

History.

Philosophy: Phl 201, 202, 203, 205, 206, 207, 208, 209, 210, 221, 307, 308, 309, 321, 322, 323, 324, 325, 326, 339, 340, 350, 351, 453, 454, 455, 456, 458, 459, 461, 462, 463, 465, 468, 480, 481, 482.

Political Science.

Psychology: Psy 214, 215, 216, 451, 452, 454, 457, 460, 462, 465, 470, 475, 476, 477, 478, 480.

Religious Studies.

Sociology.

Science Group

Computer Science.

General Science.

Biology.

Chemistry.

Geography 481, 482, 488.

Geology.

Mathematics.

Physics.

Psychology: Psy 211, 212, 213, 217, 218, 219, 324, 414, 417, 418, 423, 426, 429, 433, 436, 442, 444, 446, 449, 450.

Honors College. Through the Honors College, the University offers a four-year program of liberal education for selected students, leading to the degree of Bachelor of Arts (Honors College).

Advanced Placement Program

Students who complete college-level work in high school under the Advanced Placement Program sponsored by the College Entrance Examination Board and who receive satisfactory grades in examinations administered by the Board may, on admission to the University, be granted credit toward a bachelor degree in comparable University courses.

The fields included in the Advanced Placement Program are: English composition and literature, American history, European history, biology, chemistry, physics, mathematics, French, German, Spanish, and Latin. Information concerning advanced placement may be obtained from the Counseling Center office.

Credit by Examination

Students may acquire undergraduate credit by examination for any University of Oregon course numbered 100-499, with the exception of 401-420 inclusive, unless the department or school responsible for the course has specifically withdrawn the course for such purpose. Students may also receive credit through examinations in CLEP (College Level Examination Program). The CLEP fields approved at the University include the general examinations in social sciences (history), natural sciences, and humanities, and the subject examinations in American history, American literature, analysis and interpretation of literature, biology, college algebra, college algebra-trigonometry, English literature, general chemistry, geology, introductory business law, introductory calculus, introductory economics, introductory sociology, money and banking, and trigonometry.

Information concerning credit by examination, covering either University courses or CLEP, may be obtained from the Counseling Center office.

Honors College

Edward Diller, D.M.L., Director of the Honors College. Professor of Germanic Languages (20th Century German literature). B.A., California at Los Angeles, 1953; M.A., Los Angeles State, 1955; D.M.L., Middlebury, 1961; at Oregon since 1965.

THE HONORS COLLEGE offers a four year undergraduate program leading to the degree of Bachelor of Arts (Honors College). The college program is designed to provide an opportunity for the motivated student to explore, define, and develop intellectual capabilities not only in specialized fields but also in the liberal arts in general. In Friendly Hall, an Honors College Center has been established which includes private study areas, a colloquium meeting room, a small library, the Honors College office, and a common room where students may study or visit informally.

Admission. Application for admission to the Honors College is encouraged for those secondary school students in high standing who have demonstrated an ability to initiate, pursue, and sustain creative, academic projects. A number of students lacking formal evidence of qualitative scholastic performance are annually admitted to the Honors College on the strength of interests, potential academic ability, and professional promise. Freshman applicants must forward to the Admissions Office the results of all College Board Scholastic Aptitude Test (SAT) scores. The Honors College requires only the verbal and math test scores. Students who apply for admission to the Honors College must also make separate application for admission to the University. Both University and Honors College application forms may be secured from the Office of Admissions. Honors College application forms

and additional information may be obtained from the Honors College office, Friendly Hall.

Admission of transfer students and students already enrolled in the University is based on the student's college records.

Curriculum and Requirements. The degree of Bachelor of Arts (Honors College) is conferred on students who satisfy the following requirements:

(1) Proficiency in a foreign language equivalent to that reached in the second-year college course.

(2) Satisfactory completion in each of the following core courses: (a) Honors College Arts and Letters Core Sequence; (b) Honors College General Social Science Core Sequence; (c) Honors College General Science Core Sequence. Students who are science majors may have this requirement waived upon the recommendation of their adviser. Students may, on appeal, substitute University courses for the Honors College core-sequence courses.

(3) Four elective classes (numbered 200 or above) of at least three credit hours each in two of the three groups (Arts and Letters, Social Science, General Science) outside the student's major division of study. Either philosophy or mathematics or both, are strongly recommended.

(4) Honors work in English composition (Writing 121 and 323), two terms of Composition tutorial (Writing 231 and 232). The tutorials may be taken in conjunction with Honors College Arts and Letters Core Sequence. Students with a score of 650 on the verbal SAT test are exempt from Writing 121. All students may challenge the English composition requirements by taking an examination from the English composition department.

(5) Two terms in Colloquium (HC 404) in the junior or senior year. Colloquia provide seminar-type instruction for students of varying backgrounds, each colloquium focusing for one term on a common topic outside the student's major fields. All colloquia are graded on a pass-undifferentiated basis.

(6) Completion of an honors program in the student's major; see Major Requirements, below.

(7) Satisfactory performance in a senior thesis (or project) and oral examination, as determined by the student's major adviser, a departmental representative and an Honors College faculty member, if applicable.

Honors College students must also satisfy general University requirements for the Bachelor of Arts degree (other than the group requirement). The pass-undifferentiated grading option is acceptable in the Honors College wherever it is not in conflict with departmental major requirements.

Honors College freshmen are encouraged to participate in a freshman colloquium dealing with special topics (HC 199).

In addition to the courses listed above, the Honors College curriculum offers honors sections in several other fields, including foreign languages and literature, philosophy, math, English, opportunities for work in departmental honors seminars, independent research projects, and reading and conference. Information on these courses may be obtained in the Honors College office.

Major Requirements. The major programs planned by departments and schools for students in the Honors College provide for independent study and generally allow greater flexibility in the satisfaction of course requirements than the regular undergraduate programs of the divisions. The special requirements of the several divisions for majors enrolled in the Honors College are listed below. In general, these requirements supplement those required of all regular students majoring in the department.

General Arts and Letters. At least 9 credit hours in seminar, reading and conference, thesis, or research (or a combination), leading to the preparation of senior honors thesis.

General Science. A minimum of 36 pass-differentiated upper-division credit hours in science, including 9 hours at the 400 level in one science which are acceptable for a departmental major or 9 hours at the 300 level which are required for a departmental major. A senior comprehensive examination is required.

General Social Science. (1) Of the 36 upper-division credit hours required of all majors, at least 18 at the 400 level; (2) at least 9 credit hours in seminar, reading and conference, thesis, or research (or a combination), leading to the preparation of senior honors thesis.

Anthropology. Senior honors thesis, requiring one or more terms for completion, for a maximum of 6 credit hours.

Architecture and Allied Arts. Colloquium, honors reading and conference.

Asian Studies. Senior honors thesis utilizing materials in a foreign language germane to the region with which the thesis is concerned. A maximum of 6 hours of credit for this is allowed. (The final oral examination will cover the thesis.)

Biology. Honors thesis based on original observations or experiments, for which credit may be obtained under Bi 401 (eight credit hours of which will satisfy major requirements for two 400 level courses). A maximum of 4 hours of credit for this is allowed. (Honors students may be admitted to graduate courses in the department.) Bi 104, 105, 106 is not intended for students majoring in biology, premedicine, predentistry, or in other fields related to biology.

Business Administration. Major programs developed in consultation with the Undergraduate School of Business honors adviser. Ordinarily, the student writes an honors thesis during the senior year for 3-9 credit hours.

Chemistry. (1) Ch 204, 205, 206, Ch 207, 208, 209 and Mth 204, 205, 206 in the freshman year; (2) Ch 334, 335, 336, Ch 340, 341, 342 in the sophomore year; (4) research (3 credits) and honors thesis (3 credits) in the senior year.

Classics, and Chinese and Japanese. (1) Normally, in the junior year, seminar in the literature of the student's principal language (3 credit hours); (2) in the senior year, honors thesis, essays, or other evidence of serious and coherent work approved by the department honors committee (6 credit hours).

Community Service and Public Affairs. Students in the Honors College should complete the usual requirements for a major in the School of Community Service and Public Affairs, plus a senior thesis or another independent project. SSc 201, 202, 203 will fulfill the basic requirements in the disciplines involved.

Computer Science. CS 201, 202, 203 is the preferred starting point. Major programs are developed in consultation with the Undergraduate Affairs Committee and the department chairman.

Economics. Student must complete the requirements for the departmental honors program in Economics. Details are available from the department head.

Education. Reading and conference, 3 credit hours, culminating in an essay.

English. Three credit hours in honors seminars in junior year, followed by 6 credit hours of independent study in a literary period

or type, for example, culminating in a scholarly or critical honors essay.

Geography. (1) Geog 481, Geog 482, Geog 488; (2) Geog 421, 422, 423; (3) Geog 491, 492, 493; (4) junior and senior honors seminars; (5) senior honors thesis.

Geology. (1) Year sequence in calculus or statistics; (2) Geol 201, 202, 203, Geol 411; (3) additional year sequence in geology, mathematics, or other science; (4) senior honors thesis based on original research, for 3 credit hours.

German and Russian. In the senior year, honors thesis, essays, or other evidence of serious and coherent work approved by the department honors committee, for 3 credit hours.

History. Complete requirements for a major in history, including (1) senior honors essay, 7 credit hours; (2) oral examination over two of the following fields; (a) Greece and Rome, (b) medieval Europe, (c) Renaissance and Reformation, (d) Europe 1500-1789, (e) Europe since 1789, (f) United States, (g) Far East, (h) Latin America.

Journalism. (1) J 485, J 487; (2) senior thesis (J 403), 6 credit hours; (3) examination before faculty committee on thesis and professional course work.

Mathematics. (1) Mth 204, 205 206 (preferably honors section); (2) Mth 415, 416, 417, Mth 431, 432, 433; (3) an oral examination, ordinarily in the senior year, covering advanced topics assigned by the student's adviser.

Medicine. (1) Three years of work in the Honors College, including the premedical program outlined on pages 70-71 or equivalent; and completion of the first-year professional program in medicine with a scholastic rank in the upper half of the class. (2) Four years of work in the Honors College, including the premedical program outlined on pages 70-71, and fulfillment of major requirements in general science, biology, or other major with approval of the premedical adviser.

Music. (1) 9 credit hours of independent study of a musical period, style, genre or composer; (2) honors essay in spring term of senior year.

Philosophy. (1) Senior honors essay, following intensive study of some aspect of philosophy either in connection with a senior seminar or, when recommended, on a tutorial basis, with 9 credit hours; (2) a comprehensive written examination.

Physics. Maximum of 18 credit hours in independent study (independent research and a thesis are required).

Political Science. (1) Complete requirements for political science major (see departmental requirements). Students are strongly advised to take PS 100 or PS 207, (2) honors thesis during senior year (maximum credit, 9 hours) to include PS 405 (3 hours) and PS 403 (6 hours). All 9 credit hours are to be prearranged with the thesis adviser. (The 9 credit hours of work on the thesis will count toward the total departmental requirement for graduation.)

Psychology. (1) Complete requirements for a major in psychology; (2) honors thesis; (3) complete advanced Experimental Psychology sequence (Psy 411, 412, 413). Recommended: Mth 425, 426, or Mth 441, 442, 443.

Romance Languages. (1) Normally, in the junior year, a year's sequence of Honors College seminars in the literature of the student's principal language (2 credit hours per term); (2) in the senior year, honors thesis, essays, or other evidence of serious

and coherent work approved by the department honors committee (2 credit hours per term).

Sociology. (1) Soc 327, Soc 370, Soc 371; (2) honors thesis involving sociological analysis (maximum credit, 9 hours). The thesis examination includes examination of the candidate's knowledge of the relevant related literature.

Speech. (1) Honors seminar during junior year; (2) honors readings, fall term of senior year; (3) honors thesis, prepared during winter and spring terms of senior year (6 credit hours).

Independent Study

IN ADDITION to its regular program, the Honors College administers a program of undergraduate independent study leading to the degree of Bachelor of Arts (Honors College). Students enrolled in this program are designated independent scholars. Total enrollment of independent scholars is at present limited to twenty students who must be currently enrolled in the Honors College.

A student is admitted to the status of independent scholar on nomination by a member of the faculty, with the approval of the chairman of a committee on interdisciplinary studies, the director of the Honors College, and the head of an academic department, or the dean of a professional school. Nomination is based solely on evidence of creative or scholarly originality and ability to work independently toward a creative or scholarly goal. Such evidence is not limited to academic records or credits and grades.

An independent scholar is exempt from all requirements of courses, credits, and grades. The student plans an individual program of studies directed to a creative or scholarly goal, with the advice of a committee of three members of the faculty appointed by the director of the Honors College, and pursues studies under the supervision of this committee. The scholar remains in good stand-

ing so long as the committee chairman reports, at the end of each term, that the student is making satisfactory progress toward a personal goal. If a student changes status from that of an independent scholar to that of a regular University student, the committee will recommend a transfer of credits to the academic record equivalent to the work completed satisfactorily as an independent scholar. A student who wishes to change from independent status to regular status must submit a petition to the Academic Requirement Committee to obtain credit for work completed in Independent Study (HC 402).

An independent scholar pays the regular fee for a full-time student. Scholars may attend any University course without formal registration, provided the consent of the instructor is obtained. If the course work is to be recorded with grade and credit, the student must register for the course and satisfy normal course requirements. An independent scholar's work is recorded in the Registrar's Office under the course entry, Independent Study (HC 402), with a designation of the area of study.

On the satisfactory completion of the program, an independent scholar is granted the B.A. (Honors College) degree on the recommendation of the director of the Honors College and the head of an academic department, the chairman of a committee on interdisciplinary studies, or the dean of a professional school. The recommendation is based on the following criteria:

(1) Completion of work equivalent to twelve terms of study toward the scholar's goal, either in a regular curriculum or as an independent scholar under the supervision of a committee. (2) Evidence of accomplishment in the form of creative or scholarly productions in the sciences, humanities, or arts. (3) An examination to determine the student's general scholarly equipment and accomplishment in fields relevant to the area of interest. The examiners include the chairman of the scholar's study committee and representatives of appropriate departments, schools, or interdisciplinary committees.

Although not restricted to any specific courses or topics, all programs of independent study maintain the spirit of a broadly based liberal education which characterizes the Honors College.

Interdepartmental Studies and Special Programs

African Studies

Chairman, Vernon Dorjahn, Ph.D., Professor of Anthropology.

ALTHOUGH there is no degree or certificate program in African Studies, some course work, formal and informal, is offered most years in several departments and schools of the University. The African Studies Group is comprised of those staff members in the University whose interests focus on Africa; most have had either extended experience in research, or teaching and consultation on that continent, or both.

The African Studies Group sponsors film showings, colloquia, and guest lecturers as funding permits; the chairman and other members as required, advise and consult with any interested students, both graduate and undergraduate.

Arts and Letters

An explanation of the major program in General Arts and Letters appears on page 65. The major program in Comparative Literature appears on page 64.

AL 101, 102, 103. Literature (Honors College). 3 credit hours each term.

Intensive study of selected works of Occidental literature. Gontrom, G. Johnson, Pascal, Powers, Stevenson, Wegelin.

AL 150, 151, 152. Classical Elements of English. 1 credit hour each term.

Classical components of the English language; Anglicization of the Latin alphabet and transliteration of the Greek alphabet. Shucard.

AL 230, 231, 232. Survey of the Performing Arts. 3 credit hours each term.

A concurrent study of the arts of dance, music, and theater, with special emphasis on the artistic contribution of the performer. Interrelations among the performing arts. The physical limitations of the forms; period and stylistic influences; temperament and personality as a factor in interpretation. Lectures and discussion; performances by visiting artists.

AL 301, 302, 303. Introduction to Japanese Literature. 3 credit hours each term.

Historical survey of Japanese literature from the Eighth Century to the present. Analysis and appreciation of major works, authors, and genres, such as the *Manyoshu*, *The Tale of Genji*, *Saikaku*, and the *Haiku*. All readings in English. J. Morita.

AL 304, 305, 306. Literature of the Ancient World. 3 credit hours each term.

Fall: Homer to Aeschylus; winter: Sophocles to Plutarch; spring: Latin literature from Plautus to Apuleius. Lectures and readings in English. Special attention to influence of Greek

and Latin writers on English literature. Combella, Pascal, Reavis.

AL 307, 308, 309. Introduction to Chinese Literature. 3 credit hours each term.

Chinese literature from the origins to modern period, with special emphasis on the poetry of the Tang and Sung, Yuan drama, and the classical and modern novel. All readings in English.

AL 310, 311, 312. Introduction to German Literature. 3 credit hours each term.

In English. Lectures and assigned readings covering the whole range of German literature. Diller.

AL 313, 314, 315. Introduction to Russian Literature. 3 credit hours each term.

Russian literature from origins to 1917, with special emphasis on Pushkin, Gogol, Turgenev, Dostoevsky, Tolstoy, and Chekhov. Readings in English; Russian majors do selected readings in the original. Leong, Rice.

AL 321, 322, 323. Classic Myths. 1 credit hour each term.

The three major myths of the classical world: Troy, Thebes, and the Golden Fleece. Lectures and readings in English. Pascal, Reavis.

AL 340, 341, 342. Russian Culture and Civilization. 3 credit hours each term.

The comparative aesthetics and development of art, film, music, and literature within the context of Russian intellectual history. Leong.

AL 351, 352, 353. Scandinavian Literature in Translation. 3 credit hours each term.

Outstanding works of Scandinavian literature, studied in translation. Fall: Norwegian; winter: Swedish; spring: Danish. Prerequisite: upper-division standing.

Upper-Division Courses Carrying Graduate Credit

AL 405. Reading and Conference. (g)

Credit hours to be arranged.

AL 407. Seminar. (g)

Credit hours to be arranged.

AL 420. Modern Russian Novel. (g) 3 credit hours.

Development of modern Russian novel, with emphasis on minor prose masters. Readings in English; Russian majors do selected readings in the original. Leong, Rice.

AL 421. Modern Russian Short Story. (G) 3 credit hours.

Development of Russian short story. All readings in English; Russian majors do selected readings in the original. Rice.

AL 422. Modern Russian Poetry. (G) 3 credit hours.

Detailed study of Russian symbolism, acmeism, and futurism. All readings in English; Russian majors do selected readings in the original. Leong.

AL 423. Modern Russian Drama. (G) 3 credit hours.

Evolution of Russian drama. All readings in English; Russian majors do selected readings in the original. Leong, Rice.

AL 424. Dostoevsky. (G) 3 credit hours.

Dostoevsky's intellectual and artistic development. *The House of the Dead*, *Notes from the Underground*, *Crime and Punishment*, *The Idiot*, *The Brothers Karamazov*, and other works. Readings in English; Russian majors do selected readings in the original. Leong, Rice.

AL 425. Tolstoy. (G) 3 credit hours.

Development and context of Tolstoy's art; analysis of *War and Peace*, *Anna Karenina*; representative short novels, stories, plays, and essays. Readings in English; Russian majors do selected readings in the original. Leong.

AL 426. Gogol. (G) 3 credit hours.

Comprehensive study of Gogol's works; critical analysis of *Evenings on a Farm near Dikan'ka*, *Mirgorod*, Petersburg tales, *Dead Souls*, *The Inspector General* and other plays. Readings in English; Russian majors do selected readings in the original. Rice.

AL 427. Turgenev. (G) 3 credit hours.

Literary development and context of Turgenev's art; analysis of novels (*Rudin*, *A Nest of Gentlefolk*, *On the Eve*, *Fathers and Sons*, *Smoke*, *Virgin Soil*), stories, plays, and critical essays. Readings in English; Russian majors do selected readings in the original. Rice.

AL 428. Chekhov. (G) 3 credit hours.

Critical study of Chekhov's art; structure, style, and development of representative prose fiction and plays, including *The Seagull*, *Uncle Vanya*, *The Three Sisters*, *The Cherry Orchard*. Readings in English; Russian majors do selected readings in the original. Rice.

AL 429. Soviet Russian Literature. (G) 3 credit hours.

Major developments in Russian literature since 1917; theory and practice of "socialist realism"; readings in English; Russian majors do selected readings in the original. Leong.

AL 460, 461, 462. The Chinese Classics. (g) 3 credit hours each term.

A comprehensive study of the Confucian and Taoist canons which introduces the student to the major sources of Chinese thought and culture. The readings will be in English; Chinese majors will do selected readings in the original. Fish, Hanley.

AL 477, 478, 479. Dante and His Times. (g) 3 credit hours each term.

Historical and literary background of the *Divine Comedy*; study of the poem and of Dante's minor works; Petrarch and Boccaccio. Hatzantonis.

Graduate Courses**AL 503. Thesis.**

Credit hours to be arranged. A no-grade course.

AL 507. Seminar.

Credit hours to be arranged.

AL 514, 515, 516. Introduction to Comparative Literature. 3 credit hours each term.

Study of significant examples of literature illustrating influences, themes, and movements that cross linguistic frontiers.

Asian Studies

Chairwoman, Esther Leong, Ph.D., Assistant Professor of Art History.

Joseph Esherick, Ph.D., Assistant Professor of History.

G. Ralph Falconeri, Ph.D., Associate Professor of History.

Michael B. Fish, M.A., Visiting Assistant Professor of Chinese.

John F. Gange, M.A., Professor of Public and International Relations.

Stephen W. Kohl, B.A., Instructor of Japanese.

Yoko M. McClain, M.A., Instructor of Japanese.

Angela J. Palandri, Ph.D., Associate Professor of Chinese.

Christopher L. Salter, Ph.D., Assistant Professor of Geography.

Charles P. Schleicher, Ph.D., Professor Emeritus of Political Science.

Richard A. Smith, M.S., Associate Professor of Architecture.

Theodore Stern, Ph.D., Professor of Anthropology.

Thomas Wiens, B.A., Assistant Professor of Economics.

Undergraduate Studies

THE University offers an interdisciplinary program in Asian Studies leading to the Bachelor of Arts degree. The curriculum includes courses in anthropology, art history, Chinese language and literature, economics, geography, history, Japanese language and literature, political science, and religious studies. The program is administered by the Asian Studies Committee composed of faculty with Asian specializations and student representatives.

The student majoring in Asian Studies is required to complete two years (30 credit hours) of either the Chinese or Japanese language. (Under special circumstances, he or she may demonstrate an equivalent competence by examination or by work in advanced language courses.) In addition, he or she must complete 36 credit hours of course work distributed as set forth below. Each student's course distribution should significantly cover more than one Asian civilization: thus a student focusing on Japan should take at least nine credit hours dealing, for example, with China.

Students intending to pursue graduate work in Asian Studies are advised to complete requirements for a B.A. in one of the disciplines represented in the Asian Studies curriculum, as well as fulfilling the requirements for Asian Studies.

The 36 credit hours of Asian Studies coursework should be chosen as indicated below. (The order does not reflect the sequence in which courses need be taken.) Students are encouraged to consult with their adviser in planning their coursework.

(1) Nine credit hours from one of the major history sequences: The Far East in Modern Times (Hst 391, 392, 393); History of China (Hst 494, 495, 496); History of Japan (Hst 497, 498, 499).

(2) Eighteen credit hours from among the following: Peoples of Southern and Eastern Asia (Anth 438, 439, 440); History of Oriental Art (ArH 207, 208, 209); Economic Development (Ec 457, 458, 459); Geography of Asia (Geog 203); Geography of East Asia (Geog 451); Geography of South East Asia (Geog 455); Introduction to Japanese Literature (AL 301, 302, 303); Introduction to Chinese Literature (AL 307, 308, 309); Southern Asia in Modern Times (PS 337, 338); Government and Politics of the Far East: China (PS 460, 461); Religions of Mankind (R 302); Oriental Philosophies of Religion (R 430, 431, 432).

(3) Nine additional hours from any of the courses in (1) or (2) above, or from the following courses:

Architecture. Seminar: Japanese Architecture (Arch 407).

Art History: Japanese Art (ArH 467, 468, 469); Chinese Art (ArH 464, 465, 466); Seminar: Early Chinese Painting (ArH 407); Seminar: Ming Painting (ArH 407); Seminar: Ch'ing Painting (ArH 407); Seminar: Indian Art (ArH 407); Seminar: Himalayan Art (ArH 407).

Community Service and Public Affairs. Seminar: Chinese National Development (CSPA 407).

History. China Past and Present (Hst 291); Changing Values in Japanese Society (Hst 292); Seminar: China (Hst 407); Seminar: Modern Sino-Japanese Relations (Hst 407); Colloquium: China (Hst 408); Colloquium: Japan (Hst 408).

Chinese. Contemporary Chinese (OL 414, 415, 416); Chinese Composition and Conversation (OL 330, 331, 332); Proseminar in Chinese Literature (OL 409); Literary Chinese (OL 436, 437, 438); Advanced Readings in Modern Chinese Literature (OL 420, 421, 422); T'ang Poetry (OL 423, 424, 425); Chinese Bibliography (OL 453); The Chinese Classics (AL 430, 431, 432).

Japanese. Contemporary Japanese (OL 411, 412, 413); Japanese Composition and Conversation (OL 327, 328, 329); Proseminar in Japanese Literature (OL 408); Literary Japanese (OL 426, 427, 428); Advanced Readings in Modern Japanese Literature (OL 417, 418, 419); Japanese Poetry (OL 433, 434, 435); Japanese Bibliography (OL 450).

Political Science. Seminar: Asian Political Thought (PS 407).

Religious Studies. Seminar: Religions of Japan (R 407).

Honors. See Honors College.

Graduate Studies

THE University offers an interdisciplinary program in Asian Studies leading to the Master of Arts degree. The curriculum includes courses in anthropology, art history, Chinese language and literature, economics, geography, history, Japanese language and literature, political science, and religious studies. The program is administered by the Asian Studies Committee, composed of faculty with Asian specializations and student representatives.

There are no specific requirements for admission to the program beyond having a bachelor degree in a specific departmental discipline. It is preferred, however, that applicants have some undergraduate preparation in courses relating to Asia. Students lacking adequate Asian language or disciplinary training will be required to pursue appropriate courses without graduate credit. Prior to registration, the Asian Studies committee will assign each student an adviser who will assist the student in developing an appropriate individual program.

Students may fulfill their degree requirements by electing either (1) a program without thesis, or (2) a program with thesis. Students electing option (1) must complete 54 credit hours of graduate study, including 45 hours in Asia-related courses, and must submit two substantial research papers on Asian topics developed in seminars or colloquia, and pass a general Asian Studies field examination. Students electing option (2) must complete 48 credit hours of graduate study, including 45 hours in Asia-related courses, of which 9 hours are earned for thesis. All courses used for fulfillment of the 45-hour requirement in Asia-related courses must be approved by the student's adviser, in consultation with

the committee. These courses must represent at least two major Asian cultures and three academic areas, and include three seminars or colloquia, of which one must be the Asian Studies Interdisciplinary Seminar offered once annually. An M.A. candidate is required to demonstrate competence in Chinese or Japanese equivalent to two years of college training.

Students enrolled in graduate programs of disciplinary departments may earn a second master degree in Asian Studies. Besides satisfying the degree requirements set by their departments, such students must complete 30 credit hours of graduate credit in approved Asia-related courses, including the Interdisciplinary Seminar, and must demonstrate language competence in Chinese or Japanese equivalent to two years of college training. A thesis, applying the methodology of the student's discipline to an Asian subject, is required. The requirements for both the Asian Studies and disciplinary degrees must be completed simultaneously. A student completing this option is granted two Master of Arts degrees, one in Asian Studies and one in the departmental field.

Below are listed courses currently approved for inclusion in the Asian Studies curriculum. (The student should recognize that not all of these courses will be offered in any given year.) In addition, the Asian Studies Committee, at the request of the student and upon the recommendation of the student's adviser, may approve other courses which offer the opportunity to apply a disciplinary methodology to Asian topics. For a description of the listed courses, please see the appropriate departmental listing.

Anthropology: Peoples of Southern and Eastern Asia (Anth 438, 439, 440).

Architecture: Special Studies: Japanese Architecture (Arch 501).

Art History: Chinese Art (ArH 464, 465, 466); Japanese Art (ArH 467, 468, 469); Seminar: Chinese Art (ArH 507); Seminar: Early Chinese Painting (ArH 507); Seminar: Ming Painting (ArH 507); Seminar: Ch'ing Painting (ArH 507); Seminar: Japanese Art (ArH 507); Seminar: Indian Art (ArH 507); Seminar: Himalayan Art (ArH 507).

Chinese: Reading and Conference (OL 405); Seminar: Chinese Literature (AL 407); Proseminar in Chinese Literature (OL 409); Contemporary Chinese (OL 414, 415, 416); Advanced Readings in Modern Chinese Literature (OL 420, 421, 422); T'ang Poetry (OL 423, 424, 425); The Chinese Classics (AL 430, 431, 432); Literary Chinese (OL 436, 437, 438); Chinese Bibliography (OL 453).

Economics: Economic Development (Ec 457, 458, 459).

Geography: Geography of East Asia (Geog 451); Geography of Southeast Asia (Geog 455); Seminar: Geography of China (Geog 507).

History: History of China (Hst 494, 495, 496); History of Japan (Hst 497, 498, 499); Seminar: China (Hst 507); Seminar: Japan (Hst 507); Seminar: Modern Sino-Japanese Relations (Hst 507); Seminar: East Asian Historiography (Hst 507); Colloquium: Imperialism in China (Hst 508); Colloquium: Indochina (Hst 508); Colloquium: Feudalism in East Asia (Hst 508).

Interdisciplinary Studies: Asian Studies: Interdisciplinary Seminar (Ist 507).

Japanese: Reading and Conference (OL 405); Seminar: Japanese Literature (AL 407); Proseminar in Japanese Literature (OL 408); Contemporary Japanese (OL 411, 412, 413); Advanced Readings in Modern Japanese Literature (OL 417, 418, 419); Literary Japanese (OL 426, 427, 428); Japanese Poetry (OL 433, 434, 435); Japanese Bibliography (OL 450).

Political Science: Government and Politics of the Far East: China (PS 460), 461); Sino-Soviet Relations (PS 507); Seminar Comparative Communist Systems (PS 507); Seminar: Comparative Labor Movements (PS 507).

Religious Studies: Oriental Philosophies of Religion (R 430, 431, 432).

Comparative Literature

Chairman, Roland Ball, Ph.D., Professor of English.

THE UNIVERSITY offers a program of graduate study in the field of comparative literature, leading to the Master of Arts and Doctor of Philosophy degrees. The program is administered by an interdisciplinary committee including members of the faculties of the departments of English, German and Russian, and Romance Languages.

For admission to the program, a candidate should normally have an undergraduate major in one literature plus competence in two foreign languages. Candidates for both the master and doctoral degrees are expected to take Introduction to Comparative Literature (AL 514, 515, 516) or the equivalent.

Master of Arts degree. The candidate must demonstrate competence in two languages, in addition to English, by examination or by completing literature courses in the languages. At least one of the languages must be chosen from the following list: French, German, Greek, Italian, Latin, Russian, Spanish. The student's graduate-course program must include a minimum of 9 credit hours in comparative literature courses or seminars. Most or all of the remaining course work is selected from two fields of literature.

For the M.A. degree, candidates take field examinations covering two periods from their chosen literatures; the examination requirement in one field may be satisfied by completing four graduate courses, covering two or more literatures.

Doctor of Philosophy degree. Before taking the comprehensive examination, candidates must demonstrate competence in two languages. At least one must be chosen from the list prescribed for M.A. candidates. The program includes comparative literature courses in a period or genre and a course in literary criticism. For the total study program, each candidate chooses (1) a literature of specialization, from English, German, Greek, Italian, Latin, Romance, and Russian literatures; (2) one or more other literatures. Four field examinations in periods chosen for comparative study must be passed. Fields passed for the M.A. may be included, and two of the four may be satisfied by completing four graduate courses in two or more literatures.

After a prospectus of a doctoral dissertation, on a comparative topic, is accepted by the doctoral committee, a doctoral examination is held, covering a special chosen area of literary study, in which the dissertation topic is included.

AL 407. Seminar. (G)

Credit hours to be arranged.

The Renaissance Hero
Comedy of Classicism
Romantic Drama
Don Juan, Faust Themes

Realism in Modern Literature: Drama, Novel
Relations Between Literature and Art
The Anti-hero
Avant-garde Literature

AL 507. Seminar.

Credit hours to be arranged.

Medieval Poetry
The Renaissance Essay
Classicism and Enlightenment
The Rise of the Romantic Movement
Studies in Romanticism
Naturalism
The Symbolist Movement
The Outsider Motif
The Literature of Existentialism
The Modern Novel
Twentieth Century Experiments in Literary Forms
The International Novel

AL 514, 515, 516. Introduction to Comparative Literature. 3 credit hours each term.

History, theory, and practice of the multi-lingual and international study of literature. Ball, Furst.

Classical Civilization

Chairman, C. Bennett Pascal, Ph.D., Associate Professor of Classics.

THE University offers a general program of study of the arts and institutions of ancient Greece and Rome for students who want a broad classical education with a minimum of language study. The requirements for the degree of Bachelor of Arts in Classical Civilization are listed in the Department of Classics.

Ethnic Studies

Director, George E. Mills, Ed.D., Assistant Professor of Curriculum and Instruction. B.A. in Political Science, 1958; B.A. in Education, 1959, Gonzaga; M.A., Eastern Washington, 1967; Ed.D., Idaho, 1971.

THE Ethnic Studies Program is designed to liberalize the education of all students about the various ethnic and cultural strains in the American society. The program is interdisciplinary in drawing from many areas of study available on campus: anthropology, art, CSPA, English, economics, geography, history, music, sociology, political science, psychology, and others that may participate in the future.

A certificate in ethnic studies may be granted to students who complete 30 credit hours of work in the program (24 hours in courses and 6 hours in field work). The student must complete a regular major in another University department or school.

A lower-division course is planned for the 1973-74 academic year. Details will appear in the *Time Schedule of Classes* available at registration.

General Arts and Letters

Peter B. Gontrum, Chairman, General Arts and Letters Committee

THE CURRICULUM in General Arts and Letters is designed for students who wish to build a program of general studies around a core of literature. Two programs are offered: one emphasizes the general study of literature in Western culture, unrestricted to a single language, and provides a suitable preparation for graduate study in comparative literature; the second emphasizes general studies in the humanities, building its course program around the interrelations of literature with the other creative arts and philosophy.

The curriculum is administered by a committee, the chairman of which is the adviser of majors in general arts and letters.

The major in general arts and letters leads to the Bachelor of Arts degree. The following course requirements for the major include the several variations between the general literature and the humanities programs. (1) An introductory literature course: World Literature (Eng 107, 108, 109), or Introduction to Literature (Eng 104, 105, 106), or Survey of English Literature (Eng 204, 205, 206), or any survey of literature in a foreign language. (2) Foreign language: (a) humanities: at least one year of work beyond the first-year college level; (b) general literature: three terms of upper-division literature courses in a foreign language. (3) (a) Humanities; 9 credit hours in art or music history, or general humanities courses; (b) general literature: 9 credit hours as in (3)(a) or in other literature courses. (4) Fifteen credit hours in history or philosophy courses. (5) Fifteen credit hours from the following: Literature of the Ancient World (AL 304, 305, 306); Dante and His Times (AL 477, 478, 479); arts and letters courses in Russian, French, German, Scandinavian, Spanish, Brazilian, Chinese, Japanese, or other literature. (6) (a) Humanities: a total of 21 additional credit hours in upper-division courses in literature, philosophy, the history of art or music, including 2 terms of the special literature seminars designed for the major (AL 407); (b) general literature: a total of 21 additional credit hours in literature, including 2 terms of a special literature seminar for the major.

General Science

Ernest H. Lund, Chairman, General Science Committee

THE CURRICULUM in General Science is intended for students who wish to build a program of cultural studies around a central interest in science as an aspect of civilization, for students preparing for professional careers in the medical sciences, and for prospective science teachers. The standard three-year premedical or predoctoral curriculum, followed by a year of work in a medical school or two years of work in a dental school, meets all the requirements for the bachelor degree in General Science.

The General Science major leads to the Bachelor of Arts or Bachelor of Science degree. The requirements are: (1) Four one-year sequences, one in each of four sciences, selected from Bi 101-107, and all 200-level courses (the courses need not be in numerical sequence, and three courses chosen from Bi 301, 302, 303 with laboratory and Bi 304, 305, 306 may be substituted); Ch 104, 105, 106 with laboratory or Ch 204, 205, 206 with laboratory; CS 201, 202, 203 or equivalent; Geol 101, 102, 103 with laboratory or Geol 201, 202, 203; mathematics courses numbered 101-115 and 190-215; Ph 101, 102, 103 or Ph 201, 202, 203 with laboratory; and Psy 211, 212, 213 or Psy 217, 218, 219. (2) A minimum of 30 upper-division credit hours in science in which lower-division sequences have been taken, including not less than 9 credit hours in each of two sciences. Geog 481 and 482 may be substituted for upper-division work in geology, and only those psychology courses that are acceptable in meeting the University's group requirement in science may be used in fulfilling the upper-division requirement in general science. All courses used to fulfill the major requirements are to be taken on a pass-differential basis where there is a choice.

GS 104, 105, 106. Physical-Science Survey. 3 credit hours each term.

General introduction to the physical sciences; principles of astronomy, physics, and chemistry, geologic processes, and man's relation to them. Special emphasis on scientific method. Three lectures.

GS 107, 108, 109. Physical Science for Elementary Education Majors. 4 credit hours each term.

General introduction to the physical sciences; principles of astronomy, physics and chemistry, geologic processes, and man's relation to them. Introduction to experimental principles and methods in a laboratory designed for prospective elementary school teachers. Not a methods course in teaching science. Three lectures, one two-hour laboratory.

GS 204, 205, 206. Physical Science (Honors College). 3 credit hours each term.

Introduction to certain basic concepts, terms, and methods of modern physical science, with emphasis on the interrelations of the physical sciences with each other and with other fields of knowledge. Three lectures.

GS 210. Fundamentals of Evolution. 3 credit hours.

Historical development of evolutionary thought; evidence of evolution from the fossil record, comparative anatomy and physiology; functional systems as evidence of adaptations; Mendel and the genetic mechanisms of evolution. Evidence of modern microevolution.

General Social Science

Robert G. Lang, Chairman, General Social Science Committee

THE PROGRAM in General Social Science is designed for undergraduate students who wish a broad liberal arts education with emphasis on the social sciences, and for prospective secondary teachers of social studies for whom a departmental major may be too highly specialized. The program is administered by the General Social Science Committee of the College of Liberal Arts. The committee is interdisciplinary, comprising faculty from the several social science departments.

Entering freshmen interested in this program should have had a broad preparation in history and social sciences at the secondary level. Students transferring to the University of Oregon in the junior year and students at the University wanting to change their major to general social science in the junior year should have had about 36 credit hours of previous work in history and social sciences in preparation for upper-division study and to avoid course scheduling problems in the junior and senior years.

Major Requirements. In addition to satisfying the University requirements for a Bachelor of Arts or a Bachelor of Science degree in the College of Liberal Arts, students must satisfy the general social science major requirements. Majors in general social science must complete a minimum of 72 credit hours in social science courses. This work must include at least 9 credit hours in four of the following fields: anthropology, economics, geography, history, philosophy, political science, psychology, religion, sociology, general social science. At least 36 of the 72 credit hours must be earned in upper-division courses (300 and 400 level). Majors must have 54 graded credit hours in social sciences; however, it is recommended that all academic social science work be graded.

The major requirements in general social science allow for flexibility in the planning of individual programs. Students are urged to give careful thought to their educational objectives before entering the major, and to consult with the committee members who serve as advisers to students in the program. For further information, students may consult the chairman, who is head adviser for general social science majors.

Secondary-School Teaching of Social Studies. For certification as a teacher of social studies in Oregon high schools, the Oregon Board of Education requires (1) the satisfaction of certain minimum standards of subject preparation; (2) the satisfaction of certain minimum standards of professional education preparation; and (3) the recommendation of the institution at which the student completes the subject preparation.

For details, consult the special adviser for teacher education on the General Social Science Committee or the Office of Student Teaching and Teacher Certification in the College of Education. The general social science teacher-education adviser for 1973-74 is Malcolm McFee, Associate Professor of Anthropology.

Latin American Studies

Chairman, Philip Young, Ph.D., Associate Professor of Anthropology.

THE University offers undergraduate and graduate programs in Latin American Studies under the auspices of the interdisciplinary Committee on Latin American Studies.

The requirements for the undergraduate program in Latin American Studies are:

- (1) Geography. Latin America (Geog 202).
- (2) History. Hispanic America (Hst 350, 351, 352).
- (3) Language. The equivalent of two years of college Spanish or Portuguese or both.
- (4) A major concentration in either Anthropology, Geography, History or Spanish Literature. Requirements for each of these areas are:

Anthropology. A minimum of 45 credit hours in anthropology, including:

- (1) General Anthropology (Anth 101, 102, 103); (2) 9 hours in physical anthropology courses numbered 300-499; (3) 9 hours in cultural anthropology courses numbered 300-499 including: The American Indian: Mexico and Central American (Anth 418), and The American Indian: South America (Anth 419); (4) 9 hours in prehistory courses including: New World Prehistory: Middle America (Anth 462), and New World Prehistory: South America (Anth 463); (5) 6 additional hours in Latin American anthropology chosen from: Modern Latin America (Anth 407); Research: Latin America (Anth 401); Readings: Latin America (Anth 405).

The adviser for Latin American Anthropology is Philip Young.

Geography. A minimum of 33 additional credit hours in geography, of which 24 must be upper division. Specific requirements include:

- (1) 9 hours of basic geography chosen from: The Natural Environment (Geog 101), Landscape, Environment and Culture (Geog 103), Urban Environment (Geog 105), Reading and Interpretation of Maps (Geog 280); (2) 12 additional hours of Latin American Geography chosen from: The South American Tropics (Geog 461), Southern South America (Geog 462), Geography of Middle America (Geog 463), Seminar: The Latin American City (Geog 407), Seminar: Latin American Rural Settlement (Geog 407), Research: Latin America (Geog 401), Readings: Latin America (Geog 405).

The adviser for Latin American Geography is Gene E. Martin.

History. A minimum of 36 additional credit hours in history, of which 18 must be upper division, including:

- (1) Western Civilization (Hst 101, 102, 103); (2) 6 additional hours in Latin American history chosen from: History of Spain (Hst 464), Cuba in the Modern World (Hst 465), Seminar: Latin America (Hst 407), Research: Latin America (Hst 401), Readings: Latin America (Hst 405); (3) At least 12 hours of the history program must be in courses numbered 400 to 499.

The adviser for Latin American History is Mark Falcoff.

Spanish Literature. A minimum of 36 upper-division credit hours in Spanish including:

- (1) Three courses in Spanish composition at the 300 or 400 level;
- (2) 27 hours in Spanish and Spanish American including: (a)

Spanish Literature: Introduction to Reading of Spanish Literature (RL 311), Modern Spanish Literature (RL 314); Cervantes (RL 360); (b) Latin American Literature: 12 hours chosen from: Spanish American Literature (RL 315), Spanish American Literature (RL 444, 445, 446), Readings in Latin American Literature (RL 405), Seminar: Latin American Fiction (RL 407).

The advisers for Latin American Literature are Jorge Ayora and David Curland.

(5) Latin American area courses. A minimum of 12 hours in fields other than the major concentration (4 above) selected from: South American Tropics (Geog 461); Southern South America (Geog 462); Geography of Middle America (Geog 463); Seminar: The Latin American City (Geog 407); Seminar: Latin American Rural Settlement (Geog 407); History of Mexico (Hst 464); Cuba in the Modern World (Hst 465); The American Indian; Mexico and Central America (Anth 418); The American Indian: South America (Anth 419); New World Prehistory: Middle America (Anth 462); New World Prehistory: South America (Anth 463); Government and Politics of Latin America (PS 463, 464); Art in Latin America (ArH 450, 451, 452); Modern Latin America (Anth 407).

The Wallace School of Community Service and Public Affairs offers an option in Latin American studies at the undergraduate level in its major in international development. A minimum of 36 credit hours in Latin American area courses is required. Clarence E. Thurber, professor of international and public affairs, is the adviser for this program.

Specialization in Latin American Studies at the graduate level is possible in a number of Liberal Arts departments. Anthropology, economics, geography, history, international studies, Spanish, sociology, and political science have graduate faculty competent and interested in the area and it is possible to arrange graduate programs in these fields with a concentration of work in Latin American Studies.

Linguistics

Chairman, Clarence Sloat, Ph.D., Associate Professor of English.

THE University offers curricula in linguistics leading to the Bachelor of Arts and Master of Arts degrees. These curricula are administered by the Interdisciplinary Committee on Linguistics. The Department of English offers work leading to the Doctor of Philosophy degree with a major concentration in English linguistics and the possibility of substantial preparation in other areas of linguistics.

Undergraduate Studies

PROGRAMS in linguistics offer instruction in the nature of language and the analysis of particular languages. The primary aim of linguistic science is to develop a theory which accounts for the human ability to communicate by means of natural language. Although linguists may work with individual languages, they are in search

of properties and processes common to all languages. Such common features of human languages are thought to reflect basic aspects of the structure of the human mind. The concerns of linguistics for precision and formality gives it an affinity with mathematics, logic, and computer science. Though a natural science, linguistics also has close ties to several of the humanities and social sciences. Its concern for properties of the mind link it closely to philosophy and psychology. The social context of language use gives linguistics a connection with anthropology, sociology, and the various language and literature disciplines. Linguists work in areas as varied as child development, college teaching, cryptography, lexicography, preparation of language descriptions and teaching materials and translation.

The bachelor degree provides a basis for graduate study in linguistics and in interdisciplinary fields (such as psycholinguistics, the philosophy of language, and computational linguistics), as well as opportunities for advanced work in a range of applied linguistics fields (including the teaching of certain foreign languages, teaching English as a foreign language, reading, and language arts).

Requirements for the Bachelor of Arts Degree. (1) Two years of French, German, or Russian and one year of another foreign language chosen from the following: Chinese, Czech, French, German, Greek, Italian, Japanese, Latin, Norwegian, Polish, Russian, Serbo-Croatian, Spanish, Swedish, and Ukrainian.

(2) A minimum total of 36 hours credit in linguistics courses and linguistics-oriented courses in related disciplines which must include: (a) Ling 290. Introduction to Linguistics. 3 credit hours; Ling 450. Phonology and Morphology. 3 credit hours; Ling 451. Syntax and Semantics. 3 credit hours; Ling 460. Historical and Comparative Linguistics. 3 credit hours; Ling 489. Dialect Geography. 3 credit hours; Ling 490. Sociolinguistics. 3 credit hours; Eng 491. History of the English Language. 3 credit hours. (b) Additional courses to give a total of 36 credit hours selected from: (i) Courses with linguistics designations; (ii) Eng 493. Advanced English Grammar. 3 credit hours; Phl 325, 326. Philosophy of Language. 3 credit hours each term; RL 331, 332, 333. French Pronunciation and Phonetics. 2 credit hours each term; RL 350, 351. Spanish Pronunciation and Phonetics. 2 credit hours each term; SPA 370. Phonetics. 3 credit hours; SPA 371. Speech Science 3 credit hours; (iii) Any courses numbered between 400-499 in the list of courses approved for the Master of Arts Program (see below).

(3) Upper-division courses applied toward major requirements must be taken on a pass-differentiated basis. Majors in linguistics must have their programs approved periodically by a linguistics adviser.

Graduate Studies

THE Master of Arts program in linguistics provides curricula that combine a general foundation of required courses with a wide choice of areas of specialization. Graduate linguistics courses are also open to students in disciplines for which linguistics is a necessary or useful background.

Research equipment includes the English as a Second Language laboratory, sound reproduction equipment, a sound spectrograph, and University computer facilities.

A limited number of graduate teaching fellowships are available

to qualified applicants. Interested students should write directly to the Chairman of Linguistics.

Prerequisites for Admission. (1) Nine hours of linguistics equivalent to Ling 290, Ling 450, and Ling 451.

(2) Two college-level years of a language not native to the student.

Students who do not meet these prerequisites, but have an undergraduate major in a related field (such as anthropology, computer science, English, a foreign language, mathematics, philosophy, psychology, sociology, or speech pathology and audiology), may be accepted with the provision that deficiencies be made up as soon as possible after beginning the master program. General University regulations governing graduate admission appear in the Graduate School section of this Catalog.

Requirements for the Master of Arts Degree.

(1) Three terms of Ling 507. Seminar. 5 credit hours each term.

(2) Course work comprising a minimum of 30 credit hours selected from: (a) linguistics courses carrying graduate credit; (b) Anth 441, 442, 443. Linguistics. (G) 3 credit hours each term; Anth 456, 457, 458. Communication and Culture. (G) 3 credit hours each term; CL 511, 512, 513. Readings in Medieval Latin. Credit hours to be arranged; CS 521, 522. Theory of Computation. 4 credit hours each term; Eng 491. History of the English Language. (g) 3 credit hours; Eng 493. Advanced English Grammar. (g) 3 credit hours; Eng 511, 512, 513. Old English. 5 credit hours each term; Eng 514, 515, 516. Old Icelandic. 5 credit hours each term; Eng 517. Middle English Dialects. 5 credit hours; Eng 520, 521, 522. History and Structure of the English Language. 5 credit hours each term; GL 498. Applied German Phonetics. (G) 3 credit hours; GL 514. Introduction to Middle High German. 5 credit hours; GL 515, 516. Readings in Middle High German Literature. 5 credit hours each term; GL 530, 531. Old High German. 5 credit hours each term; GL 532. Introduction to Gothic. 5 credit hours; GL 533. Structure of Modern German. 5 credit hours; GL 534. History of New High German. 5 credit hours; GL 539. Introduction to Old Saxon. 5 credit hours; Phl 453, 454. Analytic Philosophy. 3 credit hours each term; Phl 455, 456. History of Logic. (G) 3 credit hours each term; Phl 458, 459. Philosophy of Mind. (G) 3 credit hours each term; Phl 461, 462. Symbolic Logic. (G) 3 credit hours each term; Phl 468. Problems in Philosophy of Science. (G) 3 credit hours; Phl 517, 518. Problems in Philosophy of Language. (G) 3 credit hours each term; Phl 523, 524. Problems in Philosophy of Mind. 3 credit hours each term; Psy 426. Thinking. (G) 3 credit hours; Psy 462. Developmental II: Learning and Perception. (G) 3 credit hours; Psy 490. Psychology of Learning. (g) 3 credit hours; Psy 496. Human Learning and Cognition. (G) 3 credit hours; RL 520, 521, 522. Old French. 4 credit hours each term; RL 523, 524, 525. The Troubadours. 4 credit hours each term; RL 535, 536, 537. Old Spanish. 4 credit hours each term; SL 440, 441, 442. Structure of Russian. (G) 3 credit hours each term; SL 540. Old Church Slavonic. 3 credit hours; SL 541, 542. History of Russian. 3 credit hours each term; SPA 472. Advanced Speech Science. (G) 3 credit hours; SPA 570. Psychology of Speech. 3 credit hours; SPA 573. Speech and Language Development. 3 credit hours; (c) relevant seminars in related disciplines.

Six of the 21 credit hours must be in courses with linguistics designations. A maximum of 5 credit hours in courses numbered 501 and 505 may be counted toward the 21-hour requirement. Nine of the 30 credit hours must be in courses with linguistic designations. A maximum of 10 credit hours in courses numbered 501,

503, and 505 may be counted toward the 30-hour requirement.

(3) A three-hour terminal comprehensive examination on synchronic and diachronic theory and method.

Ling 150, 151, 152. Classical Elements of English. 1 credit hour each term.

Classical components of the English language; Anglicization of the Latin alphabet and transliteration of the Greek alphabet.

Ling 290. Introduction to Linguistics. 3 credit hours.

Introduction to the scientific study of language. Examination of the characteristics of language and language diversity, including sounds, structure, symbolic nature, linguistic change, and theories of origin. The relation of linguistic science to the social sciences and to the humanities.

Ling 450. Phonology and Morphology. (g) 3 credit hours.

An introduction to the study of sound systems and the structure of words. A variety of phonological problems will be considered with the goal of examining critically current phonological theory. Examples will be drawn from English and other Indo-European languages, as well as from American Indian, Asian, Oceanic, and African languages. Prerequisite: Ling 290.

Ling 451. Syntax and Semantics. (g) 3 credit hours.

An introduction to the study of sentence structures in various languages and how these structures convey meaning. The course covers current techniques and theories for the analysis of sentential and lexical data. Prerequisite: Ling 290.

Upper-Division Courses Carrying Graduate Credit

Ling 460. Historical and Comparative Linguistics. (G) 3 credit hours.

An introduction to the principles of language change and of the comparative method with particular stress on the Indo-European language family. Prerequisite: Ling 290.

Ling 489. Dialect Geography. (G) 3 credit hours.

Investigation of the assumptions and methods of dialectology. A survey of principal dialect studies and atlas projects, including an examination of the major differences between British and American English, and of the principal dialect areas of the United States. Prerequisite: 6 credit hours in linguistics.

Ling 490. Sociolinguistics. (G) 3 credit hours.

Introduction to the study of language in a social matrix. Examination of social class and ethnic dialects, argots, and multi-lingual societies. Prerequisite: 6 credit hours in linguistics.

Graduate Courses

Ling 501. Research.

Credit hours to be arranged. A no-grade course.

Ling 503. Thesis.

Credit hours to be arranged. A no-grade course.

Ling 505. Reading and Conference.

Credit hours to be arranged.

Ling 507. Seminar.

Credit hours to be arranged.

Recent seminar topics in linguistics and related disciplines have been :

Phonology.

Syntax.

Semantics.

Psycholinguistics.

Structure of Sanskrit.

Indo-European linguistics.

Linguistic field work.

Nonverbal communication.

Linguistics and literary criticism.

Oregon Institute of Marine Biology

Director, Paul P. Rudy, Ph.D., Associate Professor of Biology.
Assistant Director, Robert C. Terwilliger, Ph.D., Assistant Professor of Biology.

THE University operates the Oregon Institute of Marine Biology at Charleston on Coos Bay, an environment where native vegetation and animal life have been preserved as far as possible.

Spring term at the Institute offers a multi-disciplined course for undergraduates, **Man and the Oregon Coast**, which coordinates the specialized knowledge of biology, sociology, geography, landscape architecture, political science, and urban planning. Environmental concerns are explored and solution to society's dilemmas are sought through an integration of these disciplines. Students are encouraged to gain first-hand appreciation of the pressures involved in practical decision-making at the local community level. A combination of lectures and field study uses the Coos Bay region as a natural laboratory.

The region is diverse, with urban complexes, estuarine coastal environments, agricultural lands, a major port, and large timber and fishing industries. The social-environmental problems engendered include unemployment, conflict in land use, management of coastal resources, potential urbanization, population increase,

tourist impact, industrial development, and declining timber and fishing stock. The region is a natural field station for observation.

Students and faculty reside on the Institute grounds in Charleston; a community of students and staff is able to evolve in a relaxed and informal setting which helps to blend the various disciplines, encourages personal interaction between teacher and student, and has proven to be an exceptionally stimulating educational arrangement. There are four large teaching laboratories with the dining hall serving as a fifth lecture-common room. The dormitories house fifty students, which is the upper enrollment limit. Three houses are on the station for the staff.

Russian and East European Studies

Chairman, James L. Rice, Ph.D., Associate Professor of Russian.

STUDENTS interested in the Russian language and literature as a major or minor field, or for filling other requirements, will also be interested in a wide variety of courses offered in other departments: General Arts and Letters, History, Political Science, Art History, Comparative Literature, Religious Studies, Geography, and the Linguistics Committee. Students may consult the *Time Schedule of Classes* and professors in these fields for courses to be offered in any given term: J. F. Beebe, A. Leong, J. Rice (Russian); J. Fisman, J. Merkle, M. G. Zaninovich (Political Science); A. Kimball, G. Alef (History); A. D. McKenzie (Art History); S. Reynolds (Religious Studies); C. E. Thurber (CSPA). Committee members are available to assist students in planning interdisciplinary programs in these fields.

Art History

THE University offers a comprehensive program of studies in the history of art through the Department of Art History in the School of Architecture and Allied Arts. All courses in the department are open to nonmajors.

Prehealth Sciences

Dentistry, Preparatory

Chairman, James Kezer, Ph.D., Professor of Biology.

THE COUNCIL on Dental Education of the American Dental Association has established the following minimum requirements for admission to an accredited dental school: at least two years (90 credit hours) of college education, including one year of English, general chemistry, biology, and physics; one-half year of organic chemistry; a grade-point average of at least 2.00. Many dental schools require longer attendance in preprofessional education and a variety of additional required courses are prescribed by individual dental schools. The University of Oregon Dental School requires that pre dental students devote at least three years to their pre dental education, completing a minimum of 135 credit hours of which 115 credit hours, including all of the pre dental requirements, must be pass-differentiated. A "no pass" for all other courses will be counted as a failing grade in the computation of the overall grade-point average.

The University offers a three-year pre dental curriculum, which satisfies these requirements, to prepare students for admission to the University of Oregon Dental School, and other accredited dental schools. The completion of this curriculum and two years of dental-school work satisfies all requirements for a bachelor degree from the University with a major in general science. With the proper choice of electives in the pre dental curriculum, the student may qualify for a bachelor degree with a major in biology.

Students who expect to complete the requirements for a bachelor degree at the Dental School should satisfy, in their pre dental program, all requirements for the degree (including general University requirements and requirements for a major in the College of Liberal Arts) that cannot be satisfied with work taken at the Dental School. For general University requirements for a bachelor degree, see the General Information section of this catalog.

Although a bachelor degree is not prerequisite to a professional degree in dentistry, the University of Oregon Dental School and most other dental schools recommend that their students qualify for this degree in addition to the professional degree.

Pre dental students are advised to begin correspondence with the University of Oregon Dental School or the dental school they plan to attend during the spring term of their first year at the University. Aptitude tests given by the American Dental Association should be taken not later than the fall term one year before admission; applications to take this test must be made well in advance of the scheduled date of the test. Pre dental students should consult the Dental School Catalog or a pre dental adviser for dates.

The following courses satisfy both the science requirements for admission to the University of Oregon Dental School and, with additional science instruction at the Dental School, the requirements for a major in general science.

Mathematics (above level of Mth 95) 12 credit hours
General Chemistry (Ch 104, 105, 106) 9 credit hours
Introductory Chemistry Laboratory (Ch 107), Introductory Analytical Chemistry I (Ch 108), Introductory Analytical Chemistry

II (Ch 109) (fulfills the "Quantitative Analysis" requirement of the University of Oregon Dental School) 6 credit hours
Organic Chemistry (Ch 331, 332), Introductory Organic Laboratory (Ch 337, 338) 10 credit hours
Biology 12-15 credit hours

(Students are directed to the office of the Department of Biology for a listing of the specific courses meeting the University of Oregon Dental School requirements.)

General Physics (Ph 201, 202, 203, Ph 204, 205, 206) 15 credit hours

Students seeking a major in biology should note that the lower division biology courses do not meet the biology major requirement. Students intending to major in General Science are directed to consult with the general science head adviser for information regarding biology courses meeting general science requirements.

Dental schools recommend that the pre dental student, in addition to completing the basic requirements listed above, choose electives which will broaden one's cultural background as well as strengthen one's scientific training. Courses in the following fields are suggested: developmental biology, microbiology, genetics, physical chemistry, mathematics, foreign language (completion of a second-year course), philosophy, public speaking, vocabulary for scientists, music and art appreciation, history, economics, sociology, psychology, literature, anthropology, and personnel management. Students are advised to explore their own interests and obtain the best possible general cultural education. The guidance of pre dental advisers in course planning is indispensable and their counsel should be sought at regular intervals.

Medicine, Preparatory

Chairman, Raymond G. Wolfe, Ph.D., Professor of Chemistry.

THE University offers a pre medical program which satisfies the requirements for admission to American medical schools, including the University of Oregon Medical School in Portland. The program is supervised by the Pre medical Advisory Committee, faculty members on the Eugene campus.

Medical schools have varying admission requirements. The requirements of a number of medical schools are listed in the publication, *Medical School Admission Requirements* (available at, One Dupont Circle N.W. Washington D.C. 20036, \$5.00, published by the Association of American Medical College). Students planning to seek admission to particular medical schools should consult this book.

Students may be admitted to medical school at the end of the junior year. The University of Oregon Medical School requires that the student must have earned the Bachelor of Arts or Bachelor of Science degree before entrance or must complete the work for the degree at the University of Oregon, or the institution at which pre medical preparation was completed, before entering upon the work of the third year at Medical School. Under University of

Oregon regulations, a maximum of 48 credit hours in medicine may be counted as credit earned in residence toward the bachelor degree. Students hoping to complete bachelor-degree requirements during the first two years of medical school must complete required courses unavailable at the medical school by the end of the junior undergraduate year. Alternatively, suitable courses may be taken during summer school.

It is mandatory that students fulfill the requirements for an academic subject major; premedicine is not one of these. Also, students should become familiar with the requirement of the medical schools to which application is to be made and, in consultation with an academic adviser, arrange an appropriate program. The specific requirements for majoring in the various departments are found in the catalog under department headings; those for General Science are found on page 65.

The importance of good letters of recommendation from experienced faculty cannot be overemphasized. It is strongly recommended that premedical students see their adviser each term so that the adviser will be able to write a meaningful recommendation when it is needed.

Students are urged to exercise the pass-no-pass option sparingly, if at all. Courses taken to satisfy the Science requirements must be graded.

Minimum requirements for admission to the University of Oregon Medical School are as follows:

(1) General Chemistry, quantitative analysis and two terms of Organic Chemistry with laboratory (Chemistry 104-109 or 204-209, and Chemistry 331, 332, 337, and 338).

(2) Three terms of Biology covering basic concepts of cell structure and function, developmental biology (embryology), and genetics. Premedical students may take the sequence Bi 301, 302, and 303, or, the sequence Bi 304, 305, and 306. Students who intend to take both sequences should take them in numerical order; both are required for a biology major. Detailed syllabi for these courses are available at the Biology department office or from a premedical adviser. Biology courses numbered 100 to 199 are not acceptable.

(3) Mathematics through an introductory course in calculus.

(4) A year sequence in Physics with laboratory, covering at least mechanics, heat, and electricity. (Physics 201, 202, and 203.)

(5) A year sequence in Psychology, satisfying either the social science or the science group requirement. (Psychology 214, 215, and 216 are acceptable.)

Specific courses are suggestion only and, in some instances, alternative courses may be acceptable or preferred to meet specific major requirements. More detailed information on curriculum, applications to medical schools, and the medical profession is available at the Pre-Health Sciences Student Union Office (Room 205 Gerlinger Hall).

Nearly all medical colleges require applicants to take the Medical College Admissions Test, for which advance registration is required about one month before the examination. Although examinations are given in May and October, the deadline for the October examination occurs before University classes begin in September and it is recommended that the examination be taken in May. Application forms for this test are available in the Office of Admissions, or in the Chemistry Department.

The Premedical Advisory Committee makes a committee evaluation of University of Oregon students seeking admission to medical schools. Students should register for evaluation with the Premedical Advisory Committee in September of the year they make application to medical school.

Medical Technology

Head Adviser, Bayard H. McConnaughey, Ph.D., Professor of Biology.

THE University offers a four-year program in medical technology, leading to the bachelor degree. The program includes three years of work on the Eugene campus and one year at the Medical School in Portland. Minimum admission requirements to medical technology training at the Medical School are three years of college work including 24 credit hours of biology which must include a course in bacteriology, 24 credit hours of chemistry including one full year of a general college chemistry course with lectures and laboratory, and one term of college mathematics; a course in physics is strongly recommended.

During the three years on the Eugene campus, the student must satisfy (1) all general University degree requirements for majors in professional schools that cannot be satisfied with work taken at the Medical School, and (2) the special science requirements for admission to the fourth-year program at the Medical School. The following recommended courses satisfy the science requirements:

Mathematics (above Mth 95)	12 credit hours
Cell Biology (Bi 301, 302, 303) or any three terms of Biology numbered 100 to 199	12-15 credit hours
General Chemistry (Ch 104, 105, 106)	9 credit hours
Introductory Chemistry Laboratory (Ch 107)	2 credit hours
Introductory Analytical Chemistry I (Ch 108)	2 credit hours
Introductory Analytical Chemistry II (Ch 109)	2 credit hours
Organic Chemistry (Ch 331, 332, Ch 337, 338)	10 credit hours
Quantitative Analysis (Ch 324)	4 credit hours
Any three terms of Physics numbered 100 to 199	9 credit hours
Intro. to Bacteriology (Bi 381, 383)	5 credit hours
Upper-division Biology	3 credit hours

The curriculum for the fourth-year program at the Medical School is as follows:

Fall Term

Clinical Bacteriology (MT 410)	4 credit hours
Laboratory Orientation (MT 413)	2 credit hours
Clinical Biochemistry (MT 424)	5 credit hours
Principles of Hematology (MT 430)	5 credit hours
Radioisotope Techniques (MT 520)	1 credit hour

Winter Term

Clinical Bacteriology (MT 411)	6 credit hours
Clinical Biochemistry (MT 425)	6 credit hours
Special Hematology (MT 431)	3 credit hours
Radioisotope Techniques (MT 521)	1 credit hour

Spring Term

Urinalysis (MT 414)	4 credit hours
Historical Technique (MT 420)	2 credit hours
Immunohematology (MT 432)	3 credit hours
Applied Serology (MT 436)	4 credit hours
Clinical Parasitology (MT 437)	3 credit hours
Radioisotope Laboratory (MT 522)	1 credit hour

Students planning to graduate from the University of Oregon prior to their year of training in Medical Technology must meet all general University requirements for regular students (rather

than those for majors in the professional schools) and all special requirements for their major (General Science, Biology, Chemistry, or other). Students who have completed their bachelor degree may take their Medical Technology training at any school or hospital in the country which offers such a program, rather than being limited to the University of Oregon Medical School in Portland and the Sacred Heart Hospital, Eugene.

Nursing, Preparatory

Dean, Jean E. Boyle, M.N., Professor.

Coordinator, Guili J. Olson, M.S., R.N., Associate Professor.

THE University offers on the Eugene campus a three-term pre-nursing curriculum to prepare students for admission to the University of Oregon School of Nursing located on the campus of the Medical School in Portland. Beginning with the 1974-75 academic year, bachelor-degree candidates will be admitted once a year at the opening of the fall term. The total nursing curriculum leading to the B.S. degree requires four academic years.

The requirements for admission to the School of Nursing are as follows: (1) Completion of a required freshman program at the University of Oregon, or at any accredited junior college, community college, college, or university whose program is acceptable for transfer of credit to the University of Oregon.

(2) A grade point average of at least 2.25 must be maintained for the freshman year program. Scholastic achievement is only one of the criteria for admission; therefore attainment of a minimum 2.25 GPA does not necessarily assure admission to the School of Nursing. Because of the professional nature of nursing and the responsibility of the profession to the public, the faculty of the School has established high standards of student selection.

(3) A satisfactory rating on the National League for Nursing, Prenursing, and Guidance Examination. This examination should be taken early in the student's freshman year; application to take the examination should be made well in advance. Prenursing students should consult their prenursing adviser or write to the School of Nursing concerning examination dates.

Initial application for admission to the School of Nursing should be made in January of the student's freshman year. A transcript showing completion of the prenursing requirements should be filed at the close of the spring term in June.

To make application for admission to the School of Nursing, a student must file an application for admission and have a personal interview whenever possible. Applications are available after January 1 and must be completed and on file in the Registrar's Office prior to April 1. Applications will be reviewed by the Admissions Committee and notice sent to the applicant by June.

The required freshman prenursing program totals 48-51 credit hours distributed as follows: English Composition (Wr 111 or Wr 121) 3 credit hours, fall term; Arts and Letters, 3 credit

hours each term; Elementary Chemistry (Ch 101, 102, 103 or 104, 105, 106) 3-4 credit hours each term; Social Science (Anth 101, 102, or 103 required) 3 credit hours each term; electives to be selected from Arts and Letters, Social Sciences, or Sciences, 3 credits fall term, 6 credits winter; Nutrition (HEc 225, or HEc 214, or FN 225) 3 credit hours, spring; Backgrounds for Nursing (Nur 121) 3 credit hours spring; Physical Education, 1 credit hour each term.

For the student who is a registered nurse, the length of the program will vary, depending upon his or her previous education and the course load carried while at the University. The distribution of required courses provides a balance between general and professional education. An academic adviser at the School of Nursing will assist the student in program planning. Included is transfer credit from previous study, and availability of credit through examinations such as CLEP and other tests.

For details of the bachelor-degree and master-degree programs, obtain a copy of the School of Nursing catalog by writing to Dean Jean Boyle, University of Oregon School of Nursing, 3181 S.W. Sam Jackson Park Road, Portland, Oregon 97201.

Nur 121. Background for Nursing. 3 credit hours.

The historical background of modern social and health movements; the relation of these to the evolution of nursing as a profession. Olson.

Pharmacy, Preparatory

THE University of Oregon offers a two-year prepharmacy program to prepare students for admission to the Oregon State University School of Pharmacy in Corvallis or to other accredited pharmacy schools. Judson Pond, senior instructor in the Department of Chemistry, serves as adviser to University of Oregon prepharmacy students. Information on recommended and required courses may be obtained from Mr. Pond.

Dental Hygiene

Head Adviser, Robert E. Kime, Ph.D., Professor of Health Education.

THE University offers a program of study leading to dental-hygiene training and a degree from the University of Oregon Dental School in Portland. Details appear in the College of Health, Physical Education, and Recreation section of this catalog. All pre-dental hygiene advising is conducted by the Department of Health Education in that College.

Anthropology

Faculty

- Department Head, Don E. Dumond, Ph.D., Professor of Anthropology (New World archaeology). B.A., New Mexico, 1949; M.A., Mexico City College, 1957; Ph.D., Oregon, 1962; at Oregon since 1962.
- C. Melvin Aikens, Associate Professor of Anthropology (New World archaeology). B.A., Utah, 1960; M.A., 1962, Ph.D., 1966, Chicago; at Oregon since 1968.
- Homer G. Barnett, Ph.D., Professor Emeritus of Anthropology (cultural change). A.B., Stanford, 1927; Ph.D., California, 1938; at Oregon since 1939.
- Richard P. Chaney, Ph.D., Assistant Professor of Anthropology (cross-cultural methods). B.A., 1963, Ph.D., 1970, Indiana; at Oregon since 1968.
- Luther S. Cressman, Professor Emeritus of Anthropology (archaeology of western North America). A.B., Pennsylvania State, 1918; S.T.B., General Theological Seminary, 1923; M.A., 1923, Ph.D., 1925, Columbia; at Oregon since 1929.
- Vernon R. Dorjahn, Ph.D., Professor of Anthropology (cultural anthropology, Africa). B.S., Northwestern, 1950; M.A., Wisconsin, 1951; Ph.D., Northwestern, 1954; at Oregon since 1956.
- Philip G. Grant, M.A., Visiting Assistant Professor of Anthropology (physical anthropology; primate anatomy). B.A., Stanford, 1964; B.A., 1964, M.A., 1968, California, Berkeley.
- Charles J. Hoff, Ph.D., Assistant Professor of Anthropology (physical anthropology; human genetics and human adaptability). B.S., 1961, M.A., 1968, Ph.D., 1972, Pennsylvania State; at Oregon since 1970.
- Malcolm McFee, Ph.D., Associate Professor of Anthropology (cultural anthropology, North American Indians). B.A., San Jose State, 1956; M.A., 1958, Ph.D., 1962, Stanford; at Oregon since 1965.
- Richard C. Schmidt, Ph.D., Assistant Professor of Anthropology (linguistics; North American Indians). B.A., 1965, M.A., 1966, Washington University (St. Louis); Ph.D., Tulane, 1971; at Oregon since 1969.
- Ann G. Simonds, Ph.D., Assistant Professor of Anthropology (cultural anthropology; Oceania). B.A., 1959, Ph.D., 1964, California, Berkeley; at Oregon since 1966.
- Paul E. Simonds, Ph.D., Associate Professor of Anthropology (human evolution, primate behavior). B.A., 1954; Ph.D., 1963, California, Berkeley; at Oregon since 1962.
- Alfred G. Smith, Ph.D., Professor of Anthropology (communication). A.B., Michigan, 1943; M.A., 1947, Ph.D., 1956, Wisconsin; at Oregon since 1962.
- Theodore Stern, Ph.D., Professor of Anthropology (cultural anthropology; North American Indians, Southeast Asia). B.A., Bowdoin, 1939; A.M., 1941, Ph.D., 1948, Pennsylvania; at Oregon since 1948.
- Robert Tonkinson, Ph.D., Assistant Professor of Anthropology (social anthropology; Oceania and Australia). B.A., 1962,

M.A., 1966, Western Australia; Ph.D., British Columbia, 1972; at Oregon since 1971.

Philip D. Young, Ph.D., Associate Professor of Anthropology (social anthropology; Latin America). B.A., 1961, Ph.D., 1968, Illinois; at Oregon since 1966.

Graduate Teaching Fellows

- Douglas C. Chen, B.A., National Taiwan University, 1963; M.A., Oregon, 1971; at Oregon since 1971.
- J. Samuel Fujisaka, B.A., Fresno State, 1972; at Oregon since 1972.
- Bernard J. Gaydos, B.S., Kings College, 1967; at Oregon since 1971.
- Sylvia Hart, B.A., Wisconsin, 1972; at Oregon since 1972.
- Winfield G. Henn, B.A., San Francisco State, 1967; at Oregon since 1971.
- Anne E. Hoffman, B.A., California, Davis, 1971; M.A., Oregon, 1973; at Oregon since 1971.
- Joanne M. Mack, B.A., San Francisco State, 1965; M.A., Wyoming, 1971; at Oregon since 1971.
- Julie A. Mathews, B.A., Montana, 1971; at Oregon since 1971.
- Janice Peterson, B.S., Portland State, 1967; at Oregon since 1972.
- Susan Schaeffer, B.A., Wisconsin, 1971; at Oregon since 1972.

Undergraduate Studies

ANTHROPOLOGY embraces the study of human development and diversity, both physical and social, and may be divided between social or cultural anthropology, physical anthropology, and prehistory. The courses offered are intended to provide a broad understanding of human nature and society for students in all fields, as well as integrated programs for majors in anthropology.

Recent graduates in anthropology who have not chosen to continue their studies beyond the baccalaureate are to be found in all of those pursuits normally open to other graduates in the various liberal arts, as well as among teachers of social studies in secondary schools. A bachelor degree alone, however, is seldom sufficient to permit the graduate to secure professional employment as an anthropologist or as a social scientist.

High school students planning to major in anthropology are advised to take two years of high school mathematics, preferably algebra, and some work in a modern foreign language, preferably German, Russian, French, or Spanish. Students should also have a sound background in English, so that they can read with understanding and express themselves with clarity.

A two-year transfer student is advised to come with a year's work in introductory anthropology if possible, otherwise, with introductory courses in other social sciences. Introductory biology, introductory computer science, and the equivalent of two years of college instruction in one of the modern foreign languages listed above will be helpful.

The department offers work leading to the Bachelor of Arts and the Bachelor of Science. The major requirements are the same for both (differences between the two degrees in other respects are explained in the general section of the catalog).

Majors in anthropology are required to take the following courses:

- (1) 9 credit hours in General Anthropology (Anth 101, 102, 103);
- (2) 9 credit hours in physical anthropology at the 300-499 level;
- (3) 9 credit hours in cultural anthropology at the 300-499 level;
- (4) one 9-hour sequence in archaeology at the 300-499 level; (5) three electives (9 credit hours) at the 400 level.

Of the 45 credit hours in anthropology, 36 credit hours must be graded. To insure a broad liberal education, it is strongly recommended that the student limit undergraduate work in anthropology to a maximum of 51 credit hours. Students planning to do graduate work are advised, but not required, to take two years of German and two years of a second foreign language, preferably French, Spanish, or Russian. Preparation in statistics and computer science is desirable.

Model Programs for the Undergraduate Major. Major requirements may be met by the following schedule. Freshman year: General Anthropology, Anth 101, 102, 103 (may be taken in any order). Sophomore year: no prescribed anthropology courses; may choose electives among Anth 207, 208, 209. Junior year: 9 credit hours in cultural anthropology, Anth 301, 302, 303 or Anth 445, 446, 447, or area sequences; 9 credit hours in physical anthropology, chosen from Anth 320, 321, 322, 323, 470, 474, 475, 476, 477. Senior year: one three-term series in prehistory, Anth 411, 412, 413 or Anth 461, 462, 463; 9 credit hours of optional courses at the 400-499 level.

Secondary School Teaching of Social Studies. For certification as a teacher of social studies in Oregon high schools, the Oregon Board of Education requires (1) the satisfaction of certain minimum standards of subject preparation; (2) the satisfaction of certain minimum standards of professional education preparation; and (3) the recommendation of the institution at which the student completes the subject matter preparation.

For details of this program, consult the special adviser for teacher education in the Department of Anthropology, or the Office of Student Teaching and Teacher Certification in the College of Education.

Graduate Studies

THREE advanced degrees are offered in anthropology, the Master of Arts, the Master of Science, and the Doctor of Philosophy. These degrees entail work in the following subfields: archaeology, cultural anthropology, linguistics, and physical anthropology. Graduate students are required to demonstrate competence in each of these subfields, ordinarily in work at the master level. Consequently, the first year, and, in some instances, the first two years of graduate study are devoted to achieving a broad foundation in anthropology for the specialization to follow.

The master degrees each require a minimum of 45 credit hours of graduate work, of which at least 30 must be in anthropology, and the successful completion of a General Examination in the four subfields of anthropology mentioned above. No thesis is required. To receive the M.A., the candidate must also demonstrate competence in one foreign language. There is no language requirement for the M.S., but the candidate for that degree must

demonstrate proficiency in one special skill (such as statistics or computer science) approved by the department faculty. The master degrees are appropriate for employment in certain positions in government, museums, or junior colleges.

There are no absolute requirements for admission to the master program. A baccalaureate degree in anthropology is helpful, but by no means required. Admission is limited, however, and preference is given to those applicants with good overall academic records who have had at least a solid beginning in anthropology, who have had some training in foreign languages, and who can demonstrate evidence of a sincere interest in the field.

Requirement for admission to the doctoral program is the possession of a valid master degree in anthropology from a recognized institution, or the completion of the General Examination. Those who enter with a master degree in another discipline, therefore, will take the General Examination early in the program.

The Ph.D. qualifies the holder for full university teaching and research careers, in addition to those just noted. Formal requirements of time and credit are secondary, but no candidate will be recommended for the degree until the minimum Graduate School requirements for credits, residence, and study have been satisfied. In addition, the department requires that the candidate demonstrate competence in two modern foreign languages or in two substitute special skills, approved by the department faculty. The student's progress is determined by performance on the General Examination, in course work, research papers, in a Comprehensive Examination in three special fields of concentration within anthropology, and finally in the dissertation. The dissertation should be based upon original research, which ordinarily involves field or laboratory work. It must be written in fully professional and publishable style appropriate to the subfield of specialization.

Information regarding general requirements of the Graduate School is included in the appropriate section of this catalog. More specific information regarding advanced degree programs in anthropology may be obtained from the Department of Anthropology.

Anth 101. General Anthropology: Biology of Man. 3 credit hours.

Man as a living organism; biological evolution; fossil man. Two lectures, one discussion period. Grant, Hoff, P. Simonds.

Anth 102. General Anthropology: Prehistory. 3 credit hours.

Archaeological evidence for the evolution of human culture. Two lectures, one discussion period. Aikens, Dumond.

Anth 103. General Anthropology: Social Anthropology. 3 credit hours.

Organization and functioning of society and culture. Two lectures, one discussion period. Dorjahn, Schmidt, A. Simonds.

Anth 199. Special Studies. 1-3 credit hours.

Anth 207, 208, 209. Introduction to Cultural Anthropology. 3 credit hours each term.

The meaning of culture; its significance for human beings. Fall: human ethology. Winter: human communication. Spring: language in culture. Need not be taken in sequence. P. Simonds, Smith, Schmidt.

GS 210. Fundamentals of Evolution. 3 credit hours.

Historical development of evolutionary thought; evidence of evolution from the fossil record, comparative anatomy and physiology; functional systems as evidence of adaptations;

Mendel and the genetic mechanisms of evolution. Evidence of modern microevolution.

Anth 301, 302, 303. Society and Culture. 3 credit hours each term.

An introductory course in cultural anthropology for upper-division students. Peoples from different parts of the world are examined in detail, with emphasis on comparative social organization. Prerequisite: upper-division standing. Tonkinson.

Anth 320. Human Ecology. 3 credit hours.

Human evolution, ecology, and adaptation; cultural, demographic, and biological modes of adaptation. Prerequisite: 9 credit hours in anthropology, 9 credit hours of biology, or consent of instructor. Hoff.

Anth 321. Palaeoanthropology. 3 credit hours.

Fossil evidence of human evolution; man's place among the primates; variability of populations of fossil hominids. Prerequisite: 9 credit hours in anthropology, or consent of instructor. P. Simonds.

Anth 322. Biology of Living Human Populations. 3 credit hours.

Genetic and biological structure of human populations; population dynamics and causes of diversity; analysis of genetically differentiated human populations and their geographic distribution. Prerequisite: 9 credit hours in anthropology, or consent of instructor. Hoff.

Anth 323. Laboratory in Physical Anthropology. 3 credit hours.

Optional laboratory for students enrolled in Anth 320, 321, or 322. Human and nonhuman primate osteology and osteometry; anthropometry; fundamentals of dissection and primate anatomy. Grant.

Anth 401. Research.

Credit hours to be arranged.

Anth 403. Thesis.

Credit hours to be arranged.

Anth 405. Reading and Conference.

Credit hours to be arranged.

Anth 409. Supervised Tutoring Practicum. 1-3 credit hours any term.

No-grade course.

Upper-Division Courses Carrying Graduate Credit

Anth 407. Seminar. (g)

Credit hours to be arranged.

Anth 408. Field Work in Anthropology. (G)

Credit hours to be arranged.

Anth 411, 412, 413. Old World Prehistory. (G) 3 credit hours each term.

Survey of the main developments in the prehistory of the Old World. Fall, Winter: Paleolithic, Neolithic. Spring: Development of urban life. Prerequisite: upper-division standing.

Anth 414. Race and Culture. (G) 3 credit hours.

Racial classifications and comparisons; the biological base of culture; attitudes toward race in human relations. Prerequisite:

9 credit hours in anthropology, or consent of instructor. P. Simonds.

Anth 415. Cultural Transmission. (G) 3 credit hours.

Methods of child rearing, education, and social control among primitive peoples. Prerequisite: 9 credit hours in anthropology, or consent of instructor. McFee, Stern.

Anth 416. History of Anthropology. (G) 3 credit hours.

A nontheoretical exposition of the beginnings and specialized developments within the fields of archaeology, physical anthropology, ethnology, and linguistics. Prerequisite: 9 credit hours in anthropology, or consent of instructor. Smith.

Anth 417. The American Indian: North America. (G) 3 credit hours.

Indian and Eskimo life in North America before white contact; contemporary life. Prerequisite: 9 credit hours in anthropology, or consent of instructor. McFee.

Anth 418. The American Indian: Mexico and Central America. (G) 3 credit hours.

Contact period and contemporary ethnography of native peoples; demography, socio-economic organization, culture change. Prerequisite: 9 credit hours in anthropology, or consent of instructor. Young.

Anth 419. The American Indian: South America. (G) 3 credit hours.

Contact period and contemporary ethnography of native peoples; demography, socio-economic organization, and culture change. Prerequisite: 9 credit hours in anthropology, or consent of instructor. Young.

Anth 423, 424, 425. Peoples of the Pacific. (G) 3 credit hours each term.

Fall: Aboriginal Australia, traditional culture and social change. Winter: Melanesia, cultural themes, social organization, religion, Cargo Cults. Spring: Micronesia and Polynesia, migration theories, ecology and social stratification, contemporary politics and problems. Prerequisite: 9 credit hours of social or cultural anthropology, or consent of instructor. Tonkinson.

Anth 426, 427, 428. Peoples of Africa. (G) 3 credit hours each term.

The cultures of Sub-Saharan Africa; their history and development; their contemporary problems. Fall: current problems and South Africa. Winter: Central and East Africa. Spring: West Africa, the Sudan, and the Sahara. Prerequisite: 9 credit hours in anthropology, or consent of instructor. Dorjahn.

Anth 438, 439, 440. Peoples of Southern and Eastern Asia. (G) 3 credit hours each term.

Introduction to the cultures of India and Pakistan, China, and Southeast Asia; development of distinctive culture configurations; interrelationships of culture; impact of westernization; ethnic and linguistic factors. Fall: South Asia; winter: the Chinese culture sphere; spring: Southeast Asia. Prerequisite: 9 credit hours in anthropology, or consent of instructor. Stern.

Anth 441, 442, 443. Linguistics. (G) 3 credit hours each term.

Fall: nature and forms of language; linguistic structure and change; relation of language and culture; macro-sociolinguistics. Winter: sound patterning (phonetics and phonemics); grammatical structuring (morphology and syntax); micro-sociolinguistics. Spring: techniques of sociolinguistic and descriptive linguistic recording and analysis; work with native speakers. Prerequisite: senior standing, consent of instructor. Schmidt.

Anth 444. Religion and Magic of Primitives. (G) 3 credit hours.

The religions and systems of magic of primitive peoples as reflections of their thought processes; supernatural systems in the life of primitive people. Prerequisite: 9 credit hours in anthropology, or consent of instructor. McFee, Stern.

Anth 445. Folklore and Mythology of Primitives. (G) 3 credit hours.

Unwritten literature as an expression of the imaginative and creative thought of primitive peoples. Prerequisite: 9 credit hours in anthropology, or consent of instructor. McFee, Stern.

Anth 446. Art Among Primitives. (G) 3 credit hours.

The artist and aesthetic expression among primitive peoples. Prerequisite: 9 credit hours in anthropology, or consent of instructor. McFee, Stern.

Anth 447. Kinship and Social Structure. (g) 3 credit hours.

An empirical and theoretical examination of the interrelationship of kinship and the structure of society. Prerequisite: Anth 103, or Anth 301, 302, 303, or consent of instructor. A. Simonds.

Anth 450, 451, 452. Cultural Dynamics. (G) 3 credit hours each term.

Evaluation of approaches to the problem of cultural changes; analysis of invention and intergroup cultural borrowing; agents and conditions promoting change; mechanics of cultural growth; application of techniques for inducing change. Prerequisite: 9 credit hours in anthropology, or consent of instructor.

Anth 456, 457, 458. Communication and Culture. (G) 3 credit hours each term.

Interaction of people through verbal and nonverbal signals, codes, messages, and networks; an integration of anthropology with information theory and social psychology. Prerequisite: 9 credit hours in anthropology, or consent of instructor. Smith.

Anth 461. New World Prehistory: North America. (G) 3 credit hours.

Survey of interdisciplinary research applied to prehistoric man and his environment in North America. Prerequisite: 9 credit hours in anthropology, or consent of instructor. Aikens.

Anth 462. New World Prehistory: Middle America. (G) 3 credit hours.

The archeology and prehistory of Mexico and Central America. Prerequisite: 9 credit hours in anthropology, or consent of instructor. Dumond.

Anth 463. New World Prehistory: South America. (G) 3 credit hours.

Survey of interdisciplinary research related to prehistoric man in South America. Prerequisite: 9 credit hours in anthropology, or consent of instructor. Aikens.

Anth 464. Scientific Aids in Archaeology. (G) 3 credit hours.

Research methods applied to archaeological problems. Includes dating and discovery techniques; analysis of materials, human remains, diet and ancient technology; interdisciplinary research strategies. Prerequisite: 9 credit hours of anthropology, or consent of instructor.

Anth 465. Prehistoric Technology. (G) 3 credit hours.

Introduction to stone-flaking techniques; manufacture of stone artifacts; typological analysis of tools. Investigation of tool usage and microscopic analysis of wear patterns. Consent of instructor is required.

Anth 466. Tabletop Archaeology. (G) 3 credit hours.

Simulated archaeological excavation, followed by preparation of descriptive and comparative reports. Prerequisite: 9 credit hours in advanced prehistory courses, and consent of instructor. Aikens.

Anth 470. Speciation and Natural Selection. (G) 3 credit hours.

Detailed analysis of the environmental and biological phenomena leading to the multiplication of species; the genetic basis of selection, examination of theoretical and mathematical explanations of evolutionary theory. Consent of instructor required. Hoff.

Anth 474. Advanced Laboratory in Physical Anthropology. (G) 3-6 credit hours.

Introduction to techniques for the assessment and analysis of genetic, physiological, and anthropometric variability in living human populations. Registration in excess of 3 credit hours must have instructor's consent. Prerequisite: Anth 322 (may be taken concurrently). Hoff.

Anth 475. Primate Behavior. (G) 3 credit hours.

Ecology and ethology of free-ranging primates. Classification, distribution and ecological relationships of the living primates; social structure and social organization of a variety of species. Materials are drawn primarily from field studies, secondarily from laboratory studies. Prerequisite: upper division standing, or consent of instructor. P. Simonds.

Anth 476. Primate Anatomy. (G) 3 credit hours.

Comparative functional anatomy of the primates. Emphasis upon bone-muscle relationships of the locomotor and masticatory skeleton. Comparison of living and fossil primates, including man. Prerequisite: Anth 101, or consent of instructor. Grant.

Anth 477. Primate Systematics and Taxonomy. (G) 3 credit hours.

Historical development of taxonomy; methods and principles of evolutionary classification; numerical phenetics and taxonomic theory; primate and hominid classification. Prerequisite: Anth 320, Anth 321, Anth 502, or consent of instructor. P. Simonds.

Anth 478. Laboratory in Primate Anatomy. (G) 2 credit hours.

Optional laboratory for students enrolled in Anth 476. Primate osteology and myology; dissection of specimens; individual projects. Two three-hour laboratory periods. Consent of instructor is required. Grant.

Anth 479. Paleoprimatology. (G) 3 credit hours.

The fossil record and theoretical implications of the Cenozoic primates with special reference to their various adaptations: locomotion, special senses, dentition. The evolution of hominid characteristics is traced as far as possible. Prerequisite: Anth 320, or consent of instructor. Grant, P. Simonds.

Graduate Courses

Anth 501. Research.

Credit hours to be arranged. No-grade course.

Anth 502. Research Methods in Anthropology.

Credit hours to be arranged. Orientation of graduate students to basic research tools, particularly the explicit inductive

methods of statistical and other types of formal analysis needed to formulate and conduct research. Three terms required of majors in the first year of graduate study. Chaney, Hoff.

Anth 503. Thesis.

Credit hours to be arranged. No-grade course.

Anth 505. Reading and Conference.

Credit hours to be arranged. No-grade course.

Anth 506. Special Problems.

Credit hours to be arranged.

Anth 507. Seminar.

Credit hours to be arranged.

Anth 509. Supervised Tutoring Practicum.

Credit hours to be arranged. No-grade course.

Anth 511. Culture, Society, and the Individual. 3 credit hours.

A review and evaluation of the concepts of culture and society, as the terms are employed by anthropologists. The relationships between culture and society, between culture and the individual, and between society and the individual. Prerequisite: graduate standing in the social sciences.

Anth 512. The Beginnings of Civilization. 3 credit hours.

The transition from food-gathering to food-producing economies, and from egalitarian to state-level societies. Prerequisite: graduate standing in the social sciences. Aikens.

Anth 513, 514. Primitive Social Organization. 3 credit hours each term.

Primitive social organization, with particular emphasis on family, marriage, residence, descent systems, lineage organization, alliance, and analysis of kinship systems. Young.

Anth 515. Primitive Political Systems. 3 credit hours.

Government in primitive societies, considered from a cross-cultural perspective. Special attention to political innovations under colonial rule, and to the new nationalistic administrations in Africa and Asia. Prerequisite: graduate standing in social science. Dorjahn.

Anth 516. Primitive Economic Systems. 3 credit hours.

Production, consumption, distribution, and exchange in primitive societies. Special attention to the economic surplus, change in economic systems, and relationships between nonpecuniary

economies and the world economy. Prerequisite: graduate standing in social science. Dorjahn.

Anth 521. Functional Anatomy. 3 credit hours.

Comparative functional studies of primates and other animals. Principles of animal mechanics. Students will be expected to engage in individual research projects, two three-hour laboratory periods. Prerequisite: Anth 476, or Bi 391, 392, or consent of instructor. Grant.

Anth 522. Comparative Morphology and Human Evolution. 3 credit hours.

Principles of comparative morphology and comparative morphology of the primates. Application to the study of the primate fossils implicated in the evolution of man. Consent of instructor required. Grant.

Anth 526. Archaeology and Anthropology. 3 credit hours.

Examination of the use by archaeologists of theoretical and methodological concepts drawn from anthropology, with consideration of the modifications and additions to these concepts made necessary by the nature of archaeological data. Consent of instructor is required. Aikens, Dumond.

Anth 530. Cultural Ecology. 3 credit hours.

Interrelationships of environment, technology, and social organizations. Dumond.

Anth 570. Basic Graduate Physical Anthropology. 3 credit hours.

An introduction to physical anthropology for graduate students who have had little or no background in the area. Introduces students to the major subfields in physical anthropology; their data, theory, and problems. Topics covered are: geochronology, principles of classification applied to primates, paleoprimatology, paleoanthropology, modern human biology and diversity, processes of evolution as applied to man, and primate and human ethology. Grant, Hoff, P. Simonds.

Anth 575. Advanced Primate Ethology. 3 credit hours any term.

For students of primate behavior and adaptation. Special emphasis is placed on advanced work in primate studies with a focus chosen each time it is offered. May be repeated for credit. Prerequisite: Anth 475 or equivalent work, and consent of instructor. P. Simonds.

Biology

Faculty

- Department Head, Sanford S. Tepfer, Ph.D., Professor of Biology (plant development; floral development). B.S., College of City of New York, 1938; M.S., Cornell, 1939; Ph.D., California, Berkeley, 1950; at Oregon since 1955.
- Andrew S. Bajer, D.Sc., Professor of Biology (cell division; mechanism and fine structure). M.A., 1949, D.Sc., 1956, Cracow; at Oregon since 1964.
- David L. Barker, Ph.D., Assistant Professor of Biology (biochemistry of identified nerve cells). B.S., California Institute of Technology, 1963; Ph.D., Brandeis, 1969; at Oregon since 1971.
- Howard T. Bonnett, Jr., Ph.D., Associate Professor of Biology (plant morphogenesis). B.A., Amherst, 1958; Ph.D., Harvard, 1964; at Oregon since 1965. (Sabbatical leave 1973-74.)
- William E. Bradshaw, Ph.D., Assistant Professor of Biology (environmental physiology; ecology and phenology of insects). B.A., Princeton, 1964; M.S., 1965, Ph.D., 1969, Michigan; at Oregon since 1971.
- George C. Carroll, Ph.D., Associate Professor of Biology (microbiology, coniferous forest canopy; spore development, fungi). B.A., Swarthmore, 1962; Ph.D., Texas, 1966; at Oregon since 1967. (Sabbatical leave, 1973-74.)
- Richard W. Castenholz, Ph.D., Professor of Biology (algal and microbial ecology). B.S., Michigan, 1952; Ph.D., Washington State, 1957; at Oregon since 1957.
- Clarence W. Clancy, Ph.D., Professor Emeritus (developmental genetics). B.S., 1930, M.S., 1932, Illinois; Ph.D., Stanford, 1940; at Oregon since 1940.
- Stanton A. Cook, Ph.D., Associate Professor of Biology (ecology and evolution). A.B., Harvard, 1951; Ph.D., California, Berkeley, 1960; at Oregon since 1960. (Sabbatical leave, 1973-74.)
- John C. Fentress, Ph.D., Associate Professor of Psychology and Biology (behavioral biology). Director, Bio-social Research Facility. B.A., Amherst, 1961; Ph.D., Cambridge, 1965; at Oregon since 1967.
- Peter W. Frank, Ph.D., Professor of Biology (population ecology). B.A., Earlham, 1944; Ph.D., Chicago, 1951; at Oregon since 1957.
- Philip Grant, Ph.D., Professor of Biology (developmental biology). B.S., College of City of New York, 1947; M.A., 1949, Ph.D., 1952, Columbia; at Oregon since 1966. (Sabbatical leave, 1973-74.)
- Jane Gray, Ph.D., Professor of Biology (paleobotany and palynology). Curator of Paleobotany, Museum of Natural History. B.A., Radcliffe, 1951; Ph.D., California, Berkeley, 1958; at Oregon since 1963.
- Donald R. Hague, Ph.D., Assistant Professor of Biology (molecular aspects of plant development and function). B.S., Franklin and Marshall, 1953; Ph.D., Oregon, 1966; at Oregon since 1966.
- M. Charlene Heimbigner, M.S., Instructor in Biology (thermo-philic algae). B.S., Washington State, 1963; M.S., Oregon, 1967; at Oregon since 1967.
- Ira Herskowitz, Ph.D., Assistant Professor of Biology (control of gene expression in bacteriophage, bacteria, and yeast; phage-host interactions). B.S., California Institute of Technology, 1967; Ph.D., Massachusetts Institute of Technology, 1971; at Oregon since 1972.
- Harrison M. Howard, Senior Instructor in Biology (microscopy and scientific photography); at Oregon since 1968.
- Graham Hoyle, D.Sc., Professor of Biology (neurophysiology). B.Sc., (chemistry, physics), 1944, B.Sc., 1950, (zoology, botany), London; D.Sc., Glasgow, 1955; at Oregon since 1961.
- James Kezer, Ph.D., Professor of Biology (chromosome structure and function). B.A., Iowa, 1930; M.S., 1937, Ph.D., 1948, Cornell; at Oregon since 1954.
- Charles B. Kimmel, Ph.D., Assistant Professor of Biology (developmental biology). B.A., Swarthmore, 1962; Ph.D., Johns Hopkins, 1966; at Oregon since 1969.
- Edith A. Maynard, Ph.D., Adjunct Professor of Biology (morphological and cytochemical studies of neural degeneration and regeneration). B.A., Mt. Holyoke, 1952; Ph.D., California at Los Angeles, 1958; at Oregon since 1970.
- Bayard H. McConnaughey, Ph.D., Professor of Biology (invertebrate zoology; marine biology). B.A., Pomona, 1938; M.A., Hawaii, 1941; Ph.D., California, Berkeley, 1948; at Oregon since 1948.
- Robert W. Morris, Ph.D., Professor of Biology (biology of fishes). A.B., Wichita, 1942; M.S., Oregon State, 1948; Ph.D., Stanford, 1954; at Oregon since 1955.
- Frederick W. Munz, Ph.D., Professor of Biology (visual physiology). B.A., Pomona, 1950; M.A., 1952, Ph.D., 1958, California at Los Angeles; at Oregon since 1959.
- Gordon J. Murphy, M.S., Senior Instructor in Biology (natural history); Assistant to Department Head. B.S., 1953, M.S., 1958, Oregon State; at Oregon 1962-64, and since 1965.
- Aaron Novick, Ph.D., Professor of Biology (cellular control mechanisms; membranes). Dean of the Graduate School. B.S., 1940, Ph.D., 1943, Chicago; at Oregon since 1959.
- Edward Novitski, Ph.D., Professor of Biology (genetics of higher organisms). B.S., Purdue, 1938; Ph.D., California Institute of Technology, 1942; at Oregon since 1958.
- John H. Postlethwait, Ph.D., Assistant Professor of Biology (developmental genetics; insect endocrinology). B.S., Purdue, 1966; Ph.D., Case Western Reserve, 1970; at Oregon since 1971.
- Paul P. Rudy, Ph.D., Associate Professor of Biology (physiology of salt and water balance); Director, Oregon Institute of Marine Biology. B.A., 1955, M.A., 1959, Ph.D., 1966, California, Davis; at Oregon since 1968.
- Eric Schabtach, B.S., Senior Instructor in Biology (development and application of new techniques in biological ultrastructural investigations); Director, Electron Microscope Facility. B.S., McGill, 1963; at Oregon since 1969.
- Bradley T. Scheer, Ph.D., Professor of Biology (hormonal control of molting and metabolism in crustaceans; ionic regulation; membrane transport). B.S., California Institute of Technology, 1936; Ph.D., California, Berkeley, 1940; at Oregon since 1950.

Frank P. Sipe, M.S., Associate Professor Emeritus of Biology (botany). B.S. (Agric.), 1916, B.S. (Educ.), 1918, Missouri; M.S., Iowa State, 1923; at Oregon since 1932.

William R. Sistrom, Ph.D., Professor of Biology (bacterial physiology). A.B., Harvard, 1950; Ph.D., California, Berkeley, 1954; at Oregon since 1963.

Arnold L. Soderwall, Ph.D., Professor of Biology (aging and reproduction of rodents). B.A., Linfield, 1936; M.A., Illinois, 1937; Ph.D., Brown, 1941; at Oregon since 1941.

Franklin W. Stahl, Ph.D., Professor of Biology (genetics of bacteriophage); Research Associate, Institute of Molecular Biology. A.B., Harvard, 1951; Ph.D., Rochester, 1956; at Oregon since 1959.

George Streisinger, Ph.D., Professor of Biology (genetic control and development of nervous systems); Research Associate, Institute of Molecular Biology. B.S., Cornell, 1950; Ph.D., Illinois, 1954; at Oregon since 1960.

Robert C. Terwilliger, Ph.D., Assistant Professor of Biology (comparative physiology and biochemistry); Assistant Director, Oregon Institute of Marine Biology. B.A., Bowdoin, 1962; M.A., 1964, Ph.D., 1967, Boston; at Oregon since 1969.

James A. Weston, Ph.D., Associate Professor of Biology (developmental biology). B.A., Cornell, 1958; Ph.D., Yale, 1963; at Oregon since 1970.

Wayne A. Wiitanen, Ph.D., Assistant Professor of Biology (neurobiology; computer applications in biology). B.A., 1967, M.A., 1968, Ph.D., 1971, Harvard; at Oregon since 1971.

Donald E. Wimber, Ph.D., Professor of Biology (structure of chromosomes, cell population kinetics). B.A., San Diego State, 1952; M.A., 1954, Ph.D., 1956, Claremont; at Oregon since 1963.

Herbert P. Wisner, M.A., Senior Instructor in Biology (breeding biology, distribution of birds). B.A., 1949, M.A., 1950, Syracuse; at Oregon since 1966.

Graduate Teaching Fellows

William Anderson, B.S., Tufts, 1972; at Oregon since 1972.

Alfred Bernstein, B.A., Pomona College, 1967; M.A., Oregon, 1968; at Oregon since 1967.

Mary E. Bernstein, B.S., Kent State, 1967; M.S., Oregon, 1969; at Oregon since 1967.

Douglas Burns, B.S., Oregon, 1967; at Oregon since 1972.

James J. Cole, B.A., Reed, 1971; at Oregon since 1971.

Mark Cristy, B.S., Tennessee, 1969; at Oregon since 1969.

Carolyn Cross, B.Ed., Chicago Teachers College, 1962; at Oregon since 1969.

John Cubit, B.A., California, Santa Barbara, 1967; at Oregon since 1969.

Rebecca Field-Lockhart, B.S., Wisconsin, 1968; M.S., Minnesota, 1970; at Oregon since 1972.

Clifton (Lee) Gass, A.B., 1964, M.A., 1967, Chico State; M.S., Oregon, 1969; at Oregon since 1968.

Karen Hendricks, B.A., Oregon, 1965; at Oregon since 1970.

Cecilia Hlavaty, A.B., California, Santa Cruz, 1972; at Oregon since 1972.

Robert Holzinger, B.A., California, San Diego, 1972; at Oregon since 1972.

John Jackson, B.S., Oregon, 1966; at Oregon since 1971.

Jean Jacoby, B.A., Chicago, 1972; at Oregon since 1972.

Gary Kuhl, B.S., Southern Oregon College, 1968; at Oregon since 1968.

Peter Leon, B.A., Baylor, 1966; at Oregon since 1970.

Christopher Lingle, B.S., Oregon, 1972; at Oregon since 1972.

Alison Longley, B.A., Reed, 1966; at Oregon since 1966.

Nancy Lorr, B.A., Grinnell, 1969; at Oregon since 1970.

James McGhee, B.S., Toronto, 1964; at Oregon since 1968.

Alan Miller, B.A., Stanford, 1967; M.A., Oregon, 1968; at Oregon since 1967.

Douglas C. Nelson, B.S., Harvey Mudd College, 1970; at Oregon since 1972.

Judith Nichols, B.A., Case Western Reserve, 1970; at Oregon since 1970.

Thomas Niesen, B.A., California, Santa Barbara, 1966; M.S., San Diego State, 1969; at Oregon since 1969.

Beverly Pierson, B.A., Oberlin, 1966; M.A., Oregon, 1969; at Oregon since 1967.

Ronald Powell, B.S., Oregon, 1972; at Oregon since 1972.

Conly L. Rieder, B.S., California, Irvine, 1972; at Oregon since 1972.

Ellen Singer, B.S., Massachusetts, 1972; at Oregon since 1972.

Keshav Trehan, B.S., 1969, M.S., 1971, Delhi; at Oregon since 1973.

Daniel Unrein, B.S., California, Santa Clara, 1972; at Oregon since 1972.

Wu-nan Wen, B.S., National Taiwan University, 1963; at Oregon since 1970.

Roger White, B.S., Central Missouri State, 1966; at Oregon since 1966.

Sandra White, B.S., Washington, 1967; at Oregon since 1967.

Conrad Wickstrom, B.A., 1965, M.A., 1968, Chicago State; at Oregon since 1968.

Special Staff

Herbert Anker, Ph.D., Research Associate. B.A., University of Freiburg, Germany, 1935; M.A., University of Vienna, Austria, 1937; M.D., University of Basel, Switzerland, 1943; at Oregon 1965-66, and since 1972.

Fanny E. Carroll, Ph.D., Research Associate. Diploma in Pharmacy, University of Paris, France, 1962; Ph.D., Oregon, 1971; at Oregon since 1971.

Carol J. Cogswell, M.A., Research Assistant. B.A., 1969, M.A., 1971, Oregon; at Oregon since 1969.

Jean M. Crasemann, Ph.D., Research Associate. B.A., University of Saskatchewan, Canada, 1942; M.A., 1946, Ph.D., 1952, University of California, Berkeley, at Oregon 1955, and since 1958.

Wilma A. Engstrom, Ph.D., Research Associate. B.A., Humboldt State College, 1962; M.A., 1966, Ph.D., 1969, California, Berkeley; at Oregon since 1970.

Victor A. Fried, Ph.D., Research Associate. B.S., University of Chicago, 1965; Ph.D., Oregon, 1970; at Oregon since 1970.

Flora B. Granados, B.A., Research Assistant. B.A., Oregon, 1968; at Oregon since 1972.

Carol A. Gross, Ph.D., Research Associate. B.S., Cornell University, 1962; M.A., Brooklyn College, 1963; Ph.D., Oregon, 1968; at Oregon since 1969.

Barry G. Hall, Ph.D., Research Associate. B.S., University of Wisconsin, 1968; Ph.D., University of Washington, 1971; at Oregon since 1971.

- Christina H. Holzapfel, Ph.D., Research Associate. B.A., Goucher College, 1964; M.S., 1968, Ph.D., 1970, Michigan; at Oregon since 1972.
- Nicholas K. Hooper, Ph.D., Research Associate. B.A., Cornell, 1961; Ph.D., Harvard, 1966; at Oregon since 1972.
- Judith L. Horstmann, B.A., Research Assistant. B.A., Occidental, 1969; at Oregon since 1972.
- Susan M. LeGore, B.A., Research Assistant. B.A., Oregon, 1970; at Oregon since 1972.
- Janet Mikesell, B.Sc., Research Assistant. B.Sc. Honors, University of Canterbury, New Zealand, 1968; at Oregon since 1973.
- Norman D. Mikesell, M.S., Research Assistant. B.S., 1965, M.S., 1971, Oregon; at Oregon since 1972.
- Jadwiga Molè-Bajer, D.Sc., Research Associate. M.Sc., 1950, Ph.D., 1956, D.Sc., 1962, Jagellonia University, Poland; at Oregon since 1966.
- Joyce Owen, Ph.D., Research Associate. A.B., University of Chicago, 1956; Ph.D., Oregon, 1971; at Oregon since 1958.
- Patricia A. Rada, B.A., Research Assistant. B.A., Queen's University, Canada, 1972; at Oregon since 1972.
- Douglas M. Sears, M.A., Research Assistant. B.A., Pomona College, 1967; M.A., Oregon, 1969; at Oregon since 1972.
- James M. Sidie, Ph.D., Research Associate. B.S., 1964, M.S., 1967, Ph.D., 1970, Notre Dame; at Oregon since 1972.
- Jeffery E. Siegel, Ph.D., Research Associate. B.S., Reed College, 1964; Ph.D., California, San Diego, 1969; at Oregon since 1970.
- Allan R. Thompson, Ph.D., Research Associate. B.S., Bradley, 1966; M.S., Illinois Institute of Technology, 1969; Ph.D., Utah, 1971; at Oregon since 1971.
- Marjorie H. Woollacott, Ph.D., Research Associate. A.B., 1968, Ph.D., 1973, University of Southern California; at Oregon since 1973.
- Sandra D. Zwick, B.S., Research Assistant. B.S., Oregon, 1972; at Oregon since 1972.

Undergraduate Studies

THE Department of Biology offers an undergraduate program planned to provide an understanding of the living world as a part of a liberal education, to prepare students for professional careers in industry, government, and secondary education, and to provide preparation for graduate work leading to careers in higher education, research, and the medical sciences.

In meeting our objective to provide courses of interest to students in the Liberal Arts, we present a series of courses numbered Bi 101-107 and Bi 222-272. These courses are not in any sequence, there are no prerequisites, and they are not primarily for biology majors. Each course is complete in itself, and is devoted to a special interest or topic within biology. The content varies from term to term, as indicated in the course descriptions. Modern biology is a quantitative science; students planning to specialize in biology should include in their high-school preparation as much mathematics as possible, including at least algebra

and geometry. Preparation in English is essential, and work in French, German, chemistry, and physics is highly desirable.

Major Requirements. A major in biology leads to the Bachelor of Science degree in Biology or to the Bachelor of Arts degree in Biology, with completion of appropriate literature and language requirements. The specific courses required for a major in biology are:

General Chemistry (Ch 104, 105, 106 or Ch 204, 205, 206) three credit hours each term; Introductory Chemistry Laboratory (Ch 107) two credit hours; Introductory Analytical Chemistry (Ch 108, 109) two credit hours each term; Mathematics through Elements of Calculus (Mth 106) four credit hours, or Calculus with Analytical Geometry (Mth 200) four credit hours; General Physics (Ph 201, 202, 203) four credit hours each term; Organic Chemistry (Ch 331, 332) three credit hours each term; Cell Biology (Bi 301, 302, 303) five credit hours each term; Biology of Organisms (Bi 304, 305, 306) five credit hours each term; General Ecology (Bi 372) four credit hours; Two additional terms of 400-level electives in biology.

The two courses, Cell Biology (Bi 301, 302, 303) and Biology of Organisms (Bi 304, 305, 306), together with General Ecology (Bi 372), constitute a core curriculum in biology that conveys a body of information and thought essential to an understanding of modern biology regardless of the student's area of subsequent specialization. For certain students, specified 400-level courses in chemistry or psychology may be accepted in place of the required 400-level electives in biology. Students who intend to enter graduate work are urged to include calculus and two years of French, German, or Russian in their programs.

The recommended program for biology majors includes mathematics and general chemistry in the freshman year, but not biology; organic chemistry and cell biology in the sophomore year; biology of organisms in the junior year, together with general physics. Students with minimal or no science backgrounds may take 100- or 200-level courses in biology in the freshman year, but these courses do not meet major requirements.

Any course required for the biology major may be taken on a pass-undifferentiated basis, at the option of the student, within the limitation of the general University requirement of 90 pass-differentiated hours for the bachelor degree. Students are advised to exercise the pass-undifferentiated option sparingly or not at all if they plan to attend medical school, dental school, or to take graduate work in biology.

Transfer Students. Students transferring in as biology majors following two years of college elsewhere should have completed a year of general chemistry with laboratory, a year of college-level mathematics, and a year of college physics. Such students need not include biology courses in their first two years of study.

Professional Students. Premedical and pre-dental students who wish to major in biology should plan to complete the biology major requirements; such preprofessional students should consult with their biology advisers regarding course scheduling for the bachelor-degree program in biology, and for completion of medical school entrance requirements. Further information regarding medical school requirements and admission procedures will be found on pages 70-71; inquiries may be addressed to Adviser for Premedicine, Department of Biology. Although Organic Chemistry Laboratory (Ch 337, 338) and Physics Laboratory (Ph 204, 205, 206) are not required for the biology major, they are required by most medical schools, including the University of Oregon Medical School. Biology majors who plan to enter medical or dental school for their senior year may use courses in

anatomy and physiology taken in professional school as substitutes for the two terms of electives, and General Ecology.

Secondary-School Teaching of Biology. For certification as a teacher of biology in Oregon high schools, the Oregon Board of Education requires (1) the satisfaction of certain minimum standards of subject preparation, (2) a minimum standard of preparation in professional education courses, and (3) the recommendation of the institution at which the student completes subject preparation.

To meet the state standards in biology and the requirements for recommendation by the University of Oregon, the student should complete the major program outlined above. The mathematics and physics requirements will be liberalized for biology majors planning to meet requirements for certification to teach in high school; these students should complete Elementary Functions (Mth 105) and may substitute Essentials of Physics (Ph 101, 102, 103) for General Physics (Ph 201, 202, 203). Laboratory and Field Methods in Biology (Bi 494) satisfies the certification requirements for Special Secondary Methods (Ed 408). Courses in microbiology, evolution, and geology are also required for certification to teach biology in Oregon.

For further information, the student should consult the member of the biology faculty who serves as adviser for prospective teachers.

Careers and Employment. Career opportunities exist for graduates in biology with a variety of federal, state, and local government agencies, in private industry, in teaching, and in self-employment. With a bachelor degree, persons can qualify for positions involving inspection and testing, production and operation work, technical sales and service, and administrative duties in connection with the enforcement of government regulations. They may also obtain positions such as senior technicians, particularly in the area of medical biology. Those who graduate near the top of their class may have opportunities to do research, although mostly of a routine nature or under close supervision.

Graduate Studies

FACILITIES are available for graduate study in most of the basic science areas of botany and zoology, including cytology, development, ecology, genetics, marine biology, microbiology, morphology, neurobiology, physiology (comparative, general, mammalian, and plant), and systematics. Interdisciplinary programs are offered in developmental biology, neurobiology, and molecular biology, involving the three Departments of Biology, Chemistry, and Psychology, as well as the Institute of Molecular Biology.

Degrees. The department offers graduate work leading to the Doctor of Philosophy degree, and to the degrees of Master of Arts and Master of Science for students primarily interested in teaching careers in the high schools and junior colleges. The department will continue to grant Master degrees *en passant* to Ph.D. candidates, if they wish, and as a terminal degree to other students who for any reason are not continuing for the Ph.D. Candidates for higher degrees are expected to meet the equivalent of the University undergraduate major requirements before advancement to candidacy for the degree.

Admission. Requirements for admission to a Master program are:

(1) A completed application for admission form; (2) three letters of recommendation; (3) transcripts of all college work; (4) scores on the Graduate Record Examination.

Application forms, reference forms and additional information may be obtained from the department office. Completed application forms, copies of college transcripts, and letters of reference are to be sent to the Department of Biology in care of the Graduate Secretary. Copies of official transcripts of all college work must be ordered to be sent directly to the Department of Biology.

The graduate program leading to the Doctor of Philosophy degree in biology requires the same procedure of application for admission as described above for a master program.

Institute of Marine Biology. The University operates the Oregon Institute of Marine Biology at Charleston on Coos Bay. The institute is located in a setting providing access to an unusual variety of richly populated marine and terrestrial habitats. A full program of undergraduate and graduate studies is offered during the summer session. On an experimental basis, an organized instructional program is being offered during spring term, including undergraduate and graduate courses. The research facilities are available throughout the year.

Institute of Molecular Biology. A program of research and research instruction in areas of biology where phenomena can be understood in terms of the structure of molecules is conducted through the Institute of Molecular Biology. For further information, see Institute of Molecular Biology, page 39; or direct inquiries to the Director.

(The lower-division courses in Biology, described below, are designed primarily to meet general liberal arts requirements in science.)

Bi 101. Selected Topics in Biology. 3 credit hours.

Subjects of general interest covering the role of biology in modern life, with emphasis on the elementary biological principles necessary for an understanding of current problems. Content will vary from term to term with topics to include biology of sex; biology, ethics and society; the brain and behavior; and others of current interest.

Bi 102. Animal Biology. 4 credit hours.

Basic information regarding various aspects of the biology of animal life, including the human organism. Specific content will vary from term to term. Lectures and laboratory, demonstration, or discussion.

Bi 103. Experimental Biology. 4 credit hours.

Laboratory investigations illustrating the methods by which biological knowledge is established. Laboratories and orientation discussions.

Bi 104. Plant Biology. 4 credit hours.

Aspects of the biology of plant life, including lower plants and seed plants. Specific content may vary from term to term. Lectures and laboratory, demonstration, or discussion.

Bi 105. The Physical Basis of Life. 4 credit hours.

The study of those aspects of growth, reproduction, and heredity that are common to all living things. Explanations will be phrased in terms of experimental observations and will be at the level of the molecules that play important roles in living systems. Lectures and discussions.

Bi 106. Principles of Evolution. 4 credit hours.

The elementary biological principles involved in the development of diverse life forms, illustrated by examples from selected animals and plants. Lectures and laboratory, demonstration or discussion.

Bi 107. Natural History. 4 credit hours.

Organisms and their natural environments. Separate terms will include the marine environment, the freshwater environment, and varied terrestrial systems. Lectures, demonstrations, and field trips.

Bi 199. Special Studies. 1-2 credit hours.**Bi 222. Genetics and Man. 3 credit hours.**

Basic concepts of genetics, especially as they relate to man, and a discussion of related topics such as blood group immunology, medicolegal problems, transplantation and the immune reaction, prenatal effects, genetic effects of radiation, the biology of twinning, selection in man and sociological implications of genetic findings. Biology majors interested in this subject or students who have completed any of the courses Bi 101 through Bi 107 should consult the instructor.

Bi 232. The Biology of Common and Useful Plants. 4 credit hours.

Survey of the origin, culture, and biology of the major groups of plants of importance to man, and a discussion of basic requirements for plant growth, principles of plant breeding and genetics, plant morphology, plant viruses, fungal diseases, herbicides and pesticides, weeds, alkaloids and drugs, soils and systems of agriculture, organic gardening, conservation of natural plant communities. This course is intended for students majoring in areas other than biology, and is not recommended for biology majors. Carroll.

Bi 272. Introduction to Ecology. 3 credit hours.

The energetics of organisms: the extent and efficiency of energy capture in human, plant and animal nutrition; the cycling of nutrient materials; ecological succession; species and interrelations and meaning of species diversity. This course is designed for students majoring in areas other than biology, and is not recommended for biology majors.

NOTE: Too late for publication, certain course revisions have been given emergency approval for the 1973-74 academic year. Students are advised to consult both the faculty and the *Time Schedule* for details when planning their programs of study.

Bi 301, 302, 303. Cell Biology. 3 or 5 credit hours each term.

A coherent account of what is known about the growth and replication of cells and of the chemical mechanisms underlying these processes: structure, mode of action, and duplication of genetic material; the ways in which cells obtain material and energy for growth; the relation of structure to function in a variety of types of cells. Three lectures; one laboratory-discussion period. Prerequisite: one year of general chemistry; organic chemistry and college mathematics, prerequisite or taken concurrently.

Bi 304, 305, 306. Biology of Organisms. 5 credit hours each term.

An integrated presentation of the biology of representatives of important animal and plant phyla, including comparative study of their morphology, anatomy, life history, physiology, and development. Three lectures; two laboratory-discussion periods. Prerequisite: Bi 301, 302, 303 or consent of instructor.

Bi 321, 322. Human Physiology. 3 credit hours each term.

Required for majors in physical education, elective for others

qualified. Two lectures; one three-hour laboratory period. Prerequisite: one year of chemistry. Soderwall.

Bi 372. General Ecology. 4 credit hours.

A treatment of ecology at a relatively advanced level. Primarily for students majoring in biology or related areas.

Bi 376. Natural History of Oregon. 4 credit hours.

Plants and animals of Oregon; their identification and factors relating to their occurrence, distribution and abundance. Intended primarily for prospective elementary-school teachers planning to teach in Oregon. Murphy.

Bi 381. Introduction to Bacteriology. 3 credit hours.

Basic principles and techniques of bacteriology; role of bacteria and other micro-organisms in transformations of organic matter and in physical and chemical transformations in soil and water; their importance to man. Three lectures. Prerequisite: general chemistry. McConnaughey.

Bi 383. Introduction to Bacteriology Laboratory. 2 credit hours.

Basic techniques in the culturing, microscopic examination, and characterization of microorganisms. Prerequisite: concurrent or prior enrollment in Bi 381.

Bi 391, 392. Human Anatomy. 3 credit hours each term.

Gross anatomy; the skeletal and muscular structure; the circulatory, respiratory, digestive, and neural systems and their functioning in physical activities. Two lectures; one three-hour dissection period. Prerequisite: general biology or equivalent and junior standing, or consent of instructor.

Bi 401. Research.

Credit hours to be arranged. No-grade course.

Bi 403. Thesis.

Credit hours to be arranged. No-grade course.

Bi 405. Reading and Conference.

Credit hours to be arranged. No-grade course.

Bi 407. Seminar.

Credit hours to be arranged. No-grade course.

Bi 409. Supervised Tutoring Practicum. 1-3 credit hours any term.

No-grade course.

Upper-Division Courses Carrying Graduate Credit**Bi 408. Laboratory Projects. (G)**

Credit hours to be arranged. Special laboratory training in research methods.

Bi 414, 415. General and Comparative Physiology. (G) 4 hours each term.

First term: study of homeostatic mechanisms in the areas of ionic and osmotic regulation, excretion, circulation, respiration, metabolism, and body-temperature regulation. Second term: physiology of excitation, conduction, synaptic transmission, muscular contraction, sensory transduction, and reflex action in animals. Two lectures, six hours of laboratory-discussion. Consent of instructor is required. Prerequisite: general physics, Bi 301 through Bi 305 or equivalent.

Bi 416. Comparative Neurobiology. (G) 4 credit hours.

Continuation of material introduced in Bi 415 with particular

emphasis on neural integration, sense organs, and brain function. Two lectures, two three-hour laboratories per week.

Bi 417. Environmental Physiology. (G) 4 credit hours.

Emphasis is placed on reciprocity between homeostasis and polymorphism in changing or uncertain environments and along environmental gradients. Strong consideration will be given to seasonal change, and to the relationship between accommodation, acclimatization, adaptation, and speciation. Three lecture-discussions and one laboratory-field period. Prerequisite: Bi 305 or Bi 414, and an upper division course in ecology, or consent of instructor. Bradshaw.

Bi 422. Genetics. (G) 3 credit hours.

A study of the transmission and regulation of the hereditary material in eucaryotic organisms including classical gene mapping, and somatic cell genetics, sex determination, genome structure and change, developmental genetics, and an introduction to population genetics. Prerequisite: Bi 301, 302, 303 or equivalent, or consent of instructor. Postlethwait.

Bi 423. Genetics Laboratory. (G) 2 credit hours.

An experimental approach to the transmission and regulation of the hereditary material in eucaryotes, including population genetics, biochemical genetics, and developmental genetics. Consent of instructor is required.

Bi 424. Human Genetics. (G) 3 credit hours.

The immunogenetics of the blood groups and transplantation incompatibilities; sex determination and the sex ratio; spontaneous and induced mutation; radiation effects; the genetics of populations; selection, eugenics, and medical aspects of genetic disease. Three lectures. Consent of instructor is required. Novitski.

Bi 426. Evolution. (G) 3 credit hours.

Theories of biological variation, race, and species formation. Three lectures. Consent of instructor is required. Prerequisite: senior or graduate standing. Background in genetics essential.

Bi 428. Cell Organelles. (G) 3 credit hours.

Structure and function of the cell membrane, mitochondria and plastids, endoplasmic reticulum, the nucleus, lysosomes, Golgi bodies, microtubules and microfilaments, flagella, cilia, and centriole; review of techniques and tools used in ultrastructural studies, with stress on mechanisms of chromosome movements. Consent of instructor is required. Bajer.

Bi 429. Nuclear Cytology. (G) 4 credit hours.

Structure and function of the nucleus and autonomously inherited cytoplasmic organelles. Behavior of chromosomes; elementary cytogenetics. Methods of study and experimental procedures. Two lectures, two three-hour laboratory periods. Consent of instructor is required. Wimber and Kezer.

Bi 432. Mycology. (G) 5 credit hours.

Structure, physiology, and classification of fungi. Three lectures; two three-hour laboratory periods. Consent of instructor is required. Carroll.

Bi 433. Algae. (G) 5 credit hours.

Structure, cytology, life history, and ecology of representative fresh-water and marine algae. Three lectures; two three-hour laboratory periods. Consent of instructor is required. Castenholz.

Bi 435. Methods of Pollen Analysis. (G) 4 credit hours, spring term, alternate years.

A lecture-laboratory course concerned with the morphology

of pollen, techniques of collection and preparation of pollen for study, and methods of pollen analysis. Two four-hour combined lecture and laboratory meetings each week. Consent of instructor is required. Gray.

Bi 436. Cenozoic Paleobotany. (G) 3 credit hours spring term.

Distribution and dispersal of angiosperms and gymnosperms from the Cretaceous to the present as deduced from the fossil record. Major emphasis on the Tertiary, with world-wide coverage, but with principal examples, where possible, drawn from the Pacific Northwest. Emphasis on biogeographical and paleoecological aspects. Consent of instructor is required. Gray.

Bi 438. Systematic Botany. (G) 5 credit hours.

Principles of plant classification; common plant families; collection and identification of Oregon plants.

Bi 440. Biology of Vascular Plants. (G) 5 credit hours.

Plant morphology; comparative study of the structure, life history, and evolution of representatives of the ferns, fern allies, and seed plants. Three lectures; two three-hour laboratory periods. Prerequisite: Bi 306, or consent of instructor. Tepfer.

Bi 441. Biology of Vascular Plants. (G) 5 credit hours.

Plant morphogenesis; structure and development of cells, tissues, and organs, including discussion of the mechanism of action and metabolism of plant growth substances and control mechanisms in growth and differentiation. Three lectures; two three-hour laboratory periods. Prerequisite: Bi 306, or consent of instructor. Bonnett.

Bi 442. Biology of Vascular Plants. (G) 5 credit hours.

Plant physiology; physiology and biochemistry of vascular plants, including nucleic acid and protein synthesis, photochemical reactions of photosynthesis, water relations, ion uptake, and transport of organic molecules. Three lectures; two three-hour laboratory periods. Prerequisite: Bi 306 or consent of instructor. Hague.

Bi 450, 451, 452. Developmental Biology. (G) 3 credit hours each term.

A synthesis of current topics in the study of development, including growth, differentiation, and morphogenesis. Fall: an introduction intended for students with a background in genetics and cell biology, but who have not been exposed to the modern analysis of development. Intended only for students who have not completed Bi 304. Winter and spring: a more detailed study of selected topics, including nucleo-cytoplasmic interactions, organellogenesis, cellular morphogenesis, pattern formation, cell differentiation and neoplasia. Prerequisite for Bi 451: Bi 450 or Bi 304 or their equivalent, and consent of instructor. Grant, Kimmel, Postlethwait, Weston.

Bi 453, 454. Developmental Biology Laboratory. (G) 2 credit hours each term.

Experience in the analysis of developing systems, with emphasis on cell and tissue culture methods in the study of differentiation, cellular interactions and morphogenesis. Discussion plus laboratory. Consent of instructor is required. Grant, Kimmel, Weston.

Bi 455. Histology. (G) 4 credit hours.

Systematic study, description, and identification of microscopic structures of vertebrate tissues. Two lectures; two three-hour laboratory periods. Consent of instructor is required. Kezer.

Bi 461. Invertebrate Zoology. (G) 5 credit hours.

Survey of representative invertebrate groups, with emphasis

on marine forms; morphology, systematics, life history, and ecology. Consent of instructor is required. McConnaughey.

Ch 461, 462, 463. Biochemistry. (G) 3 credit hours each term.

May be taken for credit toward a biology major.

Emphasis on the structure and functions of biological macromolecules, metabolism and metabolic control processes, protein and nucleic acid synthesis, and biological genetics. Prerequisite: Ch 104, 105, 106; Ch 331, 332, or their equivalents. Some prior exposure to calculus and physical chemistry helpful but not required.

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

Survey of important parasitic groups. Biological relationships of parasite and host, and the effect of such relationships on each. Two lectures; two three-hour laboratory periods. Offered alternate years. Prerequisite: Bi 304, 305, 306 or equivalent, or consent of instructor. McConnaughey.

Bi 471, 472, 473. Principles of Ecology. (G) 4 hours each term.

An integrated course for students specializing in population biology and related fields. Fall: introduction to the ecosystem, interrelations between organisms and physical environment, ecosystem energetics. Winter: population growth and structure; species interactions. Spring: community growth and structure, theories of diversity and stability. Three lectures; field work. Consent of instructor is required. Cook, Frank.

Bi 474. The Marine Environment. (G) 4-8 credit hours.

An introduction to the biota, life zones, and populations of the open ocean. Descriptions of currents, water masses, the chemistry of sea water, and their relationships to the biology of the oceans. An analysis of the concepts and theories used to explain the biological events observed in the ocean. Offered at the Institute of Marine Biology, Charleston.

Bi 475. Limnology. (G) 5 credit hours.

A study of fresh water environments, particularly those of lakes. Chemical, physical and biological interactions. Three lectures, two laboratory-field periods. Consent of instructor is required. Castenholz.

Psy 436. Animal Behavior. (G) 3 credit hours.

May be taken for credit toward a biology major.

Survey of ethology plus its relation to experimental psychology and the biological sciences. Areas include: evolutionary and comparative foundations, sensory-motor integration, neural control of behavior sequences, interactions between motivational systems, neuro-behavioral development. Prerequisite: upper-division work in psychology or biology.

Bi 481, 482. Biology of Prokaryotic Organisms. (G) 3 credit hours each term.

Structure, physiology, genetics, and natural history of diverse bacteria and blue-green algae. Three lectures or discussions. Consent of instructor is required. Prerequisite: Bi 301, 302, and 303, or the equivalent. Offered in alternate years. Sstrom and Castenholz.

Bi 483, 484. Biology of Prokaryotic Organisms Laboratory. (G) 2 credit hours each term.

First part of the first term devoted to isolation from nature of various types of bacteria and blue-green algae, the remainder of the time to individual projects in the physiology, metabolism, or genetics of one of the organisms isolated. Both terms should be taken. Enrollment limited to fourteen. Consent of instructor is required. Offered alternate years, concurrently with Bi 481, 482.

Bi 485. Microbial Ecology. (G) 3 credit hours.

Biology and interactions of protists in soil, fresh water, and the sea. Emphasis on roles played in geo-chemical cycles, interactions with each other and with other groups of organisms. Eucaryotic as well as prokaryotic organisms will be considered. The laboratory work will emphasize eucaryotic organisms. Consent of instructor is required. Prerequisite: Bi 301 or 381 or equivalent. McConnaughey.

Bi 486. Microbial Ecology Laboratory. (G) 2 credit hours.

Isolation, culture, and identification of eucaryotic protists. Prerequisite: concurrent enrollment in Bi 485. Limited to twenty students. McConnaughey.

Bi 487. Molecular Biology of Phage. (G) 3 credit hours.

Growth, mutation, recombination, and regulation of DNA, RNA, and protein synthesis in bacteriophage. Two lectures and conference. Prerequisite: Bi 301, 302, 303 or equivalent, or consent of instructor. Offered alternate years.

Bi 488. Molecular Biology of Bacteria. (G) 3 credit hours.

Genetics and regulation of DNA, RNA, and protein synthesis and the control of the synthesis of specific proteins in bacteria. Two lectures and conference. Prerequisite: Bi 301, 302, 303 or equivalent, or consent of instructor. Offered alternate years.

Bi 489. Membrane Structure and Function. (G) 3 credit hours.

Chemical composition and molecular structure of biological membranes; mechanisms of selective permeability and transport, studied with natural and artificial membranes. Two lectures and conference.

Bi 491, 492, 493. Historical Biogeography. (G) 3 credit hours each term.

Fall: classification of mammals and mammalian morphology, with emphasis on comparative osteology. Winter: history of mammals; principles involved in their chronological distribution. Spring: biogeography and palaeoecology. Two lectures; one three-hour laboratory period. Prerequisite: senior standing in biology, geology, or anthropology.

Bi 495. History of Biological Ideas. (G) 3 credit hours.

Lectures, readings, and discussion of the historical origin and present status of leading biological ideas, and the contribution of biological thought to contemporary culture.

Graduate Courses

Bi 501. Research.

Credit hours to be arranged. No-grade course.

Bi 502. Supervised College Teaching.

Credit hours to be arranged. No-grade course.

Bi 503. Thesis.

Credit hours to be arranged. No-grade course.

Bi 505. Reading and Conference.

Credit hours to be arranged. No-grade course.

Bi 507. Seminar.

Credit hours to be arranged. No-grade course.

Animal Physiology.

Aspects of Aging.

Botany.

Cytology.

Developmental Biology.

Ecology.
Genetics.
Molecular Biology.

Bi 509. Supervised Tutoring Practicum. 1-3 credit hours any term.

Bi 511. Vertebrate Endocrinology. 3 credit hours.

The morphology and physiology of glands of internal secretion; their role in normal body function of the vertebrates. Soderwall.

Bi 512. Physiology of Reproduction. 3 credit hours.

Biochemical, histochemical, physiological, and other experimental approaches to problems in the physiology of reproduction. Soderwall.

Bi 513. Endocrinology Laboratory. 1-3 credit hours.

Laboratory work related to Bi 511 or Bi 512.

Bi 514. Advanced Mammalian Neurobiology. 3-5 credit hours.

Sensory inputs from the periphery are traced through successive processing stages in the central nervous system until they arrive at the cerebral cortex. Motor commands are then traced from motor cortex down through the descending pathways until the final effectors are reached. At each stage of the ascending and descending pathways, anatomy, physiology, and pathology are described. In many cases, information-processing models will be discussed for both ascending and descending systems. Three lectures and two three-hour laboratories per week. Wiitanen.

Bi 515. Neurochemistry. 3 credit hours.

Biochemistry specific to the nervous system with an emphasis on synaptic chemistry; identification of neurotransmitters; metabolism, storage, release of the known transmitters; post-synaptic events; correlation of chemical events with neuroanatomy and physiology; current problems and experimental approaches. Two lectures and three hours of laboratory/discussion. Consent of instructor is required. Prerequisite: Ch 333, Bi 415, or equivalent. Barker.

Bi 516, 517. Neurobiological Basis of Behavior. 3 credit hours each term.

Physiology and morphology of neuromuscular systems of animals, with emphasis on comparative development and the evolution of animal behavior. Fentress, Hoyle, Maynard.

Bi 518, 519. Neurobiology Laboratory. 3 credit hours each term.

Laboratory work to accompany Bi 516, 517, with emphasis on the electrical and anatomical techniques for study of nerve and muscle function. Hoyle, Maynard.

Bi 520, 521, 522. Advanced Genetics. 2 credit hours each term.

Selected topics from the following: gene action, mutation, chromosome mechanics, population genetics, statistical methods, radiation genetics. Two lectures. Consent of instructor is required. Novitski.

Bi 523, 524, 525. Principles of Microscopic Techniques. 2-5 credit hours each term.

Procedures and techniques requisite for current microscopic research on biological materials. Fall: fixation, dehydration, infiltration, embedding, sectioning, and staining biological materials for examination with the light microscope. Winter: the

light microscope on practical and theoretical levels, including bright field optics and modifications allowing for dark field, interference, polarization, phase and differential contrast microscopy; principles and practices of scientific macrophotography, microphotography, and photomicrography. Spring: theory and application of techniques of electron microscopy, including fixation, embedding, microscope operation, negative and positive staining, metal shadowing, and freeze-etching.

Bi 526. Developmental Genetics. 3 credit hours.

Selected topics from the field of developmental and biochemical genetics. Lectures, discussion, and student reports on current literature. Consent of instructor is required.

Bi 537, 538, 539. Advanced Systematic Botany. 3 credit hours each term.

Classification, distribution, and speciation of seed plants of the Pacific Northwest. Prerequisite: plant morphology and systematic botany.

Bi 541. Advanced Plant Physiology. 3 credit hours.

Lectures on special aspects of plant respiration, salt metabolism, the photochemical reactions of photosynthesis, and on the role, mechanism of action, and metabolism of plant growth-substances. Consent of instructor is required.

Bi 551. Biology of Fishes. 4 credit hours.

The anatomy, development, and biology of fishes. Morris.

Bi 597, 598, 599. Advanced Biology. 3 credit hours each term.

Lectures, readings, and discussions of basic principles and recent advances in selected aspects of biological science, with special attention to the needs and problems of secondary-school teachers.

Courses Offered Only in Summer Session

Bi 413. Comparative Physiology. (G) 4-12 credit hours.

Bi 439. Field Botany. (G) 4 credit hours.

Bi 458. Marine Birds and Mammals. (G) 4 credit hours.

Bi 459. Field Ornithology. (G) 3 credit hours.

Bi 590. Recent Advances in Biology. 4 credit hours.

Courses Offered Only at Institute of Marine Biology, Summer

Bi 461, 462. Invertebrate Zoology. (G) 4 credit hours each term.

Bi 465. Comparative Biochemistry. (G) 8 credit hours.

Bi 468. Invertebrate Embryology. (G) 4 credit hours.

Bi 476. Biology of Marine Organisms. (G) 8 credit hours.

Bi 477. Planktonology. (G) 4 credit hours.

Bi 478. Marine Ecology. (G) 4 credit hours.

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

Chemistry

Faculty

Department Head, William T. Simpson, Ph.D., Professor of Chemistry (physical); Member, Institute of Theoretical Science and Institute of Molecular Biology. A.B., 1943, Ph.D., 1948, University of California, Berkeley; at Oregon since 1963.

John E. Baldwin, Ph.D., Professor of Chemistry (organic). A.B., Dartmouth, 1959; Ph.D., California Institute of Technology, 1963; at Oregon since 1968.

Ralph J. Barnhard, M.S., Senior Instructor in Chemistry and Administrative Assistant (organic). B.S., Otterbein, 1959; M.S., University of Oregon, 1965; at Oregon since 1966.

Sidney A. Bernhard, Ph.D., Professor of Chemistry (biochemistry); Research Associate, Institute of Molecular Biology. B.S., Brooklyn, 1948; M.S., Pennsylvania, 1949; Ph.D., Columbia, 1951; at Oregon since 1961.

Virgil C. Boekelheide, Ph.D., Professor of Chemistry (organic). A.B., 1939, Ph.D., 1943, Minnesota; at Oregon since 1960.

Robert S. Cooke, Ph.D., Assistant Professor of Chemistry (organic). A.B., Wesleyan University, 1966; Ph.D., California Institute of Technology, 1970; at Oregon since 1970.

Frederick W. Dahlquist, Ph.D., Assistant Professor of Chemistry (biochemistry). B.A., Wabash College, 1964; Ph.D., California Institute of Technology, 1968; at Oregon since 1971.

Lloyd J. Dolby, Ph.D., Professor of Chemistry (organic). B.S., Illinois, 1956; Ph.D., University of California, Berkeley, 1959; at Oregon since 1960.

Gerrit de Wilde, Senior Instructor of Chemistry (glassblower). Cert., Leiden, 1946; at Oregon since 1962.

Richard J. Field, Ph.D., Visiting Assistant Professor of Chemistry (physical). B.S., University of Massachusetts, 1963; M.S., Holy Cross College, 1964; Ph.D., University of Rhode Island, 1968; at Oregon since 1971.

Gordon G. Goles, Ph.D., Professor of Chemistry and Geology (geochemistry, cosmochemistry). B.A., Harvard, 1956; Ph.D., Chicago, 1961; at Oregon since 1966.

O. Hayes Griffith, Ph.D., Professor of Chemistry (physical, biophysical); Member, Institute of Molecular Biology. A.B., University of California, Riverside, 1960; Ph.D., California Institute of Technology, 1964; at Oregon since 1965.

Edward Herbert, Ph.D., Professor of Chemistry (biochemistry). B.S., University of Connecticut, 1948; Ph.D., University of Pennsylvania, 1953; at Oregon since 1963.

John F. W. Keana, Ph.D., Associate Professor of Chemistry (organic). B.A., Kalamazoo College, 1961; Ph.D., Stanford, 1965; at Oregon since 1965.

LeRoy H. Klemm, Ph.D., Professor of Chemistry (organic). B.S., University of Illinois, 1941; M.S., 1943, Ph.D., 1945, University of Michigan; at Oregon since 1952.

Charles E. Klopfenstein, Ph.D., Associate Professor of Chemistry and Director of Laboratories (organic). B.A., 1962, Ph.D., 1966, Oregon; at Oregon since 1966.

Thomas W. Koenig, Associate Professor of Chemistry (organic). B.S., Southern Methodist, 1959; Ph.D., Illinois, 1963; at Oregon since 1963.

Robert M. Mazo, Ph.D., Professor of Chemistry (physical); Research Associate, Institute of Theoretical Science. B.A., Harvard, 1952; M.S., 1953, Ph.D., 1955, Yale; at Oregon since 1962.

Richard M. Noyes, Ph.D., Professor of Chemistry (physical). A.B., Harvard, 1939; Ph.D., California Institute of Technology, 1942; at Oregon since 1958.

Warner L. Peticolas, Ph.D., Professor of Chemistry (physical). B.S., Texas Technological, 1950; Ph.D., Northwestern, 1954; at Oregon since 1967.

Michael R. Philpott, Ph.D., Associate Professor of Chemistry (theoretical). Member, Institute of Theoretical Science. B.S., 1961, Ph.D., 1964, University College, London; at Oregon since 1965.

Judson S. Pond, Ph.D., Senior Instructor in Chemistry (inorganic). B.M.E., 1943, B.B.A., 1955, Ph.D., 1964, Minnesota; at Oregon since 1958.

Francis J. Reithel, Ph.D., Professor of Chemistry (biochemistry). B.A., Reed College, 1936; M.A., 1938, Ph.D., 1942, University of Oregon Medical School; at Oregon since 1946.

A. Nicholas Roe, M.S., Visiting Instructor and Lecture Demonstrator (chemical education, organic). B.A., Oberlin College, 1969; M.S., Oregon, 1971; at Oregon since 1972.

F. Charlotte Schellman, Ph.D., Adjunct Associate Professor of Chemistry (physical). B.S., University of California, Los Angeles, 1946; M.S., 1948, Ph.D., 1950, Stanford; at Oregon since 1960.

John A. Schellman, Ph.D., Professor of Chemistry (physical). A.B., Temple University, 1948; M.A., 1949, Ph.D., 1951, Princeton; at Oregon since 1958.

Donald F. Swinchart, Ph.D., Professor of Chemistry (physical). B.S., Capital University; M.S., 1941, Ph.D., 1943, Ohio State; at Oregon since 1946.

Peter H. von Hippel, Ph.D., Professor of Chemistry (physical biochemistry). Director, Institute of Molecular Biology. B.S., 1952, M.S., 1953, Ph.D., 1955, Massachusetts Institute of Technology; at Oregon since 1967.

Raymond G. Wolfe, Jr., Ph.D., Professor of Chemistry (biochemistry). A.B., 1942, M.A., 1948, Ph.D., 1955, University of California, Berkeley; at Oregon since 1956.

Special Staff

Arthur Bayer, Ph.D. (research). B.S., Manhattan College, 1967; Ph.D., Syracuse University, 1972; at Oregon since 1972.

Bruce Birrell, Ph.D. (research). B.A., Willamette University, 1962; Ph.D., Arizona State University, 1967; at Oregon since 1968.

Ellen B. Brown, Ph.D. (research). B.A., Rice University, 1966; Ph.D., Brown University, 1971; at Oregon since 1971.

Kenneth G. Brown, Ph.D. (research). B.A., Syracuse University, 1966; Ph.D., Brown University, 1971; at Oregon since 1971.

- Wendel C. Brunner, Ph.D. (research). A.B., 1966, Ph.D., 1972, University of California, Berkeley; at Oregon since 1972.
- Charles Burke, Ph.D. (research). B.A., 1965, Ph.D., 1972, Oregon; at Oregon since 1972.
- A. Morrison Craig, Ph.D. (research). B.S., 1965, Ph.D., 1970, Oregon State University; at Oregon since 1971.
- Richard A. Frankel, Ph.D. (research). B.A., Columbia College, 1958; M.A., 1960, Ph.D., 1970, Harvard; at Oregon since 1971.
- Joel L. Ivey, Ph.D. (research). B.S., Oregon State University, 1965; Ph.D., Oregon, 1971; at Oregon since 1971.
- Patricia Jost, Ph.D. (research). B.S., Memphis State College, 1952; M.S., University of Georgia, 1959; Ph.D., Oregon, 1966; at Oregon since 1966.
- Frank Mason, Ph.D. (research). B.S., Kalamazoo College, 1966; Ph.D., Oregon, 1971; at Oregon since 1971.
- Michel Pezolet, Ph.D. (research). B.S., 1968, Ph.D., 1971, Université Laval; at Oregon since 1972.
- Susan Rottschaefer, Ph.D. (research). B.S., University of Rochester, 1966; Ph.D., Oregon, 1970; at Oregon since 1970.
- Kumud R. Sharma, Ph.D. (research). B.S., T. C. College, Nepal, 1961; M.S., Allahabad University, 1965; Ph.D., University of Bristol, 1972; at Oregon since 1972.
- Shelby A. Sherrod, Ph.D. (research). B.S., University of Kentucky, 1967; Ph.D., Cal. Tech., 1971; at Oregon since 1971.
- Joseph Snir, Ph.D. (research). B.S., 1964, M.S., 1966, Ph.D., 1969, Hebrew University of Jerusalem; at Oregon since 1971.
- Robert B. Spencer, Ph.D. (research). B.A., Ball State University, 1963; Ph.D., Purdue University, 1972; at Oregon since 1972.
- Terry C. Troxell, Ph.D. (research). B.S., Muhlenberg College, 1965; Ph.D., Cornell University, 1971; at Oregon since 1971.
- Jiri Vanecek, Ph.D. (research). B.S., Case Technical University, 1950; Ph.D., Faculty of Chemistry & Technology, 1957; at Oregon since 1968.
- William R. Woodward, Ph.D. (research). B.A., Oberlin College, 1964; Ph.D., Oregon, 1970; at Oregon since 1970.

Undergraduate Studies

UNDERGRADUATE courses in chemistry are designed primarily to provide a broad knowledge of the field as a part of the program of liberal education offered by the College of Liberal Arts. They are also designed to provide a substantial foundation in chemistry for students interested in (1) advanced work in chemistry or other sciences, (2) teaching in colleges or secondary schools, (3) a career in industrial chemistry, and (4) premedical or predoctoral studies.

The high-school preparation of a prospective chemistry major should include as much mathematics as possible. One year each of algebra and geometry is a minimum. Students entering with insufficient preparation in mathematics must remedy their deficiencies in elementary courses offered by the University. Substantial preparation in English, social science, literature, and foreign languages is expected. High-school work in chemistry and physics is desirable but not required.

Two-year college students planning to transfer to the University to major in chemistry should prepare by taking courses equivalent

to those outlined below for the freshman and sophomore years. Questions of course equivalence may be referred to the Department of Chemistry at the University.

For students with superior high school preparation who intend to major in chemistry, who are enrolled in the Honors College, or who are in other sciences, the department offers an advanced General Chemistry course. This consists of the lecture sequence, Ch 204, 205, 206, and an accompanying laboratory sequence, Ch 207, 208, and 209. The quantitative and theoretical aspects of chemistry are emphasized.

The recommended curriculum for majors includes the following courses in chemistry and related fields (variations in order may be approved by the department):

Freshman Year. General Chemistry (Ch 104, 105, 106 with Ch 107, Ch 108, Ch 109, followed in a subsequent year by Ch 324, or Ch 204, 205, 206 with Ch 207, Ch 208, Ch 209); a year sequence in mathematics (mathematics placement is determined by high-school records supplemented by College Board scores); German.

Sophomore Year. Organic Chemistry (Ch 334, 335, 336); Organic Chemistry Laboratory (Ch 340, 341, 342); General Physics (Ph 201, 202, 203, Ph 204, 205, 206); Calculus with Analytic Geometry (Mth 200, 201, 202), if not taken in the freshman year; German.

Junior Year. Physical Chemistry (Ch 441, 442, 443); Physical-Chemistry Laboratory (Ch 446, 447, 448), Biochemistry (Ch 461, 462, 463) for students intending to do graduate work in this field.

Senior Year. Research (Ch 401); an additional sequence in chemistry at the senior level.

The additional advanced sequence in the senior year may be elected from such courses as Physical-Inorganic Chemistry (Ch 411, 412), Biochemistry (Ch 461, 462, 463, Ch 464), Principles of Chemical Thermodynamics (Ch 451), Principles of Statistical Mechanics (Ch 453), Principles of Quantum Chemistry (Ch 455), Principles of Chemical Kinetics (Ch 457), Advanced Organic Chemistry (Ch 531, 532, 533), Chemical Kinetics (Ch 541, 542, 543), Quantum Chemistry (Ch 545, 546), Statistical Thermodynamics (Ch 553, 554).

The recommendations for the major outlined above meet the specifications of the Committee on Undergraduate Training of the American Chemical Society. Upon notification by the Department of Chemistry, the Society issues certificates to students who successfully complete the recommended curriculum. Students who want a less specialized major, without American Chemical Society certification, may omit German and the extra chemistry sequence in the senior year.

Students who do not earn an average grade of C or better in first-year chemistry courses are not permitted to enroll in second-year courses; however, they have the option to repeat the first-year chemistry course in which they receive a grade lower than C.

To be recommended for the bachelor degree with a major in chemistry, a student must have earned a minimum GPA of 2.00 in courses in chemistry, physics, and mathematics.

To be eligible for enrollment in upper-division courses in chemistry, transfer students who plan a major in chemistry must have a college GPA of 2.75 or higher.

Secondary-School Teaching in Chemistry. For certification as a teacher of chemistry in Oregon high schools, the Oregon Board of Education requires (1) the satisfaction of certain minimum standards of subject preparation, and (2) the recommendation of the institution at which the student completes subject preparation.

To meet the state standards in chemistry and the requirements for recommendation by the University of Oregon, the student is advised to take the following courses: General Chemistry (Ch 104, 105, 106); Introductory Chemistry Laboratory (Ch 107); Introductory Analytical Chemistry I (Ch 108); Introductory Analytical Chemistry II (Ch 109); Organic Chemistry (Ch 331, 332) and Introduction to Biochemistry (Ch 333), or Organic Chemistry (Ch 334, 335, 336); Introductory Organic Laboratory (Ch 337, 338); Quantitative Analysis (Ch 324). In addition, further work in Biochemistry (Ch 461, 462, 463) or Physical Chemistry (Ch 441, 442, 443) should be given serious consideration. These courses provide acquaintance with several fields of chemistry. The program does not satisfy the requirements for a bachelor degree with a major in chemistry. Students intending to teach chemistry in secondary schools may meet the requirements for a bachelor degree with a major in general science. Additional courses for secondary-school teachers are offered in the summer session.

Undergraduate Research Fellowships. Through a grant from the National Science Foundation, the department offers a number of undergraduate research participation fellowships to qualified junior and senior chemistry majors. The stipends average \$800 for the summer months. Inquiries about the program should be addressed to the department head.

Graduate Studies

GRADUATE work leading to the M.A., M.S., and Ph.D. degrees is offered in organic, physical, biochemistry, and geochemistry. The master degree may be earned with or without the presentation of a thesis. A qualified student may proceed directly to the Ph.D. without first taking the master degree.

The University of Oregon is on the list of schools approved by the Committee on the Professional Training of Chemists of the American Chemical Society. The Department of Chemistry is housed in a modern science complex, which has ample facilities for research and study, including a machine shop with four skilled instrument makers and a glass blower, and an adjoining "student" shop (directly accessible to graduate students). Graduate students also benefit from the presence of chemistry postdoctoral research fellows on the staff.

Teaching and research fellowships, and postdoctoral fellowships are available. Among the current sponsors of these appointments are the National Science Foundation, the Office of Education under the National Defense Education Act, and the Public Health Service. Additional information on these awards may be obtained at the time the student applies for admission. Although subject to variation, stipends of fellows, with summer research work, are currently \$3,800 for the calendar year. During 1972-1973, research projects in the Department of Chemistry were sponsored by the American Chemical Society, the Atomic Energy Commission, the National Institutes of Health, the National Science Foundation, the Research Corporation, the DuPont Corporation, the Texaco Fellowship, the Cities Service Corporation, Dreyfus Foundation, the Hoffmann La Roche Foundation, and the Sloan Foundation.

For convenience, current research interests of the faculty are grouped as biochemistry, organic chemistry, and physical chemistry programs.

Biochemistry. Modern research into the chemistry of the living cell involves studies of macromolecules, their organization, and their functional regulation. Current areas of interest include the structure and function of DNA, DNA-protein complexes and transfer RNA, protein structure and function and the assembly of subunits, enzyme catalytic mechanisms, lipid-protein interactions, and the physiological significance and biosynthesis of alkaloids.

The interaction of these programs with the departments of biology and physics is greatly strengthened by ties with the Institute of Molecular Biology. For example, a protein X-ray crystallographic facility is located in the Institute of Molecular Biology, under the direction of a member of the physics faculty, and is available to interested students in chemistry.

In 1967, the Department of Chemistry joined with the departments of biology and psychology and the Institute of Molecular Biology in launching a major interdisciplinary program in the areas of macromolecular chemistry, developmental biology, and neurobiology. Entering graduate students in chemistry are in an excellent position to take advantage of this molecularly oriented avenue to biological problems.

Organic Chemistry. Research problems in organic chemistry under active investigation cover a broad spectrum of interests ranging from structural elucidation and physiological activity, problems in synthesis, mechanistic studies, applications of both established and new physical methods, and the use of theory in calculations and predictions of the properties of organic molecules. Specific problems in the area of natural products and physiologically-active compounds include studies of the total synthesis of gibberellic acid, tetrodotoxin, echitamine, mavacurine and certain other indole alkaloids, lignans, and potential new antimalarials.

Mechanistic studies embrace the use of kinetics, isotopic labeling, secondary isotope effects, configurational changes, and photochemical, electrochemical, and thermal behavior as probes for examining cycloaddition reactions, various free radical reactions, rules governing conservation or orbital symmetry, nitroxide chemistry, the role of solvent, diffusion control of fast reactions in solution, and heterogeneous catalysis. Synthesis of unusual molecules having substituents within the cavity of the pi-electron cloud are being made to provide data for a better theoretical understanding of aromaticity. Computer methods are being applied both to facilitate routine spectral measurements as well as to extend the range and enhance the power of these established methods.

Physical Chemistry. Research interests include molecular spectroscopy, theoretical chemistry, chemical dynamics, biophysics, and physical geochemistry. Current interests extend from reactions of diatomic molecules to the conformations of complex biological macromolecules. Specific theoretical work includes the study of molecular electronic state spectra, equilibrium and non-equilibrium statistical thermodynamics, bond-excited states, charge transfer and conducting states of large hydrocarbon molecules, statistical theories of transport processes, theory of very fast chemical reactions, second quantization treatment of molecular exciton Hamiltonians, spin Hamiltonians, theory of vibronic mixing in two and three photon processes, and the theory of optical rotatory dispersion. Interdisciplinary cooperation with the departments of physics and mathematics is encouraged and actively supported through ties with the Institute of Theoretical Sciences. In addition, a chemical physics program is available for interested graduate students.

Current experimental studies include vacuum ultraviolet spectroscopy, the reaction mechanisms of diatomic molecules, gas phase kinetics and mass spectroscopy of small molecules, Raman and

two- and three-photon spectroscopic processes involving the scattering and absorption of laser light, flash photolysis, neutron activation analysis of lunar and terrestrial volcanic samples, experimental studies of factors which determine the three-dimensional structure of proteins and nucleic acids, electron spin resonance of spin labeled macromolecules, fluorescence spectroscopy and energy transfer in aromatic molecules, nuclear magnetic resonance of membrane models, and photoelectron microscopy of biological surfaces.

An illustrated publication describing the graduate program in chemistry is available upon request to the department. The booklet presents complete details on the program, facilities, financial support, the faculty and their individual research interests, course offerings, housing, and the local environment. Persons requesting the booklet will also receive additional information concerning requirements for admission, and instructions and application forms for admission and teaching assistantships.

Ch 101, 102, 103. Elementary Chemistry. 4 credit hours each term.

A brief presentation of some of the major areas of chemistry. Does not satisfy prerequisite for upper-division courses in chemistry. Three lectures, one discussion period fall term; two lectures, one discussion period, one three-hour laboratory winter and spring.

Ch 104, 105, 106. General Chemistry. 3 credit hours each term.

An introduction to the field of chemistry, providing an understanding of the structures of atoms, molecules, and ions and their interactions, and a foundation for the further study of chemistry. Three lectures. Prerequisite: Mth 95, or equivalent.

Ch 107. Introductory Chemistry Laboratory. 2 credit hours fall.

Experiments related to fundamental chemical principles. One lecture-discussion and one three-hour laboratory period. Prerequisite: Mth 95, or equivalent; Ch 104, or concurrent enrollment.

Ch 108. Introductory Analytical Chemistry I. 2 credit hours winter.

Introduction to quantitative inorganic analysis employing gravimetric and volumetric techniques. Prerequisite: Ch 107; Ch 105, or concurrent enrollment.

Ch 109. Introductory Analytical Chemistry II. 2 credit hours spring.

Continuation of Ch 108. Introduction of potentiometric and photometric instrumental methods. Prerequisite: Ch 108; Ch 106, or concurrent enrollment.

Ch 110, 111, 112. General Chemistry Seminar. 1 credit hour each term.

A study of relationships of chemistry to the concerns of liberal arts: interactions between chemical technology and science, relation of abstraction to empiricism in chemistry, and the economic and cultural consequences of chemical research. Designed for students not continuing in chemistry, but wishing to use Ch 104, 105, 106 to fulfill group requirement. May be substituted for Ch 107, 108, 109 for this purpose. Prerequisite: concurrent enrollment in Ch 104, 105, or 106.

Ch 204, 205, 206. General Chemistry. 3 credit hours each term.

First-year college chemistry for selected students with excellent backgrounds in high-school chemistry, physics, and mathe-

matics. Quantitative and theoretical aspects of the subject emphasized, with less descriptive material than in Ch 104, 105, 106. Open to Honors College students and other well-prepared students. Selection is based chiefly on mathematics preparation. Three lectures. Prerequisite: prior study of or concurrent registration in calculus.

Ch 207. Semi-micro Inorganic Qualitative Analysis. 3 credit hours fall.

The separation and identification of cations and anions by semi-micro methods. Planned to accompany Ch 104 or Ch 204. Intended primarily for prospective chemistry majors and Honors College students. Admission limited to selected students. Two three-hour laboratory periods; one lecture period.

Ch 208. Volumetric Analysis. 3 credit hours winter.

The quantitative estimation of selected molecular species by titration procedures. Planned to accompany Ch 105 or Ch 205. Intended primarily for prospective chemistry majors and Honors College students. Admission limited to selected students. Two three-hour laboratory periods; one lecture period.

Ch 209. Gravimetric Analysis. 3 credit hours spring.

The separation and gravimetric determination of selected inorganic species. Planned to accompany Ch 106 or Ch 206. Intended primarily for prospective chemistry majors and Honors College students. Admission limited to selected students. Two three-hour laboratory periods; one lecture period.

Ch 324. Quantitative Analysis. 4 credit hours spring.

Laboratory work includes volumetric, chromatographic, and various instrumental techniques. Designed to follow Ch 109. Satisfies the requirements in quantitative analysis for admission to medical or dental schools. Two lectures; two three-hour laboratory periods. Prerequisite: Ch 106, or Ch 206; Ch 109, or Ch 209.

Ch 331, 332. Organic Chemistry. 3 credit hours each term.

A study of the compounds of carbon, their structure, reactions and applications. Designed for biology majors, medical technicians, premedical and pre-dental students. Three lectures. Prerequisite: Ch 106 or Ch 206 with a grade of C or better.

Ch 333. Introduction to Biochemistry. 3 credit hours spring.

A study of the relationship between the covalent structure of proteins (enzymes) and nucleic acids, and their three-dimensional conformations and functions in biocatalysis and replication. Three lectures. Prerequisite: Ch 332, or Ch 334.

Ch 334, 335, 336. Organic Chemistry. 3 credit hours each term.

A comprehensive study of the chemistry of the compounds of carbon. Required for chemistry majors; open to Honors College students and others wanting more extensive coverage of organic chemistry. Three lectures. Prerequisite: Ch 106, or Ch 206, with a grade of C or better.

Ch 337, 338. Introductory Organic Laboratory. 2 credit hours each term, fall and winter.

Introduction to the principles and techniques of laboratory practice in organic chemistry. Prerequisite: Ch 109, or Ch 209, with a grade of C or better. One lecture; one three-hour laboratory period.

Ch 340, 341, 342. Organic Chemistry Laboratory. 3 credit hours each term.

A survey of the principles and techniques fundamental to laboratory practice in organic chemistry, including aspects of both qualitative and quantitative organic analysis. Prerequisite: Ch 109, or Ch 209, with a grade of C or better. Required for chemistry majors; open to Honors College students by

selection, and to others wanting a more comprehensive training in laboratory practice than is provided in Ch 337, 338. One lecture; two three-hour laboratory period.

Ch 401. Research.

Credit hours to be arranged. For advanced undergraduates. An introduction to the methods of chemical investigation.

Ch 403. Thesis.

Credit hours to be arranged. Open only to students eligible to work for the bachelor degree with honors in chemistry.

Ch 405. Reading and Conference.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

Ch 409. Special Laboratory Problems. (G)

Credit hours to be arranged. Provides laboratory instruction not classifiable as research; laboratory work covered in other courses is not duplicated. Consent of instructor is required.

Ch 411, 412. Physical-Inorganic Chemistry. (G) 3 credit hours each term, fall and winter.

A comprehensive study of the structure, properties, and reactions of atomic and molecular species in the various states of aggregation. Prerequisite: three years of college chemistry.

Ch 441, 442, 443. Physical Chemistry. (g) 4 credit hours each term.

Comprehensive study of the theoretical aspects of physical-chemical phenomena. Atomic and molecular properties; macroscopic systems in equilibrium; nonequilibrium macroscopic systems. Four lectures. Prerequisite: two years of college chemistry (except for physics majors), one year of calculus.

Ch 446, 447, 448. Physical Chemistry Laboratory. (g) 3 credit hours each term.

Instrumental techniques of present-day research. An introduction to electronics and chemical instrumentation; experiments utilizing optical spectroscopy, nuclear magnetic resonance, high vacuum techniques, gas chromatography, computers, electron spin resonance, and other instrumental methods. Experiments include thermodynamic and kinetic measurements and individual research projects. Prerequisite: Ch 108; Ch 109, or Ch 208; Ch 209; Ch 441, 442, 443 (may be taken concurrently). Two three-hour laboratory periods, one one-hour discussion.

Ch 451. Principles of Chemical Thermodynamics. (G) 3 credit hours.

The laws of thermodynamics and their applications, including those to nonideal chemical systems. Prerequisite: Ch 441, 442, 443, or equivalent.

Ch 453. Principles of Statistical Mechanics. (G) 3 credit hours.

The molecular basis of thermodynamics. Applications to the calculations of the properties of noninteracting and weakly interacting systems. Prerequisite: Ch 441, 442, 443, or equivalent.

Ch 455. Principles of Quantum Chemistry. (G) 3 credit hours.

The principles of quantum mechanics and their application to problems of chemical interest, including time-dependent problems. Prerequisite: Ch 441, 442, 443, or equivalent.

Ch 457. Principles of Chemical Kinetics. (G) 3 credit hours.

Description and interpretation of the time evolution of chemical systems. Prerequisite: Ch 441, 442, 443, or equivalent.

Ch 461, 462, 463. Biochemistry. (G) 3 credit hours each term.

Emphasis on the structure and function of biological macromolecules, metabolism and metabolic control processes, protein and nucleic acid synthesis, and biological genetics. Prerequisite: Ch 104, 105, 106; Ch 331, 332, or their equivalents. Some prior exposure to calculus and physical chemistry helpful but not required.

Ch 464. Biochemistry Laboratory. (G) 4 credit hours winter.

Designed to illustrate approaches currently being used in research in enzyme kinetics, protein purification, protein structure, nucleic acid purification, nucleic acid structure, and in the study of protein synthesis in intact cells and cell-free systems. Two four-hour laboratory periods and one to two hours of conference a week. Selected students may continue with projects in the spring term under Ch 409. Consent of instructor is required.

Ch 471, 472, 473. Chemical Instrumentation. (G) 3 credit hours each term.

Theory and operation of chemical instrumentation used in research laboratories; techniques used to perfect instrument performance, including application of computer technology for acquisition and presentation of data. Consent of instructor is required.

Graduate Courses

Ch 501. Research.

Credit hours to be arranged. No-grade course.

Ch 503. Thesis.

Credit hours to be arranged. No-grade course.

Ch 505. Reading and Conference.

Credit hours to be arranged.

Ch 507. Seminar. 1 credit hour each term.

Seminars offered in physical chemistry, organic chemistry, biochemistry, and molecular biology.

Ch 508. Special Topics in Physical Chemistry. 3 credit hours.

Topics of current interest reflecting research activities of the staff include:

Cosmochemistry. Goles.

Igneous Geochemistry. Goles.

Magnetic Resonance Spectroscopy. Griffith.

Nonequilibrium Thermodynamics and Statistical Mechanics. Mazo.

Diffusion-Controlled Reactions. Noyes.

Multiphoton Spectroscopy. Petcolas, Philpott.

Exciton Theory. Philpott, Simpson.

Theory of Optical Rotation. Schellman.

Theory of Unimolecular Reactions. Swinehart.

Ch 509. Special Topics in Organic Chemistry. 3 credit hours.

Topics include catalysis and surface chemistry, concerted cycloaddition reactions, free radical chemistry, heterocyclic chemistry, molecular calculations, molecular spectroscopy, natural products and alkaloid chemistry, and synthetic methods.

Ch 510. Special Topics in Biochemistry. 3 credit hours.

Topics of current interest are:

Enzyme Mechanisms. Bernhard, Wolfe.

Stability and Conformation of Macromolecules. Von Hippel.

Structure and Function of Nucleic Acids and Nucleic Acid-Protein Complexes. Von Hippel.
 Conformational Analysis of Macromolecules. Schellman.
 Protein and Nucleic Acid Biosynthesis. Herbert.
 Macromolecular Carbohydrates and Glycoproteins. Reithel.
 Protein Subunit Equilibria and Self-Assembly Problems in Biological Structures. Reithel.
 Biochemical Regulation in Higher Organisms. Herbert, Larra-bee.
 X-Ray Crystallography. Matthews.
 Membrane Structure and Function.

Ch 531, 532, 533. Advanced Organic Chemistry. 3 credit hours each term.

Advanced general survey of organic chemistry; structural theory, syntheses, scope and mechanism of reactions.

Ch 541, 542, 543. Chemical Kinetics. 3 credit hours each term.

The work of each term is selected from such topics as: classical kinetic theory of gases, statistical mechanics, statistical thermodynamics, chemical kinetics in the gas phase and in solution, catalysis. Offered alternate years.

Ch 545, 546. Quantum Chemistry. 2 or 3 credit hours each term.

Topics of chemical interest discussed in terms of the quantum theory. Introduction to wave mechanics, discussion of chemical bonding and the origin of the theory of resonance, and topics from atomic and molecular spectra.

Ch 553, 554. Statistical Thermodynamics. 3 credit hours each term, winter and spring.

Molecular interpretation of the properties of equilibrium sys-

tems; principles and applications to gases, crystals, liquids, phase transitions, solutions, electrolytes, gas adsorption, polymers, chemical equilibria, etc. Offered alternate years. Students may take Ph 451, 452, 453 when Ch 553, 554 are not offered.

Ch 562, 563. Advanced Biochemistry. 3 credit hours each term, winter and spring.

Enzyme kinetics and detailed consideration of glycolysis, biological oxidation, lipid metabolism, and selected biological synthesis.

Ch 564, 565. Physical Biochemistry. 3 credit hours each term, winter and spring.

The Physical Chemical Properties of Biological Macromolecules. Topics include the forces and interactions involved in establishing and maintaining macromolecular conformations, the physical bases of the spectroscopic, hydrodynamic, and rapid reaction techniques used in the investigation of these conformations. Prerequisite: calculus and a knowledge of the elements of thermodynamics. Offered alternate years.

Courses Offered Only in Summer Session

Ch 419. Advanced General Chemistry. (g) 4 or 5 credit hours.

Ch 429. Survey of Analytical Chemistry. (g) 4 or 5 credit hours.

Ch 439. Survey of Organic Chemistry. (g) 4 or 5 credit hours.

Chinese and Japanese

Faculty

Department Head, C. Bennett Pascal, Ph.D., Associate Professor of Classics (Latin and Greek literature, Roman religion). B.A., 1949, M.A., 1950, California at Los Angeles; M.A., 1953, Ph.D., 1956, Harvard; at Oregon since 1960.

Michael B. Fish, M.A., Visiting Assistant Professor of Chinese (T'ang and earlier literature). B.A., Knox College, 1965; M.A., Indiana, 1968; at Oregon since 1970.

Stephen W. Kohl, Ph.C., Instructor in Japanese (modern and classical Japanese literature). B.A., 1967, Ph.C., 1972, Washington; at Oregon since 1972.

Yoko M. McClain, M.A., Instructor in Japanese (modern Japanese language and literature). Diploma, Tsuda College, Tokyo, 1950; B.A., 1956, M.A., 1967, Oregon; at Oregon since 1968.

Angela Jung Palandri, Ph.D., Associate Professor of Chinese (Chinese poetry). B.A., Catholic University of Peking, 1946; M.A., 1949, M.L.S., 1954, Ph.D., 1955, Washington; at Oregon 1954-56 and since 1962.

Graduate Teaching Fellows

Liang-huei Fan, M.A. (Chinese). B.L., National Chengchi University, Taiwan, 1962; B.A., 1969, M.A., 1971, Oregon; at Oregon since 1971.

Franklin Gossette, B.A. (Chinese), Oregon, 1971; at Oregon since 1972.

Nancy Hartman Iwakawa, B.A. (Japanese and German), Earlham College, Richmond, Indiana, 1968; at Oregon since 1971.

Mitsuhiro Hashimoto, B.A., (Japanese and economics) Fukuoka University, 1966; at Oregon since 1972.

Norio Nakahara, B.A., (Japanese and economics) San Francisco State College, 1971; at Oregon since 1972.

I-mei Wang Lee, B.A. (Chinese literature and language) Tung-hai University, Taiwan, 1966; at Oregon since 1971.

THE AIM of the program in Chinese and Japanese is to enable a student to achieve proficiency in reading, writing, and speaking the language and to acquire a fundamental knowledge of the literature of the country.

Students considering a major in Chinese or Japanese are advised to decide upon their major at the earliest possible stage of their university career so that they are able to satisfy the requirements in the usual four years of undergraduate study.

Major Requirements. Major requirements for the Bachelor of Arts Degree are as follows:

Chinese. Thirty credit hours of work in Chinese beyond the second-year sequence, including Chinese Bibliography (OL 453) and 6 credit hours of Proseminar in Chinese Literature (OL 409).

In addition, students are required to take Introduction to Chinese Literature (AL 307, 308, 309) and History of China (Hst 494, 495, 496). Students are also advised to take Japanese, English, or some other language and literature.

Japanese. Thirty credit hours of work in Japanese beyond the second-year sequence, including Japanese Bibliography (OL 450) and 6 credit hours of Proseminar in Japanese Literature (OL 408). In addition, students are required to take Introduction to Japanese Literature (AL 301, 302, 303) and History of Japan (Hst 497, 498, 499). Students are also advised to take Chinese, English, or some other language and literature.

Chinese

OL 50, 51, 52. First-Year Chinese. 5 credit hours each term.

An introduction to Mandarin: initial conversation, reading, and writing. Characters and spoken language presented concurrently throughout the year with emphasis on grammatical patterns.

OL 101, 102, 103. Second-Year Chinese. 5 credit hours each term.

The increased use of characters; designed to build fluency in reading, writing, and conversation.

OL 199. Special Studies. 1-3 credit hours.

AL 307, 308, 309. Introduction to Chinese Literature. 3 credit hours each term.

Chinese literature from the origins to the modern period, with special emphasis on the poetry of the T'ang and Sung, the Yüan drama, and the classical and modern novel. All readings in English. Palandri, Fish.

OL 330, 331, 332. Chinese Composition and Conversation. 2 credit hours each term.

Exercises in writing Chinese and in translating English into Chinese. Systematic review of grammar and development of conversational proficiency. Prerequisite: two years' study of Chinese, or consent of instructor.

OL 405. Reading and Conference.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

OL 409. Proseminar in Chinese Literature. (g) 2 credit hours.

Independent literary studies, with readings both in Chinese and in translation. Prerequisite: AL 307, 308, 309. Fish.

OL 414, 415, 416. Contemporary Chinese. (g) 3 credit hours each term.

Study of contemporary Chinese literature to increase reading ability.

OL 420, 421, 422. Advanced Readings in Modern Chinese Literature. (g) 3 credit hours each term.

Readings in the modern novel and short story. Emphasis on increasing the student's knowledge of the literature. Consent of instructor is required. Palandri.

OL 423, 424, 425. Tang Poetry. (g) 3 credit hours each term.

Comprehensive study of Tang dynasty poetry: critical analysis and appreciation of works of major poets of the period including Li Po, Wang Wei, Tu Fu, Po Chu-yi, and Li Shang-yin. Consent of instructor is required. Offered alternate years. Palandri.

AL 460, 461, 462. The Chinese Classics. (g) 3 credit hours each term.

A comprehensive study of the Confucian and Taoist canons which introduces the student to the major sources of Chinese thought and culture. Readings in English; Chinese majors do selected readings in the original. Fish.

OL 436, 437, 438. Literary Chinese. (g) 3 credit hours each term.

Readings in various styles and genres of classical Chinese literature; stress on major works of different periods. A preparation for research. Offered alternate years. Fish.

OL 453. Chinese Bibliography. (g) 2 credit hours.

Examination of reference works in Chinese studies, covering Western sinology and major sources in Chinese and training in research methods. Prerequisite: two years' study of Chinese, or consent of instructor. Fish.

Japanese

OL 60, 61, 62. First-Year Japanese. 5 credit hours each term.

An introduction to Japanese: elementary reading, writing, and conversation. Stress on grammatical patterns and the presentation of characters and the syllabary. McClain.

OL 104, 105, 106. Second-Year Japanese. 5 credit hours each term.

The increased use of characters and grammatical patterns; designed to build fluency in reading, writing, and conversation. Kohl.

AL 301, 302, 303. Introduction to Japanese Literature. 3 credit hours each term.

Historical survey of Japanese literature from the Eighth Century to the present. Analysis and appreciation of major works,

authors, and genres, such as the *Manyoshu*, *The Tale of Genji*, *Saikaku*, and the Haiku. All readings in English. Kohl.

OL 327, 328, 329. Japanese Composition and Conversation. 2 credit hours each term.

Exercises in writing Japanese and in translating English into Japanese. Systematic review of grammar and development of conversational proficiency. Prerequisite: two years' study of Japanese, or consent of instructor. McClain.

OL 405. Reading and Conference.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

OL 408. Proseminar in Japanese Literature. (g) 2 credit hours.

Literary studies, with readings both in Japanese and in translation; independent research. Prerequisite: AL 301, 302, 303. Kohl.

OL 411, 412, 413. Contemporary Japanese. (g) 3 credit hours.

Advanced readings in modern documentary and literary Japanese, and use of standard reference materials. McClain.

OL 417, 418, 419. Advanced Readings in Modern Japanese Literature. (g) 3 credit hours each term.

Reading of prose works of representative modern authors, including Shimei, Ogai, Soseki, Akutagawa, Tanizaki, Kawabata. Consent of instructor is required. McClain.

OL 426, 427, 428. Literary Japanese. (g) 3 credit hours each term.

Readings in various styles and genres of Japanese prose literature in premodern periods. A preparation for research. Offered alternate years. Kohl.

OL 433, 434, 435. Japanese Poetry. (g) 3 credit hours each term.

Critical analysis and appreciation of Japanese poetry through reading of works in different forms and of different periods. Prerequisite: two years' study of language, or consent of instructor. Offered alternate years. Kohl.

OL 450. Japanese Bibliography. (g) 2 credit hours.

Bibliography for Japanese studies: examination of basic reference works in both Western languages and Japanese and training in research methods. Prerequisite: two years' study of Japanese, or consent of instructor. Kohl.

Classics

Faculty

Department Head, C. Bennett Pascal, Ph.D., Associate Professor of Classics (Latin and Greek literature, Roman religion). B.A., 1949, M.A., 1950, California at Los Angeles; M.A., 1953, Ph.D., 1956, Harvard; at Oregon since 1960.

Frederick M. Combellack, Ph.D., Professor of Greek Literature (Greek literature). B.A., Stanford, 1928; Ph.D., California, 1936; at Oregon since 1937.

Edna Landros, Ph.D., Assistant Professor Emerita of Classical Languages. A.B., Kansas, 1913; A.M., Arizona, 1921; Ph.D., Oregon, 1935; at Oregon since 1928.

Donald L. Malone, B.A., Visiting Assistant Professor of Classics (Latin and Greek literature, rhetoric). B.A., Kansas, 1966; at Oregon since 1972.

John L. Reavis, B.A., Instructor in Classics (Greek and Latin literature). B.A., Oregon, 1960; at Oregon since 1966.

Stephen C. Shucard, Ph.D., Assistant Professor of Classics (Greek and Latin literature, Greek drama). B.A., Brooklyn, 1962; Ph.D., Illinois, 1968; at Oregon since 1967.

Graduate Teaching Fellows

Lucinda Neuru, B.A. (Latin and Greek). B.A., San Francisco State, 1971; at Oregon since 1971.

Linda J. Vadimski, B.A. (Latin). B.A., Wyoming, 1972; at Oregon since 1972.

Undergraduate Studies

THE AIM of the program in classics is to equip students to deal directly with the civilizations of Greece and Rome by giving them the necessary command of Greek and Latin, and providing a variety of courses covering the most important Greek and Latin poets, historians, orators, and philosophers. Courses in Greek and Roman history are offered by the Department of History and courses in ancient art and archaeology by the School of Architecture and Allied Arts.

Major Requirements. Major requirements for the Bachelor of Arts degree are as follows:

Greek or Latin. Twenty-four credit hours in Greek or Latin beyond the second-year sequence; History of Greece (Hst 411), History of Rome (Hst 412, 413). Majors in Greek or Latin are normally expected to take work in the other classical language and should, if possible, also take some work in a modern language. Students planning to do graduate work in Classics are urged to take German.

Classical Civilization. A nonspecialized course of study of the arts and institutions of ancient Greece and Rome, for students

who desire a broad, classically based education, with a minimum of language study.

Requirements for the Bachelor of Arts degree. Latin or Greek, 2nd-year level. (Students with four years of high-school Latin or Greek take one year of a third-year course at the University of Oregon.) History of Greece (Hst 411), History of Rome (Hst 412, 413); Literature of the Ancient World (AL 304, 305, 306); Ancient Art (ArH 411, 412, 413, or 414, 415, 416); 18 credit hours of electives in Classics, Arts and Letters, Rhetoric, English, Philosophy, or Religion selected in consultation with a Classics adviser.

Electives may be chosen from the following list of options: CL 231, 232, 301-519; Classical Elements of English, 1 credit hour each term (AL 150, 151, 152); Classic Myths, 1 credit hours each term (AL 321, 322, 323); Early Mediterranean Art, 3 credit hours each term (ArH 411, 412, 413); Greek and Roman Art, 3 credit hours each term (ArH 414, 415, 416); Theory and Literature of Rhetoric, 3 credit hours each term (Rht 301, 302, 303); Rhetorical Theory: 400 B.C.-400 A.D., 3 credit hours (Rht 417); History and Criticism of Classical Speeches, 3 credit hours (Rht 421); History of Ancient Philosophy, 3 credit hours each term (Phl 301, 302, 303); Plato, 3 credit hours (Phl 411); Aristotle, 3 credit hours (Phl 413); Tragedy, Epic, Comedy, Satire, 3 credit hours each term (Eng 301, 303, 304, 305); History of Literary Criticism, 3 credit hours each term (Eng 414, 415, 416); History of Christian Thought and Institutions, 3 credit hours each term (R 321, 322, 323); seminars and colloquia (400-410, 500-510) on classical topics, with consent of adviser.

Secondary-School Teaching of Latin. For certification as a teacher of Latin in Oregon high schools, the Oregon Board of Education requires (1) the satisfaction of certain minimum standards of subject preparation, and (2) the recommendation of the institution in which the student completed subject preparation.

Completion of 45 credit hours of work in Latin satisfies the state standards for undergraduate preparation and the requirements for recommendation by the University of Oregon. Students planning to enter secondary-school teaching should consult the College of Education about requirements and specific recommended courses.

For permanent certification, after a fifth year of preparation, the student must complete an additional 15 credit hours in linguistics, culture, and civilization. The following courses are recommended: AL 450, 451; Hst 411; Hst 412, 413; History of the Latin Language (CL 407).

Graduate Studies

GRADUATE programs are offered in Classics leading to the degree of Master of Arts in (1) Greek, (2) Latin, and (3) Classics. In either (1) or (2), the student concentrates his or her graduate work in either Greek or Latin. In (3) the student takes graduate work in both Greek and Latin. Students working toward a degree in either Greek or Latin will ordinarily be expected to take some work in the other language unless they have already done so. Stu-

dents who have not already had a year course in ancient history will be expected to include ancient history in their graduate program. A thesis is recommended for the Master of Arts degree in this department. For alternatives to the thesis, consult an adviser in Classics.

Greek

AL 150, 151, 152. Classical Elements of English. 1 credit hour each term.

Classical components of the English language; Anglicization of Latin spelling, and transliteration of the Greek alphabet. Shucard.

CL 50, 51. Beginning Greek. 4 credit hours each term.

The fundamentals of the Attic Greek language.

CL 52. Introduction to Xenophon. 4 credit hours.

Reading of the first four books of Xenophon's *Anabasis*.

CL 101, 102. Introduction to Homer. 4 credit hours each term.

Reading of Books I-VI of the *Iliad*. The Homeric dialect; practice with the Homeric meter. Lectures on the Homeric Age.

CL 103. Introduction to Plato. 4 credit hours.

Reading of the *Euthyphro*, *Crito*, and *Apology*.

CL 199. Special Studies. 1-3 credit hours.

CL 231, 232. New Testament Readings. 4 credit hours each term.

Selected readings from the Gospels and Paul's Epistles. May be followed by CL 103 or CL 316 to complete a year sequence.

AL 304, 305, 306. Literature of the Ancient World. 3 credit hours each term.

Fall: Homer to Aeschylus; winter: Sophocles to Plutarch; spring: Latin literature. Lectures and readings in English. Combella, Reavis.

AL 321, 322, 323. Classic Myths. 1 credit hour each term.

The major mythological cycles of the ancient world: Troy, Thebes, and heroes. Lectures and readings in English. Pascal, Reavis.

CL 321, 322. Introduction to Homer. 4 credit hours each term.

For description, see CL 101, 102. Not open to students who have completed that sequence.

CL 323. Introduction to Plato. 4 credit hours.

For description, see CL 103. Not open to students who have completed that course.

CL 324. Euripides. 3 credit hours.

Reading of *Alcestis* and *Electra*. Lectures on Greek stage antiquities.

CL 325. Herodotus. 3 credit hours.

Reading of selections from Herodotus' *History*. Study of the Ionic dialect.

CL 326. Aristophanes. 3 credit hours.

Reading of *The Frogs* and one or two other plays. Aristophanes as a literary critic. Lectures on Greek comedy.

CL 327. Sophocles. 3 credit hours.

Reading, in alternate years, of the Trojan and the Theban plays.

CL 328. Demosthenes. 3 credit hours.

Reading of the *De corona*. Lectures on the Attic orators.

CL 351, 352, 353. Greek Prose Composition. 1 credit hour each term.

CL 405. Reading and Conference.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

CL 407. Greek Seminar. (G)

Credit hours to be arranged.

CL 411. Thucydides. (G) 3 credit hours.

Reading of selections from the *History of the Peloponnesian War*. Lectures on fifth-century Athens.

CL 412. Aeschylus. (G) 3 credit hours.

Reading of the *Oresteia*.

CL 413. Theocritus. (G) 3 credit hours.

Reading of Theocritus and selections from other Greek bucolic poets. Lectures on ancient pastoral poetry and its influence.

CL 414. Plato's Republic. (G) 3 credit hours.

Reading of the *Republic*, with special attention to Plato's literary art and to his attitude toward literature.

CL 415. Aristotle's Ethics. (G) 3 credit hours.

Reading of the *Nicomachean Ethics*. Lectures on ancient ethical theories and on Aristotle's relationship to Plato.

CL 416. Greek Lyric Poetry. (G) 3 credit hours.

Readings from the lyric poets, including the elegiac poets.

Graduate Courses

CL 503. Thesis.

Credit hours to be arranged. No-grade course.

CL 505. Reading and Conference.

Credit hours to be arranged.

CL 507. Greek Seminar.

Credit hours to be arranged.

CL 517, 518, 519. Studies in Greek Literature.

Credit hours to be arranged. Introduction to methods and materials for research in the classics; special attention to literary problems. Study of one of the following: Homer's *Odyssey*, Sophocles, Thucydides, Plato's *Republic*, Alexandrian poetry, or authors not usually included in the undergraduate curriculum.

Latin

AL 150, 151, 152. Classical Elements in English. 1 credit hour each term.

Classical components of the English language; Anglicization of Latin spelling, and transliteration of the Greek alphabet. Shucard.

CL 60, 61, 62. First-Year Latin. 4 credit hours each term.

Fall and winter: fundamentals of Latin grammar; spring: selected readings from classical and medieval authors.

CL 104. Cicero's Orations. 4 credit hours.

Reading of selected orations, with close study of classical Latin forms and constructions as exemplified in Cicero's speeches.

CL 105. Virgil's Aeneid. 4 credit hours.

Reading of the first six books of the *Aeneid*. Practice in reading Latin hexameter.

CL 106. Terence. 4 credit hours.

Reading of a representative comedy of Terence. Survey of the early Roman theater.

CL 199. Special Studies. 1-3 credit hours.**CL 301. Livy. 3 credit hours.**

Reading of Books I and II, with attention to Livy's prose style and especially his narrative technique.

CL 302. Virgil's Eclogues and Georgics. 3 credit hours.

Selected readings from the earlier poetic works of Virgil.

CL 303. Horace's Odes. 3 credit hours.

Selected odes from the four books. Special attention to Horace's employment of the lyric form to express national ideals as well as personal thought and emotion.

AL 304, 305, 306. Literature of the Ancient World. 3 credit hours each term.

Fall: Homer to Aeschylus; winter: Sophocles to Plutarch; spring: Latin literature. Lectures and readings in English. Combella, Reavis.

AL 321, 322, 323. Classic Myths. 1 credit hour each term.

The major mythological cycles of the ancient world: Troy, Thebes, and heroes. Lectures and readings in English. Pascal, Reavis.

CL 342. Pliny and Martial. 3 credit hours.

Selected letters of Pliny and epigrams of Martial. Development of Silver Latin as seen in a representative prose writer and poet; the literary and historical trends in Rome of the first and early second century A.D.

CL 343. Tacitus' Agricola and Germania. 3 credit hours.

Close study of Tacitean style in the earlier works.

CL 347, 348, 349. Latin Composition. 1 credit hour each term.

Survey of classical Latin syntax; extensive practice in prose composition. Designed for majors and prospective teachers.

CL 361. Catullus. 3 credit hours.

Reading and analysis of both the "personal" and Alexandrian poems. The political and social background of Catullus' poetry.

CL 405. Reading and Conference.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit**CL 408. Latin Seminar. (G)**

Credit hours to be arranged.

CL 447, 448, 449. Latin Prose Composition. (G) 1 credit hour each term.

Composition of continuous Latin prose based on an intensive study of stylistic models from classical literature. Prerequisite: CL 347, 348, 349.

CL 461. Propertius and Tibullus. (G) 3 credit hours.

Reading of works of Propertius and Tibullus. Comparison of the poetic styles of these two Augustan poets.

CL 462. Juvenal. (G) 3 credit hours.

Reading of the selected satires. Juvenal's relation to the Roman tradition of satire.

CL 463. Tacitus' Annals. (G) 3 credit hours.

Reading of the first six books of the *Annals*. Analysis of Tacitus' style. His importance as an interpreter of the early empire.

CL 464. Horace's Satires and Epistles. (G) 3 credit hours.

Reading of selections from the *Satires* and *Epistles*. Study of the Horatian technique of satire.

CL 465. Ovid's Metamorphoses. (G) 3 credit hours.

Reading of some of the major myths. Study of Ovid's storytelling technique.

CL 466. Petronius' Cena Trimalchionis. (G) 3 credit hours.

Reading of the entire *Cena*. Petronius' role in the development of the picaresque novel. Special attention to the colloquial Latin spoken by the characters in the *Cena*.

CL 467. Cicero's Philosophical Works. (G) 3 credit hours.

Reading of the *Tusculan Disputations* and the *De officiis*. Cicero's role as an eclectic philosopher.

CL 468. Lucretius. (G) 3 credit hours.

Reading of Book I and other selections from the *De rerum natura*. Review of ancient atomic theory. Close study of the Lucretian hexameter.

Graduate Courses**CL 503. Thesis.**

Credit hours to be arranged. A no-grade course.

CL 505. Reading and Conference.

Credit hours to be arranged.

CL 508. Latin Seminar.

Credit hours to be arranged.

CL 511, 512, 513. Readings in Medieval Latin.

Credit hours to be arranged.

CL 514, 515, 516. Studies in Latin Literature.

Credit hours to be arranged. Detailed study of one of the following, with special attention to literary problems: Latin epic, Augustan elegy authors not usually included in the undergraduate curriculum.

Computer Science

Faculty

Department Head, David G. Moursund, Ph.D., Associate Professor of Computer Science (computers in education, numerical analysis). B.A., Oregon, 1958; M.S., 1960, Ph.D., 1963, University of Wisconsin; at Oregon since 1967.

Gordon P. Ashby, M.B.A., Senior Instructor in Computer Science (systems programming); joint appointment with the Computing Center. B.S., Oregon State University, 1959; M.B.A., University of California at Los Angeles, 1961; at Oregon since 1966.

Norman Lee Beck, M.S., Instructor in Computer Science (systems programming); joint appointment with the Computing Center. B.A., 1968, M.S., 1972, Oregon; at Oregon since 1968.

G. Fredric Beisse, M.A., Instructor in Computer Science (applications programming); joint appointment with the Computing Center. B.A., Western Washington State College, 1964; M.A., Oregon, 1968; at Oregon since 1969.

Clark T. Benson, Ph.D., Associate Professor of Mathematics (combinatorics, algebra). B.S., California Institute of Technology, 1961; Ph.D., Cornell, 1965; at Oregon since 1961.

Wendell Terry Beyer, Ph.D., Assistant Professor of Mathematics (computer programming, theory of computation). B.A., 1962, M.A., 1964, Oregon; Ph.D., Massachusetts Institute of Technology, 1969; at Oregon since 1967.

James B. Crossland, M.A., Instructor in Computer Science (systems programming); joint appointment with the Computing Center. B.A., 1970, M.A., 1971, Oregon; at Oregon since 1971.

Richard W. Haller, Ph.D., Instructor in Computer Science (applications programming); joint appointment with the Computing Center. B.A., Michigan State, 1963; Ph.D., Stanford, 1969; at Oregon since 1967.

Robert L. Heilman, M.A., Instructor in Computer Science (systems programming, computer graphics); joint appointment with the Computing Center. B.S., University of Pittsburgh, 1962; M.A., Oregon, 1964; at Oregon since 1967.

Joanne A. Hugi, M.S., Instructor in Computer Science (administrative applications programming). B.S., Connecticut, 1965; M.S., Oregon, 1971; at Oregon since 1971.

Richard M. Millhollin, B.S., Instructor in Computer Science (applications programming). B.S., Southern Oregon College, 1968; at Oregon since 1972.

Robert L. Moore, M.S., Instructor in Computer Science (applications programming); joint appointment with the Computing Center. B.S., Oregon State University, 1962; M.S., Oregon, 1972; at Oregon since 1972.

Peter Gorham Moulton, Ph.D., Assistant Professor of Computer Science (programming languages). B.S., University of Chicago, 1960; M.S. 1966, Ph.D., 1971, University of Wisconsin; at Oregon since 1971.

George W. Struble, Ph.D., Associate Professor of Computer Science; Director, Computing Center. B.A., Swarthmore, 1954; M.S., 1957, Ph.D., 1961, University of Wisconsin; at Oregon since 1961.

Graduate Teaching Fellows

Clifford F. Burns (computers in education). B.S., Portland State University, 1963; M.A., Rutgers University, 1967; at Oregon since 1972.

Michael J. Dunlap (computers in education). B.S., George Fox College, 1968; M.A.T., Lewis and Clark College, 1969; at Oregon since 1972.

Linda Kay Hopperstad (systems research). B.S., South Dakota School of Mines & Technology, 1970; at Oregon since 1972.

K. Stephen Kwan (computer science, business administration). B.S., Oregon, 1972; at Oregon since 1972.

Gin Lu Tommy Shwe (computer science, electrical engineering). B.S., 1969, M.S., 1972, Cheng Kung University; at Oregon since 1972.

Joseph A. Talkington (computer science, business administration). B.S., Portland State University, 1971; at Oregon since 1972.

COMPUTER Science courses are designed to provide applied and theoretical training in the use of computers. Introductory and service courses are both designed to fit the needs of students majoring in a variety of fields. More advanced courses are designed for students seeking a career in the computer science field.

Computing facilities available for instructional purposes include an IBM 360/50 used for batch processing and a PDP-10 used for time-shared computing. The University of Oregon also has nearly two dozen small computers, mostly used for research and instruction in the various sciences.

The computer science program at the University of Oregon has been changing and expanding rapidly in recent years. Each year, the content of many courses changes substantially, and new courses are added. New courses are generally offered as CS 407 or CS 507 seminars the first time or two that they are offered. The Computer Science Department also offers a substantial summer session program, including more than fifteen different courses.

Undergraduate Studies

THE DEPARTMENT of Computer Science offers the Bachelor of Arts and Bachelor of Science degrees. Each program requires a minimum of 36 credit hours of work in computer science (of which at least 24 credit hours must be upper division), and an 18 credit hour upper-division minor in a field outside of computer science. A student's program must include at least one year of mathematics, to include at least one term of calculus (Mth 200 or Mth 204). Six (term) courses in science besides computer science must be taken. Required computer-science courses include Programming Practicum (CS 423, 4 credit hours), and Data Structures (CS 427, 4 credit hours).

High school students planning to major in computer science should pursue a strong academic program, and include substantial work in mathematics. Work in the computer programming field is desirable, but not required. Entering freshmen will ordinarily take Introduction to Computer Science (CS 201, 202, 203, 4 credit hours each term) if they intend to major in computer science.

Transfer students from two-year colleges and other schools should attempt to complete as many of the general requirements of the University as they can before entering the University. In addition, they should complete at least one year of mathematics (including one term of calculus), and lower-division courses in a field in which they intend to complete their upper-division work as a minor. Finally, they should take some introductory computer-programming courses. Students transferring from a school offering only a single computer-programming course (or no programming courses) should probably attend a University of Oregon Summer Session to obtain additional computer-programming background prior to transferring to the University of Oregon.

Graduate Studies

THE DEPARTMENT of Computer Science offers the Master of Arts and Master of Science degrees, as well as interdisciplinary master degrees between computer science and various other fields. It also offers a master degree in computer-science education for teachers.

The Department of Computer Science does not currently offer a doctoral program. Doctorates in numerical analysis and combinatorics are available through the Department of Mathematics. A doctorate in computer-science education is available through the College of Education. A doctorate involving considerable work in computers in business is available through the College of Business Administration. All of these programs allow and encourage the inclusion of substantial coursework from the Department of Computer science.

Candidates for admission to a master-degree program should have included some work in computing in their undergraduate program; however, an undergraduate degree in computer science is not required. The master degree requires 45 credit hours of work at the graduate level. Students who have had about one year of course work in computing at the undergraduate level will ordinarily require two full years of graduate work to complete a master degree. Students with the equivalent of an undergraduate major in computer science will ordinarily require four terms (one of which may be summer) to complete a master degree.

Additional details on master-degree programs, as well as application forms for admission to the program, are available from the department. General information about graduate work at the University of Oregon is available in the Graduate School section of this Catalog.

CS 201, 202, 203. Introduction to Computer Science. 4 credit hours each term.

For majors and other students seriously interested in computer science. A year-sequence covering principles of computer science; problem definition and analysis; programming languages and techniques; computer organization; survey of current applications. Prerequisite: four years high-school mathe-

matics, or Mth 101, or consent of instructor. Students having taken CS 421 may enter the major sequence by taking CS 203.

CS 221. Concepts of Computing. 2-3 credit hours.

An introduction to the capabilities and limitations of computers. Although not a computer-programming course, the three-credit option will include material on elementary time-shared computing in the language BASIC.

CS 231. Introduction to Business Data Processing. 4 credit hours.

First term of the sequence CS 231, CS 331, CS 431. Basic principles of computation and programming using the language BASIC. Examples and applications will be taken from the area of Business Data Processing. Prerequisite: Mth 101 or equivalent. Emergency approval for 1973-74 only.

CS 233. Introduction to Numerical Computation. 4 credit hours.

Basic concepts of problem analysis and computation; programming a computer using the language FORTRAN. Prerequisite: Mth 101 or equivalent.

CS 245. Introduction to Time-Shared Computing. 2 credit hours.

An introduction to time-shared computing on a large time-shared computer. Use of line and text editors to create files; manipulation of files; programming in several time-shared languages. Prerequisite: CS 201 or CS 233, or equivalent knowledge of programming in a batch-processing mode. A no-grade course.

CS 261. Computing in the Social Sciences. 4 credit hours.

First term of the sequence CS 261, CS 461, CS 462 designed for advanced undergraduates and graduate students with social science majors. Includes an introduction to computers and their use in solving data-analysis problems in the social sciences. Laboratory exercises will introduce batch and time-shared computers and the FORTRAN programming language. Not intended for students who have taken CS 233. Prerequisite: one year of college level mathematics. Emergency approval for 1973-74 only.

CS 290. Seminar.

Credit hours to be arranged.

CS 331. Business Data Processing. 4 credit hours.

Second term of the sequence CS 231, CS 331, CS 431. Introduction to the programming language COBOL; fundamentals of business data processing. Prerequisite: CS 231 or CS 233 or CS 201.

CS 403. Thesis.

Credit hours to be arranged.

CS 405. Reading and Conference.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

CS 407. Seminar. (g)

Credit hours to be arranged. Seminars to allow small groups of students to study further the material of an upper-division course or to study in greater depth specific topics arising out of other courses. The seminars offered vary according to the interests and needs of students and availability of faculty. Typical offerings are:

Computers in Education

Computers for Laboratory Control
Computer Installation Management
Computer Simulation

CS 410. Higher-Level Computer Languages. (g) 4 credit hours.

Credit hours to be arranged. The study of one particular higher level computing language such as PL/I, SNOBOL, or ALGOL. Labs and applications will be selected according to the language selected for the particular term. Prerequisite: CS 421.

CS 421. FORTRAN in an Operating Environment. (g) 4 credit hours.

Capabilities and limitations of a complete FORTRAN IV system. Prerequisite: CS 233 or equivalent.

CS 423. Programming Practicum. (g) 4 credit hours.

Experience in the computer-programming process. Emphasis on improving the quality of programs written. Program design, optimization, conventions, debugging, documentation; includes programming a sizeable project. Prerequisite: CS 421 and CS 424.

CS 424. Assembly Language Programming. (g) 4 credit hours.

Machine organization and structure, representation of data, I/O operations, interrupts, and instruction sets. Labs will be directed toward understanding basic notions of data structures. Prerequisite: CS 203 or equivalent.

CS 425. Assembly Language Programming. (G) 4 credit hours.

Programming in an assembly language. Use of macro language; advanced techniques for a variety of data-processing problems. Prerequisite: CS 424.

CS 427. Data Structures. (G) 4 credit hours.

Basic concepts of data organization, structures of storage media and machines, methods of representing structured data in storage, and techniques for operating upon data structures. Prerequisite: CS 424, and one year of college mathematics.

CS 428, 429. Computer Systems. (G) 4 credit hours each term.

Functional structure of computers and detailed structural analysis of operating systems. Properties and components of monitors, evolution of systems from sequential to multiprogramming, advances in operating systems related to integrated hardware-software design and time-sharing. Study of real-time monitors, input-output, interrupt systems, multiprocessing, and file organization. Prerequisite: CS 424.

CS 431. Business Data Processing. (g) 4 credit hours.

Third term of the sequence CS 231, CS 331, CS 431. Advanced COBOL programming; analysis of business systems from a computer science viewpoint. Prerequisite: CS 331. Emergency approval for 1973-74 only.

CS 441. Systems Programming. (G) 4 credit hours.

Study of advanced operating systems with emphasis upon the examination of the interrelationships of hardware and software components for a single system. Prerequisite: CS 429.

CS 447. Computer Assisted Experimentation. (g) 4 credit hours.

An introduction to the use of computers for data acquisition

and experimental control. Prerequisite: CS 201, CS 233, or equivalent.

CS 451. Information Retrieval. (G) 4 credit hours.

An introduction to the use of computers for storing, selecting, and retrieving data. Physical storage devices, data-base organization, safety and recovery, sorting and searching, privacy and security, commercial systems. Prerequisite: CS 421 or CS 203, or equivalent.

CS 461, 462. Computing in the Social Sciences. (g) 4 credit hours each term.

A continuation of CS 261. Investigation of algorithms and techniques for data analysis in the social sciences. Design, implementation, and use of programs for statistical analysis. Discussion of typical applications problems and assignment of student projects in line with their interests. Prerequisite: CS 261 (or CS 233 and CS 245), and a one-term course in statistics or research methods. Emergency approval for 1973-74 only.

Graduate Courses

CS 503. Thesis.

Credit hours to be arranged. No-grade course.

CS 505. Reading and Conference.

Credit hours to be arranged.

CS 507. Seminar.

Credit hours to be arranged. Seminars offered vary according to the interests and needs of students and availability of faculty. Typical offerings are:
Computer Graphics
Analysis of Business Systems
Computer Logic Design

CS 521, 522. Theory of Computation. 4 credit hours each term.

Structure and behavior of finite and infinite machines; formal languages and syntactic analysis; relationship between formal languages and machines; Turing machines, computability, and undecidability; computational complexity.

CS 524, 525. Structure of Programming Languages. 4 credit hours each term.

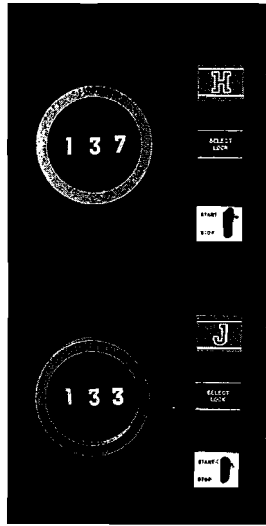
Syntax and semantics of programming languages; formal representation of computational processes, formal representation of grammars and related parsing methods, comparison and design of programming languages. Prerequisite: CS 424, or equivalent knowledge of assembly language and higher-level programming.

CS 544. Compiler Construction. 4 credit hours.

Techniques involved in the analysis of source-language statements and the generation of object code. Some theory; emphasis on construction of compilers. Prerequisite: CS 427, CS 525.

CS 571. Artificial Intelligence. 4 credit hours.

Basic ideas and goals of artificial intelligence. Heuristic methods and programming techniques. State space-search methods. Survey of representative application areas such as pattern recognition, theorem proving, game playing, natural language comprehension, cognitive simulation. Prerequisite: CS 427.



Economics

Faculty

Department Head, Robert Campbell, Ph.D., Professor of Economics (history of thought). B.A., Berkeley, 1947; B.S., U.S. Merchant Marine Academy, 1950; Ph.D., Berkeley, 1953; at Oregon since 1952.

Gerald O. Bierwag, Ph.D., Professor of Economics (econometrics). B.A., Idaho, 1958; Ph.D., Northwestern, 1962; at Oregon since 1962.

Calvin Crumbaker, Ph.D., Professor Emeritus of Economics. B.S., Whitman, 1911; M.A., Washington, 1927; Ph.D., Wisconsin, 1930; at Oregon since 1930.

Richard M. Davis, Ph.D., Professor of Economics (economic theory). B.A., Colgate, 1939; M.A., 1941, Ph.D., 1949, Cornell; at Oregon since 1954.

Corwin D. Edwards, Professor Emeritus of Economics. A.B., 1920, B.J., 1921, Missouri; B.Litt., Oxford, 1924; Ph.D., Cornell, 1928; at Oregon since 1963.

Henry N. Goldstein, Ph.D., Professor of Economics (international finance). B.A., North Carolina, 1950; M.S., 1953, Ph.D., 1967, Johns Hopkins; at Oregon since 1967.

Myron A. Grove, Ph.D., Professor of Economics (public finance). B.S., 1957, M.S., 1959, Oregon; Ph.D., Northwestern, 1964; at Oregon since 1963.

Chulsoon Khang, Ph.D., Associate Professor of Economics (pure theory of international trade). B.A., Michigan State, 1959; M.A., 1962, Ph.D., 1965, Minnesota; at Oregon since 1966.

Paul L. Kleinsorge, Ph.D., Professor Emeritus of Economics. A.B., Stanford, 1927; M.B.A., Harvard, 1929; Ph.D., Stanford, 1939; at Oregon since 1948.

H. T. Koplin, Ph.D., Professor of Economics (economic theory). B.A., Oberlin, 1947; Ph.D., Cornell, 1952; at Oregon since 1950.

Raymond F. Mikesell, Ph.D., W. E. Miner Professor of Economics (international economics and economic development). B.A., 1935, M.A., 1935, Ph.D., 1939, Ohio State; at Oregon since 1957.

Barry N. Siegel, Ph.D., Professor of Economics (monetary theory). B.A., 1951, Ph.D., 1957, California; at Oregon since 1961.

Paul B. Simpson, Ph.D., Professor of Economics (mathematical economics). B.A., Reed, 1936; Ph.D., Cornell, 1949; at Oregon 1949-53 and since 1955.

Robert E. Smith, Ph.D., Professor of Economics (industrial organization and public policy). B.A., Southern California, 1943; Ph.D., California at Los Angeles, 1963; at Oregon since 1962.

James N. Tattersall, Ph.D., Professor of Economics (economic history). B.A., 1954, M.S., 1956, Ph.D., 1960; Washington; at Oregon since 1957.

Marshall D. Wattles, Ph.D., Professor of Economics; Vice-Provost for Academic Administration. B.A., Southwest Missouri State, 1938; M.S., Missouri, 1941; Ph.D., Ohio State, 1950; at Oregon since 1950.

W. Edward Whitelaw, Ph.D., Associate Professor of Economics (regional and urban economics). B.A., Montana, 1963; Ph.D., Massachusetts Institute of Technology, 1968; at Oregon since 1967.

Thomas B. Wiens, Ph.D., Assistant Professor of Economics (economic development). B.A., Yale, 1964; Ph.D., Harvard, 1973; at Oregon since 1970.

Graduate Teaching Fellows

Fred J. Abraham, B.S., Wisconsin State, 1967; M.S., Wisconsin, 1969; M.A., Oregon, 1972; at Oregon since 1970.

C. Lance Barnett, B.S., California, 1971; at Oregon since 1971.

Hi Kyung Chae, B.A., Seoul National University, 1963; at Oregon since 1968.

Raymond L. Cohn, B.S., Illinois State, 1972; at Oregon since 1972.

Terry W. Drake, B.A., Chico State, 1971; at Oregon since 1972.

Mark S. Fields, B.S., California State, 1971; at Oregon since 1972.

Kevin R. Kelly, B.S., Santa Clara, 1971; at Oregon since 1971.

Jeffrey A. Kolb, B.A., Wisconsin, 1970; at Oregon since 1970.

Dona K. Lehr, B.A., Oregon, 1968; M.A., Washington State, 1971; at Oregon since 1972.

Ham Tam Nguyen, B.A., 1967, M.S., 1972, Oregon; at Oregon since 1971.

John Schunhoff, B.A., Lewis and Clark, 1968; at Oregon since 1972.

Stephen J. Staloff, B.A., Brooklyn College, 1971; at Oregon since 1971.

Yong Y. Yang, B.A., Seoul National, 1966; M.B.A., Seoul National University, 1970; at Oregon since 1970.

Undergraduate Studies

THE DEPARTMENT of Economics offers undergraduate work leading to a bachelor degree. Students doing outstanding work in their major program may be eligible for departmental Honors. The undergraduate courses in economics are designed primarily to provide a broad knowledge of the field as a part of the program of liberal education offered by the College of Liberal Arts. They are also designed to give a substantial foundation in economics to students interested in (1) professional careers in business, law, and government, (2) secondary-school teaching, and (3) professional graduate training in economics.

Suggested preparation for entering freshmen is four years of high-school mathematics. Prospective majors are strongly urged to satisfy part of their science group requirement with an introductory college mathematics course, to be taken in the freshman or sophomore year. Suggested preparation for two-year college transfers is the equivalent of Ec 201 and the equivalent of Mth 101, 102, and 103.

Major Requirements. The following courses are required for an undergraduate major in economics:

(1) Intermediate Economic Analysis (Ec 375, 376, 377); (2) 27 credit hours of work in economics numbered 400 or above; (3) Introduction to Statistical Theory (Mth 441, 442) or Introduction to Econometrics (Ec 393, 394), or Econometrics (Ec 493).

Secondary-School Teaching of Social Studies. For certification as a teacher of social studies in Oregon high schools, the Oregon Board of Education requires (1) the satisfaction of certain minimum standards of subject preparation, and (2) the recommendation of the institution at which the student completes the subject preparation.

To meet the state standards in social studies and the requirements for recommendation by the University of Oregon, a major in economics must complete the following program:

Basic Norm. (1) Satisfaction of the requirements for the B.A. or B.S. degree in economics; (2) 30 credit hours (at least 18 upper-division) in social science courses outside of the major; (3) Work in four of the following: anthropology, American history, world histories, geography, psychology, political science, and sociology; 60 credit hours in social sciences must be graded with a GPA of 2.75 required. (4) Work in the following: (a) the areas of the United States, Europe, Asia, Africa, and Latin America; (b) the principles, theory, structure, or methodology of one social science discipline; (c) contemporary themes, such as urban studies, minority group studies, or environmental studies (at least 6 credit hours); (5) 30-36 credit hours in prescribed education courses.

The **Standard Norm** requires 72 credit hours in social science including the requirements of the above basic norm.

Intermediate School Endorsement. Students seeking the secondary certificate with an intermediate school endorsement should emphasize United States history and culture to 1865, history and culture of the Pacific Northwest, history and culture of Latin America and Canada, world geography and world cultures.

For further information, the student should consult the member of the economics faculty who serves as adviser for prospective teachers.

Graduate Studies

THE DEPARTMENT of Economics offers graduate work leading to the degrees of Master of Arts, Master of Science, and Doctor of Philosophy. General information about graduate work at the University of Oregon is available in the Graduate School section of this Catalog.

Applicants for admission must submit the following to the department: (1) scores in the Graduate Record General Aptitude Examination and the Advanced Test in Economics; (2) three letters of recommendation; (3) complete transcripts of previous work. Applicants whose native language is not English must also submit their score in the Test of English as a Foreign Language.

Master Degree. The Department of Economics has two master degree programs; one designed for students wishing to teach in two-year or other colleges willing to hire people with master degrees, and another designed for students who want research careers. Both programs require a minimum of 45 hours of graduate credit, and students must expect to spend at least two years in

residence. Both programs require students to have completed 9 credit hours of a theory course at a junior level (equivalent to Ec 375, 376, 377). An entering graduate student in the master program who has not had such a theory course is required to pass Ec 375, 376, 377 with a B grade or better (with no graduate credit).

Teaching masters. Students in the teaching-master degree program must demonstrate knowledge in mathematics equivalent to that contained in Mth 101, 102, 103, and knowledge in statistics equivalent to that in Mth 425, 426, 427. Students in the teaching-master degree program must take a minimum of 45 credit hours of graduate course work distributed as follows: 9 credit hours of supervised teaching (typically in the second year), 3 credit hours of research seminar, 9 credit hours of 500 level work in economics, and 24 credit hours of work in economics or related disciplines at the 500 or 400G level as approved by the student's adviser.

Students in the teaching-master degree program will not be required to write a research paper or thesis; however, they will be required to pass a comprehensive examination in order to qualify for the degree.

Research Master. Students in the research-master degree program must demonstrate knowledge in mathematics equivalent to Mth 201, 202, 203 (sophomore calculus), and in computer science equivalent to that in CS 233 or CS 429. In addition, students in the research program must take 45 credit hours of graduate course work as follows: 6 credit hours of Econometrics (Ec 493, 494) or 9 credit hours of Quantitative Methods (QM 432, 433, 434); 9 credit hours of 500 level course work in economics; 9 credit hours of research seminar work in economics; 18 or 21 credit hours of course work at the 500 or the 400G level in economics or related fields as approved by the student's adviser.

Completion of the research-master degree also requires a research paper which, in the opinion of the economics faculty, demonstrates the ability of the student to do acceptable research work in a government agency or business enterprise. No more than three of the minimum forty-five credit hours requirement will be allowed as credit for the research paper. There is no comprehensive examination for students in the research-master degree program.

Students must select at least one of the two programs in economics. They may switch programs; however, in doing so they must satisfy the requirements of the program into which they move.

Doctor of Philosophy degree. Every graduate student seeking the Ph.D. degree must satisfactorily complete 24 credit hours of graduate work in a set of core courses: macrostatics, growth and dynamics, capital theory, optimization techniques, general equilibrium, and welfare economics. The student must fulfill this core obligation during the first year of graduate study. An examination over the core courses is administered during the final week of the spring term. Passing this examination is necessary before the student will be permitted to undertake the second year of the Ph.D. program.

In addition to the core requirements, each student in the Ph.D. program must pass Econometrics (Ec 493, 494, and 495) with an average grade of B or better. The University foreign-language requirement may be met by (a) competence in one foreign language; (b) a sequence in mathematical statistics at the Mth 441, 442, 443, or 447, 448, 449, or higher, level; (c) a sequence in computing offered by the Computer Science department or (d) any other equivalent option having relevance to the student's program of study subject to approval by the graduate committee of the department. The language requirement option (a) may be satisfied by a B average or better in a sophomore language course or it

may be satisfied by examination. An appropriate computer sequence (option c) must be approved by the director of graduate studies of the Department of Economics.

Every student must complete a minimum of 27 graduate credit hours of study (not including the core courses or econometrics). Among these 27 credit hours, the following three seminars (each having 3 credit hours) must be included: seminar in applications of research techniques, formulation of research problems, and dissertation workshop.

An advisory committee is appointed for each student to guide the student in the second year of study, contingent upon passing the core examination. This committee will be appointed by the director of graduate studies, after consultation with the student. It is anticipated that the student will organize the committee, subject to the approval of the director. When the student has completed the second-year requirements established by the advisory committee, including the submission of an acceptable dissertation proposal, the student will be advanced to candidacy. At the option of the student, a master degree may be awarded upon advancement to candidacy.

Ec 199. Special Studies in Analytical Methods. 1 credit hour.

To be taken in conjunction with Ec 376. Applications of simple mathematical methods to problems in intermediate economic analysis.

Ec 199. Special Studies in Economics. 1-3 credit hours.

Ec 201. Introduction to Economic Analysis. 3 credit hours.

A systematic introduction to the tools and methods of economic analysis, designed to provide the nonmajor student with the basis for an understanding of economic issues and problems.

Ec 202. Special Topics in Economics. 3 credit hours any term.

A selection of topics applying the tools developed in Ec 201 to major economic issues and problems. Topics offered have included: Unemployment-Inflation Dilemma, Economics and the Quality of the Environment, Economics of Poverty, Images of Capitalism, A Critique of Radical Economics, Urban America, Economic Problems of the Third World, Gold and the Dollar. Prerequisite: Ec 201. May be repeated for credit.

Ec 321. Money and Banking. 3 credit hours fall.

Operations of commercial banks, the Federal Reserve System, and the Treasury that affect the United States monetary system.

Ec 322. Taxation and Fiscal Policy. 3 credit hours winter.

Principles and problems of government financing. Expenditures, revenues, debt, and financial administration. Production by government versus production by the private sector. Tax measures to curb pollution.

Ec 323. International Finance. 3 credit hours spring.

The nature of foreign-exchange markets; techniques of international payments; exchange rates and their determination, problems of an international monetary standard; international banking facilities; economic aspects of major international organizations.

Ec 375, 376, 377. Intermediate Economic Analysis. 3 credit hours each term.

First term: income and employment theory. Second term: theory of the consumer; theory of the firm; determination of prices in various kinds of markets. Third term: general equilibrium;

welfare economics; collective choice and rules for evaluating economic policy. Prerequisite: Ec 201. Mathematics through Mth 106, or equivalent, is strongly recommended. (See also Ec 199.)

Ec 393, 394. Introduction to Econometrics. 3 credit hours each term.

Survey of elementary econometric methodology and empirical work in econometrics. Covers economic applications of statistical theory, regression, and correlation analysis. Use of calculator and computer required. Must be taken as a two-term sequence. Prerequisite: Ec 201, and the equivalent of college algebra.

Ec 401. Research.

Credit hours to be arranged.

Ec 405. Reading and Conference.

Credit hours to be arranged.

Ec 409. Supervised Tutoring Practicum. 1-3 credit hours.

Upper-Division Courses Carrying Graduate Credit

Ec 407. Seminar. (g)

Credit hours to be arranged. Opportunity for small groups of students to pursue further the subject matter of an upper-division course or to explore in depth a specific topic arising out of material covered in a course. The seminars offered vary from year to year, depending upon interests and needs of students and upon availability of faculty. Typical offerings are:

Marxian Economics
Multi-national Corporation
Economics of the Wine Industry
International Economic Agencies
Benefit Cost Analysis
Economics of the Black Ghetto
Public Expenditure Economics

Ec 411. Money and Banking Theory. (G) 3 credit hours.

Nature and role of money; commercial banking system; Federal Reserve System; theory of credit and money supply control; Keynesian and monetarist theories of national income determination and inflation. Prerequisite: Ec 375 (may be taken concurrently).

Ec 412. Money, Banking, and Economic Stabilization. (G) 3 credit hours.

Commercial bank behavior and monetary control; nonbank financial intermediaries and the problem of monetary control; "free reserves" and other indicators and targets of monetary control; fiscal policies versus monetary policies as tools for economic stabilization. Prerequisite: Ec 321 or Ec 411.

Ec 413. Money and Credit Markets. (G) 3 credit hours.

Credit markets; mortgage markets and construction; money flow studies; institutional lending policies; theories of interest; term structure of interest rates; interest rates and the demand for money; role of interest in social investment policy. Prerequisite: Ec 321 or Ec 411.

Ec 414. Regional Economics. (G) 3 credit hours.

Location theory; interregional multiplier theory; regional growth; techniques of regional analysis: regional income accounting, economic base studies, input-output analysis, linear programming; regional and interregional models. Prerequisite: Ec 201; Mth 101, 102, or equivalent.

Ec 415. Urban Economics I. (G) 3 credit hours.

Location theory, urbanization and metropolitan growth; intra-urban rent, location and land use; size distribution of urban areas; welfare economics, political economy and urban problems. Prerequisite: Ec 201; Mth 101, 102, or equivalent.

Ec 416. Urban Economics II. (G) 3 credit hours.

Problems of race and poverty in the city; urban education systems, defacto segregation, and equality of educational opportunity; housing, residential segregation, slums and urban renewal; urban transportation; financing local government; urban crime; pollution and environmental quality; urban planning and normative models of the city. Prerequisite: Ec 415.

Ec 417. Contemporary Economic Problems. (g) 3 credit hours.

Contemporary economic conditions and problems; analysis of economic policies and practices affecting such problems.

Ec 418. Economy of the Pacific Northwest. (g) 3 credit hours.

Historical development and present industrial structure of the Pacific Northwest economy. Locational factors influencing development of the region's major industries; recent changes in income and population; analysis of problems and governmental policies in the areas of taxation, environment, and planning.

Ec 429, 430, 431. Public Finance. (G) 3 credit hours each term.

Fall and winter: the place of public finance in economic policy; rationale of the public sector; models of the optimal public budget; impact of the public budget on individual economic decisions; detailed consideration of the principles of taxation and expenditure; analysis and comparison of various forms of taxation; government enterprise. Spring: fiscal aspects of stabilization policy; impact of the public budget on the total levels of economic activity. Prerequisite: Ec 201. Should be taken in sequence.

Ec 432, 433, 434. The Economics of Public Policy. (G) 3 credit hours each term.

Application of economic principles and techniques to public policy issues; function of the economist in the formulation and implementation of public policy. Case studies involving systematic treatment of economic issues.

Ec 440, 441, 442. International Economics. (G) 3 credit hours each term.

First term: the nature and significance of the foreign exchange market; interaction between spot and forward markets; speculation and interest arbitrage; balance-of-payments accounting and alternative measures of payments deficits and surpluses; different ways to deal with a payments deficit. Second term: institutional arrangements to generate international liquidity; the role of the International Monetary Fund; special drawing rights; the pros and cons of flexible exchange rates; proposals to introduce moderated exchange-rate flexibility. Third term: the "pure" theory of international trade; determination of the direction of trade, international prices, the volume of goods traded; the effects of tariffs, quotas, customs unions, and common markets; the effects of free and restricted trade on economic welfare. Should be taken in sequence. Prerequisite: Ec 201.

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

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

Ec 445. Organized Labor. (G) 3 credit hours.

Theories of the labor movement; history of the American labor movement; aims, methods, and policies of trade unions, conservative and radical; the impact of labor organizations on the American economy.

Ec 446. Labor Legislation. (G) 3 credit hours.

Analysis of labor legislation in the United States and of court decisions in leading labor cases; problems facing employee, employer, and public that call for regulation through public authority.

Ec 447, 448, 449. Collective Bargaining. (G) 2 credit hours each term.

Major techniques of negotiation; union and management policies; strikes and lockouts. Methods of settling labor disputes, including grievance procedures, conciliation, fact finding, and arbitration.

Ec 450, 451, 452. Comparative Economic Systems. (g) 2 credit hours each term.

An analytical comparison of capitalism and other economic systems.

Ec 454, 455, 456. Economic History of Modern Europe. (G) 3 credit hours each term.

The economic development and economic institutions of modern Europe. Fall: from the beginning of the sixteenth century to the beginnings of the Industrial Revolution in Britain; winter: late eighteenth century to end of nineteenth century; spring: twentieth century.

Ec 457, 458, 459. Economic Development. (G) 3 credit hours each term.

First term: Experience of developed countries and theories of development. Second term: Policy ingredients of development programs: role of agriculture; sources of finance; techniques and strategy of investment planning. Third term: Economic development of Japan and People's Republic of China. Prerequisite: Ec 201.

Ec 460. The Economics of Industrial Organization. (G) 3 credit hours.

A survey and evaluation of the theories, quantitative measures, and institutional descriptions associated with the structure, conduct, and results that characterize American industry. The emphasis is on the determinants and consequences of market power.

Ec 461. Industrial Organization and Public Policy. (G) 3 credit hours.

A description and critique of the major policy instruments that have been developed to cope with social problems created by market power. The two principal instruments are antitrust and income policies.

Ec 463. Economics of Regulated Industries. (G) 3 credit hours.

An analysis (1) of the economic characteristics of industries in which the decision-making process is regulated by government administration rather than by market forces, (2) of the consequences of regulation, and (3) of alternate forms of social control. The industries usually covered include transportation, communications, and the production of electricity, natural gas, and crude oil.

Ec 464, 465, 466. Quantitative Economic Analysis. (G) 3 credit hours each term.

The use of mathematical techniques in economic analysis. Consumption and production theory, programming, input-output;

general equilibrium; multiplier, accelerator, growth, and inventory models. Prerequisite: Ec 201, Mth 101, 102, 103, or equivalent.

Ec 470. Early Economic Thought. (G) 3 credit hours.

Approaches to the study of the history of ideas. Early economic ideas and their relationship to the scientific and philosophical thought of the ancient and medieval world. Consideration of early conceptualizations of economic systems.

Ec 471. Classical Economics. (G) 3 credit hours.

Concepts of a market economy and economic growth in the works of Adam Smith, T. R. Malthus, David Ricardo, and Karl Marx.

Ec 472. The Evolution of Modern Economic Analysis. (G) 3 credit hours.

The nineteenth century marginalist approach to microeconomic analysis; partial versus general equilibrium models of the economy; institutionalist and theoretical critiques of the neo-classical tradition; from the ideas of W. S. Jevons to those of J. M. Keynes. Prerequisite: an elementary knowledge of economic concepts and relationships.

Ec 480, 481, 482. Mathematical Economics. (G) 3 credit hours each term.

Ec 480: economic theory as formulated in mathematics; linear programming; positive and negative definite quadratic forms; necessary and sufficient conditions for maxima and minima of functions of n variables. Ec 481: comparative static problems; individual demand curves; Slutsky equation analysis of consumer demand; homogeneous functions; production functions; substitution of factors; general equilibrium. Ec 482: elementary growth models; turnpike theorems; stability analysis and equilibrium behavior under uncertainty with related mathematical topics of matrices, characteristic roots and differential equations. Must be taken in sequence. Prerequisite: Ec 201 and elementary calculus.

Ec 483, 484, 485. National Income and Business Cycles. (G) 3 credit hours each term.

Theory and practice of social accounting, index numbers, measure of business cycle stages, leading and lagging series, behavior of labor cost, productivity, and other economic measures of business fluctuations. Prerequisite: Ec 201.

Ec 487, 488. American Economic History. (G) 5 hours each term.

First term: Pre-industrial America. Second term: the industrial and post-industrial economy. Particular attention to the influence of social and cultural forces on economic growth and development; considerable attention to the changing influence of public policy.

Ec 490, 491, 492. Development of Industrial Economies. (G) 3 credit hours each term.

Comparative study of economic development in the advanced industrial nations. Fall term: industrialization in long term historical perspective; its origins and geographic spread in the 18th and 19th centuries. Winter and spring term: case studies selected from the historical experience of North America, Western Europe, U.S.S.R., Japan, with emphasis on 20th century developments.

Ec 493, 494, 495. Econometrics. (G) 3 credit hours each term.

Study of regression problems in which autocorrelation, heteroskedasticity, multicollinearity, and lagged dependent variables obtain; special single-equation estimating techniques; the identification problem in simultaneous equation settings; development of simultaneous equation estimating procedures; the properties of these estimators; applications of these procedures to the problem of obtaining estimates of structural parameters in economic models containing many equations. Consent of instructor is required. Prerequisite: statistics.

Graduate Courses

Ec 501. Research.

Credit hours to be arranged. A no-grade course.

Ec 503. Thesis.

Credit hours to be arranged. A no-grade course.

Ec 505. Reading and Conference.

Credit hours to be arranged.

Ec 507. Seminar.

Credit hours to be arranged.

Capital Theory.

Econometrics.

Economic History.

General Equilibrium.

Growth and Dynamics.

Industrial Organization and Control.

History of Economic Thought.

Labor Economics.

International Economics.

Macrostatics.

Mathematical Economics.

Money and Credit.

Optimization Techniques.

Public Finance.

Ec 514, 515, 516. Urban and Regional Economic Analysis. 3 credit hours each term.

Analysis of the growth and structure of urban and regional economies: theories of metropolitan, regional, and interregional relations; intra- and inter-urban rent, location and land use; patterns of natural-resource use; and techniques of analysis. Analysis of the applied welfare economics and political economy of cities and regions: race and poverty; housing; education; state and local public finance; transportation; environmental quality; and crime.

Ec 524, 525, 526. Economic Growth and Development. 3 credit hours each term.

Economic, cultural, and political factors in economic development with special emphasis on low-income countries. Theory of economic development; case studies in economic growth; measures for accelerating development of poor countries; special problems of underdeveloped countries. Prerequisite: Ec 201, 12 credit hours in upper-division social science.

English

Faculty

Department Head, Roland Bartel, Ph.D., Professor of English (English education; romanticism). B.A., Bethel, 1947; Ph.D., Indiana, 1951; at Oregon since 1951.

Robert C. Albrecht, Ph.D., Associate Professor of English (American literature). B.A., Illinois, 1955; M.A., Michigan, 1957; Ph.D., Minnesota, 1962; at Oregon since 1967.

Richard F. Allen, Ph.D., Assistant Professor of English (Old Icelandic; medieval English). B.A., Yale, 1957; M.A., Miami, 1959; Ph.D., Pittsburgh, 1968; at Oregon since 1968. (On leave of absence, 1973-74).

Lucile F. Aly, Ph.D., Associate Professor of English (rhetoric; teacher education). B.S., Missouri, 1935; M.A., Columbia, 1942; Ph.D., Missouri, 1959; at Oregon since 1960.

Roland C. Ball, Ph.D., Professor of English (comparative literature: romanticism, modern drama). B.A., Swarthmore, 1939; M.A., Cornell, 1941; Ph.D., California, 1953; at Oregon since 1952. (On sabbatical leave, 1973-74.)

Constance Bordwell, M.A., Assistant Professor of English (writing; applied linguistics). B.A., Oregon, 1931; M.A., Washington State, 1932; Dip. in Linguistics, University College, London, 1970; at Oregon 1947-49 and since 1958.

James L. Boren, Ph.D., Assistant Professor of English (Old and Middle English). B.A., San Francisco State, 1965; M.A., 1967, Ph.D., 1970, Iowa; at Oregon since 1970.

Wendell J. Bowerman, M.A., Assistant Professor of English (modern, comparative literature). A.B., 1964, M.A., 1966, Boston College; at Oregon since 1971. (On leave of absence, 1973-74.)

William Cadbury, Ph.D., Professor of English (Victorian literature; film). B.A., Harvard, 1956; M.S., 1957, Ph.D., 1961, Wisconsin; at Oregon since 1961.

Edwin L. Coleman, Jr., Ph.D., Assistant Professor of English (black literature). B.A., 1961, M.A., 1962, San Francisco State College; Ph.D., Oregon, 1971; at Oregon since 1971.

Alice H. Ernst, M.A., Associate Professor Emeritus of English. B.A., 1912, M.A., 1913, Washington; at Oregon since 1924.

Marilyn Farwell, Ph.D., Assistant Professor of English (Renaissance: criticism). A.B., MacMurray College, 1963; M.A., 1966, Ph.D., 1971, University of Illinois; at Oregon since 1971.

Stanley B. Greenfield, Ph.D., Professor of English (Old and Middle English). Director of Graduate Studies. B.A., Cornell, 1942; M.A., 1947, Ph.D., 1950, Berkeley; at Oregon since 1959.

Thelma Greenfield, Ph.D., Professor of English (Renaissance drama). B.A., 1944, M.A., 1947, Oregon; Ph.D., Wisconsin, 1952; at Oregon since 1963.

Clark Griffith, Ph.D., Professor of English (American literature). A.B., Central College (Mo.), 1947; M.A., Southern Methodist, 1948; Ph.D., Iowa, 1952; at Oregon since 1970.

Robert Grudin, Ph.D., Assistant Professor of English (Renaissance).

B.A., Harvard, 1960; M.A., 1963, Ph.D., 1969, University of California; at Oregon since 1971.

John A. Haislip, Ph.D., Associate Professor of English (poetry writing). B.A., 1950, Ph.D., 1965, Washington; at Oregon since 1966.

William J. Handy, Ph.D., Professor of English (modern American; criticism). B.A., 1947, M.A., 1949, Ph.D., 1954, Oklahoma; at Oregon since 1965.

James E. Hoard, Ph.D., Associate Professor of English (linguistics). B.A., 1963, M.A., 1966, Ph.D., 1967, University of Washington; at Oregon since 1972. (On leave of absence, 1973-74.)

Robert D. Horn, Ph.D., Professor Emeritus of English. B.A., 1922, M.A., 1924, Ph.D., 1930, Michigan; at Oregon since 1925.

Joseph A. Hynes, Jr., Ph.D., Professor of English (modern literature; fiction). A.B., Detroit, 1951; A.M., 1952, Ph.D., 1961, Michigan; at Oregon since 1957.

Ruth F. Jackson, M.A., Senior Instructor Emeritus in English. B.A., 1929, M.A., 1933, Oregon; at Oregon since 1955.

Gloria E. Johnson, Ph.D., Associate Professor of English (English drama). B.A., Barnard, 1944; M.A., 1946, Ph.D., 1954, Columbia; at Oregon since 1959. (On sabbatical leave, winter, spring, 1973-74.)

Edward D. Kittoe, M.A., Assistant Professor Emeritus of English. B.A., 1931, M.A., 1936, Oregon; at Oregon since 1936.

Albert R. Kitzhaber, Ph.D., Professor of English (rhetoric; teacher education). B.A., Coe, 1939; M.A., Washington State, 1941; Ph.D., Washington, 1953; at Oregon since 1962.

Glen A. Love, Ph.D., Associate Professor of English (American literature; rhetoric). B.A., 1954, M.A., 1959, Ph.D., 1964, Washington; at Oregon since 1965.

Richard M. Lyons, M.F.A., Associate Professor of English (fiction writing). Director of Creative Writing. B.A., Brooklyn, 1957; M.F.A., Iowa, 1962; at Oregon since 1969.

Waldo F. McNeir, Ph.D., Professor of English (Renaissance). B.A., Rice, 1929; M.A., 1932, Ph.D., 1940, North Carolina; at Oregon since 1961.

Stoddard Malarkey, Ph.D., Associate Professor of English (Middle English). Director of Composition. A.B., Reed, 1955; M.Ed., Oregon State, 1960; Ph.D., Oregon, 1964; at Oregon since 1965. (On sabbatical leave, 1973-74.)

Derry Malsch, Ph.D., Assistant Professor of English (linguistics). B.A., 1965, M.A., 1967, University of Chicago; Ph.D., University of Wisconsin, 1971; at Oregon since 1971.

Stanley R. Maveety, Ph.D., Professor of English (Renaissance; Bible literature). B.S., Northwestern, 1943; M.A., Columbia, 1950; Ph.D., Stanford, 1956; at Oregon since 1955.

Ernest G. Moll, A.M., Professor Emeritus of English. A.B., Lawrence, 1922; A.M., Harvard, 1923; at Oregon since 1928.

Carlisle Moore, Ph.D., Professor of English (Victorian and modern). B.A., 1933, M.A., 1934, Ph.D., 1940, Princeton; at Oregon since 1946.

William Rockett, Ph.D., Associate Professor of English (Renaissance). B.A., 1961, M.A., 1963, Oklahoma; Ph.D., Wisconsin, 1969; at Oregon since 1966. (On sabbatical leave, fall, winter, 1973-74.)

Ralph J. Salisbury, M.F.A., Professor of English (creative writing). B.A., 1949, M.F.A., 1951, Iowa; at Oregon since 1960.

- Irma Z. Sherwood, Ph.D., Associate Professor of English (eighteenth century). A.B., Barnard, 1940; M.A., 1942, Ph.D., 1945, Yale; at Oregon 1946-48, 1954-55, 1962-64, and since 1965. (On leave of absence, spring, 1973-74.)
- John C. Sherwood, Ph.D., Professor of English (eighteenth century). B.A., Lafayette, 1941; M.A., 1942, Ph.D., 1945, Yale; at Oregon since 1946. (On sabbatical leave, 1973-74.)
- Clarence Sloat, Ph.D., Associate Professor of English (linguistics). B.A., 1958, M.A., 1960, Idaho State; Ph.D., Washington, 1966; at Oregon since 1966.
- Helen L. Soehren, M.A., Assistant Professor of English (expository writing). B.A., 1935, M.A., 1938, Oregon; at Oregon since 1942.
- Richard C. Stevenson, Ph.D., Associate Professor of English (English novel). A.B., 1961, A.M., 1963, Ph.D., 1969, Harvard; at Oregon since 1968. (On leave of absence, 1973-74.)
- William C. Strange, Ph.D., Associate Professor of English (Romantic poets). B.A., Whitman, 1952; M.A., Montana, 1953; Ph.D., Washington, 1963; at Oregon since 1960.
- Donald S. Taylor, Ph.D., Professor of English (eighteenth century). B.A., 1947, M.A., 1948, Ph.D., 1950, Berkeley; at Oregon since 1968.
- Nathaniel Teich, Ph.D., Assistant Professor of English (romanticism; literary criticism). B.S., Carnegie Institute of Technology, 1960; M.A., Columbia, 1962; Ph.D., California, Riverside, 1970; at Oregon since 1969.
- J. Barre Toelken, Ph.D., Professor of English (folklore). B.S., Utah State, 1958; M.A., Washington State, 1959; Ph.D., Oregon, 1964; at Oregon since 1966.
- A. Kingsley Weatherhead, Ph.D., Professor of English (modern poetry, fiction). M.A., Cambridge, 1949; M.A., Edinburgh, 1949; Ph.D., Washington, 1958; at Oregon since 1960.
- Christof A. Wegelin, Ph.D., Professor of English (modern fiction, American literature). Dip. Tech. Winterthur, 1933; M.A., North Carolina, 1942; Ph.D., Johns Hopkins, 1947; at Oregon since 1952.
- George Wickes, Ph.D., Professor of English (twentieth century). B.A., Toronto, 1944; M.A., Columbia, 1949; Ph.D., California, 1954; at Oregon since 1970.
- Oliver M. Willard, Ph.D., Associate Professor Emeritus of English. B.A., Stanford, 1927; A.M., 1931, Ph.D., 1936, Harvard; at Oregon since 1946.
- Mas'ud Zavarzadeh, M.A., Assistant Professor of English (modern American). B.A., Tehran University, 1963; Dip., Nottingham, 1964; Dip., Cambridge, 1964; M.A., Birmingham, 1966; at Oregon since 1971.
- William R. Batty, B.A., Brown, 1963; M.A.T., Rhode Island College, 1966; at Oregon since 1970.
- Jack W. Bennett, B.A., 1970; M.A., Oregon, 1972; at Oregon since 1970.
- Kathryn de la Fuente, B.A., San Francisco State College, 1968; at Oregon since 1971.
- Robert E. Emmons, Jr., B.A., Florida State University, 1965; M.A., Oregon, 1967; at Oregon since 1970.
- Douglas M. Foley, B.S., Michigan, 1967; M.A., Oregon, 1970; at Oregon since 1970.
- Norman L. Hale, B.A., Oakland University, 1967; M.A., Purdue, 1970; at Oregon since 1972.
- Ulrich H. Hardt, B.A., Warner Pacific College, 1959; M.A., Lewis and Clark College, 1961; at Oregon since 1970.
- Jerry C. Higley, B.A., Colorado, 1963; at Oregon since 1972.
- Thomas J. Hughes, B.A., Massachusetts, 1968; M.A., Oregon, 1970; at Oregon since 1971.
- Ronald W. Johnson, B.A., Gonzaga University, 1963; M.A., Colorado State University, 1965; at Oregon since 1970.
- Douglas B. Johnstone, B.A., Dartmouth, 1963; M.A., Wesleyan, 1965; at Oregon since 1972.
- Janice Suzanne Jones, B.A., College of Idaho, 1968; M.A., Oregon, 1971; at Oregon since 1971.
- Larry V. LeDoux, B.A., 1965, M.A., 1966, Sacramento State; at Oregon since 1972.
- Craig Lindsay, B.A., Alaska Methodist, 1966; at Oregon since 1969.
- Richard M. Logsdon, B.A., 1970, M.A., 1972, Oregon; at Oregon since 1972.
- Thomas R. Madden, B.A., Carroll College, 1959; M.A., Montana, 1970; at Oregon since 1972.
- Carolyn Gould McCarl, B.A., Oregon, 1969; at Oregon since 1971.
- Anthony T. McCrann, B.A., Villanova, 1962; M.A., Oregon, 1969; at Oregon since 1971.
- Linda R. Noble, B.A., 1964, M.A., 1965, Oregon; at Oregon since 1971.
- James C. Pierce, B.A., San Jose State, 1969; at Oregon since 1971.
- Mark S. Piper, B.A., University of Puget Sound, 1965; M.A., Oregon, 1967; at Oregon since 1969.
- Dennis A. Powers, B.A., Illinois, 1965; M.A., Idaho, 1970; at Oregon since 1971.
- Michael D. Reed, B.A., Idaho, 1964; M.A., 1968, D.A., 1972, Oregon; at Oregon since 1971.
- Esther Anne Scherich, B.A., Oregon State University, 1966; M.A., Oregon, 1970; at Oregon since 1970.
- Stephen P. Schuber, B.A., Missouri, 1971; at Oregon since 1972.
- Susan H. Shipley, B.A., University of the Pacific, 1968; M.A., Oregon, 1969; at Oregon since 1972.
- Michael A. Smith, A.B., Occidental College, 1968; M.A., Oregon, 1970; at Oregon since 1971.
- Michael E. Stark, B.A., 1966, M.F.A., 1968, Oregon; at Oregon since 1970.
- Katherine A. Stenberg, B.A., Luther College, 1961; at Oregon since 1971.
- Donald F. Wellman, B.A., New Hampshire, 1967; M.A., Oregon, 1972; at Oregon since 1972.
- H. Harbour Winn, B.S., Spring Hill College, 1967; M.A., University of Houston, 1970; at Oregon since 1972.

Special Staff

- Susann G. Handy, B.A., Lecturer in English (modern literature). B.A., Texas, 1961; at Oregon since 1965.
- Joan M. Pierson, M.A., Lecturer in English (genre courses). B.A., 1950, M.A., 1952, Oregon; at Oregon 1966-68 and since 1969.
- Marliss G. Strange, M.A., Lecturer in English (genre courses). B.A., 1955, M.A., 1957, Washington; at Oregon since 1968.

Graduate Teaching Fellows

- Betty J. Alldredge, B.S., Oregon State University, 1948; M.A., Oregon, 1971; at Oregon since 1971.
- Jon E. Amastae, B.A., New Mexico, 1968; at Oregon since 1970.

THE DEPARTMENT of English offers instruction in English literature, American literature, writing, linguistics, folklore, film as literature, and the literature of ethnic minorities. Its lower-division courses provide training in writing and introduce the student to literature as a humanistic discipline. Its upper-division courses emphasize the humanistic values that emerge from studying literature in depth.

Undergraduate Studies

Major Requirements. The Department of English expects its majors to acquire, in addition to a knowledge of English and American literature, a general knowledge of history and a reading knowledge of at least one foreign language. The general major requirements for the degree of Bachelor of Arts in the Department of English are as follows:

- (1) Satisfaction of the University language requirements for the Bachelor of Arts degree.
- (2) Three terms of history.
- (3) Three terms of literature chosen from Eng 104, 105, 106, 107, 108, 109, 204, 205, 206.
- (4) Three terms of Shakespeare—Eng 201, 202, 203.
- (5) The upper-division requirements of 36 graded credit hours may be met in one of two ways: (a) a total of 36 graded credit hours in upper-division courses in the department, including 3 credit hours in the Middle Ages, 9 in other literature before 1800, and 9 in literature since 1800 (these hours need not be taken in period courses); or (b) six rationally related upper-division courses in language, literature, or writing (18 credit hours) as a coherent program of study, and 18 additional upper-division credit hours. Students choosing program (b) must have the written approval of their advisers and of the Department Curriculum Committee.

Within the framework of these requirements, the student should construct, with an adviser's guidance, a balanced and coherent program consistent with his or her personal interests and vocational needs. Possible emphases are suggested at the opening of this section, and further innovation is encouraged. Prospective high school teachers must satisfy state certification requirements.

Secondary-School Teaching of English. The Oregon Board of Education is in the process of revising the requirements for teaching English in secondary schools. Ask the departmental secretary for a list of the certification requirements in effect for 1973-74.

English Department Honors Program. This program is designed to provide serious undergraduate majors with a number of important educational opportunities. During the sophomore and junior years, honors students will participate in honors seminars dealing with literary topics to be announced at the beginning of each academic year. During the senior year, honors students will work on an extended writing project of their own choosing, prepared in conjunction with a course of study tailored to their own specific academic needs and conducted on a tutorial basis with a faculty member. The Honors Program is fully compatible with courses and programs currently available in the Department; the Program's emphasis, particularly during the junior and senior years, is on the detailed study of limited topics—an extended consideration of one or two authors, a single literary problem, and so on.

Requirements for the degree of Honors in English. Honors students will take a minimum of three hours seminars during their sophomore and junior years, normally one term of Eng 199 (Honors section) and two terms of Eng 407 (Honors section). (Under special circumstances—e.g., transfer from another institution after completion of the sophomore year—the Eng 199 requirement may be waived.) At the end of the junior year, students will submit their topics for Senior Honors Projects. Honors seniors will enroll in Eng 403 during the first two terms of their senior year. The Senior Honors Project will consist of a thirty-fourty page essay, creative work, or the equivalent, and will be due at the end of the second term of Eng 403. The Project will be evaluated, along with the rest of the students' work, to determine if they are to receive the degree of Honors in English.

Admission to the Honors Program. Students will normally apply to the English Department for admission into the Program during the spring term of their freshman year. Admission will be determined by performance in literature and composition courses and by other evidence of superior academic ability. Whenever possible, honors sections of lower division courses should be taken. Also strongly recommended are Eng 300 and a year's study in the literature of a foreign language, preferably in the original.

Graduate Studies

THE DEPARTMENT of English offers graduate work in English literature, American literature, and linguistics, leading to the Master of Arts degree in English, the Master of Arts and Master of Fine Arts degrees in imaginative writing, the interdisciplinary Master of Arts degree in English and education, and the Doctor of Arts and Doctor of Philosophy degrees in English. A Ph.D. program in comparative literature, administered by a committee representing the Department of English, the Department of Classics, and Chinese and Japanese, the Department of German and Russian, and the Department of Romance Languages, offers opportunity for advanced study of several literatures in their original languages. A detailed description of the programs will be sent with the Application for Admission Form.

Master of Arts Degrees

Requirements for Admission to the M.A. in English and the M.A. in imaginative writing:

- (1) An undergraduate GPA of 3.0 or, if the student has twelve or more hours of graduate work in English, a 3.0 graduate GPA.
- (2) A combined Graduate Record Examination score of 1100 on the Verbal Section of the General Aptitude Test and the Advanced Test in Literature in English. (The Quantitative part of the GAT is optional.)
- (3) Other materials submitted under Admission Procedures that give evidence that the candidate will be able to complete the prescribed course of study satisfactorily.

Admissions Procedures:

- (1) Obtain an Application for Graduate Admission Form from the Graduate English Department (GED).
- (2) Send the first copy to the University Admissions Office with a \$10.00 fee, and the remaining copies to the GED.

(3) Arrange to have two copies of graduate and undergraduate transcripts sent, one to the University Admissions Office, the other to the GED.

(4) Have an official transcript of scores on the GRE tests sent to the GED.

(5) Ask three persons familiar with your academic background and intellectual abilities to send letters of recommendation to the GED.

(6) Submit to the GED a 200-word statement of background and objectives in pursuing the course of study.

(7) Submit to the GED a copy of a course paper that demonstrates your ability in literary studies.

The completed file will be reviewed by the Departmental Admissions Committee, who will notify the candidates of its decision. All admissions are conditional, and some may be limited to Summer Session only; after the candidate has completed from four to six courses at the University, his or her academic record will be reviewed for clearance toward the degree.

Degree Requirements:

The Department offers both a 55-credit-hour degree program, for candidates who plan not to go beyond the M.A., and a 45-credit hour program, for those who contemplate proceeding to a doctoral degree.

The 45-credit-hour program requires a reading knowledge of a foreign language (GSFLT score of 25th percentile or its equivalent) and two terms of Old English or Middle English or linguistics. It also involves passing three fields of study from among the following: (1) Old English literature, (2) Middle English literature, (3) Renaissance dramatic literature, (4) Renaissance nondramatic literature, (5) English literature 1660-1780, (6) English literature 1780-1830, (7) English literature 1830-1914, (8) American literature to 1914, (9) contemporary (post-1914) British and American literature, (10) special studies, (11) linguistics. Field 10 provides for a nonperiod approach in areas such as folklore, the Bible as and in literature, film as literature, psychology and literature, black literature, literature in another language; only one Field 10 may be used to satisfy this field requirement for the M.A. At least one of the three fields chosen must be satisfied by examination; the other two may be satisfied by examination or course work. The 55-credit-hour program differs from the 45-credit-hour program in not having special field requirements or an examination. Neither program requires a thesis.

The M.A. in imaginative writing may be earned in either program. It differs from the other M.A. degrees chiefly in substituting up to 10 credit hours of creative writing for courses in literature, and in requiring a thesis (a work of imaginative writing) in place of 5 credit hours of formal course work.

Master of Fine Arts Degree

Requirements for Admission:

- (1) An undergraduate degree.
- (2) Other materials submitted under Admission Procedures that give evidence that the candidate will be able to complete the prescribed course of study satisfactorily.

Admissions Procedures:

- (1) Obtain an Application for Graduate Admission Form from the Director of Creative Writing Programs, Department of English.

(2) Send the first copy to the University Admissions Office with a \$10.00 fee, and the remaining copies to the Director.

(3) Arrange to have two copies of graduate and undergraduate transcripts sent, one to the University Admissions Office, the other to the Director.

(4) Ask two persons familiar with your potential as a writer to send letters of recommendation to the Director.

(5) Submit a sample of your creative writing to the Director. Application may be made for any term except Summer Session.

Degree Requirements:

The candidate for the M.F.A. degree completes 72 credit hours of graduate work including at least 18 credit hours in English and American literature and literature in translation, at least 18 credit hours in writing, and 18 credit hours in thesis, the result of which must be a work of literary merit. The remaining credit hours may be taken in related fine-arts fields such as the history and criticism of art, music, and drama; in additional literary studies, aesthetics, or other fields relevant to the candidate's needs as a writer. The candidate must also pass a written examination on a reading list of works of fiction, poetry, or drama.

Doctor of Arts and Doctor of Philosophy Degrees

Requirements for Admission:

- (1) An M.A. in English, with a 3.33 graduate G.P.A.
- (2) A combined Graduate Record Examination score of 1250 on the Verbal Section of the General Aptitude Test and the Advanced Test in Literature in English. (The Quantitative part of the GAT is optional.)
- (3) Other materials submitted under Admission Procedures that give evidence that the candidate will be able to complete the prescribed course of study successfully.

Admissions Procedures: same as for Master of Arts degrees.

Degree Requirements:

The doctoral programs require a minimum of three years of full-time study beyond the bachelor's degree, at least the first year of which must be spent in residence on the Eugene campus where the candidate must take a minimum of six formal courses or seminars in English. Both the D.A. and the Ph.D. degrees include the following requirements:

- (1) Either high-competence knowledge of one foreign language, usually French or German (GSFLT score 70th percentile or third-year sequence); or second-year competence in two languages (GSFLT 25th percentile).
- (2) A Bibliography course and two courses in Old English or Middle English or linguistics (if the candidate has had equivalent graduate work elsewhere, he or she may consult the Director of English Graduate Studies about using that work to satisfy part or all of this requirement).
- (3) Passing six fields of study from among those listed under the Degree Requirements for the Master of Arts degrees; two of these fields may be a Field 10. At least three of the fields must be satisfied by examination, the rest by examination or course work. Fields passed for the M.A. at the University of Oregon count toward the six. Students entering with an M.A. or transfer graduate credits may petition to satisfy up to three fields on the basis of their former graduate course work, but they must satisfy a minimum of three fields by examination at the University of Oregon.

(4) Supervised experience as classroom teachers in the Department.

When all such requirements are satisfactorily completed, the candidate, upon passing a special examination, may obtain the Doctor of Arts degree.

The Ph.D. is granted upon completion of all such requirements (except the Doctor of Arts examination) and of a dissertation and examination (or presentation) thereon. The dissertation may be a work of literary or linguistic scholarship on a single subject or, if the proposed director of the dissertation is agreeable, a collection of three substantial essays exhibiting internal coherence but not necessarily treating a single precisely defined subject. The Department does not offer a Ph.D. in creative writing.

Literature

Eng 52. Corrective Reading. 1 credit hour any term.

Designed for students who have difficulties in reading at the college level. Methods for increasing speed and comprehension. A no-grade course.

Eng 104, 105, 106. Introduction to Literature. 3 credit hours each term.

Study of literature and the nature of literary experience through the reading of great works of prose and poetry, drawn from English and other literatures. Works representing the principal literary types are read in their entirety when possible, with emphasis on such elements as structure, style, characterization, imagery, and symbolism. Eng 104: fiction; Eng 105: drama; Eng 106: poetry.

Eng 107, 108, 109. World Literature. 3 credit hours each term.

Study of the literary and cultural foundations of the Western world through the analysis of a selection of masterpieces of literature, ancient and modern, read in chronological order. The readings include continental, English, and American works. Teich.

Eng 199. Special Studies. 1-3 credit hours.

Eng 201, 202, 203. Shakespeare. 3 credit hours each term.

Study of the important plays—comedies, histories, and tragedies. Required for majors. Boren, Farwell, T. Greenfield, Johnson, McNeir, Rockett, I. Sherwood, W. Strange.

Eng 204, 205, 206. Survey of English Literature. 3 credit hours each term.

Study of the principal works of English literature based on reading selected to represent great writers, literary forms, and significant currents of thought. Provides a background that will be useful in the study of other literatures and other fields of cultural history. Fall: Anglo-Saxon beginnings to the Renaissance; winter: Milton to Wordsworth; spring: Byron to present. Kitzhaber, I. Sherwood.

Eng 250. Introduction to Folklore and Myth. 3 credit hours.

Study and discussion of the processes and genres of traditional, i.e., folk, patterning; the relations between these forms of expression and other formal arts, especially English and American literature. Toelken.

Eng 253, 254, 255. Survey of American Literature. 3 credit hours each term.

American literature from its beginnings to the present day. Albrecht, Wickes, staff.

Eng 300. Critical Approaches to Literary Study. 3 credit hours.

A study of the purposes and techniques of literary analysis and argument, including extrinsic and intrinsic approaches to criticism (historical, generic, formalistic, mythic, etc.) and the use of library resources. The term's work involves several written exercises reflecting different modes of investigation. Recommended for majors for the sophomore or early junior year. Farwell, Teich.

Eng 301. Tragedy. 3 credit hours.

A study of the nature of tragedy and of tragic expression in various literary forms. Pierson, M. Strange.

Eng 302. Romance. 3 credit hours.

An introduction to critical theory of the genre; readings of narratives of adventure and quest, including works in the allegorical mode. Classical, medieval, and modern examples, with attention to romance elements in twentieth-century works. Allen.

Eng 303. Epic. 3 credit hours.

The heroic spirit in Western European literature, with emphasis on English literature. Allen, W. Strange.

Eng 304. Comedy. 3 credit hours.

The comic view in both dramatic and nondramatic forms. Main emphasis on English masters, but with attention also to classical and continental writers. Principal theories of the comic and of comic literary forms and types. Pierson, I. Sherwood.

Eng 305. Satire. 3 credit hours.

Satire, or criticism through ridicule, as a major type of literary expression. Examples from various literary forms—dramatic, narrative, and poetic—and from ancient and foreign literatures as well as English. Special emphasis on contemporary satire, and graphics. M. Strange.

Eng 310. Black Prose. 3 credit hours.

Forms, themes, and styles in the fictional and nonfictional prose of Africa, the West Indies, and Afro-America. Reading will include novels, short stories, essays, autobiographies, and other narratives. Coleman, W. Strange.

Eng 311. Black Poetry. 3 credit hours.

The study of African, West Indian, and Afro-American poetry, written and performed. Coleman.

Eng 312. Black Drama. 3 credit hours.

Major achievements in African, West Indian, and Afro-American drama. Coleman.

Eng 321, 322, 323. English Novel. 3 credit hours each term.

Fall: rise of the novel from Defoe to Austen; winter: Scott to Hardy; spring: Conrad to Lawrence and Woolf. Stevenson.

Eng 324. American Satire. 3 credit hours.

Satire in American literature; its nature, development, and significant contributions to the interpretation of American life. Love.

Eng 391, 392, 393. American Novel. 3 credit hours each term.

Development of the American novel from its beginnings to the present. Griffith.

Eng 394, 395, 396. Twentieth-Century Literature. 3 credit hours each term.

A critical survey of British, American, and some European literature from 1890 to the present; significant works of poetry, drama, and fiction studied in relation to intellectual and historical developments. Bowerman, S. Handy, Hynes, Moore, Weatherhead, Zavarzadeh.

Eng 401. Research.
Credit hours to be arranged.

Eng 403. Thesis.
Credit hours to be arranged.

Eng 405. Reading and Conference.
Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

Eng 407. Seminar. (G)
Credit hours to be arranged.

Backgrounds of Medieval Literature. Boren.
Myth and Literature. Toelken.
Folklore of Ethnic Minorities. Toelken.
Folklore Fieldwork (Collecting and Archiving). Toelken.
Dryden. J. Sherwood.
Eighteenth-Century Novel. Taylor.
Eighteenth-Century Poetry. Taylor.
Eighteenth-Century Women Writers. I. Sherwood, Taylor.
Boswell and Johnson. I. Sherwood.
The Postwar American Nonfiction Novel. Zavarzadeh.
Identity and Alienation in American Literature. Wegelin.
Metafiction. Zavarzadeh.
Teaching English as a Foreign Language. Hoard, Malsch, Sloat.
Psychology and Literature. Albrecht.
Film *Auteurs*. Cadbury.
Utopian and Anti-Utopian Literature. Moore, Wegelin.

Eng 409. Workshop. (g)
Credit hours to be arranged.

Eng 409. Supervised Tutoring Practicum. (G) 1-3 credit hours any term.
A no-grade course.

Eng 411, 412, 413. English Drama. (G) 3 credit hours each term.
The development of English dramatic forms from the beginnings to Sheridan. G. Johnson.

Eng 414, 415, 416. History of Literary Criticism. (G) 3 credit hours each term.
Studies in the theory and practice of literary criticism from Plato and Aristotle to the present. Farwell, W. Handy, J. C. Sherwood.

Eng 417. Studies in Mythology. (G) 3 credit hours.
Comprehensive survey, with emphasis on genres of folk literature and their relevance to the study of literature in general. Toelken.

Eng 418. Folklore and Mythology of the British Isles. (G) 3 credit hours.
Study of motifs, symbols, themes, and genres (e.g., the ballad) that have been important in British folklore and have been drawn on in the written literature of major British authors. Toelken.

Eng 419. American Folklore. (G) 3 credit hours.
A study of native American folklore; its connections in American history and culture; its role in the development of the writings of selected American authors (e.g., Hawthorne, Melville). Toelken.

Eng 420, 421, 422. Modern Drama. (G) 3 credit hours each term.

Fall: growth of the modern theater in Europe from naturalism to symbolism and the poetic theater before 1914; winter: European and American drama between 1915-1945, the experimental theater and its effects on realism; spring: international developments in drama from 1945 to the present. Ball.

Eng 425. Early English Literature. (g) 3 credit hours.

The literature of the Middle Ages, in relation to the social and literary ideas of the period. Boren.

Eng 428. Chaucer. (G) 3 credit hours.

As much of Chaucer's work read as time permits. Allen, Boren, Malarkey.

Eng 430, 431, 432. Literature of the Renaissance. (G) 3 credit hours each term.

Fall: Renaissance thought; winter: Renaissance epic and prose narrative; spring: English lyric from Wyatt to Herrick. T. Greenfield, Grudin, McNeir, Maveety.

Eng 434. Spenser. (G) 3 credit hours.
McNeir.

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

Detailed study of selected plays. When offered in spring term or summer session, the course may concentrate on the plays to be presented in Ashland that summer. McNeir.

Eng 437, 438. The Literature of the English Bible. (G) 3 credit hours each term.

Study of the literary qualities of the English Bible, with some reference to its influence on English and American literature. Maveety.

Eng 440, 441, 442. Seventeenth-Century Literature. (G) 3 credit hours each term.

Poetry and prose from Jonson through the Restoration studied in relation to the trends of thought and feeling which characterize the century. Maveety, Rockett.

Eng 444. Milton's Minor Poems and Prose. (G) 3 credit hours.

The *Poems* of 1645 and the major prose works on liberty, education, and politics.

Eng 445. Milton's Major Poems. (G) 3 credit hours.

Paradise Lost, *Paradise Regained*, and *Samson Agonistes*. Farwell, Maveety.

Eng 450, 451, 452. Eighteenth-Century Literature. (G) 3 credit hours each term.

Fall: Restoration; winter: primarily Swift and Pope; spring: primarily Johnson and circle. Works are studied in relation to specific literary traditions. I. Sherwood, J. Sherwood, Taylor.

Eng 460, 461, 462. English Romantic Writers. (G) 3 credit hours each term.

Studies in the variety of romantic thought and expression. Fall: Blake, Burns, and other writers of the age of gothic and sensibility; winter: Wordsworth, Coleridge, Hazlitt, and other writers of the age of revolution; spring: Byron, Shelley, Keats, and other writers of the Second Generation. Ball, Strange, Teich.

Eng 463, 464, 465. The Victorian Poets. (G) 3 credit hours each term.

Victorian poetry as a response to urbanization and the rise of industrial capitalism; emphasis on the major figures, in the light of modern critical theory. Fall: Tennyson; winter:

Browning; spring: Arnold. Others: the Pre-Raphaelites, Swinburne, Meredith, Thomson, Fitzgerald, Clough, Patmore, Hopkins, Wilde, Kipling. Cadbury.

Eng 470, 2471, 472. Nineteenth-Century Prose. (G) 3 credit hours each term.

Main currents of thought as reflected in Carlyle, Mill, Newman, Ruskin, Huxley, Arnold, Pater. Moore.

Eng 473, 474. Nineteenth-Century English Fiction. (G) 3 credit hours each term.

An introduction to the detailed study of nineteenth-century English fiction. Emphasis is on analysis of texts in critical and social perspective. First term: Scott, Austen, Emily and Charlotte Bronte, "Condition of England" novelists (Gaskell, Disraeli, Kingsley), and Dickens. Second term: Thackeray, Trollope, Eliot, Meredith, Hardy, Pater, Morris, and Moore. Cadbury, Moore.

Eng 477, 478, 479. American Literature Before 1900. (G) 3 credit hours each term.

Early American literature; romanticism; realism and naturalism. Not a sequence course. Albrecht, Ball, Griffith.

Eng 480. Major British Writers. (G) 3 credit hours.

Detailed study of two or three British authors not substantially treated in other courses. May be repeated for credit. Hynes, Wickes, staff.

Eng 481, 482, 483. Major American Writers. (G) 3 credit hours each term.

Detailed study of two or three major authors each term, such as Hawthorne, Emerson, Whitman, Melville, James, Twain, Dickinson, Frost, Eliot, Hemingway, Faulkner. Albrecht, W. Handy, Love, Wickes.

Eng 487. Yeats and Joyce. (G) 3 credit hours.

The principal works of Yeats and Joyce, considered against the background of the Irish Renaissance. J. C. Sherwood.

Eng 488. Literary Analysis for Teachers. (g) 3 credit hours.

For students interested in teaching high-school English. Training in comprehension and analysis of fiction, poetry, and drama from English and American literature. Bartel.

Eng 491. History of the English Language. (g) 3 credit hours.

The study of the linguistic origins and development of English for prospective teachers of English. Malsch, Sloat.

Eng 492. Modern English Grammar. (g) 3 credit hours.

Study of modern English linguistics for prospective teachers of English. Hoard, Malsch, Sloat.

Eng 493. Advanced English Grammar. (g) 3 credit hours.

A detailed examination of modern English grammars. Hoard, Sloat.

Eng 494. Existentialism and Modern Literature. (G) 3 credit hours.

A critical study of nineteenth- and twentieth-century works which reflect the characteristic subject matter and themes of existentialism, works by such authors as Kierkegaard, Nietzsche, Tolstoy, Camus, Sartre, Kafka, Beckett, Albee, Kesey, Pirandello. Ball, W. Handy.

Eng 495. Film as Literature. (G) 3 credit hours any term.

Interpretation of films by means of the techniques of modern literary criticism. Typical offerings: surveys of film history; studies of particular types (i.e., "The Western"); close analyses of a few *auteurs* (recent offerings: "Antonioni and Fellini"; "Hitchcock, Hawks, and Godard"). May be repeated for credit. Cadbury.

Writing

The Department of English offers required and elective courses in writing for all University students, to help them improve their abilities to write clearly and effectively.

Undergraduate English majors may plan a program emphasizing creative writing; students planning to emphasize creative writing are advised to complete at least 6 credit hours of Wr 241, 242, 243. The department also offers a graduate program in creative writing, leading to the M.A. or M.F.A. degree.

English Composition (Wr 121, 323) is a "vertical" sequence of two courses in expository writing which must be taken in sequential order. The courses are required of all students graduating from the University. Wr 121 is to be taken by the student during his freshman year, and Wr 323 during the junior year. A student who demonstrates superior ability, through high scores on the SAT and/or subsequent examination, may be excused from all or part of the requirement. Students who receive a grade of A in Wr 121 may elect any 200- or 300-level writing course (except Honors Composition) in place of Wr 323.

Students whose placement examination indicates inadequate preparation may not register for Wr 121 until they have either (1) taken and passed Wr 120: Preparatory English Composition or (2) improved their writing proficiency by independent study and passed a supplementary examination administered by the Composition Office.

Transfer students in doubt about the equivalency of courses taken elsewhere should bring a transcript to the Composition Office for evaluation.

Wr 96. English as a Second Language: Fundamentals of English. 3 credit hours.

For description, see Wr 97.

Wr 97. English as a Second Language: Directed Reading and Writing. 3 credit hours.

A two-term sequence for underclassmen whose native language is not English. Basic and intermediate instruction in English listening, reading, and writing skills.

Wr 98. English as a Second Language: Critical Reading and Writing. 3 credit hours.

For description, see Wr 99.

Wr 99. English as a Second Language: Research Techniques. 3 credit hours.

A two-term sequence for upperclassmen and graduate students whose native language is not English. Advanced instruction in language and rhetorical skills.

Wr 120. Preparatory English Composition. 3 credit hours.

Fundamentals of expository prose, frequent written themes. Designed as a transitional course from high-school English to Wr 121. Malarkey, staff.

Wr 121. English Composition. 3 credit hours.

Fundamentals of expository prose; frequent written themes. Special attention to substance and structure in written discourse. Malarkey, staff.

Wr 222. English Composition. 3 credit hours.

Scholarly research techniques. One long research paper and several shorter, contributory papers. Prerequisite: Wr 121, and sophomore standing. Malarkey, staff.

Wr 224. Business and Professional Correspondence. 3 credit hours.

Study of modern practices in business correspondence, primarily for students of business administration. Analysis and writing of the principal types of correspondence. Prerequisite: Wr 121.

Wr 226. Expository Writing. 3 credit hours.

Practice in various forms of expository writing.

Wr 227. Scientific and Technical Writing. 3 credit hours.

Practice in scientific and technical expository writing. Emphasis on the organization, form, and style of scientific, technical, and professional reports, articles, abstracts, summaries, memoranda, and correspondence. Kitzhaber.

Wr 230. Honors Composition. 3 credit hours.

The first term of English Composition for students in the Honors College. Sohren, staff.

Wr 231, 232. Composition Tutorial. 1 credit hour each term.

Tutorial instruction in English composition for students in the Honors College.

Wr 241, 242, 243. Introduction to Imaginative Writing. 3 credit hours each term.

Introductory courses for students interested in the techniques of writing fiction, drama, and poetry, and in the development of a critical appreciation of the art of writing. Wr 241: fiction; Wr 242: drama; Wr 243: poetry.

Wr 323. English Composition. 3 credit hours.

Advanced expository prose; frequent written themes. Special attention to the relationship between style and content in exposition. Prerequisite: Wr 121, and junior standing. Malarkey, staff.

Wr 324, 325, 326. Short-Story Writing. 3 credit hours each term.

An upper-level course for students interested in short-story writing. Examination of the basic techniques and structure of the short-story; extensive analyses of student work and established models. Consent of instructor is required. Lyons, Salisbury.

Wr 328. Advanced Expository Writing. 3 credit hours.

Sohren.

Wr 331, 332, 333. Play Writing. 3 credit hours each term.

Creative experiment in the writing of plays, with incidental study of models. Analysis and discussion of student work. Consent of instructor is required.

Wr 341, 342, 343. Poetry Writing. 3 credit hours each term.

Verse writing; study of various verse forms as media of expression. Analysis of class work. Consent of instructor is required. Haislip, Salisbury.

Wr 404. Writing and Conference.

Credit hours to be arranged.

Wr 430, 431, 432. Senior Creative Writing. 3 credit hours each term.

An advanced sequence in short story, poetry, and playwriting. Consent of instructor is required. Haislip, Lyons, Salisbury.

Wr 451, 452, 453. Projects in Writing. 3 credit hours each term.

For students who desire advanced instruction and practice in writing short stories, novels, television dramas, nonfiction, etc. Consent of instructor is required. Haislip, Lyons, Salisbury.

Upper-Division Courses Carrying Graduate Credit**Wr 409. Supervised Tutoring Practicum. (G) 1-3 credit hours.**

A no-grade course.

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

For students planning to teach English in high school. Practice in writing, and a review of the rules of composition. Recommended for satisfaction of the high-school teaching requirement in English. Aly, Kitzhaber.

Wr 420, 421, 422. Novel Writing. (G) 3 credit hours each term.

Designed to provide apprentice training in writing of novels, and to develop a critical grasp of fiction problems. Sustained work on a writing project continued through the year. Individual assigned readings. Consent of instructor is required. Lyons.

Graduate Courses**Literature****Eng 501. Research.**

Credit hours to be arranged. A no-grade course.

Eng 503. Thesis.

Credit hours to be arranged. A no-grade course.

Eng 505. Reading and Conference.

Credit hours to be arranged.

Eng 507. Seminar.

Credit hours to be arranged.

Old English Literature and Criticism. S. Greenfield.

The Arthurian Tradition in Medieval Literature. Allen, Boren, Malarkey.

Fifteenth-Century Literature. Malarkey.

The Ballad. Toelken.

Studies in Folklore: Traditional Narrative; Folklore; Folklore and Medieval Literature. Toelken.

Shakespeare Studies. Grudin, McNeir, Maveety.

Special Authors in Renaissance Drama. T. Greenfield, Grudin, Johnson, McNeir.

Special Authors in Renaissance Nondramatic Literature. Farwell, T. Greenfield, Grudin, McNeir, Maveety.

Renaissance Criticism. Rockett.

Major Elizabethan Sonnet Sequences. McNeir, Maveety.

The Bible in the Renaissance. Maveety.

Metaphysical poets. Farwell, Rockett.

Restoration Drama. I. Sherwood.

Dryden. J. Sherwood.

Boswell and Johnson. I. Sherwood.

Eighteenth-Century Novel. Taylor.

Eighteenth-Century Poetry. Taylor.

Eighteenth-Century Women Writers. I. Sherwood, Taylor.

Blake: The Major Prophecies; The Designs. W. Strange.

Romantic Fiction. Ball, W. Strange.

Shakespeare and the Romantics. W. Strange.

Romantic Criticism. Teich.

Carlyle and Dickens. Moore.

The Heroine in Victorian Fiction. Stevenson.

Radicalism in Victorian Literature. Moore.
 Joyce. W. Handy, J. Sherwood.
 Contemporary British Fiction. Hynes.
 International Fiction. Wegelin.
 Rise of the Modern Novel. Wickes.
 Theory of the Novel. Zavarzadeh.
 Modern Criticism. W. Handy, J. Sherwood.
 Psychological Criticism. Albrecht, Cadbury.
 Literary Structures. Albrecht, Cadbury.
 Utopian and Anti-Utopian Literature. Moore, Wegelin.
 Film *Auteurs*. Cadbury.
 Major Black Writers. Coleman, W. Strange.
 African Literature. Coleman, W. Strange.
 West Indian Literature. Coleman, W. Strange.
 Studies in American Romanticism. Albrecht, Griffith.
 Studies in American Realism and Naturalism. Albrecht, Griffith, Love.
 Melville. Albrecht.
 Mark Twain. Albrecht, Griffith.
 Faulkner. W. Handy, Wegelin.
 Recent American Poetry. Weatherhead.
 College Composition. Malarkey.

Eng 511, 512, 513. Old English. 5 credit hours each term.

Linguistic study; selected readings in prose and poetry, including entire *Beowulf*. Allen, S. Greenfield.

Eng 514, 515, 516. Old Icelandic. 5 credit hours each term.

Linguistics; selected readings in the sagas, skaldic poetry, and the *Elder Edda*. Allen.

Eng 517. Middle English Dialects. 5 credit hours.

An introduction to English grammar, dialects, and literature from the Norman conquest to the early modern period. Boren.

Eng 518. Middle English Survey. 5 credit hours.

A study of the literature of the Middle English period exclusive of Chaucer and the works of the *Pearl*-poet. Prerequisite: Eng 517, or consent of the instructor. Boren, Malarkey.

Eng 519. The Pearl Poet. 5 credit hours.

Detailed study of the works attributed to the *Pearl*-poet, with concentration on *Pearl*, and *Sir Gawain and the Green Knight*. Prerequisite: Eng 517, or consent of the instructor. Boren, Malarkey.

Eng 520, 521, 522. History and Structure of the English Language. 5 credit hours each term.

Covers the same features of the language as Eng 491 and Eng 492, but with a more detailed consideration of historical background and recent theories. Malsch.

Eng 524. Chaucer's Troilus and Criseyde. 5 credit hours.

Detailed study of *Troilus and Criseyde* and the minor poems.

Prerequisite: Eng 517, or consent of the instructor. Boren, Malarkey.

Eng 530, 531, 532. Shakespeare. 5 credit hours each term.

Fall: representative comedies of Shakespeare's early, middle, and late periods; winter: historical plays; spring: tragedies. T. Greenfield, McNeir.

Eng 535, 536, 537. Tudor and Stuart Drama. 5 credit hours each term.

Fall: beginnings through Marlow; winter: Dekker through Jonson; spring: Webster through Ford. Shakespeare not included. T. Greenfield.

Eng 540. Bibliography. 3 credit hours fall.

Bibliography and the methods of literary research as an introduction to graduate work. Required for doctoral candidates in English. Rockett, Taylor.

Eng 588, 589. Modern Poetry. 5 credit hours each term.

Fall: British poetry from Hopkins to the present; winter: American poetry from the imagists to the present. Weatherhead.

Eng 590, 591, 592. Modern Fiction. 5 credit hours each term.

Major tendencies in the fiction of the past hundred years. Fall: the rise and development of realism; winter: naturalism; spring: postnaturalism. Wegelin, Wickes.

Writing

Wr 503. Thesis.

Credit hours to be arranged. A no-grade course.

Wr 504. Writing and Conference.

Credit hours to be arranged.

Wr 530, 531, 532. Graduate Creative Writing. 3 credit hours each term.

A graduate level sequence required by M.F.A. candidates, but open to other graduate students with interest and talent. Concentration on student writing in a workshop approach. Consent of instructor is required. Haislip, Lyons, Salisbury.

Course Offered Only in Summer Session

Eng 508. Workshop.

Credit hours to be arranged.

Geography

Faculty

Department Head, Alvin W. Urquhart, Ph.D., Associate Professor of Geography (cultural geography, Africa). B.A., 1953, M.A., 1958, Ph.D., 1962, California; at Oregon 1960-61 and since 1963.

Samuel N. Dicken, Ph.D., Professor Emeritus of Geography (coastal geomorphology, cultural geography, Oregon). B.A., Marietta, 1924; Ph.D., California, 1930; at Oregon since 1947.

Carl L. Johannessen, Ph.D., Professor of Geography (biogeography, Central America). B.A., 1950, M.A., 1953, Ph.D., 1959, California; at Oregon since 1959.

William G. Loy, Ph.D., Assistant Professor of Geography (geomorphology, cartography). B.A., Minnesota, 1958; M.S., Chicago, 1962; Ph.D., Minnesota, 1967; at Oregon since 1967. On leave 1973-74.

Gene E. Martin, Ph.D., Professor of Geography (Latin America, Oregon, settlement geography). B.A., 1949, M.A., 1952, Washington; Ph.D., Syracuse, 1955; at Oregon since 1956. (On leave, spring 1974.)

Clyde P. Patton, Ph.D., Professor of Geography (climatology, Western Europe, cultural geography). A.B., 1948, M.A., 1950, Ph.D., 1953, California; at Oregon since 1958.

Edward T. Price, Ph.D., Professor of Geography (North America, cultural geography, historical geography). B.S., California Institute of Technology, 1937; Ph.D., California, 1950; at Oregon since 1963.

Gordon E. Reckord, B.S., Adjunct Professor of Geography (geography in government). B.S., Chicago, 1940; at Oregon since 1970.

Everett G. Smith, Jr., Ph.D., Associate Professor of Geography (social geography, urban geography). B.A., 1953, M.A., 1956, Illinois; Ph.D., Minnesota, 1962; at Oregon since 1965.

Graduate Teaching Fellows

David N. Cole, B.A., California, 1972; at Oregon since 1973.

Ora Marie Hartman, B.A., Chicago, 1971; M.A., Oregon, 1973; at Oregon since 1971.

Howard Horowitz, B.A., Rochester, 1969; at Oregon since 1972.

Eileen M. Killory, B.A., Syracuse, 1973; at Oregon since 1973.

Donald K. Hoegsberg, B.S., 1970, M.A., 1972, Hayward State; at Oregon since 1972.

Susan L. Pommering, B.S., Northern Illinois, 1971; at Oregon since 1972.

James E. Stembridge, Jr., B.A., UCLA, 1966; M.A.Ed., California State Polytechnic, 1971; at Oregon since 1971.

Undergraduate Studies

UNDERGRADUATE students in geography develop an awareness of the landscapes of several regions of the world and investigate the physical and cultural processes which form landscapes. A major emphasis is given to the historical role of man in changing the face of the earth. All entering students are encouraged to take any lower-division course in geography. None have prerequisites nor require particular high-school background. For students transferring to the University in their third year, preparation in introductory college geography courses is desirable.

An undergraduate major in geography may follow a broadly based general degree program or more specialized curricula which emphasize physical geography, environmental studies, social science teaching, Latin American studies, or urban studies. Both Bachelor of Arts and Bachelor of Science degrees are offered in the Department.

Major programs and requirements.

I. General Geography Curriculum (B.A. or B.S.): 45 credit hours (15 courses) of which 30 credit hours (10 courses) must be upper division.

(A) Physical Geography Courses: 9 credit hours (3 courses) selected from the following: Geog 101, The Natural Environment; Geog 481, Geomorphology; Geog 482, Climatology; Geog 487, World Regional Climatology; Geog 488, 489, Biogeography.

(B) Cultural Geography: 9 credit hours (3 courses) selected from the following: Geog 103, Landscape, Environment, and Culture; Geog 105, Urban Environment; Geog 433, Political Geography; Geog 434, Economic Geography; Geog 435, 436, Urban Geography; Geog 491, 492, 493, Cultural Geography.

(C) Regional Geography: 9 credit hours (3 courses) selected from the following: Geog 201, Geography of Europe; Geog 202, Geography of Latin America; Geog 203, Geography of Asia; Geog 204, Geography of the Soviet Union; Geog 205, Geography of Africa; Geog 301, Geography of Oregon; Geog 302, Eastern North America; Geog 303, The American West; Geog 451, Geography of East Asia; Geog 453, Cultural Geography of Africa; Geog 455, Geography of Southeast Asia; Geog 461, The South American Tropics; Geog 462, Southern South America; Geog 463, Geography of Middle America; Geog 471, Geography of Western Europe; Geog 472, Mediterranean Landscapes.

(D) Techniques of Geographers: 9 credit hours (3 courses) selected from the following: Geog 280, Reading and Interpretation of Maps; Geog 421, 422, 423, Geographic Field Methods; Geog 484, Aerial Photo Interpretation and Remote Sensing; Geog 485, 486, Cartography.

(E) Undergraduate Major Seminar: 3 credit hours, Geog 407 (Smith) Fall Term.

(F) Electives in Geography: 6 credit hours; courses, seminars, reading and conference, research.

(G) Required for B.A.: Two years of foreign language or equivalent proficiency.

II. Environmental Studies Curriculum (B.S.)

(A) Geography: 45 credit hours. (1) Basic courses: 15 credit

hours (all required); Geog 101, The Natural Environment; Geog 103, Landscape, Environment, and Culture; Geog 105, Urban Environment; Geog 280, Reading and Interpretation of Maps; Geog 301, Geography of Oregon.

(2) Advanced Geography courses: 12 credit hours (all required); Geog 481, Geomorphology; Geog 482, Climatology; Geog 488, Biogeography; Geog 492, Cultural Geography.

(3) Geographic Techniques for Environmental Research: 18 credit hours (all required); Geog 421, 422, Geographic Field Methods; Geog 484, Aerial Photo Interpretation and Remote Sensing; Geog 485, Cartography; Geog 401, Environmental Research Project; Geog 407, Undergraduate Major Seminar.

(B) Supporting Fields: 30-35 credit hours. (1) Social Science and Related Professional Fields: 5 courses required; Arch 221, Environment and Communication; Arch 222, Environment and Cultural Milieu; Arch 223, Environment and Life Support; LA 225, Introduction to Landscape Architecture; Arch 401, Environmental Control Systems; Anth 320, Human Ecology; CSPA 420, Behavioral Ecology; Soc 210, Community, Population, and Resources; Soc 407, Seminar on Resource or Conservation Topic; RPM 492, Recreation and Natural Resources.

(2) Science Courses: 5 courses required; Bi 101, Selected topics in Biology (see adviser for appropriate class); Bi 107, Natural History; Bi 232, Biology of Common and Useful Plants; Bi 272, Introduction to Ecology; Bi 372, General Ecology; Bi 471, 472, 473, Principles of Ecology; Bi 381, 382, Introduction to Bacteriology; Bi 438, Systematic Botany; Bi 474, The Marine Environment; Bi 475, Limnology; Geol 321, Mineral Resources and the Environment; Geol 353, Oceanography; Geol 352, Geology of Oregon; Ph 114, Physics of Energy and Pollution.

III. Physical Geography Curriculum (B.S.).

(A) Geography: 36 credit hours. Required: Geog 101, The Natural Environment; Geog 103, Landscape, Environment, and Culture; Geog 280, Reading and Interpretation of Maps; Geog 421, Geographic Field Methods; Geog 481, Geomorphology; Geog 482, Climatology; Geog 484, Aerial Photo Interpretation and Remote Sensing; Geog 485, Cartography; Geog 401, Senior Research Project. In addition, two of the following: Geog 422, 423, Geographic Field Methods; Geog 486, Cartography; Geog 487, World Regional Climatology; Geog 489, Biogeography.

(B) Science Courses. (1) Lower Division: 9 courses (27-36 credit hours); Geol 101, 102, 103 or 201, 202, 203 (introductory courses); Bi 101, 102, 103, 104, 105, 106 (introductory courses); Mth 104, 105, 106; (general college math); Ch 101, 102, 103, or 104, 105, 106 or 204, 205, 206 (introductory courses); CS 221, Concepts of Computing; CS 233, Introduction to Numerical Computation; Bi 272, Introduction to Ecology; Mth 156, Concepts of Statistics.

(2) Upper Division: minimum of two courses (6 credit hours) in appropriate science department.

IV. Secondary School Teaching of Social Studies.

For certification as a teacher of social studies in Oregon high schools, the Oregon Board of Education requires: (1) The satisfaction of certain minimum standards of subject preparation;

(2) The satisfaction of certain minimum standards of professional education preparation; and (3) The recommendation of the institution at which the student completes the subject preparation. For details of this program consult the adviser for teacher education in the Department of Geography or the Office of Student Teaching and Teacher Certification in the College of Education.

V. Latin American Studies Curriculum (B.A.)

(A) Geography: minimum of 36 credit hours of which 24 must be upper division. (1) Basic Geography; minimum of 9 credit hours chosen from: Geog 101, The Natural Environment; Geog 103, Landscape, Environment, and Culture; Geog 105, Urban Environment; Geog 280, Reading and Interpretation of Maps.

(2) Latin American Geography; minimum of 15 credit hours chosen from: Geog 202, Latin America; Geog 461, The South American Tropics; Geog 462, Southern South America; Geog 463, Geography of Middle America; Geog 407, Seminar: The Latin American City; Geog 407, Seminar: Latin American Rural Settlement; Geog 401, Research: Latin America; Geog 405, Reading and Conference: Latin America.

(B) The equivalent of two years of college Spanish or Portuguese or both.

(C) Latin American History; minimum of 9 credit hours chosen from: Hst 350, 351, 352, Hispanic America; Hst 464, History of Mexico; Hst 465, Cuba in the Modern World; Hst 407, Seminar: Peron and Argentina.

(D) Latin American area courses; minimum of 12 credit hours chosen from: RL 315, Spanish-American Literature; RL 444, 445, 446, Spanish-American Literature; RL 407, Latin American Fiction; ArH 450, 451, 452, Art in Latin America; PS 463, 464, Government and Politics of Latin America; Anth 418, The American Indian (Mesoamerica); Anth 419, The American Indian (South America); Anth 462, New World Prehistory (Mesoamerica); Anth 463, New World Prehistory (South America); Anth 407, Modern Latin America; Anth 407, Modern Mexico.

VI. Urban Studies Curriculum.

(A) Lower-division geography requirements: 12 credit hours; Geog 101, The Natural Environment; Geog 103, Landscape, Environment, and Culture; Geog 105, Urban Environment; Geog 280, Reading and Interpretation of Maps.

(B) Additional 18 credit hours of lower-division courses selected from the following: Mth 104, 105, 106, General College Math; Mth 156, Concepts of Statistics; Mth 150, Introduction to Probability; CS 221, Concepts of Computing; CS 233, Introduction to Numerical Computation; Ec 201, Introduction to Economic Analysis; Hst 207, Origins and Comparisons of World Civilizations; Phl 221, Elementary Logic; Soc 201, Introduction to Sociology; Soc 210, Communities, Population, and Resources; PS 203, State and Local Government; PS 230, Urban Politics; Psy 216, Social Psychology.

(C) Upper-division geography requirements; 24 credit hours, with 6 credit hours of electives and 18 credit hours required as follows: Geog 434, Economic Geography; Geog 435, 436, Urban Geography; Geog 485, Cartography; Geog 302, 303, North America.

(D) UP 350, Survey of Urban Planning.

(E) Nine to 12 credit hours of Social Science electives selected from: Ec 414, 415, 416, Regional and Urban Economics; Soc 301, American Society; Soc 303, World Population and Social Structure; Soc 304, The Community; Soc 442, Urbanization and the City; PS 345, Urban Problems and Politics; PS 438, Urban Politics; PS 490, Community Politics.

(F) Six to 9 credit hours of professional school electives selected from: MIT 349, Transportation and Distribution Systems; MIT 331, Introduction to Real Estate; MIT 430, Real Estate Environmental Analysis; MIT 431, Residential Property Development; MIT 432, Commercial and Industrial Site Location; FBE 440, Real Estate Finance; CSPA 420, Behavioral Ecology; CSPA 463, Metropolitan Government; CSPA 465, 466, Administration of State and Local Government.

Honors College Program in Geography. The Honors College student in geography must do the following work in the department: Geog 481, Geomorphology; Geog 482, Climatology; Geog 488, Biogeography; Geog 421, 422, 423, Geographic Field Methods; Geog 491, 492, 493, Cultural Geography; junior and senior honors seminars; and senior honors thesis.

Graduate Studies

GRADUATE work leading to both the Master of Arts and Doctor of Philosophy degrees is offered. The department also supervises those students wishing to obtain an interdisciplinary Master of Science degree with a major emphasis in geography. This degree combines course work in geography and in education.

Although the department requires knowledge of the fundamentals of geography, it welcomes students whose undergraduate work has been in other disciplines and who can apply their previous training to geographic problems. Field studies, seminars, and the preparation of theses form the heart of advanced geographic training.

To make complete application for admission send the following materials to the Department of Geography: (1) a copy of your admissions application; (2) three letters of reference; (3) your score on the Miller Analogies Test or the Graduate Record Examination Aptitude Test; (4) the application for a graduate award if you intend to apply for an assistantship or fellowship; (5) a stamped, self-addressed postcard by which means we can inform you when your application is fully complete.

In addition to sending these materials to the Department of Geography, send an application for admission to the Office of Admissions as well as a copy of your transcript. Preference for fall admission will be given to applicants whose papers are received by March 1. General University regulations governing graduate admissions are found in the Graduate School section of this Catalog.

The M.A. degree in geography recognizes general proficiency in physical and cultural geography and basic skills in the use of geographic techniques and methods through the following program of 45 graduate credit hours, 36 of which must be in geography:

- (1) The following courses, or their equivalent: Physical Geography (Geog 481, 482, 483); Cultural Geography (Geog 491, 492, 493); Field Geography (Geog 421, 422, 423); Aerial Photographic Interpretation and Cartography (Geog 484, 485, 486).
- (2) Three graduate seminars in geography totaling 9 credit hours.
- (3) Reading skill in one foreign language. Students will be expected to translate relevant passages from foreign sources in their graduate courses and seminars. Competence will be determined by the Geography Faculty.
- (4) A thesis approved by a committee of the Geography Faculty.

The interdisciplinary M.S. degree program requires 36 credit hours of coursework in geography and 9 to 15 credit hours in education. Coursework and seminars parallel those of the M.A. candidates. Teaching skills are substituted for foreign language competency. A final oral examination by a committee of the Geography Faculty is required.

The Ph.D. program requires more specialization of the student, who must demonstrate thorough knowledge of the geography of a major region of the world and competent understanding of one of the systematic fields of geography.

This program is designed to suit each individual's background and interests. In addition to a selection of seminars and courses, the candidate may use the flexibility of Geog 501 (Research) and Geog 505 (Reading and Conference) to follow specific interests with individual members of the faculty. The Ph.D. program, planned with faculty committee approval, is measured by achievement of the stated goals rather than by any specific number of credit hours. In addition to work within the department, all candidates must develop a minor field or fields in departments that share interests with geography. Prospective candidates should pay particular attention to the systematic specialization and regional interests of the staff before applying for admission.

Required for a Ph.D. degree in Geography are:

- (1) Completion of a M.A. degree in geography or equivalent study which include courses required for the M.A. degree in geography at the University of Oregon.
- (2) Reading knowledge of two foreign languages or speaking and reading knowledge of one foreign language.
- (3) Passing a series of comprehensive, written examinations (scheduled during fall and spring terms) in these four subject areas: (a) Regional geography of an area such as Anglo America, Middle America, Arid Lands, Southeastern Asia. (b) Systematic field of geography such as geomorphology, climatology, biogeography, population and settlement geography, cultural geography, urban geography, or economic geography. (c) Geographic thought and method. (d) A supporting allied subject.
- (4) A dissertation presenting the results of research of a substantive and original nature on a significant geographic problem. The dissertation must be approved by a faculty committee and presented at a public lecture.

All courses in geography taken by M.A. and Ph.D. candidates in geography are completed with the Pass/No Pass grade option.

A limited number of graduate teaching fellowships with stipends ranging from \$2500 to \$3820 for the academic year, September to June, are available. A few fellowships, for smaller stipends, are also available for summer sessions. Fellows are charged reduced tuition fees. Graduate teaching fellows usually register for 9 to 12 credit hours of coursework per term and are assigned duties limited to 12 to 15 hours a week. Limited funds are available for assistance on thesis field research. Applications for fellowships should be received by March 1.

The Work-Study Program (under Federal funding for students from low-income families) provides an alternative means of financial assistance. The Department of Geography has several positions under this program at a maximum of 15 hours per week and rate of approximately \$2.10 per hour. For certification under Work-Study and for applications for loans or grants, a separate request for forms should be made to the Office of Financial Aids. Their deadline for applications is March 1.

Geog 101. The Natural Environment. 3 credit hours.

An introductory physical geography of the earth with special emphasis on vegetation, landforms, climate, and soils.

Geog 103. Landscape, Environment, and Culture. 3 credit hours.

An introductory cultural geography that focuses on the ways

in which various cultural groups evaluate, use, and modify the landscapes and environments they occupy.

Geog 105. Urban Environment. 3 credit hours.

An introduction to the concepts of geography and techniques of geographic analysis through the examination of urban locations and patterns.

Geog 199. Special Topics in Geography. 3 credit hours.

Geog 201. Geography of Europe. 3 credit hours.

An introduction to geography through the study of the physical and cultural processes that have shaped the rural and urban landscapes of Europe. Patton.

Geog 202. Geography of Latin America. 3 credit hours.

An introductory geography focusing on the ways in which major cultural groups have modified the environments of Latin America throughout history. Martin.

Geog 203. Geography of Asia. 3 credit hours.

An introduction to the major physical and cultural realms of Asia, excluding Soviet Asia. Hartman.

Geog 204. Geography of the Soviet Union. 3 credit hours.

Natural regions, major population groups and the economic development of the U.S.S.R. Not offered 1973-74.

Geog 205. Geography of Africa. 3 credit hours.

An introduction to geography through the study of the physical and cultural processes that have shaped the rural and urban landscapes of Africa. Urquhart. Not offered 1973-74.

Geog 280. Reading and Interpretation of Maps. 3 credit hours.

Introduction to the interpretation of physical and cultural features on maps. Critical analysis of cartographic styles employed by atlas and map makers.

Geog 301. Geography of Oregon. 3 credit hours.

The nature of Oregon: its natural and human resources, changing patterns of settlement, urbanization and economic development, and problems of environmental use. Martin.

Geog 302. Eastern North America. 3 credit hours.

Growth of major regions from Atlantic colonies. Agriculture, industry, population, and metropolitan centers. Price.

Geog 303. The American West. 3 credit hours.

Areas of attraction and aversion. Forest, grass, minerals, soil, water, climate, scenery, desert, and wilderness. Price.

Geog 401. Research.

Credit hours and topics to be arranged.

Geog 405. Reading and Conference.

Credit hours and topics to be arranged.

Geog 407. Seminar. 3 credit hours.

Undergraduate Major Seminar. Smith.
Other topics to be arranged.

Geog 409. Supervised Tutoring Practicum.

Credit hours to be arranged. A no-grade course.

Upper-Division Courses Carrying Graduate Credit

Geog 421, 422, 423. Geographic Field Methods. (G) 3 credit hours each term.

Research techniques in geography applied to local areas and problems. Prerequisite: 9 credit hours of geography.

Geog 433. Political Geography. (G) 3 credit hours.

Impact of political institutions upon the landscape; resources and political decisions; relation of formal and informal groups to political areas. Smith.

Geog 434. Economic Geography. (G) 3 credit hours.

Geographic patterns of economic activity and processes influencing the organization of economic space. Prerequisite: upper division or graduate standing. Smith. Not offered 1973-74.

Geog 435, 436. Urban Geography. (G) 3 credit hours each term.

Urbanization throughout the world; the structure of urban settlements; cities as regional centers, physical places, and homes for people; geographic problems in major urban environments. Prerequisite: upper division or graduate standing. Smith.

Geog 451. Geography of East Asia. (G) 3 credit hours.

The geography of China, Japan, Korea, Taiwan, and Hong Kong. A focus on the cultural and physical processes that have created the distinctive East Asian cultural landscape. Prerequisite: 6 credit hours of lower-division geography. Not offered 1973-74.

Geog 453. Cultural Geography of Africa. (G) 3 credit hours.

Study of African cultural landscape. Prerequisite: 6 credit hours of lower-division geography. Urquhart.

Geog 455. Geography of Southeast Asia. (G) 3 credit hours.

The geography of peninsular and insular Southeast Asia. A focus on the cultural and physical processes which have created the distinctive Southeast Asian cultural landscape. Prerequisite: 6 credit hours of lower-division geography. Not offered 1973-74.

Geog 461. The South American Tropics. (G) 3 credit hours.

The Andes and the Amazon: an analysis of tropical highland and tropical lowland environments in terms of their settlement history, present use, and future potential. Prerequisite: Geog 101 and Geog 202. Martin. Not offered 1973-74.

Geog 462. Southern South America. (G) 3 credit hours.

Settlement geography of Chile and Argentina. Emphasis on agricultural systems, resource utilization, population characteristics, patterns of settlement, industrialization, and urbanization. Prerequisite: Geog 101 or Geog 202. Martin.

Geog 463. Geography of Middle America. (G) 3 credit hours.

Physical and historical cultural processes that have shaped the landscapes of Mexico, Central America, and the Caribbean Islands. Prerequisite: 6 credit hours of lower-division geography. Johannessen.

Geog 471. Geography of Western Europe. (G) 3 credit hours.

Natural environments, cultural groups, and distinctive regional landscapes of western Europe. Prerequisite: Geog 101 and Geog 201. Patton.

Geog 472. Mediterranean Landscapes. (G) 3 credit hours.

The Mediterranean environments. Imprint of cultural groups on the landscape. Geographic problems of the area. Prerequisite: 6 credit hours of lower-division geography. Loy. Not offered 1973-74.

Geog 481. Geomorphology. (G) 3 credit hours.

Systematic study of the land-forming processes in the physical landscape with emphasis on fluvial processes. Maps and air photos as primary tools of geomorphic investigation. Prerequisite: Geol 101, 102, or Geol 201, 202.

Geog 482. Climatology. (G) 3 credit hours.

Elements of climate: the heat and water balance at the surface of the earth, atmospheric processes that affect climate, factors of climatic change. Prerequisite: 6 credit hours of lower-division geography. Patton.

Geog 484. Aerial Photo Interpretation and Remote Sensing. (G) 3 credit hours.

Introduction to the use of aerial photographs and other forms of imagery. Prerequisite: 9 credit hours of geography.

Geog 485, 486. Cartography. (G) 3 credit hours each term.

Introduction to map design and construction. First term: elementary map construction, map design, and map projections. Second term: advanced map construction, preparation of graphs and diagrams, and a final individual project. Prerequisite: 9 credit hours of geography.

Geog 487. World Regional Climatology. (G) 3 credit hours.

Problems in climatic classification. Description and explanation of the distribution of climates on the surface of the earth. Prerequisite: Geog 482. Patton.

Geog 488, 489. Biogeography. (G) 3 credit hours each term.

Relation of plants and animals to the environment; distribution of individual species; historical changes in plant distribution; aerial photo interpretation and mapping of vegetation; domestication of plants and animals. Johannessen.

Geog 491. Cultural Geography. (G) 3 credit hours.

Growth of man's exploitation of his habitat. Origin and spread of ways of living. Prerequisite: 9 credit hours of geography. Price.

Geog 492. Cultural Geography. (G) 3 credit hours.

Concepts and examples of the cultural landscape. Prerequisite: 9 credit hours of geography. Urquhart.

Geog 493. Cultural Geography. (G) 3 credit hours.

Treatment of culture by geographers. Student reports developed in Geog 491, 492. Prerequisite: Geog 491, or 492. Urquhart, Price.

Graduate Courses**Geog 501. Research.**

Credit hours and topics to be arranged. A no-grade course.

Geog 502. Supervised College Teaching.

Credit hours to be arranged. No-grade course.

Geog 503. Thesis.

Credit hours to be arranged. No-grade course.

Geog 505. Reading and Conference.

Credit hours and topics to be arranged.

Geog 507. Seminar. 3 credit hours.

Climatology. Patton.
Historical Geography of the United States. Price.
Urban Problems. Smith.
Changing Latin American City. Martin.
Biogeography. Johannessen.
Cultural Geography. Urquhart.

Geog 509. Supervised Tutoring Practicum. 1-3 credit hours any term.**Geog 555. History of Geographic Thought. 3 credit hours.**

Development of concepts of the earth and of man's relation to it; ends and means of geographic study. Price.

Geology

Faculty

Department Head, William T. Holser, Ph.D., Professor of Geology (mineralogy and geochemistry). B.S., 1942, M.S., 1946, California Institute of Technology; Ph.D., Columbia, 1950; at Oregon since 1970.

Brian H. Baker, Ph.D., Associate Professor of Geology (structural geology and tectonics). Assistant Department Head. B.Sc., University of Birmingham, England, 1949; Ph.D., University of East Africa, 1971; at Oregon since 1971.

Ewart M. Baldwin, Ph.D., Professor of Geology (stratigraphy and regional geology). B.S., 1938, M.S., 1939, Washington State; Ph.D., Cornell, 1943; at Oregon since 1947. (On leave of absence, 1972-73.)

H. Richard Blank, Ph.D., Associate Professor of Geology (geophysics). B.S., Southwestern University (Texas), 1948; M.S., 1950, Ph.D., 1959, Washington; at Oregon since 1968.

Sam Boggs, Jr., Ph.D., Associate Professor of Geology (sedimentation and sedimentary petrology). B.S., Kentucky, 1956; Ph.D., Colorado, 1964; at Oregon since 1965. (On sabbatical leave, 1972-73.)

Gordon G. Goles, Ph.D., Professor of Geology and Chemistry (geochemistry). Director, Center for Volcanology. A.B., Harvard, 1956; Ph.D., Chicago, 1961; at Oregon since 1966.

M. Allan Kays, Ph.D., Associate Professor of Geology (metamorphic and igneous petrology). B.A., Southern Illinois, 1956; M.A., 1958, Ph.D., 1960, Washington University; at Oregon since 1961.

Ernest H. Lund, Ph.D., Associate Professor of Geology (petrography and petrology). B.S., Oregon, 1944; Ph.D., Minnesota, 1950; at Oregon since 1957. (On sabbatical leave, fall, 1972-73.)

Alexander R. McBirney, Ph.D., Professor of Geology (igneous petrology, volcanology). B.S., U.S. Military Academy, West Point, 1946; Ph.D., California at Berkeley, 1961; at Oregon since 1965.

William N. Orr, Ph.D., Associate Professor of Geology (micro-paleontology and biostratigraphy). B.S., Oklahoma, 1961; M.A., California at Riverside and Los Angeles, 1963; Ph.D., Michigan State, 1967; at Oregon since 1967. (On sabbatical leave, 1973-74.)

Norman M. Savage, Ph.D., Associate Professor of Geology (Paleozoic paleontology and stratigraphy). B.S., Bristol, 1959; Ph.D., Sydney, 1968; at Oregon since 1971.

Lloyd W. Staples, Ph.D., Professor of Geology (mineralogy, economic and engineering geology). A.B., Columbia, 1929; M.S., Michigan, 1930; Ph.D., Stanford, 1935; at Oregon since 1939.

Daniel F. Weill, Ph.D., Professor of Geology (experimental petrology and geochemistry). B.A., Cornell, 1956; M.S., Illinois, 1958; Ph.D., California, Berkeley, 1962; at Oregon since 1966.

Special Staff

Robert H. Fletcher, Research Assistant in Geology (microprobe operations).

Richard F. Freeman, Research Assistant in Geology (laboratory equipment).

Jonathan S. Fruchter, Ph.D., Research Associate in Geology (geochemistry). B.S., University of Texas, 1966; Ph.D., University of California, San Diego, 1971.

Michael W. Grutzeck, M.S., Research Associate in Geology (high-temperature geochemistry). B.A., Hunter, 1964; M.S., Pennsylvania State, 1968.

Stephen J. Kridelbaugh, Ph.D., Research Associate in Geology (lunar petrology). B.A., Wayne State University, 1967; Ph.D., University of Colorado, 1971.

David A. Leppaluoto, Ph.D., Research Associate in Geology (theoretical geophysics). B.S., 1962, M.S., 1964, Ph.D., 1972, Berkeley.

Franklin P. Mason, Ph.D., Research Associate in Geology (geochemistry). B.A., Kalamazoo, 1966; Ph.D., Oregon, 1971.

Frederick J. Swanson, Ph.D., Research Associate in Geology (surficial geology). B.S., Pennsylvania State, 1966; Ph.D., Oregon, 1972.

Graduate Teaching Fellows

Mary M. Donato, B.A., Mt. Holyoke College, 1972.

Sandra M. Endrodi, B.S., Georgia, 1973.

Thomas W. Judkins, B.A., Fresno State College, 1970.

Gregory A. Miles, B.S., Oregon, 1968.

Howard R. Naslund, B.S., Illinois, 1972.

Allen B. Storm, B.A., Humboldt State College, 1972.

Wha-Ching Wang, B.S., National Cheng Kung University, Taiwan, 1972.

Ray E. Wells, B.S., Pennsylvania State, 1972.

Craig M. White, B.A., Earlham, 1967; M.A., Wisconsin, 1970.

Ronald O. Wold, B.A., Amherst College, 1970; M.S., Montana, 1972.

Undergraduate Studies

GEOLGY studies the materials and processes that have shaped the earth, moon, and planets, and that have generated our surface environment and mineral resources. It applies all of the basic sciences—biology, chemistry, mathematics, and physics—to the understanding of these processes, and, furthermore, does this in the historical context of geological time. It is a science that explores these problems by combining field investigations with laboratory experiments and theoretical studies.

An undergraduate degree with a major in geology (Bachelor of Science or Bachelor of Arts) is most often preparation for professional graduate study leading to the Master degree or the Doctor of Philosophy degree, that is required for most professional employment, as in the petroleum, mining and construction industries, in governmental surveys, or in college teaching. It may also serve as a strong scientific background for high-school teaching, or for a broad cultural education.

High-school students planning to major in geology at the University are advised to include in their high-school course: algebra, plane geometry, trigonometry, geography, science (physics, chemistry, biology, or general science). Transfers from two-year colleges should have completed the basic requirements listed below for lower-division students, and as many as possible of the University requirements for undergraduates.

Two curricular options are available under the major in geology.

Curriculum in Geology. In this program, lower-division students are required to take General Geology (Geol 201, 202, 203, 4 credit hours each, recommended; but Geol 101, 102, 103, 3 credit hours each, plus Geol 104, 105, 106, 1 credit hour each, may be substituted); a year-course in Calculus (Mth 204, 205, 206, 5 credit hours each; or Mth 200, 201, 202, 4 credit hours each); General Chemistry (Ch 104, 105, 106, 3 credit hours each); Introductory Chemistry Laboratory (Ch 107, 2 credit hours); Introductory Analytical Chemistry (Ch 108, 109, 2 credit hours each); and General Physics and General Physics Laboratory (Ph 201, 202, 203, 4 credit hours each; and Ph 204, 205, 206, 1 credit hour each). Upper-division students are required to take Mineralogy (Geol 325, 326, 327, 4 credit hours each); Structural Geology (Geol 391, 4 credit hours); Stratigraphy and Sedimentation (Geol 392, 3 credit hours); Field Geology (Geol 406, 9 credit hours); Seminar in Written and Spoken Exposition (Geol 407, 1 credit hour); either Economic Mineral Deposits (Geol 423, 3 credit hours) or Mineral Paragenesis (Geol 461, 3 credit hours); and Petrology and Petrography (Geol 414, 415, 416, 4 credit hours each). Depending on individual interests and plans for graduate study, students are expected to take additional courses outside of the Department, for example, Advanced General Physics (Ph 324, 325, 326, 4 credit hours each); Physical Chemistry (Ch 441, 442, 443, 4 credit hours each); Fundamentals of Statistics (Mth 346, 3 credit hours) or Elements of Statistical Methods (Mth 425, 426, 427, 3 credit hours each), and Differential Equations (Mth 418, 3 credit hours).

Curriculum in Geology-Paleontology. Lower-division students are required to take General Geology (Geol 201, 202, 203, 4 credit hours each, recommended; but Geol 101, 102, 103, 3 credit hours each, plus Geol 104, 105, 106, 1 credit hour each, may be substituted); College Algebra (Mth 101, 4 credit hours); Elementary Functions (Mth 102, 4 credit hours); Elements of Calculus (Mth 106, 4 credit hours); General Chemistry (Ch 104, 105, 106, 3 credit hours each); Introductory Chemistry Laboratory (Ch 107, 2 credit hours); Introductory Analytical Chemistry (Ch 108, 109, 2 credit hours each); General Physics and General Physics Laboratory (Ph 201, 202, 203, 4 credit hours each; and Ph 204, 205, 206, 1 credit hour each); and a year of General Biology (any three of: Bi 101, 102, 103, 104, 105, 106, 4 credit hours each, or Bi 107, 3 credit hours). Upper-division students are required to take Mineralogy (Geol 325, 326, 327, 4 credit hours each), Paleontology (Geol 431, 432, 3 credit hours each); Stratigraphy and Sedimentation (Geol 392, 3 credit hours); Field Geology (Geol 406, 9 credit hours); Seminar in Written and Spoken Exposition (Geol 407, 1 credit hour); Lithology (Geol 411, 3 credit hours); Structural Geology (Geol 391, 4 credit hours); and four upper-division courses in biology.

Students who are interested in teaching Earth Science in the public schools of Oregon may obtain certification in this field through a major in either Geology or General Science. The minimum requirements for the basic certificate are General Chemistry, Essentials of Physics or General Physics, General Geology, Rocks and Minerals, Oceanography, Geology of Oregon, Astronomy, and Climatology. The standard certificate may be earned by taking fifteen additional credit hours selected from Astronomy, Geology,

Meteorology or Climatology, and Oceanography. For further information, the student should consult an adviser in either Geology or General Science.

Graduate Studies

THE Department offers programs of graduate study covering the wide range of interests indicated in the list of faculty. Many of the research programs combine the most recent techniques of both laboratory and field observation to solve geological problems. The location of Eugene between the volcanic rocks of the Cascades and Columbia Plateau to the east, the Tertiary sediments of the Coast Range to the west, and the Mesozoic and Paleozoic sedimentary, plutonic, and metamorphic complex of the Klamath and Trinity mountains to the south, provides abundant local opportunity for field study. Recent expeditions have conducted studies throughout the world, from Greenland and Arctic Canada to the Galapagos and Kenya.

Programs of study are offered leading toward Master of Science, Master of Arts, and Doctor of Philosophy degrees. Admission to the graduate program is competitive, and based on earlier academic record, scores of the Graduate Record Examination, and letters of recommendation. Applications are welcome from students in related fields, such as physics, chemistry, and biology, who have an interest in applying this background to the solution of geological problems. Those incoming graduate students who do not have an undergraduate preparation approximately equivalent to that of the bachelor degree in geology at the University of Oregon will be expected to take courses here to correct such deficiencies. In other respects, course work is designed to meet the individual needs and special interests of the student.

The University requirements for graduate degrees are detailed in the Graduate School section of this catalog; the Department of Geology sets the following additional requirements. Qualifying examinations in three general areas of geology are given twice each year to establish minimal competence in each broad area of the subject; candidates for master degrees must pass two of the three areas, and successful passage of all three areas is required for admission to candidacy for the Ph.D.

A thesis is required for master degrees, based on a proposal circulated to the faculty of the department for comment and approval. A student may earn up to 15 hours of credit for thesis, but only 9 will apply towards the 45 credit hours required for the degree by the Graduate School. An examining committee for defense of the master thesis consists of at least three faculty members and may include a member from outside the department.

After a student working toward a Ph.D. has passed all three area-qualifying examinations, the student's qualifications will be considered by the full faculty for acceptance into the Ph.D. program. After acceptance, the student will arrange with a faculty member to be thesis adviser and chairman of the student's advisory committee, which will consist of four or more members (including one from outside the department) appointed by the Department Head. The committee will approve the student's course program, including at least 15 credit hours of graduate work in related sciences. Proficiency usually must be demonstrated in two foreign languages pertinent to the student's field of work, by two years college course work (GPA 2.5), GSFLT score (50 percentile), a German language course and examination in Scientific German, or a reading examination administered by a desig-

nated faculty member of the Department of Geology. A student may be exempt from one language by demonstrating exceptional proficiency in the other (GSFLT 90 percentile), or, in exceptional cases, by substitution of another special area of study (not a minor) subject to approval by the Geology faculty.

The comprehensive examination is intended to determine the Ph.D. student's preparation in the special field of the thesis research and is taken after the student has satisfied the language requirement and completed most of the course work. It may be either written or oral or both. The examining committee usually will be the same as the advisory committee but may include other persons invited by the advisory committee. The examination is to be taken at least one academic year before the student expects to complete the work for the degree. On passing the comprehensive examination, the student is advanced to candidacy.

A thesis is required for the Ph.D. degree. Current regulations of the Graduate School require only that it be signed by the advisory committee, after which it is presented publicly. Policy of the Department of Geology stipulates further that the advisory committee meet with the candidate for an examination on the thesis after it is sufficiently completed for presentation, but at an early enough date to allow required changes to be made before the final thesis is presented for signature.

Graduate awards in the department include teaching and research fellowships and the Condon Fellowship. Research fellows are selected by individual faculty members who have grant-supported research, and persons for the other awards are selected by a committee of three faculty members. Primary consideration in making the selection is academic promise. A second factor is the person's ability to perform the work that needs to be done in connection with the appointment. A student's financial need is also considered.

Teaching fellowship awards are made for a single academic year, on a competitive basis. A student who is currently holding a teaching fellowship will be reappointed if the student has maintained a GPA of at least 3.00, and the credits earned in geology indicate that satisfactory progress is being made towards completion of the degree. A master candidate may receive support for a maximum of two years and a Ph.D. candidate for a maximum of four years on awards made by the department or on awards for which the department selects the recipient. Research fellowships are not subject to the maximum tenures outlined above.

Students are urged to apply for financial support from outside the department whenever possible. Grants are made directly to graduate students by organizations such as the Geological Society of America, Sigma Xi, National Science Foundation, and other government agencies.

The department administers a small student research fund to assist graduate students in their research and preparation of thesis. Proposals may be submitted to the chairman of the student research fund committee.

The department has a fund for making small, short-term loans to "students in financial distress." The Department Head authorizes these loans on the recommendation of the member of the faculty assigned responsibility for the loan fund (usually the chief adviser).

Research Facilities

A wide variety of experimental facilities is available to students for their research. Analytical equipment includes an electron microprobe, neutron activation analysis, atomic absorption and

flame photometry, X-ray fluorescence, X-ray diffraction, and wet chemical analysis. A fully equipped laboratory in modern optics includes equipment for measuring absorption, refractivity, and reflectivity from the far ultraviolet to the far infrared, supplemented by analogous measurements of dielectric properties through a wide range of radio frequencies. Other special equipment is designed to measure acoustic velocity, thermal conductivity, viscosity, and diffusion in melts or rocks at high temperatures. An experimental petrology laboratory covers a wide range of crustal temperatures and pressures. A mobile seismographic station records seismic activity on the eastern side of the Cascades at the University's Pine Mountain Observatory, and gravimeters and both airborne and surface magnetometers are available for geophysical field work. The sedimentological and paleontological laboratories have available an electronic particle-size analyzer, an X-radiography unit, modern photomicroscopes, a Leitz Aristophot unit, and a fully maintained catalog of Foraminifera.

Center for Volcanology

The Department of Geology includes a Center for Volcanology; the staff of the Center under Professor Gordon G. Goles, Director, includes faculty and research associates whose principal interests are in the fields of igneous petrology, volcanic geology, geochemistry, and geophysics. Oregon and the Pacific Northwest provide exceptional opportunities for field study of volcanic rocks and structures. The facilities at Eugene include equipment for analysis of rocks and minerals by a wide range of modern procedures, as well as for synthetic studies.

Geol 101, 102, 103. General Geology. 3 credit hours each term.

A general introduction to the physical environment of the Earth, and the main events of the Earth's history that have shaped it. For students not majoring in a physical science, but wanting a basic understanding of their environment; requires less background in mathematics and science than Geol 201, 202, 203. Recommended, but not required, to be accompanied by Geol 104, 105, 106. All three courses are offered each term, and taking them in sequence is recommended but not required. Geol 101: the rock and mineral materials of geology and the processes that modify them on the Earth's surface; weathering, erosion by streams, glaciers, wind, and the sea; effect of man on the environment. Geol 102: processes of volcanism, metamorphism, rock deformation, and ore deposition that act in the Earth's crust and deep interior, considered from the modern unifying viewpoint of sea-floor spreading and sliding of continental plates. Geol 103: time-historical account of the Earth's history, and the fossil record of life recorded in sedimentary sequences, and the reconstruction of paleogeography. Three lectures per week, one Saturday or Sunday field trip per term.

Geol 104, 105, 106. General Geology Laboratory. 1 credit hour each term.

Laboratory studies recommended to supplement and complement the correlative parts of Geol 101, 102, 103, but not required. Identification and properties of minerals and rocks, how to read topographic and geologic maps and use aerial photographs, reproduction of geological processes by model studies, fossils as evidence of evolutionary processes. One two-hour session per week. Baker.

Geol 201, 202, 203. General Geology. 4 credit hours each term.

An introductory course in geology that covers the same gen-

eral ground as Geol 101, 102, 103, but on a more detailed scale for science majors, Honors College students, and other students with backgrounds in chemistry, physics, and mathematics. Three lectures, one two-hour laboratory, field trips. McBirney, Baker, Boggs.

Geol 291. Rocks and Minerals. 3 credit hours.

Common minerals and rocks; origin, and properties of precious, semiprecious and ornamental stones; economically important rocks and minerals. Two lectures; one three-hour laboratory period. Lund.

Geol 301, 302, 303. Geologic History of Life. 3 credit hours each term.

Fall: origins of the Earth and solar system; a model for the origin of life in the Precambrian; Precambrian fossil evidence; early evolution of plants and invertebrate animals. Winter: later evolution of plants and invertebrate animals; the evolution of fish, amphibians, reptiles, and dinosaurs; discussion of evolution, migrations and extinctions of the lower vertebrates. Spring: the dominance of the dinosaurs; appearance of the early mammals and their subsequent history; comparative morphology of mammals; discussion of evolution, migrations and extinctions of the mammals. Intended for nonmajor juniors and seniors. Goles, Savage.

Geol 321. Mineral Resources and the Environment. 3 credit hours.

Sources, limits and hazards of resources of fossil fuels, nuclear energy, metals and nonmetals, and other problems of man and the geological environment. The scientific principles that underlie these central problems, and that are the basis for future planning, will be presented for students without previous science background. (Formerly SSc 322, the second term of Man and His Environment.) Two lectures, discussion section, term projects. Goles, Holser.

Geol 325, 326, 327. Mineralogy. 4 credit hours each term.

A general introduction to the minerals that constitute the common rocks and ore deposits: description, determination, and occurrence. Geol 325: geometrical and x-ray crystallography; Geol 326: description and occurrence of oxides, sulfide, and silicate minerals; Geol 327: optical crystallography and use of the polarizing microscope in mineral identification and study. Three lectures, one laboratory. Prerequisite: Ch 104, 105, 106; Ch 107, 108, 109; Geol 101, 102, or 201, 202. Staples, Lund.

Geol 352. Geology of Oregon. 3 credit hours.

Lectures, assigned reading, and field trips, to acquaint the student with some of the salient features of the geology of the state. Previous geology not required. Baldwin.

Geol 353. Oceanography. 3 credit hours.

An introduction to physical, chemical, and biological processes of the world's oceans, with emphasis on the history and geology of the ocean basins. Previous science courses not required. Baldwin.

Geol 391. Structural Geology. 4 credit hours.

Description, classification and origin of major and minor geologic structures; mechanics of rock deformation; use of stereographic projection in structural analysis; exercises on geologic maps and sections. Offered fall term. Prerequisite: Geol 101, 102, 104, 105, or 201, 202. Baker.

Geol 392. Stratigraphy and Sedimentation. 3 credit hours.

Genesis and subsequent history of stratified rocks; sedimentation, induration, weathering; the methods of correlating such formations. Prerequisite: Geol 201, 202, 203. Baldwin.

Geol 401. Research.

Credit hours to be arranged.

Geol 405. Reading and Conference.

Credit hours to be arranged.

Geol 407. Seminar: Written and Spoken Exposition. 1 credit hour.

Geol 407. Seminar.

Credit hours to be arranged.

Geochemistry.

Geology of the Pacific Northwest.

Nonmetallic Mineral Deposits.

X-ray Analytical Techniques.

Upper-Division Courses Carrying Graduate Credit

Geol 411. Lithology. (g) 3 credit hours.

The origin, occurrence, and classification of the principal rock types. Laboratory examination and classification of rocks in hand specimens. Two lectures, one laboratory. Prerequisite: Geol 326. Lund.

Geol 414, 415, 416. Petrology and Petrography. (G) 4 credit hours each term.

Origins, occurrences, and classifications of rocks. Laboratory work in both megascopic and microscopic examination of rocks. Geol 414: igneous rocks; Geol 415: metamorphic rocks; Geol 416: sedimentary rocks. Prerequisites: Ph 201, 202, 203; Geol 325, 326, 327. McBirney, Kays, Boggs.

Geol 421. Engineering Geology. (G) 3 credit hours.

The application of geology to engineering problems, especially those related to landslides, foundations, dams, and tunnels. Field trips. Prerequisite: Geol 325, 326, 327. Staples.

Geol 422. Petroleum Geology. (G) 3 credit hours.

Origin and accumulation of petroleum, methods of locating oil and gas, organization of exploratory programs, current economic and political factors affecting the petroleum industry. Three lectures. Prerequisite: Geol 391, 392. Boggs.

Geol 423. Economic Mineral Deposits. (G) 3 credit hours.

The general principles of the formation of metallic and non-metallic economic geologic deposits; principal economic deposits, domestic and foreign. Two lectures; one laboratory. Prerequisite: Geol 325, 326, 327. Staples.

Geol 425, 426. Properties of Crystals. (G) 3 credit hours each term.

Continuing beyond elementary mineralogy, applying modern theory to explain physical properties of minerals in order to apply them to problems in petrology, geochemistry, and geophysics. Geol 425: packing and framework structures, crystal defects and dislocations, symmetry of points, lattices, space groups, and physical properties. Geol 426: general relations of physical properties in crystals and in rock textures, electrical and magnetic properties, optical and dielectric properties, thermal properties, elasticity, deformation of crystals, crystal growth. Prerequisite: Geol 325, 326, 327, or one year of college chemistry. Geol 425 not offered in 1973-74. Holser.

Geol 431, 432. Paleontology. (G) 3 credit hours each term.

Geol 431: biostratigraphy, evolution, and paleoecology of invertebrates; systematic consideration of invertebrates with emphasis on groups abundant in the Paleozoic. Geol 432: sys-

tematic consideration of invertebrates with emphasis on groups abundant in the Mesozoic and Cenozoic. Two lectures, one laboratory. Prerequisite: Geol 103 or Geol 203. Savage.

Geol 451. Pacific Coast Geology. (G) 3 credit hours.

The general geology of the west coast of the United States and Canada from Alaska to southern California; special problems of the region. Prerequisite: Geol 392; senior or graduate standing. Baldwin.

Geol 461. Mineral Paragenesis. (G) 3 credit hours.

Mineral paragenesis in response to physico-chemical conditions in the earth. Heterogeneous and homogeneous equilibria of gases, liquids, supercritical fluids, and solids of fixed or variable composition in geological context. Prerequisite: Geol 325, 326, 327, general chemistry, calculus. Weill.

Geol 462. Tectonics. (G) 3 credit hours.

Large-scale processes of orogeny, sea-floor spreading and continental drift with emphasis on current research. Prerequisite: Geol 391, 392, or consent of instructor. Baker.

Geol 463. General Geophysics and Planetology. (G) 3 credit hours.

Physics of the earth: gravity, geodesy, and isostasy; the geomagnetic field, paleomagnetism; electromagnetism and the earth's interior; earthquake seismology; geochronology; heat flow and thermal balance. The earth as a planet: models of its core, mantle, and crust. Earth-moon system and general planetary models. Three lectures. Prerequisite: one year of calculus and physics, or consent of instructor. Blank.

Geol 464. Exploration Geophysics. (G) 4 credit hours.

Theory and application of geophysical methods used in geologic mapping and resource exploration. Gravity and magnetic surveys and their interpretation; exploration seismology; electrical and electromagnetic methods; radioactivity surveys; remote sensing. Three lectures and one laboratory or field exercise. Prerequisite: one year of calculus and physics; Geol 391 or Geol 463, or consent of instructor. Blank.

Geol 470. Geochemistry. (G) 3 credit hours.

Introduction to the application of chemical principles of geologic processes. Distribution of the elements in the earth and the processes by which these distribution patterns evolve. Prerequisite: Geol 325, 326, 327; Ch 441, 442, 443; or consent of instructor. Gales.

Geol 473. Photogeology. (G) 3 credit hours.

Geologic interpretation of stereographic pairs of vertical aerial photography, methods of transfer of data from photographs to maps. Two lectures, one three-hour laboratory. Prerequisite: Geol 201, 202, or 101, 102. Baker.

Graduate Courses

Geol 501. Research.

Credit hours to be arranged. A no-grade course.

Geol 503. Thesis.

Credit hours to be arranged. A no-grade course.

Geol 505. Reading and Conference.

Credit hours to be arranged.

Geol 506. Advanced Field Geology.

Credit hours to be arranged. Geologic field work principally in connection with graduate theses. Emphasis on individual

problems. Prerequisite: graduate standing, consent of thesis adviser.

Geol 507. Seminar.

Credit hours to be arranged.
Regional geologic studies.
Seismology.

Geol 511. Advanced Microscopy and Instrumentation. 4 credit hours.

Advanced optical mineralogy, including universal stage, immersion methods, and ore microscopy; X-ray diffraction. Prerequisite: Geol 414, 415, 416. McBirney.

Geol 514. Advanced Metamorphic Petrology. 3 credit hours.

The origin and genetic relations of metamorphic rocks; microscopic examination of rock suites selected for study of petrologic principles and problems. Prerequisite: Geol 415, 511. Kays.

Geol 515, 516. Advanced Igneous Petrology. 3 credit hours each term.

The origin and genetic relations of igneous rocks; microscopic examination of rock suites selected for study of petrologic principles and problems. Prerequisites: Geol 414, Geol 511. McBirney. Geol 516 not offered in 1973-74.

Geol 520. Advanced Economic Geology. 3 credit hours.

Theories of the origin of mineral deposits; study of examples illustrating general principles. Student reports on selected types of deposits. Review of current literature. Prerequisite: Geol 423. Staples.

Geol 523, 524. Advanced Sedimentary Petrology. 3 credit hours each term.

Application of advanced techniques to the interpretation of origin and diagenetic history of sedimentary rocks. Prerequisite: Geol 392 and statistics, or consent of instructor. Boggs. Geol 524 not offered in 1973-74.

Geol 525. Stratigraphy of North America. 3 credit hours.

Stratigraphic framework of the United States and neighboring countries. Prerequisite: Geol 392. Baldwin. Not offered in 1973-74.

Geol 526. Global Stratigraphy. 3 credit hours.

An examination of the major stratigraphic events of geologic history from the Precambrian to the Present. Possible relationships between orogenesis, continental drift, plate tectonics, geosyncline formation, marine transgression and regression, and climatic variation are discussed. The stratigraphic record in different parts of the world is examined in an attempt to form a global picture of these events. The major paleontologic changes are described and problems of evolutionary outbursts, extinction, faunal provinces, and migration are considered. Consent of instructor is required. Savage. Not offered in 1973-74.

Geol 531, 532. Advanced Paleontology. 3 credit hours each term.

Applied problem in paleontology, principles of taxonomy. Problems and theory of biostratigraphy, manuscript preparation. Collection, preparation, and scientific illustration of fossil specimens. Survey of classical paleontological literature, readings on specific problems in paleontology problems in ecology and paleoecology. Field trips to collecting localities. Prerequisite: Geol 431. Orr, Savage. Geol 531 not offered in 1973-74.

Geol 533. Micropaleontology. 3 credit hours.

Survey of all major plant and animal microfossil groups. Separation from matrices and preparation for microscopy. Funda-

mentals of microscopy. Microtechniques, biology and ecology of important microfossil groups. Emphasis on biostratigraphy. Classification of parataxa, petroleum, and oceanographic micropaleontology. Literature survey, field trips to collect microfossils. One lecture, two laboratory periods. Prerequisite: Geol 103 or 203. Orr.

Geol 561, 562, 563. Geochemistry. 3 credit hours each term.

Topics in theoretical and experimental petrochemistry; origin and distribution of elements. Prerequisite: chemistry with thermodynamics, or Geol 461, or consent of instructor. Goles, Holser, Weill.

Geol 571, 572, 573. Geophysics. 3 credit hours each term.

Interpretation theory. Topics in general geophysics. Prerequisite: consent of instructor. Blank. Geol 572, 573 not offered in 1973-74.

Geol 591. Advanced Structural Geology. 3 credit hours.

Theories of the origin of geologic structures observed in deformed rocks. Comparative study and classification of structures; theoretical and experimental studies. Prerequisite: Geol 391. Baker.

Geol 592. Volcanology. 2 credit hours.

The products and processes of volcanism, origin of magmas, eruptive mechanisms, and relation of volcanism to orogeny and tectonic processes. McBirney.

Courses Offered Only in Summer Session

Geol 406. Field Geology. 9 credit hours.

Geological field work in selected parts of Oregon, emphasizing mapping at several scales in sedimentary, igneous, and metamorphic terrains. Projects include topographic and airphoto bases, and plane-table-alidade. Meets in the field for six weeks immediately after spring term. For details, request circular from department. Prerequisite: Geol 201, 202, 203 or 101 to 106; 325, 326, 392, or consent of instructor.

Geol 408. Workshop. (g) 3 credit hours.

Eight-day field trip on the geology and paleontology of Oregon. Orr.

Geol 455. Studies in Physical Geology. (g) 3 credit hours.

Topics include earth materials, geologic processes, and landform development. Classwork is supplemented with field trips. The course is not meant to satisfy course requirements in graduate degrees in science. Offered summer session 1973. Enrollment by consent of the instructor. Lund.

Geol 456. Regional Geology of North America. (g) 3 credit hours.

A regional approach to the study of North American geology; rock units, structures, landforms, and geologic history. Field trips supplement classroom work. Survey course designed primarily for teachers of earth science; not meant to satisfy course requirements in graduate degrees in science. Offered summer session 1974. Enrollment by consent of instructor. Baldwin.

German and Russian

Faculty

- Department Head, Roger A. Nicholls, Ph.D., Professor of German (drama; 19th century literature). B.A., Oxford, 1949; Ph.D., California, 1953; at Oregon since 1963.
- John Fred Beebe, Ph.D., Associate Professor of Russian (literature, linguistics). B.A., Wabash, 1946; M.A., Indiana, 1954; Ph.D., Harvard, 1958; at Oregon since 1968.
- Lana P. Buck, M.A., Instructor of Russian (19th and 20th century literature). B.A., 1967, M.A., 1969, University of Connecticut; at Oregon since 1972.
- Edward Diller, D.M.L., Professor of German (20th century literature). B.A., California at Los Angeles, 1953; M.A., Los Angeles State, 1954; D.M.L., Middlebury, 1961; at Oregon since 1965.
- Peter B. Gontrum, Ph.D., Professor of German (20th century literature, poetry). A.B., Haverford, 1954; M.A., Princeton, 1956; Ph.D., Munich, 1958; at Oregon since 1961.
- Walther L. Hahn, Ph.D., Associate Professor of German (romanticism, 19th century novel and Novelle). Dip. Teachers College, Berlin, 1949; M.A., Rice, 1954; Ph.D., Texas, 1956; at Oregon since 1961.
- Edmund P. Kremer, J.U.D., Professor Emeritus of German. J.U.D., Frankfurt on Main, 1924; at Oregon since 1928.
- Albert Leong, Ph.D., Assistant Professor of Slavic Languages (19th and 20th century literature). B.A., 1961, M.A., 1966, Ph.D., 1970, Chicago; at Oregon since 1966.
- Wolfgang A. Leppmann, Ph.D., Professor of German (Goethe and 18th century literature). B.A., 1948, M.A., 1949, McGill; Ph.D., Princeton, 1952; at Oregon 1954-68 and since 1969.
- Beth E. Maveety, Ph.D., Visiting Lecturer (teacher training and German literature). B.A., 1937, M.A., 1966, San Jose State; Ph.D., Oregon, 1969; at Oregon since 1970.
- James R. McWilliams, Ph.D., Associate Professor of German. Resident Director, Oregon Study Center in Germany, 1973-74. (19th and 20th century literature). B.A., 1951, M.A., 1957, Ph.D., 1963, California; at Oregon since 1960.
- Helmut R. Plant, Ph.D., Associate Professor of German (Germanic linguistics, paleography). B.A., Fairmont, 1957; M.A., 1961, Ph.D., 1964, Cincinnati; at Oregon since 1966.
- James L. Rice, Ph.D., Associate Professor of Russian (folklore, 18th century literature). A.B., Harvard, 1960; M.A., 1964, Ph.D., 1965, Chicago; at Oregon since 1967.
- Christian P. Stehr, M.A., Instructor of German (17th and 20th Century literature, teaching methodology). Dip. in Philosophy, University of Würzburg, 1967; M.A., Oregon, 1971; at Oregon since 1969.
- Ingrid A. Weatherhead, M.A., Instructor in Norwegian (Scandinavian). B.A., 1950, M.A., 1951, Puget Sound; at Oregon 1962-63 and since 1969.
- Astrid M. Williams, Ph.D., Professor Emeritus of German. B.S., 1921, M.A., 1932, Oregon; Ph.D., Marburg, 1934; at Oregon since 1935.

Jean M. Woods, Ph.D., Assistant Professor of German (16th century, baroque, and 18th century literature). B.A., Wellesley, 1948; M.A., 1965, Ph.D., 1968, Oregon; at Oregon since 1965.

Graduate Teaching Fellows

- Margaret Jo Allen, B.A., Stanford, 1969; at Oregon since 1972.
- Marian J. Angele, B.A., Colorado, 1967.
- Rita K. Collins, B.A., Oregon, 1972; at Oregon since 1972.
- James Dunn, B.A., University of Iowa, 1967; at Oregon since 1972.
- Barbara K. Kuennecke, B.A., Carleton College, 1970; M.A., University of Illinois, 1972; at Oregon since 1972.
- Sabine S. Sherwin, Abitur, Heinrich-SchützSchule, 1969; M.A., Portland State, 1972; at Oregon since 1972.
- Leo Edward Streeter III, B.A., Oregon, 1973.
- Jan Sutherland, B.A., University of Puget Sound, 1970; at Oregon since 1972.
- Linda M. Turner, B.S., University of Puget Sound, 1972; at Oregon since 1972.

Undergraduate Studies

THE DEPARTMENT of German and Russian offers an undergraduate program in both language and literature. The program is designed to enable the student to achieve proficiency in reading, writing, and speaking the language, and to provide a solid grounding in the literature of the country.

Requirements for Bachelor Degree in German. A total of 39 credit hours in the following courses is required of all candidates for the Bachelor of Arts degree in German: Survey of German Literature (GL 301, 302, 303); Composition and Conversation (GL 334, 335, 336); Advanced German Composition and Conversation (GL 424, 425, 426); at least 12 credit hours from the following literature courses: Readings in Modern German Literature (GL 324, 325, 326); The Age of Goethe (GL 411, 412, 413); Nineteenth Century Novelle (GL 414, 415, 416); German Literature of the 20th Century (GL 431, 432, 433).

The department encourages students in German to spend a year at the German Study Center in Stuttgart, operated by the Oregon State System of Higher Education. For further information, students should consult the departmental representative.

Undergraduate students preparing for graduate work in German are advised to begin a second foreign language, and to take related courses in either English or other European literature or both, or philosophy or history.

To gain a Bachelor of Arts with Honors, a student must maintain a 3.5 grade point average and write an honors essay or thesis approved by the department honors committee, for three credit hours.

Undergraduate majors planning to teach English in Germany are advised to take Applied German Phonetics (GL 498) and Modern English Grammar (Eng 492). The department will be glad to assist in locating teaching positions in Germany.

Requirements for Bachelor Degree in Russian. Candidates for the Bachelor of Arts degree in Russian are required to take 48 credit hours of work beyond the second-year sequence (SL 101, 102, 103 or its equivalent). This work normally includes the following sequences: Third-Year Russian (SL 316, 317, 318); Introduction to Russian Literature (AL 313, 314, 315); History of Russia (Hst 447, 448, 449) or Russian Culture and Civilization (AL 340, 341, 342). In addition, 15 credit hours or more are taken from the following electives in Russian literature and linguistics: Modern Russian Novel (AL 420); Modern Russian Short Story (AL 421); Modern Russian Poetry (AL 422); Modern Russian Drama (AL 423); Dostoevsky (AL 424); Tolstoy (AL 425); Gogol (AL 426); Turgenev (AL 427); Chekhov (AL 428); Soviet Russian Literature (AL 429); Seminar (SL 407); Fourth-Year Russian (SL 416, 417, 418); Structure of Russian (SL 440, 441, 442).

Students preparing for graduate work in Russian are advised to take either French or German, and to complete a balanced program of related courses in literature, history, philosophy, political science, art, and music.

To gain a Bachelor of Arts with Honors, a student must maintain a 3.5 grade point average and write an honors essay or thesis approved by the department honors committee, for three credit hours.

Secondary-School Teaching of Foreign Languages. For certification as a teacher of German or Russian in Oregon high schools, the Oregon Board of Education requires (1) the completion of 45 credit hours of subject preparation; (2) the completion of of Human Development and Learning (EPsy 326 or equivalent); Special Secondary Methods (CI 408); Seminar in Applied Linguistics (GL 407 or SL 407); Student Teaching: Junior High School (CI 416) or Student Teaching: Senior High School (CI 417); and (3) the recommendation of the institution at which the student completes the subject preparation.

The Department of German and Russian will approve for student teaching only those students whose course work in the language they plan to teach is of high quality, and who have attained reasonable oral and written control of that language.

For permanent certification, after a fifth year of preparation, students must complete an additional 15 credit hours in linguistics, culture and civilization, and phonetics. The following courses are recommended: German: German Culture and Civilization (GL 340, 341, 342), Applied German Phonetics (GL 498); Russian: Russian Culture and Civilization (AL 340, 341, 342); Russian Phonetics (SL 324), Structure of Russian (SL 440, 441, 442); both languages: Modern English Grammar (Eng 492), Phonology and Morphology (Ling 450), and Syntax and Semantics (Ling 451), in that order.

It is recommended that, if possible, students complete the five-year program for permanent certification before they begin teaching, and that, during the fifth year, they satisfy the requirements for the interdisciplinary master degree in teaching.

For further information, the student should consult a member of the departmental committee on teacher training.

Graduate Studies

THE DEPARTMENT offers programs leading to the degrees of Master of Arts and Doctor of Philosophy in German, and Master of Arts in Russian. For the master degree in German, work in German literature is offered, which may be supplemented by courses in Germanic philology (Middle High German, History of the German language, and others). The doctoral program may be centered on literature or on philology as the student prefers, but not on one to the exclusion of the other. Potential candidates should consult Peter B. Gontrum for information about institutional and departmental requirements.

In addition to the regular Master of Arts degree, the department offers a program in German and in Russian for a Master of Arts degree in teaching. It provides the secondary-school teacher with an opportunity to study literature at the graduate level, to achieve competence in the written and spoken language, and to study and practice methods of presenting classroom material. The program in German offers the student the option of an eight-week summer course in Germany to be completed immediately after the nine-month session at the University. Alternative courses will be available during the regular University summer session for students who cannot travel abroad. The program also fulfills the State of Oregon requirements for the Standard Secondary Teacher's Certificate.

The Master of Arts program in Russian provides substantive training in Russian language, literature, and linguistics for students who wish to prepare for careers in teaching, research, translation, or government service. Creative imagination, a spirit of commitment to the Slavic field, and a knowledge of Russian sufficient for graduate work—usually three or more years of college work—are the principal prerequisites for admission. Candidates should acquire a reading knowledge of either French or German, preferably both, prior to admission or soon thereafter.

German

GL 50, 51, 52. First-Year German. 4 credit hours each term.

Designed to provide a thorough grammatical foundation and an elementary reading knowledge of German, as well as an understanding of the spoken language. Woods, staff.

GL 53, 54. First-Year German. 6 credit hours each term, winter and spring.

A two-term sequence covering the work of GL 50, 51, 52. For students who wish to begin German in the winter term.

GL 55, 56, 57. First-Year German "GUTEN TAG": Speaking. 2 credit hours each term.

Three-term sequence. Audiovisual first-year German course based on film series *Guten Tag* and incorporating the use of tapes, movies, slides, and small conversation groups. To complete the 4-credit hour foreign language requirement for the B.A. degree, students may in addition take the two-hour first-year German *Guten Tag*: Reading course (GL 80, 81, 82), below. Students enrolled in First-Year German (GL 50, 51, 52) may take *Guten Tag*: Speaking (GL 55, 56, 57) to supplement their studies, but may not enroll in the *Guten Tag*: Reading section (GL 80, 81, 82) for credit. Plant, staff.

GL 80, 81, 82. First-Year German "GUTEN TAG": Reading. 2 credit hours each term.

Three-term sequence. Reading and grammar section to accompany first-year German *Guten Tag: Speaking* (GL 55, 56, 57) above. Students enrolled in GL 55 above may take this course to meet the 4-credit hour foreign language requirements for the B.A. degree. Not open for credit to students in First-Year German (GL 50, 51, 52). Plant, staff.

GL 101, 102, 103. Second-Year German. 4 credit hours each term.

Review of grammar and composition; reading of selections from representative authors: conversation. Open to students who have completed GL 52 or GL 57 and GL 82, or the equivalent.

GL 110, 111, 112. Second-Year German "GUTEN TAG." 2-4 credit hours each term.

Three-term sequence. This course continues first-year German *Guten Tag* (both GL 57 and 82), but is open to all students who have taken first-year German (GL 52 or GL 54). The audiovisual part of this course may be taken separately for 2 hours of credit, and also by students enrolled in GL 101. Students wishing to meet the foreign language requirement for the B.A. degree or the Arts and Letters Group requirement must also take the two-hour reading section for a total of 4 hours of credit. Plant, staff.

GL 121, 122, 123. Conversational German. 2 credit hours each term.

Review of pronunciation rules, practice in reading aloud and in audio comprehension. Exercises in free speaking, acquisition of small but active vocabulary. Extensive use of motion pictures from German newsreel *Deutschlandspiegel* to feature-length films. Prerequisite: one year of college German, or consent of instructor. May not be taken in place of second-year German (GL 103 or GL 106) to satisfy the language requirement, but is recommended as a supplementary course for German majors. Plant.

GL 301, 302, 303. Survey of German Literature. 3 credit hours each term.

German literature from the Middle Ages to the twentieth century; readings from representative authors. Prerequisite: two years of college German, or consent of the instructor. Required for German majors. Woods, Gontrum.

AL 310, 311, 312. Introduction to German Literature. 3 credit hours each term.

Readings in German Literature in English: Goethe and Nietzsche; Kleist and Büchner. Schnitzler, Brecht, Kafka, Hesse, Thomas Mann, Dürrenmatt, Böll and Frisch. Lectures and class discussion. Maveety.

GL 321, 322, 323. German for Reading Knowledge. 3 credit hours each term.

Intensive practice in grammar, followed by the reading of texts in the student's major field. Intended principally for graduate students.

GL 324, 325, 326. Readings in Modern German Literature. 3 credit hours each term.

The study of the German language through the careful and accurate reading of German literature, mostly from the 20th century.

GL 334, 335, 336. German Composition and Conversation. 3 credit hours each term.

Extensive practice in speaking and writing. Required of Ger-

man majors. Conducted in German. Prerequisite: two years of college German.

GL 340, 341, 342. German Culture and Civilization. 3 credit hours each term.

Historical and political backgrounds of German literature and art. Prerequisite: reading knowledge of German. McWilliams.

GL 403. Thesis.

Credit hours to be arranged.

GL 405. Reading and Conference.

Credit hours to be arranged.

GL 409. Supervised Tutoring Practicum. 1-3 credit hours any term.

A no-grade course.

Upper-Division Courses Carrying Graduate Credit**GL 407. Seminar. (g)**

Credit hours to be arranged.

GL 411, 412, 413. The Age of Goethe. (G) 3 credit hours each term.

Readings in the main dramatic works of Lessing, Schiller, Kleist, and Goethe; Goethe's lyric poetry and selections from his prose. Prerequisite: Survey of German Literature.

GL 414, 415, 416. The Nineteenth-Century German Novelle. (G) 3 credit hours each term.

The theory and history of the *Novelle*. Readings of selected *Novellen* from Goethe to Fontane. Hahn.

GL 424, 425, 426. Advanced German Composition and Conversation. (G) 3 credit hours each term.

Systematic review of grammar; historical survey of the German language; translation of modern literary texts into German; writing of original themes. Conducted in German. Normally required of German majors.

GL 431, 432, 433. German Literature of the 20th Century. (G) 3 credit hours each term.

Study of the prose, poetry, and drama of the modern period. Particular attention to literary trends (naturalism, neoromanticism, expressionism, post-World War II literature) and experimental forms of the period. Emphasis on representative authors including Hauptmann, Thomas Mann, Hesse, Rilke, Kafka, Brecht.

GL 498. Applied German Phonetics. (G) 3 credit hours.

The articulatory basis of German pronunciation; analytic comparison of the sounds of German and English; diagnosis and remedy of common errors in American pronunciation of German. Required for teacher certification and for candidates for graduate degrees in German. Prerequisite: three years of college German, or consent of instructor. Plant.

Graduate Courses**GL 503. Thesis.**

Credit hours to be arranged. A no-grade course.

GL 505. Reading and Conference.

Credit hours to be arranged.

GL 507. Seminar.

Credit hours to be arranged.

GL 509. Supervised Tutoring Practicum. 1-3 credit hours any term.

A no-grade course.

GL 511, 512, 513. The German Lyric. 5 credit hours each term.

Study of German lyric poetry from the eighteenth century to the present, with readings from all major authors. Special emphasis on the *Lied* and the ballad and on the contemporary lyric poetry of George, Hofmannsthal, Rilke, Gontrom.

GL 514. Introduction to Middle High German. 5 credit hours.

Introduction to Middle High German grammar; emphasis on a nonhistorical description of the language of manuscripts. Plant.

GL 515, 516. Readings in Middle High German Literature. 5 credit hours each term.

Study of an entire work, in facsimile edition where available. Reading of manuscript, and some manuscript copying. Texts will include the *Nibelungenlied*, *Iwein*, the Manesse Codex, and other works of Middle High German literature as they become available in facsimile editions. Prerequisite for either course: GL 514. Plant.

GL 517, 518, 519. German Romanticism. 5 credit hours each term.

Readings in the works of Tieck, F. Schlegel, Novalis, Hoffman, Mörike, and Eichendorff. The concept of romantic poetry and its underlying philosophical ideas. The romantics' contributions to literary criticism. Prerequisite: Survey of German Literature (GL 301, 302, 303). Hahn.

GL 520. Research Methods in German. 3 credit hours fall term.

Bibliography and methods of research in German language and literature as an introduction to graduate study. Woods.

GL 524. German Literature of the Sixteenth Century. 5 credit hours.

Humanism and the Reformation as reflected in German literature. The influence of Luther. Readings in works by Hans Sachs, Fischart, and Brant, as well as typical *Volksbücher*. Woods.

GL 526. German Literature 1700-1750. 5 credit hours.

The German Enlightenment and its relation to the Enlightenment in England and France. Readings from works by Gottsched, Klopstock, Wieland, and other typical figures of the period. Woods.

GL 527, 528, 529. Goethe. 5 credit hours each term.

Comprehensive examination of Goethe's works, including an intensive study of *Faust*, and Goethe's aesthetic and critical views. Leppmann.

GL 530, 531. Old High German. 5 credit hours each term.

Nonhistorical description of the structure of Old High German; emphasis on syntax. Some reading of manuscripts. Representative selections from Old High German literature. Plant.

GL 532. Introduction to Gothic. 5 credit hours.

Introduction to Gothic grammar and script. Selected readings in the Gothic Bible, comparison with West-Germanic translations of corresponding passages of the New Testament. Of interest to students in Old English and Old Norse. Plant.

GL 533. Structure of Modern German. 5 credit hours.

Nonhistorical description of the structure of modern German;

emphasis on syntax. Introduction to modern German dialects. "East German" and "West German." Plant.

GL 534. History of New High German. 5 credit hours.

Grammar, orthography, and semantics of High German prose writings from the nineteenth century back to the ninth century, based on early newspapers, pamphlets, nature treatises, and religious tracts. Readings in the seminal works of German linguistic science. Plant.

GL 536. Lessing. 5 credit hours.

Detailed study of Lessing's dramas, his theoretical and philosophical writings, and his contribution to German classicism.

GL 537. Sturm und Drang. 5 credit hours.

The dramatic works of the Storm and Stress writers, and their contribution to a new understanding of literature.

GL 538. Schiller. 5 credit hours.

An intensive study of Schiller as a dramatist and poet, with particular consideration also of his important critical essays.

GL 539. Introduction to Old Saxon. 5 credit hours.

Introduction to Old Saxon grammar, with emphasis on syntactic structures; some manuscript readings; critical translation of major portions of *Heliand* and *Genesis*. Recommended for students in Old English. Plant.

GL 540, 541, 542. German Drama of the Nineteenth Century. 5 credit hours each term.

Analysis of the dramas of Kleist, Büchner, Grabbe, Grillparzer, and Hebbel; special emphasis on dramatic technique and on the individual contributions of these writers to the genre. Nicholls.

GL 543, 544, 545. Contemporary German Lyric. 5 credit hours each term.

Fall: Rilke; winter: George and Hofmannsthal; spring: Benn, Trakl, and contemporaries. Detailed and intensive study of these writers' poetry in terms of themes, form, and imagery. Gontrom.

GL 546, 547, 548. Modern German Novel. 5 credit hours each term.

Detailed study of individual writers: Thomas Mann, Hesse, Kafka, Musil, Grass, Frisch, or others. Emphasis on the nature of the genre and its gradual transformation as well as on narrative style and technique. Gontrom, Diller, Nicholls.

GL 550, 551, 552. Modern German Drama. 5 credit hours each term.

Fall: Gerhart Hauptmann, Arthur Schnitzler; winter: Wedekind and the Expressionists; spring: Brecht, Dürrenmatt, Frisch. Intensive study of the dramatic works of these writers, particularly in terms of new dramatic techniques. Gontrom.

GL 555, 556, 557. German Novel of the Nineteenth Century. 5 credit hours each term.

Detailed study of the novels of Jean Paul, Mörike, Immermann, Stifter, Keller, Raabe and Fontane. Emphasis on the *Bildungs* or *Erziehungsroman* through treatment of narrative structure and technique. Hahn.

GL 558. German Lyric of the Seventeenth Century. 5 credit hours.

Poetry by Weckerlin, Opitz, Spee, Dach, Gryphius, and Hofmannswaldau. Poetic theory of Opitz, Harsdörffer, and other theoreticians of the period. Woods.

GL 559. German Drama and Prose of the Seventeenth Century. 5 credit hours.

Dramas by Gryphius, Lohenstein, and Reuter. The baroque novel and the work of Grimmelshausen. Woods.

Russian

SL 50, 51, 52. First-Year Russian. 5 credit hours each term.

Elementary Russian grammar, reading, conversation, and composition. Beebe, staff.

SL 101, 102, 103. Second-Year Russian. 5 credit hours each term.

Intermediate Russian grammar, reading, conversation, and composition. Study of representative literary works. Rice, staff.

AL 313, 314, 315. Introduction to Russian Literature. 3 credit hours each term.

Russian literature from origins to 1917, with special emphasis on Pushkin, Gogol, Turgenev, Dostoevsky, Tolstoy, Chekhov, and others. All readings in English, but Russian majors are expected to do selected readings in the original. Leong, Rice.

SL 316, 317, 318. Third-Year Russian. 5 credit hours each term.

Intensive study in Russian of literary works by representative nineteenth- and twentieth-century writers, with extensive practice in speaking, writing, and comprehension. Prerequisite: two years of college Russian or equivalent. Buck.

SL 324. Russian Phonetics. 3 credit hours.

Scientific study of Russian sounds, rhythms, and intonation, with supervised individual practice. Beebe.

AL 340, 341, 342. Russian Culture and Civilization. 3 credit hours each term.

The comparative aesthetics and development of art, film, music, and literature within the context of Russian intellectual history. Leong.

SL 403. Thesis.

Credit hours to be arranged.

SL 405. Reading and Conference

Credit hours to be arranged.

SL 409. Supervised Tutoring Practicum. 1-3 credit hours any term.

A no-grade course.

Upper-Division Courses Carrying Graduate Credit

SL 407. Seminar. (G)

Credit hours to be arranged.

SL 416, 417, 418. Fourth-Year Russian. (G) 5 credit hours each term.

Stylistic analysis of advanced Russian literary texts with extensive practice in conversation, composition, and comprehension. Prerequisite: SL 311, 312, 313 or equivalent. Buck.

AL 420. Modern Russian Novel. (G) 3 credit hours.

Development of modern Russian novel, with emphasis on minor prose masters. Readings in English; Russian majors do selected readings in the original. Leong, Rice, Buck.

AL 421. Modern Russian Short Story. (G) 3 credit hours.

Development of Russian short story. All readings in English, but Russian majors are expected to do selected readings in the original. Rice.

AL 422. Modern Russian Poetry. (G) 3 credit hours.

Detailed study of Russian symbolism, acmeism, and futurism.

All readings in English, but Russian majors are expected to do selected readings in the original. Leong.

AL 423. Modern Russian Drama. (G) 3 credit hours.

Evolution of Russian drama. All readings in English, but Russian majors are expected to do selected readings in the original. Leong, Rice.

AL 424. Dostoevsky. (G) 3 credit hours.

Dostoevsky's intellectual and artistic development; context and structure of *The House of the Dead*, *Notes From the Underground*, *Crime and Punishment*, *The Idiot*, *The Brothers Karamazov*, and other works. All readings in English, but Russian majors are expected to do selected readings in the original. Leong, Rice, Buck.

AL 425. Tolstoy. (G) 3 credit hours.

Development and context of Tolstoy's art; analysis of *War and Peace*, *Anna Karenina*, representative short novels, stories, plays, and essays. All readings in English, but Russian majors are expected to do selected readings in the original. Leong.

AL 426. Gogol. (G) 3 credit hours.

Comprehensive study of Gogol's works; critical analysis of *Evenings on a Farm near Dikanka*, *Mirgorod*, Petersburg tales, *The Inspector General* and other plays, *Dead Souls*. Readings in English; Russian majors do selected readings in the original. Rice.

AL 427. Turgenev. (G) 3 credit hours.

Literary development and context of Turgenev's art; analysis of novels *Rudin*, *A Nest of Gentlefolk*, *On the Eve*, *Fathers and Sons*, *Smoke*, *Virgin Soil*, stories, plays, and critical essays. Readings in English; Russian majors do selected readings in the original. Rice.

AL 428. Chekhov. (G) 3 credit hours.

Critical study of Chekhov's art; structure, style, and development of representative prose fiction and plays, including *The Seagull*, *Uncle Vanya*, *Three Sisters*, *The Cherry Orchard*. Readings in English; Russian majors do selected readings in the original. Rice, Buck.

AL 429. Soviet Russian Literature. (G) 3 credit hours.

Major developments in Russian literature since 1917; theory and practice of "socialist realism"; critical analysis of representative works by Gorky, Sholokhov, Pasternak, Babel, Olesha, Mayakovsky, Bulgakov, Zoshchenko, Solzhenitsyn, and others. Readings in English; Russian majors do selected readings in the original. Leong, Buck.

SL 440, 441, 442. Structure of Russian. (G) 3 credit hours each term.

Phonetics, grammatical and syntactical patterns of standard contemporary Russian. Beebe.

Graduate Courses

SL 503. Thesis.

Credit hours to be arranged. A no-grade course.

SL 505. Reading and Conference.

Credit hours to be arranged.

SL 507. Seminar.

Credit hours to be arranged.
Russian Literary Criticism.

SL 509. Supervised Tutoring Practicum. 1-3 credit hours any term.

A no-grade course.

SL 520. Research Methods in Russian. 5 credit hours.

Bibliography and research methods in the graduate study of Russian literature. Leong, Rice.

SL 521. Old Russian Literature. 5 credit hours.

An introductory discussion of the system of literary genres in Kievan Rus', with attention to the subsequent development of that system, its bonds with oral poetry and other aesthetic forms, and its significance for modern Russian civilization. Conducted in English with selected close readings in Old Russian. Offered alternate years. Rice.

SL 522. Russian Folklore. 5 credit hours.

An introductory discussion of Russian folklore, primarily verbal art, in its social and aesthetic functions, with special attention to the paradigmatic eighteenth-century collection attributed to Kirsha Danilov and to various literary adaptations of folklore forms. Conducted in English with readings in Russian. Offered alternate years. Rice.

SL 523. Eighteenth-Century Russian Literature. 5 credit hours.

An introductory discussion of the refashioning of Russian poetic imagination in response to the simultaneous discoveries of classical antiquity, the Renaissance, French neoclassicism, the Enlightenment, Russian history, and new aesthetic values in the Russian vernacular and oral poetry. Conducted in English with selected close readings in Russian. Offered alternate years. Rice.

SL 524. Pushkin. 5 credit hours.

Detailed study of Pushkin's narrative and lyric poetry, dramas, prose fiction, folk stylizations, and *Evgenij Onegin*, with special attention to his poetics and its influence on the subsequent development of Russian literature. Conducted in English with all readings in Russian. Leong.

SL 540. Old Church Slavonic. 3 credit hours.

History and grammar of Old Church Slavonic; sound system, morphology, and elements of syntax. Reading of texts. Beebe.

SL 541, 542. History of Russian. 3 credit hours each term.

Survey of East Slavic phonology and morphology from Common Slavic to the present. Dialectal divergence in Old Russian and the modern literary languages. Dialects of East Slavic. Reading of Old and Middle Russian texts. Beebe.

Scandinavian

GL 60, 61, 62. First-Year Norwegian. 3 credit hours each term.

Designed to give a thorough grammatical foundation in idiomatic Norwegian, with emphasis on both the reading and the speaking of the language. Weatherhead.

GL 70, 71, 72. First-Year Swedish. 3 credit hours each term.

Designed to give a thorough grammatical foundation in idiomatic Swedish, with emphasis on both the reading and the speaking of the language.

GL 104, 105, 106. Second-Year Norwegian. 3 credit hours each term.

Review of grammar, composition, conversation; study of selections from representative authors. Weatherhead.

GL 107, 108, 109. Second-Year Swedish. 3 credit hours each term.

Review of grammar, composition, conversation; study of selections from representative authors.

AL 351, 352, 353. Scandinavian Literature in Translation. 3 credit hours each term.

Outstanding works of Scandinavian literature, studied in translation, although students who can be encouraged to read in the original language. Prerequisite: upper-division standing.

Slavic

Upper-Division Courses Carrying Graduate Credit

SL 480, 481, 482. First-Year Serbo-Croatian. (G) 4 credit hours each term.

Elementary Serbo-Croatian grammar, conversation, reading, and composition. Prerequisite: two years of Russian or equivalent.

SL 483, 484, 485. First-Year Polish. (G) 4 credit hours each term.

Elementary Polish grammar, conversation, reading, and composition. Prerequisite: two years of Russian or equivalent.

SL 486, 487, 488. First-Year Czech. (G) 4 credit hours each term.

Czech grammar, reading, and composition. Prerequisite: two years of Russian, or equivalent.

SL 490, 491, 492. First-Year Ukrainian. (G) 4 credit hours each term.

Elementary Ukrainian grammar, reading, and composition. Prerequisite: two years of Russian, or equivalent.

History

Faculty

- Department Head, Raymond Birn, Ph.D., Professor of History (European history, 1600-1815). A.B., New York University, 1956; M.A., 1957, Ph.D., 1961, University of Illinois; at Oregon since 1961.
- Gustave Alef, Ph.D., Professor of History (medieval Russian). B.A., 1949, M.A., 1950, Rutgers; M.A., 1952, Ph.D., 1956, Princeton; at Oregon since 1956.
- Robert M. Berdahl, Ph.D., Associate Professor of History (Germany). B.A., Augustana, 1959; M.A., Illinois, 1961; Ph.D., Minnesota, 1965; at Oregon since 1967.
- Edwin R. Bingham, Ph.D., Professor of History (cultural American history—Pacific northwest). B.A., 1941, M.A., 1942, Occidental; Ph.D., California at Los Angeles, 1951; at Oregon since 1949.
- Thomas A. Brady, Ph.D., Assistant Professor of History (renaissance and reformation). B.A., Notre Dame, 1959; M.A., Columbia, 1963; Ph.D., Chicago, 1968; at Oregon since 1967.
- Quirinus Breen, Ph.D., Professor Emeritus of History. A.B., Calvin, 1920; Ph.D., Chicago, 1931; at Oregon since 1938.
- Roger P. Chickering, Ph.D., Assistant Professor of History (Germany—20th century). B.A., Cornell, 1964; M.A., 1965, Ph.D., 1968, Stanford; at Oregon since 1968.
- Leslie Decker, Ph.D., Professor of History (American economic history). B.A., Maine, 1951; M.A., Oklahoma State, 1952; Ph.D., Cornell, 1961; at Oregon since 1969.
- Paul S. Dull, Ph.D., Professor Emeritus of History. B.A., 1935, Ph.D., 1940, Washington; at Oregon since 1946.
- Joseph W. Esherick, Ph.D., Assistant Professor of History (China.) B.A., Harvard, 1964; M.A., 1966, Ph.D., 1971, California, Berkeley; at Oregon since 1971.
- Mark Falcoff, Ph.D., Assistant Professor of History (Latin America). B.A., Missouri, 1963; M.A., 1969, Ph.D., 1970, Princeton; at Oregon since 1971.
- G. Ralph Falconeri, Ph.D., Associate Professor of History (modern Japan). B.A., Nevada, 1949; M.A., 1958, Ph.D., 1967, Michigan; at Oregon since 1963.
- Thomas P. Govan, Ph.D., Professor of History (early national). B.S., Georgia Institute of Technology, 1928; M.A., Emory, 1934; Ph.D., Vanderbilt, 1937; at Oregon since 1967.
- William S. Hanna, Ph.D., Associate Professor of History (colonial America). A.B., 1949, M.A., 1954, Ph.D., 1959, California, Berkeley; at Oregon since 1965.
- Paul S. Holbo, Ph.D., Professor of History (American foreign relations). B.A., Yale, 1951; M.A., 1955, Ph.D., 1961, Chicago; at Oregon since 1959.
- R. Alan Kimball, Ph.D., Associate Professor of History (modern Russia). B.A., Kansas, 1961; M.A., 1963, Ph.D., 1967, Washington; at Oregon since 1967.
- Robert G. Lang, Ph.D., Associate Professor of History (Tudor and Stuart England). A.B., Columbia, 1955; D.Phil., Oxford, 1963; at Oregon since 1964.

- Jerzy Linderski, Ph.D., Professor of History (ancient history). M.A., 1955, Ph.D., 1960, Cracow; at Oregon since 1971.
- Val R. Lorwin, Ph.D., Professor of History (France—social and economic). B.A., Cornell, 1927; M.A., Ohio State, 1929; Ph.D., Cornell, 1953; at Oregon since 1957.
- Jack P. Maddex, Ph.D., Associate Professor of History (Civil War). B.A., Princeton, 1963; Ph.D., North Carolina, 1966; at Oregon since 1966.
- Stanley A. Pierson, Ph.D., Professor of History (cultural and intellectual European). B.A., Oregon 1950; A.M., 1951, Ph.D., 1957, Harvard; at Oregon since 1957.
- Earl Pomeroy, Ph.D., Beekman Professor of Northwest and Pacific History (20th-century American). B.A., San Jose State, 1936; M.A., 1937, Ph.D., 1940, California; at Oregon since 1949.
- Kenneth W. Porter, Ph.D., Professor Emeritus of History. B.A., Sterling, 1926; M.A., Minnesota, 1927; Ph.D., Harvard, 1936; at Oregon since 1958.
- Robert W. Smith, Ph.D., Professor of History (modern Britain). B.A., Chicago, 1937; M.A., 1940, Ph.D., 1942, California at Los Angeles; at Oregon since 1947.
- Lloyd Sorenson, Ph.D., Professor of History (history of civilization). B.A., North Dakota, 1938; M.A., 1945, Ph.D., 1947, Illinois; at Oregon since 1947.

Undergraduate Studies

THE STUDY of history offers both a framework for a liberal education and a broad foundation for a variety of careers—teaching and research, law, journalism, foreign service, government, business, the ministry, librarianship. It provides a context of historical knowledge essential for an understanding of the contemporary world. Through analyzing interpretative studies and accounts by witnesses to historical events, students appreciate more fully the complexity of human experience. By examining social changes in other times, they develop a broad perspective and the ability to weigh evidence and argument that free men need in a rapidly changing world.

The Department of History offers programs sufficiently structured to guide the student, yet flexible enough to encourage the development of individual interests. The department strongly urges upon history students the importance of mastering foreign languages in order to use foreign languages in their studies, read more widely, and meet entrance requirements for graduate schools. Upon deciding to major in history, students must get approval of their program from department advisers, who are available for periodic review. They may choose one of the three options presented below.

History courses that satisfy department major requirements must be taken on a graded basis.

Option One: The General Major in History. This option is recommended for students who want a balanced program of historical study; it combines a wide range of courses with special-

ized inquiry by means of departmental seminars and colloquia. The department strongly recommends satisfying University requirements for the Bachelor of Arts degree. Specific requirements are as follows:

- (1) Satisfaction of the University requirements for the Bachelor of Arts or the Bachelor of Science degree.
- (2) Forty-five credit hours in history courses, of which 27 must be upper-division, including at least 12 credit hours in courses numbered 400 to 499. Students who have not taken Western Civilization are required to complete 6 credit hours of work in history before 1800.
- (3) Six hours of upper-division credit in each of three fields selected from the following: (a) European history before 1600; (b) European history after 1600; (c) United States history; (d) Far Eastern or Latin American history.
- (4) History 407 Seminar; or History 408 Colloquium and 2 credit hours in History 405, Reading and Conference resulting in a research paper; or 2 credit hours in History 405 to complete a research paper written in conjunction with a 400 level course.

Option Two: The History Major with a concentration on a time period, a geographical area, or an important theme. In these programs, courses outside of history which relate to the student's theme, period, or area will be an integral part of the program. Examples of such programs are available in the departmental office. A student pursuing a program of this kind will need the continuing guidance of a faculty member. Specific requirements are as follows:

- (1) Satisfaction of the University requirements for the Bachelor of Arts degree.
- (2) No later than the second term of the junior year, the student and adviser will plan a program of courses in history and related fields centering upon the study of a theme, period, or area and submit it to the department for approval. A thematic approach may, for example, focus on revolutions, warfare, the city, or the development of science; a period approach may concentrate on a span of time in one country such as post-Meiji Japan or colonial America, or in several countries as in the study of Early Modern Europe; an area approach may deal with the common historical problems found, for example, in Latin America, or Central and Eastern Europe, or the Atlantic Community.

Option Three: The History Major with a Secondary Certificate in Social Studies. The specific requirements are as follows:

- (1) Satisfaction of the University requirements for the Bachelor of Arts or Bachelor of Science degree.
- (2) Forty-five credit hours in history courses of which 27 must be upper-division, including at least 12 credit hours in courses numbered 400-499. Upper-division courses are distributed as follows: (a) 9 credit hours in European history; (b) 9 credit hours in United States history; (c) 9 credit hours in Asian, African, or Latin American history. (With the approval of the adviser, nine credit hours of upper-division anthropology, geography, political science, religion, or art history courses dealing with Asia, Africa or Latin America, may be substituted for history courses in meeting this requirement and will count toward the major.) (d) History 407 Seminar; or History 408 Colloquium and 2 credit hours in History 405 Reading and Conference resulting in a research paper; or 2 credit hours in History 405 to complete a research paper written in conjunction with a 400-level course.
- (3) Additional work in other social sciences and professional education to satisfy requirements for a basic secondary certificate in social studies. For certification as a teacher of social studies in Oregon high schools, the Oregon Board of Education requires

- (1) the satisfaction of certain minimum standards of subject preparation;
- (2) the satisfaction of certain minimum standards of professional education preparation; and
- (3) the recommendation of the institution at which the student completes the subject preparation. For details see the special adviser for teacher education in the Department of History or the Office of Student Teaching and Teacher Certification in the College of Education.

History Scholars Program. Each year the department will invite a small number of students, in their junior year or at the beginning of their senior year, both from within and from outside the Honors College, to participate in the History Scholars Program. They may come from any one of the three options indicated above. As "history scholars" they will have the opportunity for independent study, which will normally lead to a substantial research paper or interpretative essay.

Graduate Studies

The department offers graduate instruction leading to the degrees of Master of Arts and Doctor of Philosophy. For the M.A. degree, the student concentrates work in three of the following fields: (1) Ancient, (2) Medieval, (3) Renaissance and Reformation, (4) Early Modern Europe to 1815, (5) Europe 1789-1914, (6) Europe Since 1870, (7) United States to 1865, (8) United States Since 1850, (9) Great Britain Since 1485, (10) Russian, (11) The Far East, (12) Latin America. At least one field must be chosen from (1), (2), (3), (4), (11), or (12). Of the 45 credit hours for the degree, 9 must be in courses numbered 507 or above. The student may either follow a thesis program, which includes a final oral examination covering the thesis and three fields of history, or a nonthesis program, which requires two research papers and oral and written examinations in three fields of history.

For the Ph.D. degree, the student must pass an oral qualifying examination at the time of registration. The candidate must pass reading examinations in two foreign languages, comprehensive examinations in four of the above fields of history (a related field outside history, or a field designed especially for the individual program may be substituted for standard fields above), and complete 18 credit hours of research seminars. Every candidate must take either a minor or supporting work in a related field outside the field of history. The dissertation must show evidence of originality and ability in independent investigation.

Hst 101, 102, 103. History of Western Civilization. 3 credit hours each term.

An introduction to the historical development of the Western world. Lectures and readings deal with the major changes in value systems, ideas, social structures, economic institutions, and forms of political life. Fall: Ancient and Medieval societies; winter: from the Renaissance to Napoleon; spring: nineteenth and twentieth centuries.

Hst 107, 108, 109. History (Honors College). 3 credit hours each term.

Significant events, ideas, and institutions in the development of Western civilization.

Hst 201, 202, 203. History of the United States. 3 credit hours each term.

The development of the American political and cultural tradi-

tion with an emphasis on those issues and themes that show how the present is connected with the past. Fall: Puritanism and Revolution, The Enlightenment and Romanticism; winter: Expansion, Disunion, Reconstruction, and the Gilded Age; spring: War, Peace, Politics and Social Change in the Twentieth Century.

Hst 207. Origins of World Civilizations. 3 credit hours.

Origins of civilization in the Middle East; proliferation of civilizations in the Mediterranean area, the Indian sub-continent, and China; comparison of civilizations in their classic forms. Sorenson.

Hst 208. Era of Western Imperialism. 3 credit hours.

Emergence of Western competitive superiority; imperialist expansion of the West in Africa and Asia; impact of Western Civilization upon the civilizations of Eurasia and the peoples of Sub-Sahara Africa. Sorenson.

Hst 209. Century of World Crisis. 3 credit hours.

Wars and revolutions of the twentieth century; decline of Western Imperialism; emergence of new African nations; re-emergence of Asian civilizations. Sorenson.

Hst 216. War and the Modern World. 3 credit hours.

The impact of war and preparation for war on the development of society and politics; the impact of social and political developments on the conduct of military affairs in the nineteenth and twentieth centuries. Chickering.

Hst 221, 222, 223. Afro-American History. 3 credit hours each term.

Survey of African civilizations; the slave trade; development of the blacks, free and slave, as a subculture.

Hst 291. China, Past and Present. 3 credit hours.

An introduction to key aspects of traditional and contemporary China, structured around the problem of continuity and change. Chinese values and social structure, both Confucian and Communist; the Chinese state system, under the Emperors and under Mao Tse-tung; the family village, city, economy, and foreign relations of China in both traditional and contemporary times. Esherick.

Hst 292. Japanese Society Past and Present. 3 credit hours.

A first introduction to Japanese culture emphasizing persistence and change in value and social behavior. Topical and analytical approach stressing interdependence of peculiarly Japanese institutions and processes for understanding this unique people. Falconeri.

Hst 301, 302, 303. Europe Since 1789. 3 credit hours each term.

Political, social, economic, and cultural trends from the French Revolution to the present. Fall: 1789 to 1870; winter: 1870 to 1918; spring: 1918 to the present. Berdahl, Pierson.

Hst 304, 305, 306. English History. 3 credit hours each term.

A survey of British history from Roman times to the 20th century. Fall: institutional, constitutional, and economic development of England from the Romano-British period to the 16th century. Winter: political, religious, economic, and social change from the Tudor age to the Industrial Revolution. Spring: the Victorian age and the 20th century with emphasis upon the background of modern Britain's social and economic problems and position in Europe and the world. Lang, Smith.

Hst 307. Radicalism in Early American History. 3 credit hours.

Radical challengers of the established order in church and

state: the Puritans, the eighteenth-century revolutionaries, and the nullifiers. Govan.

Hst 308. Radicalism in Nineteenth and Twentieth Century American History. 3 credit hours.

The abolitionists, the communal experiments, anarchists, Marxists, and their opponents. Govan.

Hst 321. History of American Foreign Relations since 1945. 3 credit hours.

Intensive study of American foreign relations since World War II. Holbo.

Hst 324, 325, 326. Byzantium and the Slavs. 3 credit hours each term.

Fall: from Rome to Byzantium, 284-610; winter: the Byzantine Apogee, 610-1071; spring: Byzantium and the Slavs. Offered alternate years. Alef.

Hst 350, 351, 352. Hispanic America. 3 credit hours each term.

A three-part survey of Latin American history emphasizing major economic, political, and cultural trends and continuities. The first term deals with the background and colonial period; the second, problems of nationhood in the nineteenth century; the third, developments since 1914. Falcoff.

Hst 363. History of Canada. 3 credit hours.

A survey of the growth of Canada from colony to nation. Emphasis on British and French influences, relations with the United States, the backgrounds of constitutional, economic and cultural problems of Canada today. Smith.

Hst 391, 392, 393. Far East in Modern Times. 3 credit hours each term.

Political, economic, and diplomatic history of China, Japan, and Korea, with some attention to Asiatic Russia and the Philippines, from the middle of the nineteenth century to the present.

Hst 403. Thesis.

Credit hours to be arranged. A no-grade course.

Hst 405. Reading and Conference.

Credit hours to be arranged.

Hst 407. Seminar.

Credit hours to be arranged.

Hst 408. Colloquium.

Credit hours to be arranged.

Hst 409. Supervised Tutoring Practicum. 1-3 credit hours any term.

A no-grade course.

Upper-Division Courses Carrying Graduate Credit

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

Political, social, and cultural history of the Hellenic world from the Mycenaeans to Alexander the Great. Linderski.

Hst 412, 413. History of Rome. (G) 3 credit hours each term.

Winter: political, social, and constitutional history of Rome from its earliest beginnings to the end of the Republic; spring: the period of the Empire. Linderski.

Hst 421, 422, 423. Middle Ages. (G) 3 credit hours each term.

History of Europe from the decline of the Western Roman Empire to the Renaissance. Fall: to the Carolingians; winter: to 1100; spring: to 1300.

Hst 424, 425. Early Modern Europe. (G) 3 credit hours each term.

The seventeenth century (Hst 424) and the eighteenth century (Hst 425). Birn.

Hst 430, 431. Renaissance. (G) 3 credit hours each term.

Fall: the Renaissance in Italy; winter: the northern Renaissance. Brady.

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

The Protestant and the Roman Catholic reforms of the sixteenth century. Brady.

Hst 434, 435. Making of the Western Mind. (G) 4 credit hours each term.

Intensive study of selected ideas and institutions that have influenced the history of Western civilization. Sorenson.

Hst 436, 437. History of Germany. (G) 3 credit hours each term.

First term: from the Peace of Augsburg (1555) to the death of Frederick the Great (1786). Second term: to the fall of Bismarck (1890). Berdahl.

Hst 438. Germany in the Twentieth Century. (G) 3 credit hours.

Domestic tension and outward pressure during the Wilhelmine empire; the German Revolution; the Weimar Republic; National Socialism; Germany since 1945. Chickering.

Hst 439, 440. Cultural and Intellectual History of Modern Europe. (G) 4 credit hours each term.

Major issues in the cultural and intellectual life of Europe since 1800. Concentration on the interaction between meta-physical inquiry, aesthetic expression, and social or political experience. Pierson.

Hst 441, 442, 443. History of France. (G) 3 credit hours each term.

Hst 441: Old Regime, revolutionary and Napoleonic era, nineteenth century to 1870; Hst 442: Third Republic, 1870-1940; Hst 443: since 1940. Birn, Lorwin.

Hst 444, 445. Twentieth-Century Europe. (G) 3 credit hours each term.

Political, socio-economic, military, diplomatic, and intellectual aspects of European history since 1900. Stresses the European responses to the two world wars and the depression. First term covers up to 1929; the second term, to the present. Chickering.

Hst 447, 448, 449. History of Russia. (G) 3 credit hours each term.

Fall: the Kievan state and the emergence of Muscovy; winter: creation of the Russian Empire, political, social and economic developments; spring: revolutionary Russia, 1861 to the present. Alef, Kimball.

Hst 450. History of Spain. (G) 3 credit hours.

Institutional, social, and cultural history of Spain from 711 to the present, with emphasis on the periods from Alfonso X to Philip II and from Philip V to Franco. Falcoff.

Hst 452, 453. The Russian Revolution. (G) 3 credit hours each term.

First term: the origins of the revolution; transition and instability in pre-revolutionary Russia. Second term: the consequences of the revolution; the place of the 1917 revolution in the European revolutionary tradition. Offered alternate years. Kimball.

Hst 454, 455, 456. Economic History of Modern Europe. (G) 3 credit hours each term.

The economic development and economic institutions of modern Europe. Fall: from the beginning of the sixteenth century to the beginnings of the Industrial Revolution in Britain; winter: late eighteenth century to end of nineteenth century; spring: twentieth century. Lorwin.

Hst 457, 458, 459. The Era of American Sectional Conflict. (G) 3 credit hours each term.

The United States during the nineteenth century, focusing on the origins, events, and effects of the sectional conflict whose military phase was the Civil War. Fall: from Jefferson to Polk; winter: sectional crisis and civil war; spring: Reconstruction and the late nineteenth century. Maddex.

Hst 460, 461, 462. History of American Thought and Culture. (G) 3 credit hours each term.

Main currents of American intellectual and cultural life from colonial times to the present. Prerequisite: Hst 201, 202, 203, or consent of the instructor. Bingham.

Hst 464. History of Mexico. (G) 3 credit hours.

A survey of Mexican history from 1810 to 1946. Special attention is given to the problems of nationhood, economic development, church-state relations, the quest for a Mexican identity, and the origins and course of the Revolution of 1910. Falcoff.

Hst 465. Cuba in the Modern World. (G) 3 credit hours.

A survey of Cuban history from the fall of Havana to the British in 1762 to the Missile Crisis of 1962. Special emphasis is given to the development of social and economic institutions—monoculture, slavery, economic dependency on outside areas—and to the intellectual and cultural tensions in the late nineteenth and twentieth centuries. Falcoff.

Hst 466. Tudor England. (G) 3 credit hours.

The political, social, economic, and intellectual development of England through the reigns of the Tudor sovereigns, 1485-1603. Lang.

Hst 468. Victorian England. (G) 3 credit hours.

Social, political, economic, and intellectual history of England from 1815 to 1900. Smith.

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

A study of British society as it changed from laissez-faire liberalism to increasing governmental concern with economic growth, public education, public health and welfare; the rise of labor; the consequences of two world wars and the loss of an empire for Britain's international position. Smith.

Hst 470, 471. Social Factors in American History. (G) 3 credit hours each term.

Effect of the varied character of the population on American history and culture. First term: national and racial influences; second term: religious factors. Porter.

Hst 472. The Negro in American History. (G) 5 credit hours.

Afro-American history from West Africa in the days of the slave trade to the "black revolution" of the 1960s.

Hst 473, 474, 475. American Foreign Relations. (G) 3 credit hours each term.

The character and consequences of American foreign policies. Fall: from the Revolution to the Civil War; winter: to World War I; spring: through World War II. Segments are independent. Holbo.

Hst 476, 477. History of the West. (G) 3 credit hours each term.

The American frontier. First term: the early American frontier; second term: the Great Plains and the Far West. Porter, Pomeroy.

Hst 478. History of the Pacific Northwest. (G) 3 credit hours.

Detailed study of the building of civilization in the Pacific Northwest. Prerequisite: Hst, 201, 202, or consent of instructor. Bingham.

Hst 480, 481. The United States in the Twentieth Century. (G) 4 credit hours each term.

First term: to 1936; second term: since 1936. Pomeroy.

Hst 484, 485, 486. Early History of the American People. (G) 3 credit hours each term.

An examination of social and cultural developments during the first half of American history. A combination of lectures, independent study and discussion seminars. Fall: 17th century; winter: first half of 18th century; spring: 1763-1790. Hanna.

Hst 487, 488. American Economic History. (G) 5 credit hours each term.

The economic development of the United States. First term: pre-industrial America; second term: industrial and post-industrial economy. Decker.

Hst 491. The Era of Jefferson and Hamilton. (G) 4 credit hours.

The conflicting ideologies of these early leaders of the American nation, their differing political and economic theories, and their effect on subsequent developments. Govan.

Hst 492. The Era of Jackson. (G) 4 credit hours.

The triumph of the Jeffersonian ideology during the administrations of Andrew Jackson, and the consequences. Govan.

Hst 494, 495, 496. History of China. (G) 3 credit hours each term.

Fall: from the city-state of Shang through the feudal age to the cultural, economic and bureaucratic heights of the Sung (960-1279); winter: quickly through the Mongols and the Ming to a consideration of the impact of imperialism in the Ch'ing (1644-1911); spring: the Chinese revolutionary experience in the twentieth century. Esherick.

Hst 497, 498, 499. History of Japan. (G) 3 credit hours each term.

Fall: 660 B.C. to 1600; mythology, Shinto, Buddhism, courtly aesthetics and the warrior in the formation of a unique cultural tradition; winter: to World War I; confrontation with the West, emergence from isolation, Japanese imperialism; spring: to the present; democracy, ultranationalism and the New Order, World War II disaster, U.S. occupation, and postwar surge to superstate status. Falconeri.

Graduate Courses**Hst 501. Research.**

Credit hours to be arranged.

Hst 502. Supervised College Teaching.

Credit hours to be arranged.

Hst 503. Thesis.

Credit hours to be arranged. A no-grade course.

Hst 505. Reading and Conference.

Credit hours to be arranged.

Hst 507. Seminar.

Credit hours to be arranged.

Greek and Roman History. Linderski.

European History: French. Lorwin, Birn.

European History: English Eighteenth and Nineteenth Centuries. Smith.

European History: English Sixteenth and Seventeenth Centuries. Lang.

European History: Medieval Russia. Alef.

European History: Cultural and Intellectual. Pierson.

European History: Modern Russia. Kimball.

European History: Social and Economic. Lorwin.

European History: German. Berdahl, Chickering.

United States History: Colonial. Hanna.

United States History: Early National. Govan.

United States History: American Biography. Bingham.

United States History: Diplomatic. Holbo.

United States History: Economic. Decker.

American Negro. Porter.

U.S. Recent. Pomeroy.

East Asian History. Esherick, Falconeri.

Latin American History. Falcoff.

Historical Theory. Sorenson.

Hst 508. Colloquium.

Credit hours to be arranged.

Ancient History. Linderski.

Middle Ages.

Renaissance and Reformation. Brady.

Seventeenth-Century England. Lang.

Medieval Russia. Alef.

Byzantium. Alef.

Modern Russia. Kimball.

Age of Enlightenment. Birn.

German History. Berdahl, Chickering.

Interpretations of American History. Hanna, Porter.

Early National. Govan.

Southern History. Maddex.

American Diplomacy. Holbo.

American Economic History. Decker.

Interpretations of Latin-American History. Falcoff.

Japanese History. Falconeri.

Chinese History. Esherick.

Historiography. Birn, Sorenson.

Hst 509. Supervised Tutoring Practicum. 1-3 credit hours any term.

A no-grade course.

Home Economics

Faculty

Department Head, Margaret J. Wiese, M.A., Associate Professor of Home Economics (foods and nutrition). B.S., Iowa State, 1941; M.A., Iowa, 1945; at Oregon since 1947.

Faith E. Johnston, M.S., Assistant Professor Emeritus of Home Economics. B.S., Kansas State College (Pittsburg), 1929; M.S., Kansas State, 1933; at Oregon since 1947.

Lois N. Person, M.S., Assistant Professor of Home Economics (clothing and textiles). B.S., North Dakota State, 1948; M.S., Cornell, 1950; at Oregon since 1959.

Frances VanVoorhis, M.S., Assistant Professor of Home Economics (consumer economics, family finance, home management, child care). B.S., Minnesota, 1932; M.S., Iowa State, 1949; at Oregon since 1944.

Mabel Wood, M.S., Professor Emeritus of Home Economics. B.S., Oregon State, 1925; M.S., Columbia, 1930; at Oregon since 1932.

THE Home Economics Department offers courses which relate closely to daily living through personal or community involvement. These courses are open to all students on the campus, both men and women, except where otherwise designated.

The University does not offer major work in home economics; in the Oregon State System of Higher Education, major studies in the field are allocated to the School of Home Economics at Oregon State University. Lower-division instruction in home economics offered at the University of Oregon and at Oregon State University is similar. Students intending to major in the field may spend their freshman and sophomore years at the University of Oregon, and transfer to Oregon State University at the beginning of the junior year. Such a transfer requires careful program planning with a staff member in the Department of Home Economics.

Secondary-School Teaching of Home Economics. For certification as a teacher of home economics in Oregon high schools, the Oregon Board of Education requires (1) the satisfaction of certain minimum standards of subject preparation and (2) the recommendation of the institution at which the student completes subject preparation.

The student may receive an endorsement in home economics as a second teaching field from the University of Oregon only when he or she also completes a teaching major in some other area. This endorsement requires completion of 36 specified credit hours in six areas of home economics. For further information, the student should consult the member of the home economics faculty who serves as adviser for prospective teachers.

Since the department is in the process of reorganization, changes may occur in course content and offerings which do not appear in the following list. Please consult a current *Time Schedule* for more recent information.

HEc 121. Clothing Construction. 2 credit hours.

Study and application of the principles of clothing construction. Pattern alteration, fitting, fabric choices, use and care of equipment. Adapted to level of individual student. No experience necessary. Two two-hour laboratories each week. Special Note: One section may be reserved for MEN ONLY or COED with emphasis upon special techniques for the inexperienced.

HEc 122. Clothing Construction. 2 credit hours.

Construction of a dress from fashion fabric. Experience with manmade fibers, dressmaking techniques, design choices. A lesser second project adapted to student's interest and need. Two two-hour laboratories each week. Prerequisite: HEc 121.

HEc 123. Clothing Construction. 3 credit hours.

Principles of tailoring applied to planning and making a tailored wool suit or coat. Two three-hour laboratories each week. Prerequisite: HEc 121 and 122.

HEc 127. Textiles. 3 credit hours.

Fabrics and fibers in contemporary environments. New developments in natural and synthetic textiles. Special emphasis on design, color, structure, adaptability, cost, and care. Study of actual examples, illustrated lectures, individual interest survey or report, community demonstrations.

HEc 128. Clothing Selection. 3 credit hours.

Analysis of design and colors for various figure and personality types. Consideration of consumer responsibility and the significance of clothing and personal appearance in relation to the world today and to the past. Readings from *Women's Wear Daily* and other current periodicals.

HEc 222. Family Relations. 3 credit hours.

Psychological and functional aspects of interpersonal relationships within a family environment. Emphasis on development of the person, male-female role expectations and human sexuality. Reading from contemporary literature. Seventy-five-minute lecture. Seventy-five-minute small group discussions with an opportunity to develop interpersonal and communication skills. Required field visit to a community agency dealing with family concerns. Open to all undergraduate men and women.

HEc 225. Nutrition. 3 credit hours.

The science of food and its relationship to health. Introduction to the nutrient functions, sources, and requirements of humans. Factors affecting nutrient availability. Discussion of current dietary trends and their implications.

HEc 226, 227, 228. Foods. 3 credit hours each term.

HEc 226. Introductory principles of meal management, including adequacy of dietary intake, consumer aspects of food selection. Basic and creative food preparation to insure optimum retention of nutrient values and palatability as related to fruits, vegetables, cereals and grains, milk, eggs.

HEc 227. The effects of culture on food selection and preparation considering ethnic, regional, vegetarian and international foods; comprehensive study of the art of baking; community projects.

HEc 228. Advanced meal management and preparation; emphasis on food budgets, aesthetic factors, animal and vegetable proteins; food preservation.

HEc 250. Meal Management for Men. 1 credit hour.

Basic principles of meal planning, food preparation and time management with laboratory applications. Preparation of simple meals. One three-hour laboratory period. Open to men only.

HEc 325. Child Care. 3 credit hours.

Physical, motor, intellectual, emotional, and social development of the pre-school child studied against the background of home and family with emphasis on concepts of child rearing.

HEc 331. Home Planning and Furnishings. 3 credit hours.

Contemporary shelters—apartments, mobile home, condominiums, single houses—and their influence upon natural surroundings. Inspection and discussion of interiors and furnishings according to principles of design, historical developments, materials, economic values, and care. Field trips, illustrated discussions and lectures, development of personalized shelter plan. Sophomore standing required.

HEc 339. Household Management. 3 credit hours.

Philosophy of homemaking; management principles applied to home living; kitchen planning; choice, use and case of basic household equipment.

HEc 340. Consumer Problems. 3 credit hours.

Emphasis on becoming informed and effective consumers; role of the consumer in the marketing system; current consumer issues; role of government in consumer welfare; available sources of information for consumers; consumer organization and its increasing importance. Community projects.

HEc 405. Reading and Conference.

Credit hours to be arranged.

HEc 407. Seminar.

Credit hours to be arranged.

Offerings depend upon student interest and faculty availability.

HEc 409. Supervised Tutoring Practicum. 1-3 credit hours.

No-grade course.

HEc 430. Personal and Family Finance. 3 credit hours.

Management of personal and family income, including budgeting, use of consumer credit, insurance, social security, savings and investments, taxes, home ownership, and estate planning. Community resources used.

Mathematics

Faculty

- Frank W. Anderson, Ph.D., Professor of Mathematics (algebra). B.A., 1951, M.S., 1952, Ph.D., 1954, Iowa; at Oregon since 1957.
- Fred C. Andrews, Ph.D., Professor of Mathematics (statistics). B.S., 1946, M.S., 1948, Washington; Ph.D., California, 1953; at Oregon since 1957.
- Bruce A. Barnes, Ph.D., Associate Professor of Mathematics (Banach algebras, operator theory). B.A., Dartmouth, 1960; Ph.D., Cornell, 1964; at Oregon since 1966. (On sabbatical leave, 1973-74).
- Richard B. Barrar, Ph.D., Professor of Mathematics (applied mathematics, differential equations). B.S., 1947, M.S., 1948, Ph.D., 1952, Michigan; at Oregon since 1967.
- Glenn T. Beelman, A.M., Senior Instructor in Mathematics; Assistant to the Department Head. B.S. South Dakota State, 1938; A.M., George Washington, 1962; at Oregon since 1966.
- Clark T. Benson, Ph.D., Associate Professor of Mathematics (group theory, combinatorics). B.S., California Institute of Technology, 1961; Ph.D., Cornell, 1965; at Oregon since 1967. (On leave of absence, 1973-74.)
- Paul Civin, Ph.D., Professor of Mathematics (Banach algebras). B.A., Buffalo, 1939; M.A., 1941, Ph.D., 1942, Duke; at Oregon since 1946.
- Charles W. Curtis, Ph.D., Professor of Mathematics (algebra). B.A., Bowdoin, 1947; M.A., 1948, Ph.D., 1951, Yale; at Oregon since 1963. Department head, 1970-1973. (On sabbatical leave, 1973-74.)
- Micheal N. Dyer, Ph.D., Associate Professor of Mathematics (algebraic topology). B.A., Rice, 1960; Ph.D., California at Los Angeles, 1965; at Oregon since 1967.
- Robert S. Freeman, Ph.D., Associate Professor of Mathematics (partial differential equations, operator theory). B.A.E., New York University, 1947; Ph.D., California, 1958; at Oregon since 1967.
- Kenneth S. Ghent, Ph.D., Professor of Mathematics (number theory), Associate Dean of Students. B.A., McMaster, 1932; S.M., 1933, Ph.D., 1935, Chicago; at Oregon since 1935.
- David K. Harrison, Ph.D., Professor of Mathematics (algebra). B.A., Williams, 1953; Ph.D., Princeton, 1956, at Oregon since 1963. (On leave of absence, 1972-73.)
- Alan R. Hoffer, Ph.D., Associate Professor of Mathematics (geometry, mathematics education). B.A., UCLA, 1958; M.S., Notre Dame, 1963; Ph.D., Michigan, 1969; at Oregon since 1971.
- Shirley Ann Hoffer, M.L.S., Research Assistant in Mathematics. B.A., UCLA, 1958; M.L.S., Michigan, 1969.
- John B. Jacobs, Ph.D., Assistant Professor of Mathematics (Lie algebras). B.S., Michigan, 1965; M.S., 1966, Ph.D., 1969, Illinois; at Oregon since 1969.
- William Kantor, Ph.D., Associate Professor of Mathematics (finite geometries, finite groups, combinatorics). B.S., Brooklyn College, 1964; M.A., 1965, Ph.D., 1968, Wisconsin; at Oregon since 1971.
- Michael Kerwin, Ph.D., Visiting Assistant Professor of Mathematics (analysis). B.S., Alberta, 1965; Ph.D., Oregon, 1971.
- Richard M. Koch, Ph.D., Associate Professor of Mathematics (differential geometry). B.A., Harvard, 1961; Ph.D., Princeton, 1964; at Oregon since 1966.
- John V. Leahy, Ph.D., Associate Professor of Mathematics (algebraic and differential geometry). Ph.D., Pennsylvania, 1965; at Oregon since 1966.
- Uri Leron, Ph.D., Visiting Assistant Professor of Mathematics (noncommutative rings). B.S., 1964, M.S., 1966, Ph.D., 1972, Hebrew University.
- Henry L. Loeb, Ph.D., Professor of Mathematics (numerical analysis). B.S., Wisconsin, 1949; M.A., Columbia, 1958; Ph.D., California at Los Angeles, 1965; at Oregon since 1966. (On sabbatical leave, 1972-73.)
- Eugene A. Maier, Ph.D., Professor of Mathematics (number theory, mathematics education). B.A., 1950, M.A., 1951, Ph.D., 1954, Oregon; at Oregon since 1961.
- Theodore K. Matthes, Ph.D., Associate Professor of Mathematics (statistics). B.S., California Institute of Technology, 1955; Ph.D., Columbia, 1960; at Oregon since 1962.
- Lulu V. Moursund, M.A., Instructor Emeritus in Mathematics. Ph.B., 1929, M.A., 1930, Brown; at Oregon 1956-57 and since 1961.
- Leonard T. Nelson, Ph.D., Visiting Professor of Mathematics (mathematics education). B.S., St. Cloud State College, 1960; M.A., Bowdoin College, 1963; Ph.D., Michigan, 1968.
- Ivan M. Niven, Ph.D., Professor of Mathematics (number theory). B.A., 1934, M.A., 1936, British Columbia; Ph.D., Chicago, 1938; at Oregon since 1947.
- Theodore W. Palmer, Ph.D., Associate Professor of Mathematics (analysis). B.A., 1958, M.A., 1958, Johns Hopkins; A.M., 1959, Ph.D., 1966, Harvard; at Oregon since 1970.
- Elizabeth N. Prielipp, M.S., Visiting Instructor in Mathematics. B.S., Illinois State at Normal, 1962; M.S., Oregon, 1969.
- Kenneth A. Ross, Ph.D., Professor of Mathematics (harmonic analysis). B.S., Utah, 1956; M.S., 1958, Ph.D., 1960, Washington; at Oregon since 1964. (On sabbatical leave, 1972-73.)
- Linda G. Salter, M.A., Visiting Instructor in Mathematics. B.A., Oberlin, 1961; M.A., California, 1970.
- Gary M. Seitz, Ph.D., Associate Professor of Mathematics (group theory). A.B., 1964, M.A., 1965, California; Ph.D., Oregon, 1968; at Oregon since 1970.
- Peter R. Sherman, M.S., Senior Instructor in Mathematics (mathematics education). B.S., 1947, M.S., 1949, Oregon; B.D., Pacific School of Religion, 1952; at Oregon since 1960. (On sabbatical leave, spring 1973.)
- Allan J. Sieradski, Ph.D., Associate Professor of Mathematics (algebraic topology, homotopy theory). B.S., Dayton, 1962; M.S., 1964, Ph.D., 1967, Michigan; at Oregon since 1967. (On sabbatical leave, 1973-74.)
- Lynn D. Slingerland, Ph.D., Visiting Assistant Professor of Mathematics (Banach algebras). B.S., Lewis and Clark College, 1966; M.S., 1970, Ph.D., 1972, Oregon.

- Eivind Stensholt, Visiting Assistant Professor of Mathematics. Cand. mag., 1960, Cand. real, 1964, Oslo.
- Robert F. Tate, Ph.D., Professor of Mathematics (statistics). B.A., California, 1944; M.S., North Carolina, 1949; Ph.D., California, 1952; at Oregon since 1965. (On sabbatical leave, spring 1973.)
- Donald R. Truax, Ph.D., Professor of Mathematics (statistics). B.S., 1951, M.S., 1953, Washington; Ph.D., Stanford, 1955; at Oregon since 1959. (On sabbatical leave, 1973-74.)
- James M. Van Buskirk, Ph.D., Associate Professor of Mathematics (topology, knot theory). B.S., Wisconsin State, Superior, 1954; M.S., 1955, Ph.D., 1962, Wisconsin; at Oregon since 1962.
- Lewis E. Ward, Jr., Ph.D., Professor of Mathematics (topology). A.B., California, 1949; M.S., 1951, Ph.D., 1953, Tulane; at Oregon since 1959.
- Robert Waterman, Ph.D., Visiting Assistant Professor of Mathematics (analysis). B.S., St. Lawrence University, 1961; M.A., 1968, Ph.D., 1972, California at Irvine.
- Jerry M. Wolfe, Ph.D., Assistant Professor of Mathematics (numerical analysis). B.S., Oregon State, 1966; M.A., 1969, Ph.D., 1972, Washington; at Oregon since 1970.
- Charles R. B. Wright, Ph.D., Professor of Mathematics (group theory). B.A., 1956, M.A., 1957, Nebraska; Ph.D., Wisconsin, 1959; at Oregon since 1961.
- Bertram Yood, Ph.D., Professor of Mathematics (analysis). B.S., Yale, 1938; M.S., California Institute of Technology, 1939; Ph.D., Yale, 1947; at Oregon since 1953.

Graduate Teaching Fellows

Note: "at Oregon" date is first year appointed as Teaching Fellow.

- Abdullah A. Al Moajil, B.S., Oregon State, 1966; M.S., Oregon, 1969; at Oregon since 1971.
- Robert A. Bekes, B.A., California at Berkeley, 1966; M.S., Oregon, 1970; at Oregon since 1970.
- David H. Berman, B.A., Roosevelt University, 1972; at Oregon since 1972.
- Stanley M. Blascow, A.B., 1969, M.S., 1971, San Diego State; at Oregon since 1971.
- Steven E. Brown, B.S., California Institute of Technology, 1965; M.A., Oregon, 1966; at Oregon since 1970.
- James R. Carlson, B.A., Claremont Men's College, 1971; at Oregon since 1972.
- Jerry R. Cox, B.A., San Diego State, 1971; at Oregon since 1971.
- Scott L. Dennison, B.A., Minnesota, 1966; A.M., Illinois, 1969; at Oregon since 1972.
- Roger P. Erickson, B.S., 1963, M.S., 1965, Wisconsin; at Oregon since 1971.
- James W. Fernandez, B.S., Case Western Reserve, 1971; at Oregon since 1971.
- William B. Fisher, B.A., Wisconsin, 1969; M.A., Oregon, 1971; at Oregon since 1972.
- Gary O. Fowler, B.A., California at Riverside, 1968; M.A., Oregon, 1970; at Oregon since 1971.
- Charles R. Hamaker, B.S., Antioch College, 1971; at Oregon since 1971.
- Jill K. Hermanson, B.S., 1963, M.S., 1968, North Dakota State; at Oregon since 1972.

- Rene A. Hernandez, Licenciatura Academica, 1968, Universidad Tecnica Del Estado, Chile, 1968; at Oregon since 1970.
- Barbara A. Horn, B.A., Gustavus Adolphus, 1972; at Oregon since 1972.
- Berne M. Howard, B.A., Claremont Men's College, 1971; at Oregon since 1972.
- William A. Hukari, B.S., Washington, 1971; M.S., Oregon, 1972; at Oregon since 1971.
- Sushil Jajodia, B.A., 1969, M.S., 1971, Southern Illinois; at Oregon since 1972.
- Peter S. Kornya, B.S., British Columbia, 1969; at Oregon since 1972.
- John A. Ladwig, B.S., California State Polytechnic, 1972; at Oregon since 1972.
- Thomas W. Lee, B.S., 1969, M.S., 1972, Oregon; at Oregon since 1972.
- Chung Lin, B.S., Tamkang College, 1967; M.S., National Taiwan University, 1972; M.S., Oregon, 1972; at Oregon since 1972.
- Lewis Lum, Jr., B.S., Oregon State, 1968; at Oregon since 1968.
- O. William McClung, B.A., Williams College, 1967; M.A., Columbia, 1968; at Oregon since 1972.
- David C. Muh, B.S., Chung Yuan College, 1966; M.S., Fresno State, 1971; at Oregon since 1972.
- David G. Paulowich, B.S., 1968, M.S., 1970, Dalhousie University; at Oregon since 1970.
- Joyce A. Pavlis, B.A., South Dakota, 1971; at Oregon since 1971.
- Venkata R. Potluri, B.S., A.N.R. College, 1962; M.S., Banares Hindu University, 1968; M.S., Oregon, 1970; at Oregon since 1968.
- Thomas R. Schellhase, B.S., New Mexico Tech, 1972; at Oregon since 1972.
- David A. Schoenfeld, B.A., Reed, 1967; M.A., Oregon, 1968; at Oregon since 1967.
- David J. Schuller, B.S., SUNY at Stony Brook, 1970; at Oregon since 1972.
- Terence R. Shore, B.A., California at Berkeley, 1968; M.A., Oregon, 1971; at Oregon since 1969.
- Richard W. Sieger, B.A., Yale, 1971; at Oregon since 1971.
- James H. Souza, B.S., Illinois, 1972; at Oregon since 1972.
- Shamsher S. Sran, B.A., G.H.G. Khalsa College, 1963; M.A., Punjab University, 1967; M.S., Oregon, 1971; at Oregon since 1972.
- Jonathan Stafford, B.A., Reed, 1966; M.A., Oregon, 1969; at Oregon since 1966.
- Frank J. Taussig, B.A., Oberlin College, 1962; M.S., Case Western Reserve, 1966; at Oregon since 1969.
- Everett I. Tollerud, B.A., St. Olaf College, 1971; at Oregon since 1971.
- Siri K. Wasan, B.A., 1965, M.S., 1967, University of Delhi; at Oregon since 1972.

Undergraduate Studies

MATHEMATICS courses at the University are designed to satisfy the needs of students, majors and nonmajors, interested in mathematics primarily as part of a broad liberal education. They also

provide basic mathematical and statistical training for students in the social, biological, and physical sciences and in the professional schools; prepare prospective teachers of mathematics; and provide advanced and graduate work for students specializing in the field.

Preparation for Major Work. Students planning to major in mathematics at the University should take as much mathematics in high school as they can work into their programs. Courses in algebra, geometry, trigonometry, and more advanced topics should be included whether offered as separate courses or in unified form. Prospective mathematics majors should arrange with the Department of Mathematics to discuss their programs with an adviser at the earliest opportunity.

College transfer students who have completed a year of calculus by the time they enter the university should be able to complete the major requirements in mathematics in two additional years. Junior and community college students planning to major in mathematics who complete a year of calculus as freshmen should plan to transfer to the University at the beginning of the sophomore year, if possible.

Science-Group Requirement. The department offers several one-term courses (Mth 124, 150, 151, 152, 153, 154, 155, 156) and an Honors College sequence (Mth 190, 191, 192) specifically intended for students who do not necessarily plan to take advanced work in mathematics, but who wish to satisfy all or part of the science-group requirement in mathematics. These courses present ideas from areas of important mathematical activity in an elementary setting, stressing concepts more than computation. They do not provide preparation for other mathematics courses, but are not incompatible with entering a calculus sequence. Calculus (Mth 200, 201, 202 or Mth 204, 205, 206), preceded, if necessary by the preparatory course College Algebra (Mth 101) and Elementary Functions (Mth 102), or Preparation for Calculus (Mth 115), is recommended to students whose areas of study involve substantial use of calculus. When taken consecutively, College Algebra (Mth 101) and Elements of Calculus (Mth 106) provide an introduction to algebra and calculus for students in business and other fields.

Major Programs. The department offers undergraduate preparation for graduate work in mathematics and statistics, for mathematics teaching at the secondary level, and for positions in government, business, and industry requiring mathematical training. Each mathematics major's program is individually constructed in consultation with his adviser and includes a year of calculus, normally followed by Advanced Calculus with Linear Algebra (Mth 331, 332, 333). Students who have advanced placement credit in calculus may begin University work with Topics from Calculus (Mth 215) or, in some cases, may start upper-division work at once. Majors whose high school preparation does not qualify them to begin calculus must make up their deficiencies by enrolling in the appropriate calculus-preparatory courses.

Requirements for Bachelor Degree. To qualify for a bachelor degree with a major in mathematics, a student must complete 48 credit hours of work in the field, including Calculus with Analytic Geometry (Mth 200, 201, 202) or Analytic Geometry and Calculus (Mth 204, 205, 206) or their equivalents, and at least 30 graded (for A, B, or C grade) credit hours in upper-division mathematics and computer science courses exclusive of Mth 425, 426, 427. Not more than 12 upper-division hours of computer science may be counted toward the minimum major requirements. Mth 332 and Mth 411 may not both be used in satisfaction of upper-division requirements.

Students preparing for graduate work in any area of mathematics should include in their programs Mth 331, 332, 333; Mth 412; Mth 415, 416, 417; Mth 418; and Mth 431, 432, 433. Other courses should be selected in consultation with the student's adviser. Attainment of a reading knowledge of at least one foreign language chosen from French, German, or Russian is highly recommended.

Students who want a major specializing in probability and statistics, and to have the degree reflect this specialization, must take Mth 331, 332, 333 and at least 6 terms of probability and statistics courses numbered 441 and above.

Students preparing for positions in government, business, and industry are advised to include in their programs courses in probability or statistics and computing.

Sample Programs of Study. The following sample programs give a survey of appropriate courses for mathematics majors who wish their degree to show an emphasis in a particular area of mathematics. They are not intended to be followed exactly. Mathematics majors should consult an adviser at least once a year to discuss and plan their programs.

All programs assume the student has completed a year of calculus (either Mth 200-202 or Mth 204-206). Students in all of the programs are advised to take Computer Science 201 or Computer Science 233.

	Beginning Upper-Division Courses	Advanced Upper-Division Courses
Applied Mathematics	Mth 331-333 Mth 418	Mth 421-422, 429-430, 465-467. Electives: Mth 412, 414, 431-433, 434, 435-436, 441-442 or 447-449, 443, 444, 454-456.
Graduate Preparatory	Mth 331-333 Mth 418	Mth 412, 415-417, 431-433. Electives: Mth 328, 354-355, 413, 414, 421-422, 429-430 or 434 and 435-436, 437-439, 441-442 or 447-449, 454-456, 465-467, 487-489.
Numerical Analysis	Mth 331-333 Mth 418	Mth 412, 429-430, 434, 435-436. Electives: Mth 421-422, 441-442 or 447-449, 443, 444, 454-456, 465-467.
Statistics	Mth 331-333	Mth 441-442, 443, 444. Electives: Mth 412, 418, 421-422, 431-433, 434, 447-449, 450-451, 454-456.
Secondary Teacher	Mth 323 Mth 344-345 Mth 346 Mth 411	Mth 341-343 or 415-417. Electives: Mth 328, 331-333, 354-355, 412, 413, 431-433, 437-439, 487-489.

Prospective teachers should plan to do student teaching during a term which does not conflict with the required mathematics courses.

Secondary School Teaching of Mathematics. For certification as a teacher of mathematics in Oregon secondary schools, the Oregon Board of Education requires: (1) the satisfaction of certain minimum standards of subject preparation, and (2) the recommendation of the institution at which the student completes the subject preparation.

To meet the state standards for the Basic Norm in mathematics and the requirements for unqualified recommendation by the Uni-

versity of Oregon, students should satisfy the requirements for a bachelor degree with a major in mathematics, and should include in their programs: Calculus (Mth 323), Fundamentals of Algebra (Mth 341, 342, 343), Fundamentals of Geometry (Mth 344, 345), Fundamentals of Statistics (Mth 346), Linear Algebra (Mth 411), and Introduction to Computer Science (CS 201). Regular session courses with similar content and special upper-division and graduate courses offered during summer sessions may be approved by the departmental teacher-education committee as acceptable substitutes for these courses.

To meet the state standards for the Standard Norm in mathematics, students are required to demonstrate competency in at least 18 credit hours of upper-division or graduate courses in mathematics beyond the Basic Norm and to include further work in analysis, number theory (Mth 328), and logic and set theory (Mth 354, 355).

Nonmajor students who wish to prepare for the teaching of mathematics as a second field should include Fundamentals of Algebra (Mth 341, 342, 343) and Fundamentals of Geometry (Mth 344, 345) in their programs.

For further information, the student should consult the member of the mathematics faculty who serves as adviser for prospective teachers.

Elementary School Teaching of Mathematics. For certification to teach in an elementary school in Oregon, the Oregon Board of Education requires demonstrated competence in mathematics. This requirement may be fulfilled by satisfactorily completing the sequence Mathematics for Elementary Teachers (Mth 121, 122, 123).

The state will recognize as a Mathematics Specialist one who chooses mathematics as the area of concentration required by the University for elementary-school certification. The mathematics requirement for concentration consists of twelve credit hours in mathematics courses numbered above 123, excluding Mth 290. A suggested program consists of at least four courses selected from Mth 150, 151, 152, 153, 154, 155, 156.

Exact minimum certification requirements are available from the College of Education.

Other Information. Students wanting to graduate "with honors in mathematics" should notify the chairman of the Undergraduate Affairs Committee not later than the first term of their senior year. They must complete two of the four sequences Mth 415, 416, 417; Mth 431, 432, 433; Mth 437, 438, 439; Mth 447, 448, 449, with an average grade of B or higher and indicate mastery of an advanced topic studied independently. The honors degree will be awarded those whose work is judged truly exceptional.

The William Lowell Putnam examination, a competitive, nationally-administered mathematics exam, is given early each December; it contains twelve very challenging problems, with prizes awarded the top finishers in the nation. Those interested should consult the chairman of the Undergraduate Affairs Committee at the beginning of the fall term.

There is a small undergraduate lounge in Deady Hall, equipped with tables, blackboards, and a collection of mathematics books and periodicals.

Graduate Studies

THE UNIVERSITY offers graduate work in mathematics leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees.

Two basic curricula are available for the M.S. and M.A. programs, one designed for persons intending to terminate their study of mathematics with a master degree, and the other designed for those intending to continue work toward the Ph.D.

Coordinated master degree programs are also offered for the training of secondary-school and community-college teachers of mathematics which terminate with an M.S. or M.A. in mathematics or interdisciplinary studies. These programs may be pursued during summer sessions as well as in regular sessions. Applicants for a summers-only admission are exempt from the enrollment limitations in force during the academic year, but must otherwise satisfy the admissions requirements.

The department offers programs leading to the Ph.D. degree in the following areas: algebra, analysis, applied mathematics, combinatorics, differential equations, geometry, number theory, numerical analysis, probability, statistics, and topology.

The number of new graduate students that can be admitted each academic year into the departmental programs is limited. Admission is dependent upon the student's previous academic record, as to both overall academic quality and adequate mathematical background for the applicant's proposed degree program. Application forms for admission to the Graduate School may be obtained by writing to the head of the Department of Mathematics. Prospective applicants should note also the general University requirements for graduate admission which appear in the Graduate School section of this catalog.

In addition to the general requirements of the Graduate School, the specific course requirements and conditions to be fulfilled in the graduate-degree programs are shown below.

Pre-Ph.D. Master Program.

(1) Of the required 45 credit hours, at least 18 must be mathematics courses in the 500 level; at most, 15 may be in graduate level courses other than mathematics.

(2) Students should take at least one sequence from each of the following groups: (a) Mth 551, 552, 553; Mth 554, 555, 556; (b) Mth 521, 522, 523; Mth 541, 542, 543; Mth 571, 572, 573; Mth 581, 582, 583; Mth 507 (seminars) in Differential Geometry, Number Theory and Numerical Analysis or any two from Mth 415, 416, 417; Mth 434, 435, 436; Mth 437, 438, 439; Mth 447, 448, 449; Mth 454, 455, 456; Mth 487, 488, 489; (c) Another 500-level sequence, which may be selected from (a) or (b) except that the sequence topic may not duplicate any 400-level sequence used to satisfy requirements.

Terminal Master Program.

(1) Of the required 45 credit hours, at least 9 must be mathematics courses in the 500 level, excluding Mth 505; at most, 15 may be in graduate level courses other than mathematics.

(2) Students should take at a minimum two of the following sequences and one 500-level sequence, or two 500 level sequences and one of the following: Mth 415, 416, 417; Mth 431, 432, 433; Mth 434, 435, 436; Mth 437, 438, 439; Mth 447, 448, 449; Mth 454, 455, 456.

(3) Students should have taken, at some time, a year upper-division or graduate course in statistics, numerical analysis, computing, or other applied mathematics.

Teacher's Program.

- (1) Of the required 45 credit hours, at least 9 must be mathematics courses in the 500 level.
- (2) Students must take at least 36 credit hours in mathematics courses of either 400 (G) or 500-level, or both, to include the following or their equivalents: (a) Mth 415, 416, 417; (b) Mth 431, 432, 433; (c) Two terms from one of the following: Mth 412, 413; Mth 434, 435, 436; Mth 437, 438, 439; Mth 447, 448, 449; Mth 454, 455, 456; Mth 487, 488, 489.
- (3) Students should have taken, at some time, a one-term or longer course in both Introductory Linear Algebra and Set Theory and Mathematical Logic, and one from Differential Equations, Vector Analysis or Functions of Several Variables.

Interdisciplinary Studies, Teaching, Mathematics.

- (1) Of the required 45 credit hours, at least 9 must be in 500-level courses.
- (2) Students must take a minimum of 9 credit hours of planned graduate education, and 36 credit hours of planned graduate mathematics courses (400g, 400G and 500 levels).
- (3) Planned courses are selected and approved at the start of the program of study, and may not be altered except with permission of the student's adviser.

Doctor of Philosophy.

The Ph.D. is a degree of quality not to be conferred in routine fashion after completion of any specific number of courses or attendance in Graduate School for a given number of years. The course program of a Ph.D. student in mathematics is worked out in consultation with a faculty adviser. Each Ph.D. candidate must take three sets of examinations (the qualifying exams, the language exams, and the preliminary exam), write a thesis approved by a majority of the members of the dissertation committee, and present the thesis orally in a formal public meeting.

- (1) **Qualifying Examinations.** Students specializing in Algebra, Analysis, Differential Equations, Number Theory, Geometry, or Topology must take exams in the following subjects: (a) One from Complex Analysis or Real Analysis. (b) Two selected from the three groupings: (i) Algebra; (ii) Differential Geometry or Topology; (iii) Differential Equations, Number Theory, Numerical Analysis, Probability, or Statistics.

Students specializing in Numerical Analysis, Probability, or Statistics must take three examinations selected from the following three groupings, including one from each of the first two: (i) Complex Analysis or Real Analysis; (ii) Numerical Analysis, Probability or Statistics; (iii) Topology and Algebra (400G level), Algebra, Differential Geometry, Number Theory, or Topology.

- (2) **Language Examinations.** This department requires a reading knowledge of two foreign languages selected from French, German, or Russian. (Alternative languages are acceptable in certain fields.) Language requirements may be fulfilled by: (a) passing a departmentally administered exam; (b) satisfactory completion of a second-year college-level language course; or (c) passing an ETS exam.

- (3) **Preliminary Examination.** This is an oral exam with emphasis on the student's major field. The student is not eligible to take this exam until after completion of qualifying and language examinations, and completing substantially all of the course work for the Ph.D.

- (4) **Dissertation.** Ph.D. candidates in mathematics must submit a dissertation containing substantial original work in mathematics.

- (5) **Final Presentation of Thesis.** There are no requirements in mathematics other than those of the Graduate School.

Mth 95. Intermediate Algebra. 4 credit hours.

Fundamentals of algebra. Intended for students entering with less than two years of high school algebra; not open for credit to students entering with four years of high school mathematics including trigonometry.

Mth 101. College Algebra. 4 credit hours.

Intended as preparation for other mathematics courses when recommended by entrance placement, or to satisfy major requirements in other departments. Prerequisite: one and one-half years of high school algebra, or Mth 95.

Mth 102. Elementary Functions. 4 credit hours.

Trigonometric, logarithmic, and exponential functions and their graphs. Intended as preparation for Mth 200 or Mth 204. Prerequisite: Mth 101, or equivalent.

Mth 106. Elements of Calculus. 4 credit hours.

Concepts of differential and integral calculus of algebraic functions. A terminal course. Not open to students who have completed Mth 200 or Mth 204. Prerequisite: Mth 101, or equivalent.

Mth 115. Preparation for Calculus. 4 credit hours.

Selected topics from algebra, trigonometry, and other areas. For entering students who have had a considerable amount of high school mathematics, including trigonometry, and whose placement scores indicate a need for a brief course in pre-calculus mathematics. Consent of department is required.

Mth 121, 122, 123. Mathematics for Elementary Teachers. 3 credit hours each term.

Basic concepts of arithmetic, elementary algebra, and elementary geometry. Emphasis on the real number system and deductive processes within the system. Open only to prospective elementary teachers.

Mth 124. Mathematics of Finance. 4 credit hours.

Simple and compound interest and discount annuities, periodic-payment plans, bonds, depreciation, mathematics of insurance, and other topics related to business. Prerequisite: Mth 101, or equivalent.

Mth 150. Introduction to Probability. 3 credit hours.

An elementary survey emphasizing basic concepts, with application to problems in many fields. Prerequisite: Mth 95 or two years of high school algebra or entrance placement for Mth 101.

Mth 151. Counting. 3 credit hours.

Study of counting problems where simple enumeration is impractical. Permutations, networks. Interesting historical problems. Applications to economics, statistics, and computer programming. Prerequisite: Mth 95, or two years of high school algebra, or entrance placement for Mth 101.

Mth 152. Mathematical Symmetry. 3 credit hours.

An introduction to the common mathematical symmetry properties of objects occurring in architecture, art, and the natural sciences; reflections and rotations; the concept of a group of symmetries. Prerequisite: one year of high school geometry and Mth 95, or two years of high school algebra, or entrance placement for Mth 101.

Mth 153. Introduction to Game Theory. 3 credit hours.

Elements of two-person and n-person games, with applications in economics, political science, and international affairs. Prerequisite: Mth 95, or two years of high school algebra, or entrance placement for Mth 101.

Mth 154. Mathematical Milestones. 3 credit hours.

An examination of several major mathematical discoveries of the eighteenth and nineteenth centuries with emphasis on particular results rather than on the overall flow of history. Prerequisite: one term of 100 level mathematics, or consent of department.

Mth 155. Inequalities. 3 credit hours.

A study of inequalities as they arise in problems in arithmetic, geometry, and algebra. Applications to variational problems. Prerequisite: Mth 101, or equivalent.

Mth 156. Concepts of Statistics. 3 credit hours.

Fundamental ideas of statistics, with illustrative examples. Particular attention to correct problem formulation and correct use of definitions and notation. Intended to expose features of modern statistical thinking in a mathematically elementary atmosphere. Primarily for lower-division students. Prerequisite: Mth 95, or two years of high school algebra, or entrance placement for Mth 101.

Mth 190, 191, 192. Topics in Modern Mathematics (Honors College). 4 credit hours each term.

Selected topics chosen to illustrate mathematical thought and application of mathematics to contemporary problems. Does not provide preparation for calculus. Prerequisite: one and one-half years of high school algebra, or Mth 95.

Mth 200, 201, 202. Calculus with Analytic Geometry. 4 credit hours each term.

Standard sequence for students of physical, biological, and social sciences, and mathematics. Prerequisite: high school trigonometry and a high placement score; or Mth 115; or Mth 102. Not open to students who have credit for Mth 204, 205, 206.

Mth 203. Calculus with Analytic Geometry. 4 credit hours.

A terminal course. The concluding term in the sequence Mth 200, 201, 202 for students not continuing with Mth 331, 332, 333 or Mth 419, 420. Not open to students who have credit for Mth 206.

Mth 204, 205, 206. Analytic Geometry and Calculus. 5 credit hours each term.

An intensive treatment of calculus for well-prepared students who want to cover as much material as possible in a year; equivalent of Mth 200, 201, 202, 203. Special section for honors college and other superior students. Prerequisite: high school trigonometry and a high placement score; or Mth 115; or Mth 102. Not open to students who have credit for Mth 200, 201, 202.

Mth 215. Topics from Calculus. 4 credit hours fall.

For entering students whose calculus backgrounds include most but not all of a year of university calculus. Designed to produce a level of proficiency in calculus sufficient for upper-division mathematics courses. Consent of department is required.

Mth 290. Seminar.

Credit hours to be arranged. Topics offered which are not covered in the regular lower-division courses. For selected students.

Mth 323. Calculus. 4 credit hours.

Foundations of the calculus. For prospective high-school teach-

ers. Consent of instructor is required. Prerequisite: year sequence in calculus.

Mth 328. Number Theory. 3 credit hours.

Divisibility, congruences, number theoretic functions, Diophantine equations. Prerequisite: year sequence in calculus, or consent of instructor.

Mth 331, 332, 333. Advanced Calculus with Linear Algebra. 4 credit hours each term.

Introduction to linear algebra. Calculus of functions of several variables from a vector viewpoint, including partial differentiation, multiple integration, Green's Theorem, and applications. Includes the content of Mth 419, 420. Prerequisite: year sequence in calculus.

Mth 341, 342, 343. Fundamentals of Algebra. 3 credit hours each term.

Algebraic topics for prospective secondary-school teachers of mathematics. Inequalities, congruences, bases of the number system, foundations of algebra, set theory, Boolean algebras, elementary matrix and group theory. Prerequisite: year sequence in calculus, or consent of instructor.

Mth 344, 345. Fundamentals of Geometry. 3 credit hours each term.

Geometric topics for prospective secondary-school teachers of mathematics. Geometric transformations. Length, area, volume, and the related limit problem. Ruler and compass constructions, locus problems. Euclidean and non-Euclidean geometries. Coordinate and noncoordinate techniques in the plane and in space. Prerequisite: year sequence in calculus, or consent of instructor.

Mth 346. Fundamentals of Statistics. 3 credit hours.

Topics in probability and statistics for prospective secondary-school teachers of mathematics. Probability and random variables on finite sets. Binomial and hypergeometric distributions. Random number tables. Frequency distributions and histograms. Algebra of elementary statistical distributions. Tests of hypotheses and linear estimates. Prerequisite: year sequence in calculus, or consent of instructor.

Mth 354, 355. Mathematical Logic and Set Theory. 3 credit hours each term.

Basic concepts of mathematical logic and set theory. Propositional calculus, predicate calculus, algebra of sets, functions and relations, cardinal numbers, ordinal numbers, point sets on the real line. Prerequisite: year sequence in calculus, or consent of instructor.

Mth 403. Thesis.

Credit hours to be arranged.

Mth 405. Reading and Conference.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit**Mth 407. Seminar. (g)**

Credit hours to be arranged.

Mth 411. Introductory Linear Algebra. (g) 3 credit hours.

Computational matrix algebra; vector spaces; systems of linear equations; determinants; applications. Prerequisite: year sequence in calculus, or consent of instructor.

Mth 412. Linear Algebra. (G) 3 credit hours.

Bases and dimension in abstract vector spaces; linear transformations, minimal polynomial; characteristic roots and vectors; primary decomposition; orthogonal, unitary, symmetric, and normal transformations. Prerequisite: Mth 332 or Mth 411, or consent of instructor.

Mth 413. Geometric Algebra. (G) 3 credit hours.

Introduction to the classical linear groups and geometries associated with them. Prerequisite: Mth 412.

Mth 414. Introduction to Hilbert Space. (G) 3 credit hours.

Geometry of infinite dimensional Hilbert space; bounded linear operators and their adjoints; spectral theorem for self-adjoint and unitary operators. Prerequisite: Mth 412.

Mth 415, 416, 417. Introduction to Abstract Algebra. (G) 4 credit hours each term.

Introduction to the theory of groups, rings, fields, polynomial rings; linear algebra; the theory of a single linear transformation; the rational decomposition theorem; Jordan canonical form. Prerequisite: Mth 332 or Mth 411, or consent of instructor.

Mth 418. Differential Equations. (g) 3 credit hours.

Linear differential equations, applications, systems of equations. Prerequisite: year sequence in calculus.

Mth 419, 420. Functions of Several Variables and Vector Analysis. (g) 3 credit hours each term.

Partial differentiation, multiple integration, the gradient, divergence and curl, Green's Theorem, and related topics. Not open to students who have credit for Mth 331, 332, 333. Prerequisite: year sequence in calculus.

Mth 421, 422. Functions of a Complex Variable. (g) 3 credit hours each term.

Complex numbers, linear fractional transformations, Cauchy-Riemann equations, Cauchy's theorem and applications, power series, residue theorem, harmonic functions, conformal mapping, infinite products. Prerequisite: Mth 332, or consent of instructor.

Mth 425, 426, 427. Elements of Statistical Methods. (g) 3 credit hours each term.

A basic sequence in statistical methods; not intended for mathematics majors. Presentation of data; sampling distributions; tests of significance; confidence intervals; regression; analysis of variance; correlation; nonparametric statistics. Prerequisite: Mth 95, or equivalent.

Mth 429, 430. Introduction to Numerical Analysis. (g) 3 credit hours each term.

Solution of nonlinear equations, and related analysis; solutions of systems of linear and nonlinear equations; polynomial approximations; numerical differentiation and integration; numerical solution of ordinary differential equations. Prerequisite: year sequence in calculus, and CS 201 or CS 233.

Mth 431, 432, 433. Introduction to Analysis. (G) 4 credit hours each term.

A rigorous treatment of topics introduced in calculus and advanced topics basic to the study of real and complex variable theory. Prerequisite: Mth 331, 332, 333, or consent of department.

Mth 434. Linear Computations. (G) 3 credit hours.

Matrix norms, solutions of linear equations, computation of eigenvalues and eigenvectors, error analysis, numerical computations. Prerequisite: Mth 331, 332, 333, and knowledge of or concurrent registration in CS 201 or CS 233.

Mth 435, 436. Numerical Analysis. (G) 3 credit hours each term.

More advanced than Mth 429, 430. Solution of nonlinear equations, finite difference calculus, numerical integration, matrix methods, numerical solution of differential equations, and other selected topics. Prerequisite: Mth 331, 332, 333; Mth 418 and CS 201 or CS 233.

Mth 437, 438, 439. Introduction to Topology. (G) 3 credit hours each term.

Elementary point-set topology with an introduction to combinatorial topology and homotopy. Prerequisite: an upper-division mathematics sequence or consent of instructor.

Mth 441, 442. Introduction to Statistical Theory. (g) 3 credit hours each term.

Elementary theory of probability, sampling distributions, estimation and testing of hypotheses. Prerequisite: year sequence in calculus.

Mth 443. Regression Analysis. (g) 3 credit hours.

Least squares, simple linear regression, multiple regression, model-1 analysis of variance as an example of regression, orthogonal polynomials, nonlinear regression, adaptation of regression problems for computer programming. Prerequisite: Mth 442.

Mth 444. Nonparametric Statistics. (g) 3 credit hours.

Statistical procedures valid under minimal assumptions; theory of rank order tests; sign test, Wilcoxon test, k-sample tests for independent and matched samples; tests for randomness and goodness of fit; comparison of tests including large sample power and efficiency; estimation based on order statistics; robust methods of inference in linear models. Prerequisite: Mth 442.

Mth 447, 448, 449. Mathematical Statistics. (G) 4 credit hours each term.

Probability theory and applications to the derivation of sampling distributions; best unbiased estimates; properties of maximum likelihood estimates; Neyman-Pearson theory of testing hypotheses; likelihood ratio tests. Prerequisite: Mth 331, 332, 333, or consent of instructor.

Mth 450, 451. Statistical Design and Analysis of Experiments. (G) 3 credit hours each term.

Linear models and analysis of variance, factorial designs, incomplete and partially balanced designs, response surfaces, existence of various designs. Prerequisite: Mth 442, and Mth 332 or Mth 411.

Mth 454, 455, 456. Discrete Probability Theory and Applications. (G) 3 credit hours each term.

Discrete sample spaces, combinatorial analysis, limit theorems for discrete random variables, recurrent events, Markov chains, nonmeasure-theoretic treatment of simple stochastic processes, applications. Prerequisite: year sequence in calculus, or consent of instructor.

Mth 465, 466, 467. Ordinary and Partial Differential Equations. (g) 3 credit hours each term.

Selected topics in ordinary and partial differential equations. Emphasis on wave, heat and Laplace equations; elementary Sturm-Liouville problems; orthogonal functions; mean convergence; Fourier series; Legendre polynomials; Bessel functions; Green's functions; Fourier and Laplace transforms. Prerequisite: Mth 332 or Mth 419, and Mth 418.

Mth 487, 488, 489. Geometry. (G) 3-4 credit hours each term.

Axiomatic development of absolute geometries from both the

synthetic and metric points of view; Euclidean and Lobachevskian geometry; area theory; ruler and compass constructions; elements of projective geometry; subgeometries of projective geometry; geometric transformations. Intended primarily for secondary-school and prospective secondary-school mathematics teachers. Prerequisite: year sequence in calculus and senior or graduate standing, or consent of instructor.

Graduate Courses

Mth 501. Research.

Credit hours to be arranged. A no-grade course.

Mth 503. Thesis.

Credit hours to be arranged. A no-grade course.

Mth 505. Reading and Conference.

Credit hours to be arranged.

Mth 507. Seminar.

Credit hours to be arranged.

Algebraic Geometry. Leahy.

Algebraic Topology. Dyer, Sieradski.

Applied Mathematics. Barrar, Freeman.

Banach Algebras. Barnes, Palmer, Yood.

Combinatorics and Finite Geometry. Benson, Hoffer, Kantor.

Commutative Algebra. Anderson, Harrison.

Differential Geometry. Koch, Leahy.

Fourier Analysis. Ross.

Function Algebras. Civin.

Groups and Representations. Curtis, Kantor, Seitz, Wright.

Harmonic Analysis. Ross.

Homological Algebra. Anderson, Harrison.

Lie Algebras and Algebraic Groups. Curtis, Jacobs.

Noncommutative Rings. Anderson, Harrison.

Number Theory. Niven.

Numerical Analysis. Loeb, Wolfe.

Probability. Truax.

Selected Topics for Mathematics Teachers. Ghent, Hoffer, Maier.

Statistics. Andrews, Matthes, Tate, Truax.

Topics in Functional Analysis. Barnes, Civin, Palmer, Ross, Yood.

Topology. Dyer, Sieradski, Van Buskirk, Ward.

Mth 521, 522, 523. Partial Differential Equations. 3 credit hours each term.

Cauchy-Kowalewsky theorem, first order systems, classification of second order equations, boundary value problems for the Laplace and Poisson equations, initial value, and mixed problems for the heat and wave equations, eigenvalue problems. Prerequisite: Mth 431, 432, 433 and Mth 332 or Mth 411; Mth 421 recommended.

Mth 531, 532, 533. Linear Analysis in Applied Mathematics. 3 credit hours each term.

Topics selected from the theory of integral equations, calculus of variations, partial differential equations, boundary value problems, linear operators, integral transforms, spectral theory distributions, eigenfunction expansions with applications. Of primary interest to physical science majors. Prerequisite: Mth 411, 418, 420 and 421, or equivalent, or consent of instructor.

Mth 541, 542, 543. Abstract Algebra. 3 credit hours each term.

Group theory, fields, Galois theory, algebraic numbers, matrices, rings, algebras.

Mth 544, 545, 546. Structure of Rings and Algebras. 3 credit hours each term.

Topics selected from: rings with minimum condition, algebras over a commutative ring, rings without finiteness assumptions, and nonassociative rings and algebras.

Mth 547, 548, 549. Algebraic Number Theory. 3 credit hours each term.

Algebraic, irrational, transcendental, and normal numbers; approximation of algebraic and transcendental numbers by rationals.

Mth 551, 552, 553. Theory of Functions of a Real Variable. 3 credit hours each term.

Measure and integration, Hilbert and Banach spaces, and related topics.

Mth 554, 555, 556. Theory of Functions of a Complex Variable. 3 credit hours each term.

The theory of Cauchy, power series, contour integration, analytic continuation, entire functions, and related topics.

Mth 557, 558, 559. Topics in Classical Analysis. 3 credit hours each term.

Fourier series, Fourier transforms, integral equations, linear operations in Hilbert space, spectral theory.

Mth 561, 562, 563. Modern Theories in Analysis. 3 credit hours each term.

Measure theory, Banach spaces and algebras, analysis in topological groups; modern functional analysis, with emphasis on the connections with classical analysis and on applications to harmonic analysis.

Mth 571, 572, 573. Topology. 3 credit hours each term.

General and point-set topology, introduction to algebraic topology.

Mth 581, 582, 583. Theory of Estimation and Testing Hypotheses. 3 credit hours each term.

Uniformly most powerful tests; unbiased tests; invariant tests; minimax tests; the univariate and multivariate general linear hypothesis. Minimum variance unbiased estimation; properties of maximum likelihood estimates, Bayes estimates, and minimax estimates.

Mth 584, 585, 586. Theory of Probability. 3 credit hours each term.

Measure and integration, probability spaces, laws of large numbers, the central limit theory, conditioning martingales, random walks.

Mth 587, 588. Stochastic Processes. 3 credit hours each term.

Mth 591, 592, 593. Advanced Mathematical Statistics. 3 credit hours each term.

Topics selected from: analysis of variance and design of experiments; nonparametric statistics; multivariate analysis; large sample theory; sequential analysis.

Mth 594. Theory of Games. 3 credit hours.

The theory of games, with special emphasis on zero-sum two-person games.

Mth 595, 596. Statistical Decision Theory. 3 credit hours each term.

Statistical decision theory based on the theory of games; sequential decision theory; comparison of experiments.

Courses Offered Only in Summer Sessions

Mth 457, 458, 459. Foundations of Mathematics. (g) 3-4 credit hours each term.

Mth 468, 469. Probability and Statistics. (g) 3-4 credit hours each term.

Mth 478, 479. Algebra. (g) 3-4 credit hours each term.

Mth 498, 499. Analysis. (g) 3-4 credit hours each term.

Mth 578, 580. Algebra. 3-4 credit hours each term.

Mth 589. Geometry. 3-4 credit hours.

Mth 598, 599. Analysis. 3-4 credit hours each term.

Philosophy

Faculty

Department Head, Arnulf Zweig, Ph.D., Professor of Philosophy (Kant, philosophy of law, history of philosophy). B.A., Rochester, 1952; Ph.D., Stanford, 1960; at Oregon since 1956.

Henry A. Alexander, Jr., Ph.D., Associate Professor of Philosophy (epistemology, history of philosophy). B.A., Princeton, 1947; M.A., 1951, Ph.D., 1955, University of California, Berkeley; at Oregon since 1964.

John W. Cook, Ph.D., Professor of Philosophy (Wittgenstein, philosophy of social science). B.A., Minnesota, 1953; Ph.D., University of Nebraska, 1960; at Oregon since 1963.

William E. Davie, Ph.D., Assistant Professor of Philosophy (ethics, history of philosophy). B.A., University of Washington, 1964; Ph.D., University of California, Irvine, 1969; at Oregon since 1968.

Frank B. Ebersole, Ph.D., Professor of Philosophy (philosophy of language, philosophy of mind). A.B., Heidelberg College, 1941; Ph.D., University of Chicago, 1947; at Oregon since 1961.

Leonard R. Geddes, Ph.D., Assistant Professor of Philosophy (ethics, history of philosophy). B.A., University of British Columbia, 1960; M.A., University of North Carolina, 1962; Ph.D., University of California, San Diego, 1968; at Oregon since 1967.

Robert T. Herbert, Ph.D., Associate Professor of Philosophy (aesthetics, philosophy of religion). B.A., 1952, M.A., 1954, Ph.D., 1962, University of Nebraska; at Oregon since 1966.

Dennis C. Holt, M.A., Visiting Instructor in Philosophy (philosophy of religion, existentialism). B.A., Oregon, 1967; M.A., Cornell University, 1970; at Oregon since 1970.

Don S. Levi, Ph.D., Assistant Professor of Philosophy (logic, philosophy of mathematics). B.A., University of Wisconsin, 1956; M.A., 1961, Ph.D., 1962, Harvard University; at Oregon since 1964.

John Wisdom, M.A., Professor of Philosophy (philosophical methods). B.A., 1923, M.A., 1934, Cambridge University; at Oregon since 1968.

Graduate Teaching Fellows

John A. Harrington, B.A., King's College, University of London, 1971; at Oregon since 1971.

Jeffrey N. Meyer, A.B., University of California, Berkeley, 1969; at Oregon since 1969.

Paul A. Schneider, B.A., University of California, Los Angeles, 1967; M.A., Oregon, 1972; at Oregon since 1969.

John C. Thomas, B.A., California, San Diego, 1968; at Oregon since 1972.

Robert A. Walker, B.A., Sacramento State, 1972; at Oregon since 1972.

Undergraduate Studies

THE Department of Philosophy offers many lower- and upper-division courses of interest to students in areas of concentration other than philosophy. A major program leading to either the Bachelor of Arts or Bachelor of Science degree is also available.

Freshmen and transfer students planning to study philosophy should be prepared to read rather difficult prose, since virtually all courses in the department make use of primary rather than secondary sources. The ability to write precise, analytical, and coherent essays is also an essential skill in most philosophy courses.

Major Requirements. The minimum major requirement is 45 credit hours of work in philosophy with grades of C or better, including 36 hours in upper-division courses. The 45-hour requirements must include any three terms from the History of Ancient Philosophy (Phl 301, 302, 303) or the History of Modern Philosophy (Phl 304, 305, 306); Symbolic Logic (Phl 461, 462) or History of Logic (Phl 455, 456); and 6 credit hours of courses on the works of specific authors. Courses of study must be arranged in consultation with the undergraduate major adviser.

Honors. Any philosophy major may, by fulfilling the requirements described below, graduate "with honors." The requirements are as follows:

(1) Grade Point Average. To enter the program, the student must have a GPA of at least 3.5 in philosophy courses at the end of the junior year; to complete the program the student must have a GPA of at least 3.5 in philosophy courses at the end of the senior year.

(2) Courses. Besides those courses required of all philosophy majors, a candidate for honors must take an additional six hours of the 45 credit hours in philosophy at the 400 level.

(3) Senior Thesis. The candidate must write an honors thesis under the guidance of a member of the philosophy faculty chosen as Thesis Adviser. The thesis must be a substantial piece of work, and may be a revised and expanded version of a term paper. The thesis requires approval of the Thesis Adviser only.

Upon fulfilling these requirements, the candidate is then approved for graduation with honors.

Graduate Studies

THE department offers a graduate program leading to the Master of Arts and Doctor of Philosophy degrees. The department's graduate offerings are intended to meet the needs of three classes of students: (1) those preparing to work for the Ph.D. in philosophy with a goal of teaching and research; (2) those not intending to take further graduate work in philosophy after earning a master degree; (3) those interested in philosophy as part of a program with a major in some other department. However, because of the great competition for admission to the Graduate School, it has become difficult to accept students who are not likely Ph.D. candidates.

The department's graduate program offers the possibility of concentration in various areas of philosophy, e.g., ethics, theory of knowledge, philosophy of mind, metaphysics, aesthetics, legal philosophy, philosophy of language. Each student's graduate program is individually determined by consultation with an Advisory Committee. Advanced work in mathematical logic, phenomenology, and Oriental philosophy is not currently offered at Oregon.

Applicants for admission to graduate studies are asked to write a brief letter explaining their philosophical background and their specific philosophical interests, to help the department's Admissions Committee decide whether ours is the most appropriate philosophy department for the applicant's goals. Applicants are urged to read some of the publications of faculty members in the department in order to see the sort of work being done here.

In addition to the general University regulations governing graduate admission, which begin on page 46, the Department of Philosophy also requires applicants to submit three confidential report forms completed by teachers (preferably philosophy professors) familiar with the applicant's academic background. The Graduate Record Examination is recommended, though it is not a formal requirement of admission. Applicants should write to the department, explaining their interest in graduate studies here, and requesting an application blank for admission. The first copy (green), and one complete set of transcripts, together with the ten dollar application fee should be sent to the Graduate Admissions Office, Emerald Hall. The other four copies of the application, along with another set of transcripts, should be forwarded to the Department of Philosophy. Confidential report forms should be sent directly to the Department by the professors recommending the applicant.

Graduate assistantships are the only form of financial aid available in the Philosophy Department. An application form will normally be included with the application for admissions form.

Phl 201. Elementary Ethics. 3 credit hours.

The philosophical study of morality, e.g., ethical relativism, the justification of moral judgments, the concepts of duty, right and wrong.

Phl 202. Introduction to Theory of Knowledge. 3 credit hours.

Philosophical analysis of problems of knowledge, e.g., empiricism, rationalism, skepticism, the problems of a priori knowledge, perception, sense-data.

Phl 203. Introduction to Metaphysics. 3 credit hours.

Some classical metaphysical problems, e.g., substance, universals, causality, mind and body, the nature and justification of metaphysical claims.

Phl 204. Introduction to Philosophy of Religion. 3 credit hours.

Philosophical analysis and justification of religious claims and concepts, e.g., God, the soul, immortality.

Phl 205. Contemporary Moral Issues. 3 credit hours.

Philosophical problems connected with such topics as civil disobedience, the morality of war, abortion, conscription, compensatory justice.

Phl 206. Science and Man. 3 credit hours.

Philosophical problems concerning the nature of scientific explanation and its implications concerning the nature of man and human actions.

Phl 207, 208, 209. Introduction to Philosophy (Honors College). 3 credit hours each term.

Introduction to the study of some significant problems of philosophy and philosophical methods; concerned primarily with topics in logic, ethics, metaphysics, and theory of knowledge. Open only to students in the Honors College.

Phl 210. Free Will and Determinism. 3 credit hours.

Philosophical investigation of such topics as behaviorism, foreknowledge and free will, indeterminism and determinism, human action and responsibility.

Phl 212. Existentialism. 3 credit hours.

The basic ideas of the Christian and atheistic divisions of the existentialist movement; reading of selected works of Kierkegaard, Jaspers, Heidegger, and Sartre; some attention to precursors and to the general modern philosophical situation which has negatively generated the existentialist rebellion.

Phl 221. Elementary Logic. 3 credit hours.

Introduction to the study of reasoning. How to recognize, analyze, criticize, and construct the main types of argument and proof.

Phl 222. Elementary Aesthetics. 3 credit hours.

Study of aesthetic fact and value, and of the relation of aesthetic interest to other human interests, such as the moral, the intellectual, and the religious.

Phl 301, 302, 303. History of Ancient Philosophy. 3 credit hours each term.

Survey of the history of philosophy from the pre-Socratic to the medieval period, with particular attention to Plato and Aristotle.

Phl 304, 305, 306. History of Modern Philosophy. 3 credit hours each term.

Survey of the history of western philosophy from Descartes to the twentieth century.

Phl 307, 308, 309. Social and Political Philosophy. 3 credit hours each term.

A survey of the major social and political theories from Plato through Marx. Inquiry into such ideas as justice, natural law, natural rights, and the social contract.

Phl 321, 322. Theory of Knowledge. 3 credit hours each term.

A study of the source, certainty, and limits of human knowledge as well as the ground and nature of belief. Rationalism, empiricism, and skepticism. Theories of perception. The problem of abstraction. The nature of truth. Offered alternate years.

Phl 323, 324. Ethics. 3 credit hours each term.

Study of the most important traditional ethical theories; modern philosophical analysis of moral terms and statements.

Phl 325, 326. Philosophy of Language. 3 credit hours each term.

Examination of philosophical theories of language and meaning; ideals and methods of clarification; definition analysis; philosophy as study of language. Selected readings.

Phl 339, 340. Introduction to Philosophy of Science. 3 credit hours each term.

Analysis of basic concepts of science such as "explanation," "chance," "causation," etc. Nature of mathematics and its relation to science.

Phl 350, 351. Metaphysics. 3 credit hours each term.

A critical treatment of traditional issues in metaphysics, selected from among such topics as substance, existence, time,

causation, God, the nature of persons, the meaningfulness of metaphysics. Offered alternate years.

Phl 405. Reading and Conference.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

Phl 407. Seminar. (G) 3 credit hours.

Credit hours to be arranged.

Philosophy of History.

Descartes.

Berkeley.

Phl 411. Plato. (G) 3 credit hours.

Analysis of Plato's major dialogues. Offered alternate years.

Phl 413. Aristotle. (G) 3 credit hours.

Aristotle's major writings on theory of knowledge, metaphysics, and ethics. Offered alternate years.

Phl 416. Descartes. (G) 3 credit hours.

A study of Descartes' writings on method, knowledge, philosophy of mind, and metaphysics. Offered alternate years.

Phl 419. Locke. (G) 3 credit hours.

A study of Locke's accounts of knowledge, language, personal identity, substance, and his distinction between primary and secondary qualities. Offered alternate years.

Phl 423. Leibniz. (G) 3 credit hours.

A study of Leibniz's writings in logic and metaphysics. Offered alternate years.

Phl 425. Berkeley. (G) 3 credit hours.

A study of Berkeley's major writings on knowledge and perception. Offered alternate years.

Phl 427. Hume. (G) 3 credit hours.

Hume's writings on knowledge, morals, and religion. Offered alternate years.

Phl 429, 430. Kant. (G) 3 credit hours each term.

Kant's major writings in epistemology, ethics and the philosophy of religion: *Critique of Pure Reason*, *Foundations of the Metaphysics of Morals*, *Critique of Practical Reason*, *Religion Within the Limits of Reason Alone*. Offered alternate years.

Phl 431, 432. Philosophy in Literature. (G) 3 credit hours each term.

Selective study of major philosophical ideas and attitudes expressed in the literature of Europe and America.

Phl 433, 434, 435. Advanced Ethics. (G) 3 credit hours each term.

Classical problems and authors in moral philosophy and twentieth-century controversies in ethical theory, e.g., emotivism, the naturalistic fallacy, act and rule utilitarianism, duty and supererogation. Prerequisite: Phl 323, 324, or consent of instructor.

Phl 438. Kierkegaard. (G) 3 credit hours.

An examination of Kierkegaard's major philosophical and polemical writings: *Concluding Unscientific Postscript*, *Either/Or*, *The Sickness unto Death*, *The Attack on 'Christianism'*. Offered alternate years.

Phl 439, 440. Philosophy of Religion. (G) 3 credit hours each term.

An intensive study of specific issues arising from reflection upon such topics as the nature of faith, proofs for the existence of God, the nature of divine attributes, the problem of evil, and religious ethics. Offered alternate years.

Phl 441, 442, 443. Aesthetics. (G) 3 credit hours each term.

Systematic study of the meaning and value of aesthetic experience in everyday life and in the arts—painting, music, literature, etc.

Phl 444. Philosophy of Law. (G) 3 credit hours.

Theories of law and jurisprudence. Theories of guilt and punishment. Law and morality. The nature of legal reasoning. Offered alternate years.

Phl 447, 448. Wittgenstein. (G) 3 credit hours each term.

A study of Wittgenstein's *Tractatus Logico-Philosophicus*, *Philosophical Investigations*, and several minor works. Offered alternate years.

Phl 453, 454. Analytic Philosophy. (G) 3 credit hours each term.

A critical study of recent analytic philosophy, with special emphasis on the writings of the logical positivists and their predecessors and of contemporary British "linguistic" philosophers.

Phl 455, 456. History of Logic. (G) 3 credit hours each term.

A study of writers in the philosophy of logic: e.g., Plato, Aristotle, the Stoics, Ockham, Frege, Strawson. Offered alternate years.

Phl 458, 459. Philosophy of Mind. (G) 3 credit hours each term.

Analysis of some basic concepts of psychology, such as "mind" and "behavior": discussion of the mind-body problem and of methodological issues in psychology.

Phl 461, 462. Symbolic Logic. (G) 3 credit hours each term.

A consideration of the critical results of mathematical logic; e.g., the completeness and undecidability of the predicate calculus, the essential incompleteness of elementary number theory, set and recursive function theory. Offered alternate years.

Phl 463. Philosophy of Mathematics. (G) 3 credit hours.

The status of mathematical theorems and formulas; truth and falsity, necessity, justification in mathematics; Hilbert's program; Frege; mathematics and the world. Offered alternate years.

Phl 465. Logical Theory. (G) 3 credit hours.

Formal and informal logic; proof; acceptability of logic; measuring, computing, formalizing and arguing, contradiction and paradox. Offered alternate years.

Phl 468. Problems in Philosophy of Science. (G) 3 credit hours.

Probability and statistics; the nature of scientific discovery; hypothetico-deductive systems; the scope of science; science and metaphysics. Prerequisite: Phl 339, 340, or consent of instructor. Offered alternate years.

Phl 480, 481, 482. Philosophy of the Social Sciences. (G) 3 credit hours each term.

Inquiry into the possibility of a science of society. Holism and methodological individualism; behaviorism; value-neutrality. Selected special topics, such as ideology, relativity of concepts, ethno-linguistics.

Graduate Courses

Phl 501. Research.

Credit hours to be arranged. A no-grade course.

Phl 503. Thesis.

Credit hours to be arranged. A no-grade course.

Phl 505. Reading and Conference.

Credit hours to be arranged.

Phl 507. Seminar.

Credit hours to be arranged.

Metaphysics.

Analytic Aesthetics.

Practical Reasoning.

Philosophical Conflict.

The Later Wittgenstein.

Problems in the Philosophy of Language.

Phl 511, 512, 513. Problems of Knowledge. 3 credit hours each term.

Examinations of attempts at philosophical analysis and justification of knowledge; perception, memory, induction, the self and other selves.

Phl 514, 515, 516. Ethical Theory. 3 credit hours each term.

An examination of contemporary ethical theory.

Phl 517, 518. Problems in Philosophy of Language. 3 credit hours each term.

Analysis of current issues in the philosophy of language. Prerequisite: Phl 316, 317, or consent of instructor. Offered alternate years.

Phl 523, 524. Problems in Philosophy of Mind. 3 credit hours each term.

Examination of current literature on perception, action, intention, motives and causes, other minds. Prerequisite: Phl 449, 450, or consent of instructor. Offered alternate years.

Physics

Faculty

- Department Head, Joel W. McClure, Jr., Ph.D., Professor of Physics (solid state theory). B.S., 1949, M.S., 1951, Northwestern; Ph.D., Chicago, 1954; at Oregon 1954-56, and since 1961.
- John C. Burg, M.S., Senior Instructor in Physics (science instruction). B.S., 1959, M.S., 1963, Oregon; at Oregon since 1965.
- Shang-Yi Ch'en, Ph.D., Professor of Physics (atomic spectroscopy). B.S., 1932, M.S., 1934, Yenching; Ph.D., California Institute of Technology, 1940; at Oregon since 1949.
- Bernd Crasemann, Ph.D., Professor of Physics (atomic and nuclear physics). A.B., California at Los Angeles, 1948; Ph.D., California, 1953; at Oregon since 1953.
- Paul L. Csonka, Ph.D., Associate Professor of Physics (elementary particle theory). Ph.D., Johns Hopkins, 1963; at Oregon since 1968.
- Francis E. Dart, Ph.D., Professor of Physics (science and society). B.A., Oberlin College, 1937; M.S., Notre Dame, 1939; Ph.D., Cornell, 1947; at Oregon since 1949.
- Russell J. Donnelly, Ph.D., Professor of Physics (superfluidity, astronomy, air pollution). B.Sc., 1951, M.Sc., 1952, McMaster University; M.S., 1953, Ph.D., 1956, Yale; at Oregon since 1966.
- Edwin G. Ebbighausen, Ph.D., Professor of Physics and Astronomy (astronomy). B.S., Minnesota, 1936; Ph.D., Chicago, 1940; at Oregon since 1946.
- Marvin D. Girardeau, Ph.D., Professor of Physics (many-body theory, statistical mechanics). B.S., Case Institute of Technology, 1952; M.S., Illinois, 1954; Ph.D., Syracuse, 1958; at Oregon since 1963.
- Amit Goswami, Ph.D., Associate Professor of Physics (theoretical nuclear physics). M.Sc., 1960, Ph.D., 1964, Calcutta University; at Oregon since 1968.
- Richard J. Higgins, Ph.D., Associate Professor of Physics (solid state physics). B.S., Massachusetts Institute of Technology, 1960; Ph.D., Northwestern, 1965; at Oregon since 1965.
- Rudolph C. Hwa, Ph.D., Associate Professor of Physics (elementary particle theory). B.S., 1952, M.S., 1953, Ph.D., 1957, (electrical engineering), Illinois; Ph.D., Brown, 1962; at Oregon since 1971.
- James C. Kemp, Ph.D., Professor of Physics (astronomy). A.B., 1955, Ph.D., 1960, California; at Oregon since 1961.
- Harlan W. Lefevre, Ph.D., Professor of Physics (nuclear physics). B.A., Reed, 1951; M.S., Idaho, 1957; Ph.D., Wisconsin, 1961; at Oregon since 1961.
- Douglas H. Lowndes, Ph.D., Assistant Professor of Physics (low temperature and metals). B.S., Stanford, 1961; Ph.D., Colorado, 1968; at Oregon since 1970.
- Gerald D. Mahan, Ph.D., Professor of Physics (solid state theory). Director of the Institute of Theoretical Science. A.B., Harvard, 1959; Ph.D., California, 1964; at Oregon since 1967.
- Brian W. Matthews, Ph.D., Professor of Physics (protein crystallography). B.Sc., 1959, B.Sc., (Honors, 1st Class), 1960; Ph.D., 1963, University of Adelaide; at Oregon since 1969.
- David K. McDaniels, Ph.D., Professor of Physics (nuclear physics). B.S., Washington State, 1951; M.S., 1958, Ph.D., 1960, Washington; at Oregon since 1963.
- Michael J. Moravcsik, Ph.D., Professor of Physics (elementary particle theory). A.B., Harvard, 1951; Ph.D., Cornell, 1956; at Oregon since 1967.
- Burton J. Moyer, Ph.D., Professor of Physics (nuclear physics). Dean, College of Liberal Arts. A.B., Seattle Pacific College, 1933; Ph.D., Washington, 1939; at Oregon since 1971. Deceased, April 21, 1973.
- Jack C. Overley, Ph.D., Associate Professor of Physics (nuclear physics). Assistant Dean for Science Services. B.S., Massachusetts Institute of Technology, 1954; Ph.D., California Institute of Technology, 1960; at Oregon since 1968.
- Kwangjai Park, Ph.D., Associate Professor of Physics (solid state physics). B.A., Harvard, 1958; Ph.D., California, 1965; at Oregon since 1966.
- John L. Powell, Ph.D., Professor of Physics (theoretical physics). B.A., Reed, 1943; Ph.D., Wisconsin, 1948; at Oregon since 1955.
- George W. Rayfield, Ph.D., Associate Professor of Physics (low temperature physics). B.S., Stanford, 1958; Ph.D., California, 1964; at Oregon since 1967.
- Gregory H. Wannier, Ph.D., Professor of Physics (theoretical solid state and atomic physics). Ph.D., University of Basel, 1935; at Oregon 1959, and since 1961.
- Robert L. Zimmerman, Ph.D., Associate Professor of Physics astrophysics, general relativity). B.A., Oregon, 1958; Ph.D., Washington, 1963; at Oregon since 1966.

Graduate Teaching Fellows

- Donald B. Bivin, B.A., California, Berkeley, 1966; M.S., Oregon, 1968; at Oregon since 1966.
- F. Louise Byrns, B.S., Minnesota, 1964; M.S., Oregon, 1966; at Oregon 1964-66, and since 1972.
- Gary L. Cabe, B.A., Linfield, 1972; at Oregon since 1972.
- Yung-Kwang Chang, B.S., National Taiwan University, 1964; M.A., Oregon, 1968; at Oregon since 1966.
- Swapan Chattopadhyay, B.S., Calcutta, 1970; M.S., Indian Institute of Technology, 1972; at Oregon since 1972.
- Wen-Zun Chen, B.S., FuJen Catholic University, Taiwan, 1968; M.S., Florida Institute of Technology, 1970; at Oregon since 1971.
- Ling-Shen Cheng, B.S., National Chiao-Tung University, Taiwan, 1969; M.S., Oregon, 1972; at Oregon since 1971.
- Yu-Tarng Cheng, B.S., Cheng Kung University, Taiwan, 1968; M.S., Oregon, 1971; at Oregon since 1969.
- Yun Chung, B.S., 1964, M.S., 1968, Yonsei University, Seoul; at Oregon since 1969.
- Michael W. Cromar, B.S., 1968, B.A., 1970, Stanford; at Oregon since 1970.

David H. Dye, B.S., Michigan, 1969; M.S., Oregon, 1971; at Oregon since 1969.

Pranab Ghosh, B.S., 1967, M.S., 1970, Calcutta; at Oregon since 1970.

John D. Gilbert, B.S., Fresno State, 1966; M.S., Oregon, 1969; at Oregon since 1968.

Michael B. Haxton, B.S., California, Santa Cruz, 1969; M.S., Oregon, 1971; at Oregon since 1969.

Tom R. Herrmann, B.A., Eastern Oregon College, 1971; at Oregon since 1972.

Gene E. Ice, B.S., Harvey Mudd College, 1972; at Oregon since 1972.

Michael D. Jones, B.A., Washington, 1972; at Oregon since 1972.

Munawar Karim, B.S., 1965, M.S., 1966, Dacca University; M.S., LeHigh University, 1969; at Oregon since 1970.

Zaka U. Khan, B.S., 1965, M.S., 1969, Government College, Lahore; M.Phil., University of Islamabad, 1970; at Oregon since 1971.

Kui-Chuen Lam, B.S., University of Hong Kong, 1968; M.S., Oregon, 1971; at Oregon since 1968.

Jye-Ren Liaw, B.S., Tsing-Hua University, Taiwan, 1968; M.S., Oregon, 1971; at Oregon since 1970.

Yueh-ping Liaw, B.S., Tunghai University, Taiwan, 1970; M.S., Oregon, 1972; at Oregon since 1970.

James G. Maloney, B.A., California, Berkeley, 1971; at Oregon since 1972.

James P. Matthesen, B.S., South Dakota School of Mines, 1963; M.S., Oregon, 1969; at Oregon since 1967.

Rudy R. Prater, B.A., Rice, 1972; at Oregon since 1972.

Ranjan Ray, B.S., 1967, M.S., 1970, Calcutta; at Oregon since 1970.

Leonard A. Rosi, B.A., California, Berkeley, 1969; at Oregon since 1970.

Richard M. Sealock, B.S., Iowa State, 1967; M.S., Oregon, 1968; at Oregon since 1967.

James O. Selzer, B.S., Baker University, 1970; at Oregon since 1971.

Neil Sidell, B.A., California, Riverside, 1968; M.S., Oregon, 1970; at Oregon since 1968.

Philip Varghese, B.S., 1964, M.S., 1966, University of Kerala, India; at Oregon since 1971.

Frank E. Vignola, B.A., California, Berkeley, 1967; M.S., Oregon, 1969; at Oregon since 1967.

Shih-yuan Wang, B.S., Taiwan Cheng Kung University, 1960; M.S., California, Los Angeles, 1964; at Oregon since 1969.

Ta-Cheng Wang, B.S., Tsing Hua University, Taiwan, 1969; M.S., Oregon, 1971; at Oregon since 1970.

Larry H. Weaver, B.A., 1963, B.S., 1965, Texas; M.A., Oregon, 1970; at Oregon since 1968.

Seung Yong Yoon, B.S., Sacramento State, 1968; M.S., Oregon, 1970; at Oregon since 1968.

Kuo-chech Yu, B.S., Tsing Hua University, Taiwan, 1969; at Oregon since 1972.

Li-liang Yu, B.S., Tunghai University, Taiwan, 1969; M.S., Oregon, 1971; at Oregon since 1970.

Special Staff

Gordon Aubrecht, Research Associate, Ph.D., Princeton, 1970.
 Mau Hsiung Chen, Research Associate, Ph.D., Oregon, 1972.

John C. Cooper, Research Associate, Ph.D., Oregon, 1970.
 Earl Gordon, Research Associate, Ph.D., McGill, 1972.
 Louis Johnson, Research Associate, Ph.D., Massachusetts Institute of Technology, 1973.
 Ira G. Nolt, Research Associate, Ph.D., Cornell, 1967.
 William J. Pardee, Research Associate, Ph.D., Illinois, 1971.
 James V. Radostitz, Research Associate, Washburn School, 1960.
 M. J. Throop, Research Associate, Ph.D., Iowa, 1968.

Undergraduate Studies

CCOURSES offered by the Department of Physics are planned to provide basic training for professional careers in physics, for persons who wish to obtain a broad liberal arts education centered around a major in physics, for major students in other science fields, for premedical and pre dental students, and for students planning to teach the physical sciences in the secondary schools.

Preparation for Entering Freshmen. Students planning to major in physics at the University should take as much mathematics in high school as possible. Students entering with insufficient preparation in mathematics must remedy their deficiencies in elementary courses offered by the University. Substantial preparation in English and a foreign language is desirable. High-school work in chemistry and physics is desirable but not required.

Preparation for Transfer Students. Students transferring from two-year colleges should be ready for upper-division course work. They should have completed a year sequence in differential and integral calculus, General Physics (Ph 201, 202, 203), Introductory Physics Laboratory (Ph 204, 205, 206), or equivalent courses, and a year sequence in chemistry, including laboratory. In addition, they should have completed as many basic courses and group requirements as possible.

Requirements for a Bachelor Degree. Students may qualify for either a Bachelor of Arts or a Bachelor of Science degree. A physics major who satisfies the Arts and Letters group requirement without taking a foreign language will generally be entitled to a Bachelor of Science degree. However, physics majors who contemplate graduate work are urged to include at least one foreign language in their undergraduate program and qualify for a Bachelor of Arts degree, since proficiency in a foreign language is required by most graduate schools.

To qualify for a bachelor degree with a major in physics, a student must complete General Physics (Ph 201, 202, 203), Introductory Physics Laboratory (Ph 204, 205, 206), and at least 24 credit hours in upper-division physics courses including Elements of Classical Physics (Ph 321, 322, 323) or Advanced General Physics (Ph 324, 325, 326). (Physics 407 may not be included in the 24 upper-division credit hours without explicit approval of the department.) All physics majors must complete a year sequence in differential and integral calculus and a year sequence in chemistry, including laboratory.

Students preparing for graduate work in physics should include in their programs: Electricity and Magnetism (Ph 441, 442, 443), Modern Physics (Ph 421, 422, 423), a year sequence in advanced calculus (Mth 331, 332, 333), and at least one additional upper-division sequence in physics.

Honors Program in Physics. To qualify for a bachelor degree with honors in physics, a student must complete a total of four

400-level three-term sequence physics courses, take all physics courses Pass-Differentiated (graded), must have at least a 3.5 grade point average in physics courses, and no grade of "C" in any physics course.

Secondary-School Teaching of Physics. For certification as a teacher of physics in Oregon high schools, the Oregon Board of Education requires (1) the satisfaction of certain minimum standards of subject preparation and (2) the recommendation of the institution at which the student completes subject preparation.

For information concerning subject preparation required to meet state standards in physics and to obtain the recommendation of the University of Oregon, the student should consult the member of the faculty of the Department of Physics who serves as adviser for prospective teachers.

Graduate Studies

THE Department of Physics offers a program of graduate work leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees, with a variety of opportunities for research. Research in the Department of Physics currently includes theoretical and experimental work in solid state physics, nuclear physics, elementary particle physics, statistical mechanics, astronomy, environmental physics, and atomic physics. Co-operative programs are also possible in biophysics through the Institute of Molecular Biology, in the Physical Chemistry or Chemical Physics programs of the Department of Chemistry, or in geophysics through the Center for Volcanology of the Department of Geology.

Entering students should consult closely with their advisers. Students showing a lack of preparation are advised to take the necessary undergraduate courses, without graduate credit, to remedy their deficiency.

Admission. For admission as a graduate student, the student must meet minimum University requirements described in the Graduate School section of the catalog. Applicants must submit the following documents to the Department of Physics: one copy of the official application; one copy of transcripts of all prior academic work; three letters of reference from people well acquainted with the candidate's ability and recent work in physics.

Foreign students should also submit scores on the Graduate Record Examination, including the Advanced Test, Physics category, and the Test of English as a Foreign Language (TOEFL) examination.

Master Degree Requirements. Course requirements for a master degree with a major in physics normally include, in addition to the substantial equivalent of the undergraduate physics degree: two 3-term sequences in physics, at least one of which must be a 500 sequence; and one of the following sequences in mathematics—Ordinary and Partial Differential Equations (Mth 465, 466, 467); Functions of a Complex Variable (Mth 421, 422), plus another term of 400 level mathematics; Linear Analysis in Applied Mathematics (Mth 531, 532, 533) or a 400 or 500 mathematics course especially approved by the Physics Department, prior to registration.

College Teacher Preparation. A substantial number of Oregon's graduate students intend to become college teachers. Most students acquire some teaching experience in the first year or two as teaching assistants. Students who want advanced experience may arrange a program of practice teaching supervised by physics fac-

ulty members, registering for credit in CI 509 Practicum College Teaching.

Ph.D. Degree Requirements. The Physics Department has few course requirements, relying primarily on demonstrated competence in the Qualifying Examination, Comprehensive Examination, and doctoral thesis research. A course schedule is arrived at in individual conferences with an adviser. After making up any gaps in undergraduate (400 level) background, the student generally prepares for the qualifying examination by taking graduate level Quantum Mechanics (Ph 531-533), Theoretical Mechanics (Ph 511-513), and Electromagnetic Theory (Ph 521-523).

The Ph.D. Qualifying Examination attempts to determine the student's ability and judgment, and perception of the relationship between the various fields of physics. It covers undergraduate physics (mechanics, electricity and magnetism, optics, modern physics, and thermodynamics) and the core of graduate physics (theoretical mechanics, statistical mechanics, quantum mechanics, and electromagnetic theory).

Before taking the Comprehensive Examination, the student is to round out personal knowledge of physics and to acquire a knowledge of some area of current research in physics. Advanced studies in at least two specialized fields will be pursued. Normally, the requirement is met by taking at least two courses, not all from the same class: Class I. Solid State and Statistical Physics; Class II. Nuclear and Particle Physics; Class III. Atomic Physics.

The Comprehensive Examination is usually an oral examination. The candidate will present a discussion, lasting about an hour, of a current problem in physics, and propose an idea for a research project. The candidate is expected to understand the background and fundamental physics of the problem, and to communicate this knowledge to physicists in other fields.

The thesis is the most important requirement. Every candidate for the Ph.D. degree must submit a thesis embodying the results of research, and showing evidence of originality and ability in independent investigation. The thesis must be a real contribution to knowledge, based on the candidate's own investigations. It must show a mastery of the literature of the subject, and be written in creditable literary style.

Foreign Language Requirement. The Department of Physics expects that all incoming graduate students whose native language is English will have proficiency in one of the following foreign languages: French, German, or Russian. Proficiency may be demonstrated by passing the foreign language standard achievement test of the College Entrance Examination Board, or by completing certain courses.

Students whose native language is *not* English may select English as the required foreign language. Such students must then pass an English proficiency test administered by the Counseling Center with an equivalent grade of "C" or better.

The language requirement must be satisfied before the student can take the Comprehensive Examination.

Ph 101, 102, 103. Essentials of Physics. 3 credit hours each term.

For students not majoring in physics, chemistry, or biology but whose major requires a sound technical knowledge of fundamental principles, and for others interested in general physics. Less mathematical preparation is required than for Ph 201, 202, 203. Three lectures. Prerequisite: Mth 95.

Ph 104, 105, 106. Descriptive Astronomy. 4 credit hours each term.

Descriptive treatment of both the solar and stellar systems, including the earth, moon, sun, planets, comets and meteors, properties of individual stars, star clusters, bright and dark nebulae, double and multiple stars, variable stars, our galaxy, the extragalactic system, and the expanding universe. Techniques of astronomical discovery are emphasized. Occasional viewing of celestial objects with a telescope. A working knowledge of high-school algebra is required. Four lectures.

Ph 114. Physics of Energy and Pollution. 3 credit hours.

Physical aspects of human use of energy and accompanying changes in the environment; nature of the present energy and environmental crises and suggested solutions; power needs and sources, pollution problems and remedies. Primarily for nonscience majors. Three lectures.

Ph 131. Physics of Sound and Music. 3 credit hours.

An elementary explanation of the physics of sound presented in a way particularly useful for music majors. Class size limited because of equipment used in demonstrations. Primarily for music majors. Three lecture/demonstrations.

Ph 199. Special Studies. 1-3 credit hours.**Ph 201, 202, 203. General Physics. 4 credit hours each term.**

First-year college physics for science majors. Prerequisite: for standard section, Mth 104, 105 or equivalent; for advanced section, prior study of calculus or concurrent registration in Mth 200 or Mth 204. Four lectures.

Ph 204, 205, 206. Introductory Physics Laboratory. 2 credit hours each term.

Introductions to principles and methods used in experimental science. Students learn to solve physical problems based on real physical situations, correlating experiment and theory. Fall: Experimental error, force, momentum, energy; winter: Electricity, magnetism, electronic measurements; spring: Optics, atomic and nuclear physics. One three-hour laboratory period.

NOTE: General physics and calculus, or consent of instructor, are prerequisite to all upper-division and graduate courses.

Ph 321, 322, 323. Elements of Classical Physics. 4 credit hours each term.

An intermediate treatment of mechanics, electricity and magnetism, and thermal physics. This course is especially suitable for students who plan to teach science subjects in secondary schools. Not open to students who have credit for Ph 324, 325, 326. Four lectures.

Ph 324, 325, 326. Advanced General Physics. 4 credit hours each term.

Fundamental principles of Newtonian mechanics; conservation laws; small oscillations; rigid bodies; special relativity; thermodynamics and kinetic theory of gases; introduction to statistical mechanics. Four lectures.

Ph 401. Research.

Credit hours to be arranged.

Ph 405. Reading and Conference.

Credit hours to be arranged.

Ph 409. Special Laboratory Problems.

Credit hours to be arranged.

Ph 409. Supervised Tutoring Practicum. 1-3 credit hours any term.

A no-grade course.

Upper-Division Courses Carrying Graduate Credit**Ph 407. Seminar. (G)**

Credit hours to be arranged.

Ph 417, 418, 419. Elements of Atomic, Nuclear, and Solid State Physics. (g) 4 credit hours each term.

An introductory treatment of atomic, nuclear, and solid state physics with major emphasis upon the experimental foundation of these subjects. This course is especially suitable for students preparing for secondary-school teaching of chemistry or physics. Topics covered include relativity, atomic structure, optical and X-ray spectra, nuclear reactions, fundamental particles, particle accelerators, crystal structures, and properties of metals, insulators, and semiconductors. Not open to students who have credit for Ph 421, 422, 423. Four lectures.

Ph 421, 422, 423. Modern Physics. (G) 3 credit hours each term.

The experimental foundations of quantum physics. Atomic physics; introductory nuclear physics; solid state physics. Prerequisite: Ph 321, 322, 323, or Ph 324, 325, 326, or consent of instructor. Not open to students who have credit for Ph 417, 418, 419. Three lectures.

Ph 431, 432, 433. Optics and Atomic Spectra. (G) 3 credit hours each term.

Image formation for coaxial systems, defects of images, effects of apertures, optical instruments. Interference, diffraction, polarization. Propagation of light through anisotropic media. Electromagnetic theory of reflection and refraction; absorption and dispersion; scattering; magneto- and electro-optics. Atomic energy states, vector model and quantum-mechanical description. Fine structure and hyper-fine structure, Zeeman effect. X-ray spectra. Three lectures.

Ph 434, 435, 436. Optics Laboratory. (G) 1 credit hour each term.

Laboratory exercises in geometrical and physical optics, designed to accompany the material discussed in Ph 431, 432, 433. One three-hour laboratory period.

Ph 441, 442, 443. Electricity and Magnetism. (G) 3 credit hours each term.

Advanced undergraduate study of electromagnetic phenomena, with primary emphasis on Maxwell's equations, electromagnetic waves and applications of wave theory to interference, diffraction, polarization, wave guides, cavities, etc. Prerequisite: Ph 321, 322, 323, or Ph 324, 325, 326. Three lectures.

Ph 451, 452, 453. Introduction to Quantum Mechanics. (G) 3 credit hours each term.

Elementary quantum mechanics; the Schroedinger equation, wave functions and wave packets, uncertainty principle, hermitian operators, one-dimensional problems, the WKBJ approximation, angular momentum and spin, the hydrogen atom, identical particles, approximate methods, elementary scattering theory. Prerequisite: Ph 321, 322, 323, or Ph 324, 325, 326 and concurrent registration in Ph 421, 422, 423. Three lectures.

Ph 461, 462, 463. Electronics. (G) 3 credit hours each term.

An introduction to electronic circuits and techniques of special relevance to measurements in present-day experimental physics. Linear passive networks; response to DC, AC, and transient signals. Nonlinear circuit elements; tubes and transistors; introduction to their behavior and simple applications. Operational amplifiers; their use in measurement, control, and analog

computing. Digital measurement techniques. Basic micro-wave techniques. Consent of instructor is required. Two lectures, one three-hour laboratory.

Ph 471, 472, 473. Introduction to Theoretical Physics. (G) 3 credit hours each term.

Mathematical treatment of theories of classical physics, including Lagrangian and Hamiltonian mechanics.

Ph 481. Special Relativity. (G) 3 credit hours.

The Lorentz Transformation, relativistic kinematics, 4-vectors, electromagnetic fields. Three lectures.

Ph 491. X-Ray Crystallography. (G) 4 credit hours.

X-ray diffraction. Bragg's law, crystal symmetry, the reciprocal lattice, structure factors and Fourier syntheses, the phase problem, methods of determining small and macromolecular crystal structures. Laboratory work includes manipulation and alignment of crystals, taking and analyzing X-ray photographs, and use of basic X-ray diffraction equipment. Three lectures, one laboratory period. Consent of instructor is required.

Graduate Courses

Ph 501. Research.

Credit hours to be arranged. A no-grade course.

Ph 503. Thesis.

Credit hours to be arranged. A no-grade course.

Ph 505. Reading and Conference.

Credit hours to be arranged.

Ph 507. Seminar.

Credit hours to be arranged.

Solid State Physics.
Nuclear Physics.
Liquid Helium.
Astrophysics.
Current Literature.
Theoretical Physics.

Ph 509. Supervised Tutoring Practicum. 1-3 credit hours any term.

A no-grade course.

Ph 511, 512, 513. Theoretical Mechanics. 3 credit hours each term.

Lagrangian and Hamiltonian mechanics; small oscillations; rigid bodies; introduction to statistical mechanics.

Ph 521, 522, 523. Electromagnetic Theory. 3 credit hours each term.

Microscopic form of Maxwell's equations; derivation and solution of the wave equation; relativistic formulation; motion of charges in given fields; propagation and diffraction; radiation by given sources; coupled motion of sources and fields; the electromagnetic field in dense media. Three lectures.

Ph 531, 532, 533. Quantum Mechanics. 3 credit hours each term.

Matter waves and Schroedinger equation; statistical interpretation; measurement process; uncertainty relations; complementarity; classical limit and WKB approximation; scattering symmetries and conservation laws; identical particles and permutation symmetry; approximation methods; Dirac equation; field quantization and radiation theory; recent advances. Prerequisite: Ph 451, 452, 453; Ph 511, 512, 513, and Ph 521, 522, 523, or concurrent registration in the latter two.

Ph 541, 542, 543. Statistical Physics. 3 credit hours each term.

Thermodynamics, statistical mechanics, kinetic theory; application to gases, liquids, solids, atoms, molecules, and the structure of matter. Three lectures.

Ph 551, 552, 553. Nuclear Physics. 3 credit hours each term.

Interaction of radiation with matter; detectors; accelerators; properties of nuclei; weak and electromagnetic interactions; elements of nuclear structure, including the two-nucleon system and models of complex nuclei; basic theory of nuclear reactions; subnuclear particles. Prerequisite: an introductory course in quantum mechanics, such as Ph 451, 452, 453.

Ph 554, 555, 556. Theoretical Nuclear Physics. 3 credit hours each term.

Selected topics on the theory of nuclear structure and nuclear reactions. Three lectures.

Ph 561, 562, 563. Elementary Particle Physics. 3 credit hours each term.

Intrinsic properties of elementary particles, conservation laws. Electromagnetic, strong and weak interactions of elementary particles. Fundamentals of experimental techniques used in particle physics. Field theory, S-matrix theory, group theory, and other constructs used in the theory of elementary particles. Phenomenological methods used to analyze particle reactions. Elements of scattering theory. Prerequisite: Ph 531, 532, 533, or equivalent. Three lectures.

Ph 564, 565, 566. Advanced Elementary Particle Physics. 3 credit hours each term.

Detailed discussion of special topics in elementary particle physics, to be chosen each year from such areas as scattering theory, field theory, dispersion relations, group theoretical symmetries, current algebras, general relativity, as well as other timely subjects as they arise in current elementary particle research. Prerequisite: Ph 561, 562, 563. Three lectures.

Ph 571, 572, 573. Solid State Physics. 3 credit hours each term.

Crystallography; thermal, electrical, optical, and magnetic properties of solids; band theory; metals, semiconductors, and insulators; defects in solids. Prerequisite: Ph 451, 452, 453.

Ph 574, 575, 576. Theory of Condensed Matter. 3 credit hours each term.

Advanced statistical mechanics and many-particle quantum mechanics, with emphasis on collective effects such as superfluidity, superconductivity, and ferromagnetism. Prerequisite: Ph 531, 532, 533, Ph 541, 542, 543, and Ph 571, 572, 573.

Ph 581, 582, 583. Atomic Spectra. 3 credit hours each term.

Relation of observed spectra to the theory of atomic and molecular structure, quantum mechanical model, electron configurations, spectral terms, Zeeman effect, Stark effect, hyperfine structure, X-ray spectra; spectral line shape; rotational, vibrational, and electronic band spectra of diatomic molecules.

Ph 584, 585, 586. Experimental Spectroscopy. 1 credit hour each term.

Spectroscopic instruments (prismatic and grating); flame, arc, and spark spectra of elements; analysis of series lines in atomic spectra; Zeeman effect, analysis of band spectra of diatomic molecules, absorption spectra, Raman spectra, and photographic photometry. One three-hour laboratory period.

Ph 594, 595, 596. General Relativity. 3 credit hours each term.

Tensor analysis and Riemannian geometry; Einstein's field equations; experimental observations; symmetries and conservation laws; gravitational radiation; other theories of gravity; applications to astrophysics and cosmology. Prerequisite: Ph 511, 512, 513. Three lectures.

Political Science

Faculty

- Department Head, Daniel Goldrich, Ph.D., Professor of Political Science (political development: American, third world). B.A., Antioch, 1955; M.A., 1957, Ph.D., 1959, North Carolina; at Oregon since 1963.
- Joseph M. Allman, Ph.D., Associate Professor of Political Science (community problem-solving). B.A., Antioch, 1960; M.A., 1966, Ph.D., 1968, Michigan State; at Oregon since 1966.
- James C. Davies, Ph.D., Professor of Political Science (political behavior; revolution; fiction). A.B., Oberlin, 1939; Ph.D., University of California, Berkeley, 1952; at Oregon since 1963.
- David J. Finlay, Ph.D., Professor of Political Science (international relations). B.A., Willamette, 1956; M.A., 1958, Ph.D., 1962, Stanford; at Oregon since 1965.
- Joseph R. Fiszman, Ph.D., Professor of Political Science (comparative politics). B.A., St. John's, Shanghai, 1948; M.A., Emory, 1956; Ph.D., Michigan State, 1964; at Oregon since 1959. (On sabbatical leave, 1973-74.)
- Arthur M. Hanhardt, Jr., Ph.D., Associate Professor of Political Science (comparative politics, Europe). B.A., Rochester, 1953; M.A., Colgate, 1958; Ph.D., Northwestern, 1963; at Oregon since 1963.
- Thomas Hovet, Jr., Ph.D., Professor of Political Science (international organization). A.B., Washington, 1948; M.A., New York University, 1949; Ph.D., New Zealand, 1954; at Oregon since 1965.
- James R. Klonoski, Ph.D., Professor of Political Science (American government; presidency; constitutional law). B.S., 1947, M.A., 1948; Minnesota; Ph.D., Michigan, 1958; at Oregon 1961-68, and since 1969.
- Jerry F. Medler, Ph.D., Associate Professor of Political Science (political theory, research methods). B.A., Northwestern, 1963; M.A., 1965, Ph.D., 1966, Oregon; at Oregon since 1968.
- Judith Merkle, M.A., Assistant Professor of Political Science (public administration). B.A., University of California, Berkeley, 1962; M.A., Harvard, 1964; at Oregon since 1971.
- Joyce M. Mitchell, Ph.D., Professor of Political Science (public policy, legislative politics). Associate Dean, Graduate School. B.A., Pomona, 1952; M.A., 1954, Ph.D., 1964, California at Los Angeles; at Oregon since 1960.
- William C. Mitchell, Ph.D., Professor of Political Science (democratic institutions, public policy). B.A., Michigan State, 1950; M.A., Illinois, 1951; Ph.D., Harvard, 1960; at Oregon since 1960.
- John M. Orbell, Ph.D., Associate Professor of Political Science (urban, elections). B.A., 1957, M.A., 1960, New Zealand; Ph.D., North Carolina, 1965; at Oregon since 1967.
- Lawrence C. Pierce, Ph.D., Assistant Professor of Political Science. Research Associate, Center for the Advanced Study of Educational Administration (public administration, public finance). B.A., Yale, 1959; M.P.A., 1965, Ph.D., 1970, Cornell; at Oregon since 1969.

- Parkes Riley, M.A., Assistant Professor of Political Science (South Asia, political theory). A.B., Harvard, 1963; M.A., California, Berkeley, 1965.
- Michael Robinson, Ph.D., Visiting Assistant Professor of Political Science (media, public behavior). B.A., Ohio State, 1967; M.A., 1968, Ph.D., 1972, Michigan; at Oregon since 1973.
- Charles Schleicher, Ph.D., Professor Emeritus of Political Science (international relations). A.B., College of Pacific, 1928; M.A., Hawaii, 1931; Ph.D., Stanford, 1936; at Oregon since 1947.
- Lester G. Seligman, Ph.D., Professor of Political Science (political parties). B.A., Chicago, 1939; Ph.D., Chicago, 1947; at Oregon since 1953. (Resigned, June 1973.)
- M. George Zaninovich, Ph.D., Professor of Political Science (political theory; eastern Europe). B.A., 1953, M.A., 1959, Ph.D., 1964, Stanford; at Oregon since 1966. (On sabbatical leave, fall 1973.)
- L. Harmon Zeigler, Ph.D., Professor of Political Science; Research Associate, Center for the Advanced Study of Educational Administration (American politics). B.A., 1957, M.A., 1958, Emory; Ph.D., Illinois, 1960; at Oregon since 1964.

POLITICAL Science at Oregon offers a variety of approaches to understanding politics and government. Students may study political science with an emphasis on the normative, traditional perspective, the "behavioral persuasion" of the 1950s and 60s, and the public policy and public choice thrust of the "post-behavioral era." The department encourages students to become involved in individual and group research projects, focusing on the political problems and issues besetting local, state, and national communities.

Undergraduate Studies

THE undergraduate program in political science is designed: (1) to provide a systematic understanding of the political process; (2) to provide a basic background to students preparing for careers in government (local, state, and national), law, journalism, and the teaching of social studies; (3) to prepare students for graduate work leading to professional careers in political science.

The 100- and 200-level (lower-division) courses in the department are designed to provide fundamental introductory courses, basic to building a major in political science.

The 300-level (upper-division) courses are designed to provide awareness of the chief areas and concerns of political science. PS 321, Introduction Political Analysis; PS 322, Introduction to Comparative Politics; and PS 325, World Politics, are conceived as primary courses, providing a useful basis for 400-level courses. In response to student demand, the department recently added several new 300 courses, including: PS 330, Introduction to Political Theory; PS 345, Urban Politics; PS 347, Political Power, Influence, and Control; and PS 348, The Politics of Education.

The 400-level (also upper-division) courses are the advanced and specialized courses in the department. A variety of these courses are offered in the chief areas of political theory and methodology, comparative government, public policy, and international relations. Seminars are offered in 407 courses; 407 courses are also used for senior practicums. At the discretion of the instructor, there may be specific course prerequisites for taking certain 400-level courses. It is recommended, but not required, that students have at least 9 credit hours in political science courses before taking 400-level courses.

Requirements for a Political Science Major. Students majoring in political science are required to complete a minimum of 42 credit hours of undergraduate political science courses leading to a Bachelor of Arts or Bachelor of Science degree. At least 30 credit hours must be in upper-division courses. All courses taken for the major requirement will be graded, with the exception that 12 credit hours of lower-division political science courses may be taken on a pass-no pass basis. No special political science courses are required to be taken for the major.

The department believes that each student should plan a personal course program in the light of what courses will be most useful for each individual student's career objective. The pass-no pass opportunity for 12 credit hours of lower-division courses is made available so that students will feel encouraged to get these fundamental courses without apprehension as to their grade. It is hoped that students taking those courses can therefore concentrate on building a solid base for other more advanced courses.

By requiring only 42 credit hours of courses, instead of specific course requirements, the department is placing the responsibility on each student to carefully plan a program of courses that will be most useful to career goals. It is recognized that different career goals may merit different course programs. We also recognize that a career goal may well involve not simply a planning of a course program in political science, but also should involve an awareness of courses in other departments of the University that are relevant. Undergraduate majors have to realize that the choice of courses they select may well effect their career opportunities. It is extremely important that decisions about a course program be carefully planned.

With the help of a faculty adviser, the student should set out a model program. This is not intended to be mandatory but rather to suggest what courses might be relevant for the particular career objectives. Some "model" course programs are available from the department. It is essential that a student consult as soon as possible before registration, and frequently thereafter, with advisers in considering choices of actual courses.

No requirements exist for entering freshmen. Students planning to transfer to Oregon from two-year colleges should take the basic introductory political science courses offered at those institutions. At least 6 credits in political science must be earned in residence at the University of Oregon to qualify for the departmental major as a B.A. or B.S. graduate in political science.

The department owns television equipment which is available for use in classes and for research projects undertaken by students under the direction of members of the staff.

Secondary-School Teaching of Social Studies. For certification as a teacher of social studies in Oregon high schools, the Oregon Board of Education requires (1) the satisfaction of certain minimum standards of subject preparation, (2) the satisfaction of certain minimum standards of professional education preparation, and (3) the recommendation of the institution at which the student completes the subject preparation. For details of this program,

consult the special adviser for teacher education in the Department of Political Science or the Office of Student Teaching and Teacher Certification in the College of Education.

Graduate Studies

THE Department of Political Science offers a graduate program of studies leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. The program is designed to prepare a student for teaching, research, and governmental or other public service, as well as to enable the student to understand and participate in public affairs. Regular members of the department, special lecturers, and occasional visiting faculty members offer advanced courses and seminars in most fields of political science. Joint faculty-student studies, inter-departmental research projects, and individual research are currently being conducted in such diverse areas as public administration in the United States and underdeveloped countries, political leadership, congressional and legislative voting, local community and interest-group power structures, mass media, political socialization, revolution, and communications in international relations.

The program is designed for flexibility. There are no courses specifically required (other than the Graduate School language requirement), and no designated fields of political science. A group of courses dealing with techniques of analysis is offered, but—because students enter graduate school with varying skills—no particular sequence is required. Students are encouraged to consult with their adviser and the course instructors in developing a "skill" program that meets their particular needs.

The student develops a program in conjunction with a special committee chosen by the student and consisting of three faculty members. This committee evaluates the student's progress toward a degree. During the first month of graduate work, each student selects a faculty member to serve as chairman of a special committee. It is the privilege of the graduate student to ask any faculty member in the department to serve as the chairman of the committee. The chairman discusses with the graduate student the area of interest in political science and recommends other faculty members either within the department or in other departments of the University who might represent those areas on the special committee.

During the first phase of the graduate program (for master candidates), the special committee (called Committee B, at this stage) helps the graduate student select a program of study and supervises the preparation of a bibliographic essay. The special committee also evaluates the essay and overall performance and decides whether the student is permitted to advance to the Ph.D. program.

During the second phase of the graduate program (for students in the Ph.D. program), each graduate student continues to be directed by a special committee. Since the student may have been uncertain of specific interests at the time the master committee was chosen, the student is encouraged to change the membership of the special committee (called Committee 1 and Committee 2, at this stage) as interests in political science change.

The three-person committee, however constituted, advises the student on the program of study, and supervises either the writing of two research papers or the teaching of a course or both. Because the committees for the two Ph.D. papers must not overlap,

students are obliged to work with at least six different faculty members: if they select different committees for their three papers and dissertation, they will have worked with at least twelve faculty members.

When the student has completed either a research paper or a course or both, the special committee evaluates the paper or course and schedules a public presentation. Successful completion and presentation of a research paper or course is a requisite for continuing on to a second paper or the teaching of a course. That is, Committee 1 advises on the first paper or course with oral examination. Upon successful completion of both research papers or one paper and teaching one course, the student is advanced to candidacy for the Ph.D. degree.

Details of the graduate program may be obtained by consulting the department. Information indicating admission requirements and procedures and describing graduate work will be provided by the department in response to all inquiries.

PS 100. American Government. 3 credit hours.

A theoretical introduction to American institutions, American political doctrines, and the American ideology as these affect the course of politics and public policy in America. Robinson, staff.

PS 105. Crisis and Response in International Politics. 3 credit hours.

Four major and continuing international crises examined in terms of the collective responses made by nation-states and international organizations: instability and conflict; environment; uneven economic development; population. A limited number of specific cases characterizing international crisis and response analyzed each term. Hanhardt.

PS 199. Special Studies. 1-3 credit hours.

Topics of study to be announced.

PS 203. State and Local Governments. 3 credit hours.

Emphasis is on linkage between elites (decision-makers) and masses, with attention to: values, beliefs, participation, process. Topics of study include mass participation, state and community elites, violence, public policy, and other related phases of the local and state political system. Structure of the political system not emphasized. Zeigler.

PS 205. International Relations. 3 credit hours.

Emphasis varies. (I) An introduction to the intellectual tools for the analysis of relations among nations; the nature of international relations. Staff. (II) Political and economic relations between the U.S. and the Third World. Sources of U.S. involvement in Third World politics: U.S. structure of power in foreign and defense policy areas; national security bureaucracy; concentration and growth of American political and economic power, consequences for relationships with the Third World; the public and foreign policy toward the Third World; development strategies. Goldrich, Finley, staff.

PS 207. Introduction to Political Science. 3 credit hours.

Theories, concepts, and research methods appropriate to understanding how conflicts among people are resolved; political analysis in the context of the behavioral sciences; conflict resolution; institutions, and organizations which operate to resolve conflict. Allman, Medler, staff.

PS 225. Political Ideologies. 3 credit hours.

Examines the relationship between political thought and political

action in terms of the basic ideologies: Fascism, Communism, Liberalism, Conservatism, and Anarchism.

PS 230. Urban Politics. 3 credit hours.

Conflict in cities; power structures; protest movements and political participation; urban political institutions; critiques of urban politics; black politics. Orbell.

PS 321. Introduction to Political Analysis. 3 credit hours.

Introductory survey of the basic scope and methods of contemporary political science, including: philosophy of social science, political ethics, empirical theory, and political methodology.

PS 322. Introduction to Comparative Politics. 3 credit hours.

Analysis of major concepts and approaches in the study of comparative government and politics. Hanhardt, Riley.

PS 325, 326. World Politics. 5 credit hours each term.

Systematic analysis of the nature of international society, and of the motivating and conditioning factors which explain interaction among states and other international entities. Schleicher.

PS 330. Introduction to Political Theory. 3 credit hours.

Various approaches suggested by selected political theorists, past and present; problem of knowledge as it relates to politics for practitioner and scientist; various modes of transmitting ideas about the nature of political experience; relationship between political knowledge and political activity. Zaninovich.

PS 337. Southern Asia in Modern Times. 5 credit hours.

Historical background and contemporary political systems and major problems of India, Pakistan, Bangladesh and Sri Lanka since 1947. Schleicher, Riley.

PS 338. Southern Asia in Modern Times. 5 credit hours.

Historical background and contemporary political systems and major problems of Burma, Thailand, Malaysia, Singapore, Laos, Cambodia, Vietnam, the Philippines, and Indonesia. Schleicher.

PS 340. Introduction to Public Policy. 3 credit hours.

Consideration of alternative means of explaining the process of policy-making, and alternative strategies of decision-making in the policy process, applied to issues of contemporary concern. J. Mitchell.

PS 345. Urban Politics. 3 credit hours.

Conflict in the city, general theory; power and political resources; where power resides; the uses of protest; the meanings of violence; strategies for the discontented; alternative strategies for blacks; community control as an alternative; preference for order or disorder; urban politics; a theoretical overview. Orbell.

PS 347. Political Power, Influence, and Control. 3 credit hours.

Examination of political power as a central concept in the study of politics and as an important aspect of political reality; major theoretical and empirical analyses in variety of contexts; power in interpersonal relations as well as governmental institutions; particular attention to relationship between power and democracy. Medler.

PS 348. The Politics of Education. 3 credit hours.

Assessment of the impact of high schools upon the political values and styles of students. Major emphasis of the course is: linkages between educational and political systems. Zeigler.

PS 351. Introduction to Public Administration. 3 credit hours.

Examination of various approaches to and conceptions of public

administration; application of various theories of administration to the study of public organizations; substantive problems of organizations; structure and internal administration; personnel and finance. Merkle, Pierce.

PS 403. Thesis.

Credit hours to be arranged.

PS 405. Reading and Conference.

Credit hours to be arranged.

PS 406. Supervised Field Study. 1-10 credit hours.**PS 407. Seminar. (G)**

Credit hours to be arranged. Not all of the following topics will be offered in any one year. Offerings vary from year to year, depending upon student interests and needs, and availability of faculty.

Political Revolution. Davies.

Biopolitics and Revolution. Davies.

Africa. Finlay.

African Political Literature. Finlay.

International Relations Theory. Finlay.

Students and Politics. Finlay.

Theory of Conflict and War. Finlay.

Comparative Communist Systems. Fiszman.

Comparative Labor Movements. Fiszman.

Comparative Community Politics. Fiszman.

Comparative East European Political Behavior. Fiszman.

Marxism: Classical and Contemporary. Fiszman.

Marxism: Revolution vs. Guerilla Warfare. Fiszman.

Political Literature USSR and Eastern Europe. Fiszman.

Problems in American Political Development. Goldrich.

Problems of Developing Nations. Goldrich.

Introduction to Comparative Politics. Hanhardt.

Political Economy of Aging. Hanhardt.

International Relations Theory. Hovet.

International Organization. Hovet.

International Law. Hovet.

Asian Political Thought. Hovet.

Comparative Administration. Merkle.

Comparative Government National Defense Policy. Merkle.

Russian Revolutionary Theory. Merkle.

Sino-Soviet Relations. Merkle.

Women in Politics. Merkle.

Introduction to Methodology. Medler.

Intermediate Research Methods. Medler.

Mathematical Foundations. Medler.

Policy Analysis. J. Mitchell.

Urban Problems. Orbell.

Salem Seminar. Pierce.

Public Control of Economic Life. Pierce.

History of Political Theory: Machiavelli to Rousseau. Riley.

History of Political Theory: Plato and Aristotle, Riley, Merkle.

Nationalism and Imperialism. Riley.

Comparative Politics of the Third World. Riley.

Empirical Political Theory. Riley.

Mass Media and American Politics. Robinson.

Political Development in the Balkans. Zaninovich.

Politics of Multi-Ethnic Societies. Zaninovich.

Myth, Ritual, and Authority. Zaninovich.

Marxist Political Theory. Zaninovich.

Philosophy of Political Inquiry. Zaninovich.

Comparative Communism: Theory and Method. Zaninovich.

PS 409. Supervised Tutoring Practicum.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

PS 412. Administrative Organization and Behavior. (G) 3 credit hours.

Theories of bureaucratic organization analyzed in different contexts; organizational theory considered, including small groups, the nature of authority and decision making; research findings from several social sciences brought to bear: implications of large-scale organization for the individual reviewed in attempt to understand the kinds of accommodations individuals make to complex structures. Merkle, Pierce.

PS 413. The Politics of Bureaucracy. (G) 3 credit hours.

Examination of effects of bureaucratic organization on the the behavior of people in bureaus, and the factors affecting the supply of goods and services by bureaus; alternative forms of public organization and the conditions under which they are likely to improve the performance of government. Pierce.

PS 414. Political Parties. (G) 3 credit hours.

Major theories of the United States political parties; the primary function of parties in the United States as compared with other systems; socializations and recruitment, political identification, voting behavior and party organizations. Seligman, Robinson.

PS 415. Political Parties. (G) 3 credit hours.

Political parties in the context of United States, federalism; parties in the states considered comparatively; Oregon political parties in the contexts of metropolitan areas; the interrelationships of parties on several levels of government; comparison with other systems. Robinson.

PS 416. Political Parties. (G) 3 credit hours.

Parties on the national level—in Congress, the Presidency, administration, interest groups; parties and national decision-making. Emphasis on the Presidency and political leadership. Comparison with Western Europe and developing systems. Robinson.

PS 420. International Organization. (G) 3 credit hours.

Nature and extent of the organization of interaction among nations. Focus on the United Nations, but illustrations and generalization from a wide range of regional and functional organizations including the specialized agencies. Emphasis is on the process of communication interaction and bargaining negotiation within the organization environment. Hovet.

PS 421. International Organization. (G) 3 credit hours.

Role of international organizations in the management and resolution of conflict. Specific conflict situations in the U.N., regional and functional organizations considered in attempting to assess the utility of international organizations in handling conflict and affecting integration among states. Hovet.

PS 422. International Law. (G) 3 credit hours.

Introduction to international public law as an aspect of international organization; international law and the political process; the international Court of Justice. Hovet.

PS 424. Politics of Western Europe I. (G) 3 credit hours.

Governmental institutions and political processes of Great Britain, France, the Federal Republic of Germany. Special attention to interest groups, parties and voting behavior in the period since World War II. Hanhardt.

PS 425. Politics of Western Europe II. (G) 3 credit hours.

Governmental institutions and political processes of the smaller

Western European democracies: Italy, Belgium, The Netherlands, and the Scandinavian countries. Hanhardt.

PS 427, 428. Government and Politics of the Soviet Union. (G) 3 credit hours each term.

Governmental institutions and political processes in the Soviet Union. Fiszman.

PS 430. Political Theory: General Issues. (G) 3 credit hours.

Various approaches suggested by selected political theorists, past and present; problem of knowledge as it relates to politics for practitioner and scientist; various modes of transmitting ideas about the nature of political experience; relationship between political knowledge and political activity. Zaninovich.

PS 431. Political Theory: Nature, Community, and Authority. (G) 3 credit hours.

Assumptions about man's nature and their implication for development of political theories; growth and character of associative experience and how this conditions the nature of political order; problems and methods of legitimizing and transforming of unstructured power into prescribed authority; range of institutional forms resulting from different conceptions of the authority system. Zaninovich.

PS 432. Political Theory: Participation, Change, and Leadership. (G) 3 credit hours.

Function of participation with respect to problems of political order; various theories of citizenship, freedom, and obligation that relate to this; causes and sources of socio-political dynamics with special focus upon problems of continuity and radical change; nature of political leadership and its role in both change and stability; function of symbols and ideals in the structure of political order. Zaninovich.

PS 435. Perspectives on Law. (G) 3 credit hours.

Systematic examination of the variety of perspectives on the concept of law generated in Western political thought; includes the views of Plato, Aristotle, Aquinas, Hobbes, Marx, Austin, Weber, Kelsen, contemporary scholars in legal anthropology. Offered in alternate years.

PS 438. Urban Politics. (G) 3 credit hours.

Theoretical perspectives; the dispute about power structures; the political context; community conflict; political participation; urban protest movements; new political forms, community control; black politics in the city. Instructor's consent is required. Orbell.

PS 440. Comparative Foreign Policies. (G) 3 credit hours.

Comparative analysis of the international behavior of selected states in conflict such as the Middle Eastern states, etc. Consideration of the systemic and societal variables influencing their behavior, and an analysis of the quality and content of their international behavior. Hovet.

PS 441. Comparative Foreign Policies. (G) 3 credit hours.

Comparative analysis of the international behavior of major states (i.e., USA, USSR, China). Consideration of the systemic and societal variables influencing their behavior, and an analysis of the quality and content of their international behavior. Hovet.

PS 442. Comparative Foreign Policies. (G) 3 credit hours.

A comparative analysis of the international behavior of selected developing states such as India, Nigeria, Brazil, others. Consideration of the systemic and societal variables influencing their behavior and an analysis of the quality and content of their international behavior. Hovet.

PS 452. Elections and Opinions. (G) 3 credit hours.

Electoral response in past presidential elections; electoral theory; primary elections; campaigning strategies; impact of the mass media. Orbell.

PS 453. Elections and Opinions. (G) 3 credit hours.

Attitudes and beliefs in politics; ideology; voter motivation and values; party response to voters; impact of mass preferences on policy outcomes; elections and the democratic order. Orbell.

PS 456. Democratic Institutions. (G) 3 credit hours.

The more typical institutions of democratic systems. W. Mitchell, Riley.

PS 457. Democratic Processes. (G) 3 credit hours.

Detailed attention paid to democratic processes of resource allocation, distributions of benefits, and burdens and control. W. Mitchell, Riley.

PS 458. Democracy and Public Policy. (G) 3 credit hours.

Historical, social, economic, and psychological conditions which have affected the development and maintenance of democratic systems. W. Mitchell.

PS 460, 461. Government and Politics of the Far East: China. (G) 3 credit hours each term.

The political organization of modern China and the political behavior of significant groups of elites within Communist China; historical and ideological background, revolutions, the problems facing the present regime, the relationships with other Communist states; treatment of various classes and groups in terms of ideology as well as political practice. Merkle.

PS 463. Government and Politics of Latin America. (G) 3 credit hours.

Concept, structure, and dynamics of dependency; the inter-American political economy; the degree of interdependence between the U.S. and Latin America regarding markets, trade, resources, investment; the relevance of the Chinese model; range of third-world formulations on development values and associated strategies; the ecological crisis in relation to Latin America's escape from dependency. Goldrich.

PS 464. Government and Politics of Latin America. (G) 3 credit hours.

A comparative assessment of development directions in the dynamic Latin American societies—Brazil, Peru, Chile, and Cuba; special attention to the Andean Common Market. Consequences of the adopted strategy in meeting basic human material and social needs. Special resources or weaknesses of each country for developing independence. Goldrich.

PS 466. Government Budgeting. (G) 3 credit hours.

Introduction to major theories, practices, and problems of government budgeting. Theory of public-resource allocation, the Federal budget, budgeting practices, incremental budgeting, program budgeting, the planning-programming-budgeting system, budgetary control, the politics of budgeting, inter-governmental fiscal relations, state and local budgeting, and current problems of government budgeting. Pierce.

PS 467. The American Presidency. (G) 3 credit hours.

The Presidency is viewed as the single most important office and institution in American society. Its limits are duly noted, but primary emphasis is placed on the capacity of the office and its occupants for directing the course of change in the nation's domestic life and international relations. Klonoski.

PS 470. Political Behavior. (G) 5 credit hours.

Political behavior of individuals examined in the light of

psychological and sociological theory; types of political institutions and kinds of government adapted to the needs and behavioral tendencies of people living in either developing or modern industrial and technological society. Recommended prerequisite: an introductory psychology course. Davies.

PS 475. Political Revolution. (G) 5 credit hours.

Analysis of causes of revolution, using historical, psychological, and sociological data to explain how violent changes in political power come about. Analysis of specific past revolutions in the search for common phenomena and general theory. Prerequisite: PS 470 or consent of instructor. Davies.

PS 476. Political Revolution: Research and Theory. (G) 5 credit hours.

Oral and written reports on particular revolutions or revolutions in general. Prerequisite: PS 475. Davies.

PS 478. Political Fiction. (G) 5 credit hours.

Analysis of a variety of novels and other literature in the light of the implications of such works for the understanding of why people act as they do in their relationships to government. Recommended prerequisite: PS 470 and PS 475. Davies.

PS 482. Legislative Politics. (G) 3 credit hours.

The study of legislative operations in various governmental settings; their functions and exercises of power, composition, decision-making, and influence in the political system. J. Mitchell.

PS 483. Allocation of Justice. (G) 3 credit hours.

Study of the nature of justice and how it is administered by police, lawyers, district attorneys, juries, and judges. Klonoski.

PS 484. The Supreme Court in America. (G) 3 credit hours.

The Supreme Court is analyzed as a political body and the judicial role is studied in the context of the economic, political, social, and psychological factors that influence the Court's decision. Klonoski.

PS 485. Civil Rights and Civil Liberties. (G) 3 credit hours.

The Supreme Court's rulings on civil liberties and civil rights, freedom and equality, especially since 1953. Klonoski.

PS 488. The Policy Process. (G) 3 credit hours.

Systematic study of the factors involved in policy-making. Sources of demands, nature of decisions, problems of effectuation, and political consequences compared in various policy areas. J. Mitchell.

PS 489. Comparative Public Policies. (G) 3 credit hours.

Definition and measurement of public policies for comparative purposes, in local, national and cross-national settings. Means of assessing their relationships, purposes, and impacts. Investigation of comparative theories about policymaking in terms of political, social, and environmental factors.

PS 490. Community Politics I. (G) 3 credit hours.

Analysis of the nature of political processes and institutions at the local level, formal and informal decision-making; distribution of political power in the context of democratic theory. Students prepare and show an audio-visual presentation (film, video tape, etc.) analyzing some aspect of community politics. Medler.

PS 491. Community Politics II. (G) 3 credit hours.

Critical analysis of research in the area of community politics. Students are encouraged to develop and execute their own research projects. Prerequisite: PS 490. Medler.

PS 492. Political Decision-Making. (G) 3 credit hours.

Field studies, explorations of collective or public decision-making, theories of power, goals, and strategies, competition, and coalition formation applied to a variety of current political situations. J. Mitchell.

PS 493. Political Decision-Making. (G) 3 credit hours.

Use of rational criteria in the analysis and evaluation of public policies. Cost-benefit analysis, budgeting and economic considerations, systems analysis, allocative and distributive criteria. Pierce.

PS 496. National Security Policy. (G) 3 credit hours.

Factors in the development of national security policy, with emphasis upon decision-making, and the implications and consequences of such policies, nationally and abroad. J. Mitchell, Merkle.

Graduate Courses

PS 501. Research.

Credit hours to be arranged.

PS 503. Thesis.

Credit hours to be arranged. A no-grade course.

PS 505. Reading and Conference.

Credit hours to be arranged.

PS 507. Seminar.

Credit hours to be arranged.

Political Fiction: Novels and Others Writings. Davies.

Political Behavior. Davies.

Contemporary Political Theory. W. Mitchell.

PS 509. Teaching Practicum. 1-5 credit hours.

Psychology

Faculty

- Department Head, Robert F. Fagot, Ph.D., Professor (measurement theory, choice theory, psychophysics). B.S., Massachusetts Institute of Technology, 1946; Ph.D., Stanford, 1956; at Oregon since 1956.
- Harold S. Arkowitz, Ph.D., Assistant Professor (clinical, psychotherapy research, social anxiety). B.A., New York University, 1962; M.A., 1964, Ph.D., 1968, Pennsylvania; at Oregon since 1968.
- Fred Attneave, Ph.D., Professor (perception, learning). B.A., Mississippi, 1942; Ph.D., Stanford, 1950; at Oregon since 1958. On sabbatical leave, 1973-74.
- Jacob Beck, Ph.D., Professor (perception, psychophysics, vision). B.A., Yeshiva, 1950; M.A., 1951, Ph.D., 1957, Cornell; at Oregon since 1966.
- Robyn M. Dawes, Ph.D., Professor (social judgment, assessment, math models). B.A., Harvard, 1958; M.A., 1960, Ph.D., 1963, Michigan; at Oregon since 1967. On sabbatical leave, 1973-74.
- Beverly Fagot, Ph.D., Assistant Professor (developmental, early childhood). B.A., Occidental, 1960; Ph.D., Oregon, 1967; at Oregon since 1965.
- John C. Fentress, Ph.D., Associate Professor; dual appointment with Biology (ethological analysis of behavior, neural stimulation and conditioning). B.A., Amherst, 1961; Ph.D., Cambridge, 1965; at Oregon since 1967.
- Fred Fosmire, Ph.D., Professor (social, group problem solving, group consultation). B.A., 1948, M.A., 1949, Ph.D., 1952, Texas; at Oregon since 1958.
- Lewis Goldberg, Ph.D., Professor (assessment, personality, clinical judgment). A.B., Harvard, 1953; M.A., 1954, Ph.D., 1958, Michigan; at Oregon since 1960.
- Barbara Gordon-Lickey, Ph.D., Associate Professor (sensory physiology, sensory processing). A.B., Radcliffe, 1963; Ph.D., Massachusetts Institute of Technology, 1966; at Oregon since 1969.
- Marvin Gordon-Lickey, Ph.D., Associate Professor (physiological, learning). A.B., Oberlin, 1959; M.A., 1962, Ph.D., 1965, Michigan; at Oregon since 1967.
- Douglas Hintzman, Ph.D., Associate Professor (human learning and memory, computer simulation of cognitive processes). B.A., Northwestern, 1963; Ph.D., Stanford, 1967; at Oregon since 1969.
- Ray Hyman, Ph.D., Professor (perception-cognition, coding processes, problem solving). A.B., Boston, 1950; M.A., 1952, Ph.D., 1953, Johns Hopkins; at Oregon since 1961.
- Stephen M. Johnson, Ph.D., Associate Professor (behavior modification, child clinical, family interaction). B.A., Pittsburgh, 1964; M.A., 1966, Ph.D., 1968, Northwestern; at Oregon since 1968.
- Steven Keele, Ph.D., Associate Professor (human learning, human performance, motor skills). B.S., Oregon, 1962; M.S., 1965, Ph.D., 1966, Wisconsin; at Oregon since 1968.
- James G. Kelly, Ph.D., Professor, dual appointment with CSPA (human ecology and methods of social intervention). B.A., Cincinnati, 1953; M.A., Bowling Green, 1954; Ph.D., Texas, 1958; at Oregon since 1972.
- Carolyn Keutzer, Ph.D., Assistant Professor (laboratory learning, interpersonal communication, outcome research in psychotherapy). B.A., 1958, M.A., 1963, Ph.D., 1967, Oregon; at Oregon since 1967.
- Daniel P. Kimble, Ph.D., Professor (physiological, memory). B.A., Knox, 1956; Ph.D., Michigan, 1961; at Oregon since 1963.
- Robert Leeper, Ph.D., Professor Emeritus (learning, personality). B.A., Allegheny, 1925; M.A., 1928, Ph.D., 1930, Clark; at Oregon since 1937.
- Peter M. Lewinsohn, Ph.D., Professor (clinical, depression, neuropsychology). B.S., Allegheny, 1951; M.A., 1953, Ph.D., 1955, Johns Hopkins; at Oregon since 1965.
- Edward Lichtenstein, Ph.D., Professor (clinical, psychotherapy research, community). B.A., Duke, 1956; M.A., 1957, Ph.D., 1961, Michigan; at Oregon since 1966. On sabbatical leave, 1973-74.
- Richard Littman, Ph.D., Professor (experimental, systematic, developmental). A.B., George Washington, 1943; Ph.D., Ohio State, 1948; at Oregon since 1948.
- Joseph LoPiccolo, Ph.D., Assistant Professor (clinical, sexual behavior and dysfunction). B.A., UCLA, 1965; M.S., 1967, Ph.D., 1969, Yale; at Oregon since 1969.
- Richard Marrocco, Ph.D., Assistant Professor (sensory psychophysiology, vision). B.A., UCLA, 1965; Ph.D., Indiana, 1971; at Oregon since 1973.
- Michael I. Posner, Ph.D., Professor (thinking, human performance, learning). B.S., 1957, M.S., 1959, Washington; Ph.D., Michigan, 1962; at Oregon since 1965. On sabbatical leave, 1973-74.
- Mary K. Rothbart, Ph.D., Assistant Professor (developmental, socialization, development of laughter and humor in children). B.A., Reed, 1962; Ph.D., Stanford, 1967; at Oregon since 1969.
- Myron Rothbart, Ph.D., Associate Professor (social, personality). B.A., Reed, 1962; Ph.D., Stanford, 1966; at Oregon since 1969.
- Gerald Reicher, Ph.D., Assistant Professor (memory, perception). A.B., California, 1963; Ph.D., Michigan, 1968; at Oregon since 1967.
- Philip Runkel, Ph.D., Professor (social, cognitive structure), dual appointment with CASEA. B.S., Wisconsin State, 1939; M.A., 1954, Ph.D., 1956, Michigan; at Oregon since 1964.
- William Sheppard, Ph.D., Assistant Professor (development, learning, behavior modification). B.A., 1964, M.A., 1965, Ph.D., 1967, Michigan; at Oregon since 1967.
- Benson Schaeffer, Ph.D., Associate Professor (developmental, cognitive, psycholinguistics). B.A., 1962, M.A., 1964, Ph.D., 1969, California; at Oregon since 1966.
- Norman Sundberg, Ph.D., Professor (clinical, personality, community). B.A., Nebraska, 1947; M.A., 1949, Ph.D., 1952, Minnesota; at Oregon since 1952. On sabbatical leave, 1972-73.
- Leona Tyler, Ph.D., Professor Emeritus (individual differences, interest development). B.S., 1925, M.S., 1939, Ph.D., 1941, Minnesota; at Oregon since 1940.

Robert L. Weiss, Ph.D., Professor (clinical, personality, marital interaction). B.A., 1952, Ph.D., 1958, State University of New York at Buffalo; at Oregon since 1966. On sabbatical leave 1973-74.

Wayne Wickelgren, Ph.D., Professor (learning and memory). A.B., Harvard, 1960; Ph.D., Berkeley, 1962; at Oregon since 1969.

Undergraduate Studies

THE undergraduate courses in psychology offered by the University are designed to serve several different objectives: to provide a sound basis for later professional or graduate training in psychology; to satisfy the needs of students, majors and non-majors, who are interested in psychology primarily as a part of a broad liberal education; and to provide a background in psychological principles and techniques as intellectual tools for work in other social and biological sciences and in such professional fields as education, business, law, and journalism.

The lower-division courses are intended to facilitate the several objectives of the psychology curriculum. Three different year sequences in introductory psychology are offered: Psy 211, 212, 213; Psy 214, 215, 216; Psy 217, 218, 219 (Honors College). Any one of these sequences will provide adequate preparation for upper-division courses in psychology.

The following courses have been approved for satisfaction of the social science and science group requirements which partially fulfill the graduation requirements for all University undergraduates:

Social Science. Personality (Psy 214); Developmental (Psy 215); Social (Psy 216); Theories of Personality (Psy 451); Personality Research (Psy 452); Psychology of Work (Psy 454); Social Psychology I: Attitudes and Social Behavior (Psy 456); Social Psychology II: Group Processes (Psy 457); Experimental Social Psychology Laboratory (Psy 458); Prejudice (Psy 459); Human Conflict and Accord (Psy 460); Group Consultation (Psy 462); Group and Individual Differences (Psy 465); Principles and Methods of Psychological Assessment (Psy 470); Personality and Individual Differences Laboratory (Psy 472); Developmental Psychology (Psy 475); Developmental I: Psychobiological (Psy 476); Developmental II: Learning and Perception (Psy 477); Developmental III: Socialization (Psy 478); Abnormal Psychology (Psy 480); Survey of Psychotherapeutic Methods (Psy 486); Human Sexual Behavior (Psy 488).

Science. Sensation and Perception (Psy 211); Learning, Thinking, Conditioning (Psy 212); Introduction to Physiological Psychology (Psy 213); Introduction to Experimental Psychology (Psy 217, 218, 219); Quantitative Methods in Psychology (Psy 324); Advanced Experimental (Psy 411, 412, 413); Psychology of Learning (Psy 414); Conditioning and Learning (Psy 417); Human Learning and Cognition (Psy 418); Laboratory in Learning (Psy 420); Human Performance (Psy 423); Thinking (Psy 426); Psychology of Perception (Psy 429); Laboratory in Perception (Psy 430); Introduction to Mathematical Psychology (Psy 433); Animal Behavior (Psy 436); Comparative Psychology (Psy 442); Motivation (Psy 444); Brain Mechanisms of Behavior (Psy 446); Cellular Mechanisms of Behavior (Psy 447); Higher Brain Function (Psy 448); Sensory Processes (Psy 449); History and Systems of Psychology (Psy 450).

Major Requirements. The following are the requirements for an undergraduate major in psychology:

A minimum of 36 credit hours in psychology courses, including at least 24 upper-division hours, is required of all psychology majors. At least 12 of the required upper-division hours must be taken at the University of Oregon. Mth 425 and/or 426 (or, alternatively, Mth 441 and/or 442) may be included in the 24-hour upper-division requirement. Of the 36 credit hours used to satisfy the major requirement, at least 24 must be taken on a graded basis; a minimum grade-point average of 2.00 is required in all psychology courses.

Students who do not plan to take graduate work in psychology may arrange a program of courses which will contribute to a career in teaching, social service, or other professions. Such a program should be planned in consultation with the Department of Psychology.

Honors. Students with outstanding records who plan to pursue a career in psychology may consider applying to the department's Honors Program at the end of their junior year. The Honors Program centers around a thesis, an independent research project, which the student develops and carries out under the supervision of a departmental committee. Information about admission criteria and how to apply are available from the Department Office.

Preparation for Graduate Study. A bachelor degree is seldom sufficient qualification for professional work in psychology; even the simpler professional positions require at least a master degree.

Students should not undertake graduate work unless their grades in undergraduate psychology and related courses have averaged better than B.

Prospective graduate students in psychology are advised to take only the minimum of 36 credit hours in psychology required for an undergraduate major (a suggested maximum is 42 hours)—leaving time for work in such related fields as anthropology, biology, computer science, chemistry, mathematics, physics, and sociology. Preparation for graduate work should include courses in quantitative methods and a foreign language. All prospective graduate students are expected to take at least one upper-division laboratory course, and are strongly urged to take at least two terms of statistics in the Department of Mathematics. A student who intends to work for a Ph.D. degree should acquire a reading knowledge of at least one foreign language; languages with particular relevance for psychologists are German, French, Russian, and Japanese.

Graduate Studies

THE department emphasizes graduate work leading to the degree of Doctor of Philosophy and also awards the degrees of Master of Arts and Master of Science primarily to those students working toward a Ph.D. The four major graduate programs are: general experimental; physiological, which emphasizes an interdisciplinary program in cooperation with the Department of Biology; clinical; and developmental-social-personality. The department maintains a general experimental laboratory, animal laboratories, and a psychology clinic, as well as several other specialized facilities.

All students applying for admission for graduate work in psychology must provide scores on the Graduate Record Examination,

verbal, and quantitative scores and three letters of recommendation on special forms provided by the department. Detailed information on admission, including application forms and information on awards and assistantships, may be obtained from the Department of Psychology.

During the first year of graduate work, students acquire a broad background in psychology and an introduction to research. The student's specific program is planned to suit a prior background, current interests, and future goals. A thesis is required for all advanced degrees. Research experience is required of all Ph.D. candidates, and teaching experience is recommended. For general regulations governing graduate work at the University, see Graduate School section of this catalog.

Clinical Program. A research-oriented approach to theories and methods of clinical psychology is followed by the Department of Psychology. A clinical psychologist, in the view of the department, is a behavioral scientist with an area of specialization in clinical psychology. As a part of the graduate training, the student learns to devise approaches to clinical problems which lead to a better conceptual understanding of the phenomena under study. The program stresses a data-oriented approach to the complexities of clinical problems. During the first and second years of graduate study the student completes (1) the core program, including work in experimental psychology and quantitative methods, (2) a pro-seminar in clinical research topics, and (3) a clinical core sequence in assessment and in behavior change, with an associated practicum. The second-year practicum experience, as well as advanced-level clinical-research training is provided in large part through the University Psychology Clinic, a training clinic operated by the clinical staff and students.

Beyond the second year, there is considerable latitude in planning a program of study and research. The student must pass a major clinical preliminary examination (covering assessment, psychopathology, and behavior change) and a minor preliminary examination in an area selected by the student as a special interest (e.g., learning approaches to behavior change, social psychology, etc.). A one-year clinical internship, which may be taken in either the third or fourth year, is required to provide the necessary breadth of experience.

Psy 211. Sensation and Perception. 4 credit hours.

Introduction to sensory and perception processes; demonstrations.

Psy 212. Learning, Thinking, and Conditioning. 4 credit hours.

Classical and operant conditioning; acquisition, retention, and utilization of information and behavior; demonstrations.

Psy 213. Introduction to Physiological Psychology. 4 credit hours.

Consideration of brain functions with special emphasis on problems of sensation, perception, and motivation.

Psy 214. Personality. 4 credit hours.

Nature and organization of personality, normal and abnormal; individual differences; psychometric and behavioral assessment.

Psy 215. Developmental Psychology. 4 credit hours.

Growth of individual and social forms of behavior (mainly in man); intelligence; motor behavior; perception, learning and other cognitive functions; motivation and emotion.

Psy 216. Social Psychology. 4 credit hours.

Attitudes and beliefs; social perception and judgment; communication; social interaction and group influences on behavior; aggression, compliance, and independence.

Psy 217, 218, 219. Introduction to Experimental Psychology (Honors College). 4 credit hours each term.

An integrated lecture-laboratory course designed to acquaint the student with the fundamental concepts and facts in perception, learning, and motivation. Open to selected students outside Honors College through permission of instructor. Enrollment limited to twenty to twenty-five.

Psy 324. Quantitative Methods in Psychology. 4 credit hours.

Methods which psychologists have devised for summarizing, describing, and interpreting information from field observations, clinical work, interviews, sensory judgments, learning trials, tests, and experiments. Lectures and supervised workshops.

Psy 401. Research.

Credit hours to be arranged.

Psy 403. Thesis.

Credit hours to be arranged.

Psy 405. Reading and Conference.

Credit hours to be arranged.

Psy 409. Practicum. 1-3 credit hours any term.

A no-grade course.

Upper-Division Courses Carrying Graduate Credit

Psy 407. Seminar. (g)

Credit hours to be arranged. Opportunity for small groups of students to pursue further the subject matter of an upper-division course or to explore in depth a specific topic arising out of material covered in a course. The seminars offered vary from year to year depending upon interests and needs of students and upon availability of faculty. Typical subjects are: Drugs and Behavior. Humanistic. Behavior Technology. Problem-Solving. Pseudopsychologies. Computers and Psychology.

Psy 411, 412, 413. Advanced Experimental Psychology. (G) 3 credit hours each term.

Attempts an understanding of the functional operations of the human nervous system in perceiving, remembering, transforming, and responding to information; techniques of information theory, signal-detection theory, statistics, and computer control of experiments; laboratory work, data analysis, and experimental design integrated with substantive material. Consent of instructor is required. Prerequisite: Introductory Psychology, Statistics.

Psy 414. Psychology of Learning. (g) 3 credit hours.

Survey of fundamental concepts of conditioning, rote-learning, discrimination, problem-solving, memory, and motor skill. Theory and experimental literature.

Psy 417. Conditioning and Learning. (G) 3 credit hours.

Survey of the fundamental concept of the acquisition, mainte-

nance, and modification of respondent and operant behavior. Students planning to take Psy 420 are advised to take Psy 417 and Psy 418 in the junior year.

Psy 418. Human Learning and Cognition. (G) 3 credit hours.

Rote verbal learning, coding processes in human learning, attention, memory, skills, motivational factors in learning, and concept formation. Consent of instructor is required. Prerequisite: Psy 417. Students planning to take Psy 420 are advised to take Psy 417 and Psy 418 in their junior year.

Psy 420. Laboratory in Learning. (g) 3 credit hours.

Laboratory work in design, conduct, and analysis of experiments in learning. Prerequisite: Psy 417, 418, Psy 324, or equivalent, or consent of instructor.

Psy 423. Human Performance. (g) 3 credit hours.

Unified approach to the complexities of skilled human performance. The capacities which man brings to the performance of motor and intellectual skills; limitations in human ability to sense, perceive, store, and transmit information; experimental analysis of the flow of information within the human nervous system; applications of performance principles to the study of man-machine systems. Prerequisite: Psy 324, or equivalent.

Psy 426. Thinking. (G) 3 credit hours.

Learning and use of concepts; problem-solving; decision-making; cognitive development and creativity. Prerequisite: Psy 414, or equivalent, or consent of instructor.

Psy 429. Psychology of Perception. (g) 3 credit hours.

Survey of fundamental concepts of vision, audition, somesthesia, etc. Psychophysiological factors and psychophysical methodology. Psy 324 strongly recommended as preparation.

Psy 430. Laboratory in Perception. (g) 3 credit hours.

Laboratory work in design, conduct, and analysis of experiments in perception. Prerequisite: Psy 324.

Psy 433. Introduction to Mathematical Psychology. (G) 3 credit hours.

Mathematical theory construction in selected areas of psychology; learning, perception, measurement, social psychology, choice behavior. Prerequisite: Mth 425, or equivalent.

Psy 436. Animal Behavior. (G) 3 credit hours.

Survey of ethology plus its relation to experimental psychology and the biological sciences. Areas include: evolutionary and comparative foundations, sensory-motor integration, neural control of behavior sequences, interactions between motivational systems, neuro-behavioral development. Prerequisite: upper-division work in psychology or biology.

Psy 439. Laboratory in Animal Behavior. (g) 2 credit hours.

Laboratory experience with rats and monkeys. Prerequisite: Psy 324.

Psy 442. Comparative Psychology. (g) 3 credit hours.

Survey of learning, motivation, and perception in selected species of animals; phylogenetic comparison and the modern viewpoint.

Psy 444. Motivation. (g) 3 credit hours.

Conceptions of motivation; human and animal research on instinct, arousal, motivational physiology, learned motives, conflict and stress, and organization of dispositions.

Psy 446. Brain Mechanisms of Behavior. (g) 3 credit hours.

The functional organization of the mammalian brain, including that of man. Brain mechanisms of sensation, perception, arousal

and vigilance, reproductive behavior, and memory. Prerequisite: previous work in biology or Psy 213.

Psy 447. Cellular Mechanisms of Behavior. (G) 3 credit hours.

The physiological and biophysical properties of nerve cells which provide mechanisms underlying coordinated movement, sensation, perception, and certain aspects of motivation. Prerequisite: chemistry or physics.

Psy 448. Higher Brain Function. (g) 3 credit hours.

Concentration on the possible neural basis of higher brain functions such as selective attention, perceptual discrimination, pattern recognition, and motor control. Prerequisite: Psy 446 or 447.

Psy 449. Sensory Processes. (G) 3 credit hours.

Cellular mechanisms of sensory reception and coding in the major mammalian sensory modalities. Prerequisite: Psy 447, Bi 414, or Psy 446.

Psy 450. History and Systems of Psychology. (G) 3 credit hours.

Survey of the development of modern psychology. Critical study of the comprehensive theoretical systems such as behaviorism, S-R psychology, Gestalt psychology, psychoanalysis, and mathematical models, developed to help deal with the methodological and substantive problems of psychology. Prerequisite: 12 credit hours of upper-division psychology.

Psy 451. Theories of Personality. (g) 3 credit hours.

A description of the main phenomena of personality and a critical comparison of the outstanding conceptual systems that have been developed to account for these phenomena.

Psy 452. Personality Research. (g) 3 credit hours.

A review of current areas of personality research deriving from the leading conceptual models of individual differences; how knowledge about personality effects is generated; examination of organismic and situational influences on behavior; acquisition of personality traits, development of self-concept, interpersonal perception, studies of modeling, and behavior change. Prerequisite: Psy 451 or equivalent.

Psy 454. Psychology of Work.

Factors that influence man's efficiency and his motivation to work. Topics include: boredom, fatigue, aging, incentives, working environment, decision-making, design of man-machine systems, achievement motivation, and social influences.

Psy 456. Social Psychology I: Attitudes and Social Behavior. (G) 3 credit hours.

Examination of the factors that lead to the development, maintenance, and modification of social attitudes and beliefs; theory and research on human aggression, prejudice, and altruism examined in order to analyze the attitudinal and situational components of social behavior.

Psy 457. Social Psychology II: Group Processes. (G) 3 credit hours.

Relationship of the individual to social environment, especially in participation in small groups; social perception and motivation as shown in the acquaintance process, power and dependence, roles in the group and the part played by the group in attitude change. Materials and issues treated in terms of basic psychological concepts. Psy 456 recommended.

Psy 458. Experimental Social Psychology Laboratory. (g) 3 credit hours.

Research methods and problems in social psychology. Readings and coordinate laboratory problems in theory and research,

experimental design, experimental methods, the social psychology of the individual, group influence upon individual behavior, social interaction, and group structure and membership. Students required to complete a minimum of two experiments either individually or with a subgroup. Prerequisite: Psy 456, 457, or consent of instructor.

Psy 459. Prejudice. (g) 3 credit hours.

Examination of theory and research on the origins, maintenance, and modification of intergroup prejudice. Prerequisite: Previous course work in social psychology, or consent of instructor.

Psy 460. Human Conflict and Accord. (g) 3 credit hours.

Nature of interpersonal and intergroup conflict; aggression, nonviolence, social trust, conflict control procedures, personality and conflict; conflict and accord in such groups as the family and the community.

Psy 462. Group Consultation. (G) 3 credit hours.

Laboratory course in the study, evaluation, and modification of group processes. Emphasis on conceptualization of problem-solving groups as parts of larger social systems, with particular attention to the analysis of constraints imposed by the larger system. Prerequisite: Psy 456 or 457, Soc 430 or 431, or consent of instructor.

Psy 465. Group and Individual Differences. (g) 3 credit hours.

Basic principles for quantitative assessment of human characteristics; research findings concerning intelligence, achievement, aptitudes, interests, and personality; group differences related to sex, age, social class, race, nationality. Psy 324, or equivalent, recommended as preparation for this course.

Psy 470. Principles and Methods of Psychological Assessment. (g) 3 credit hours.

Application of psychological methods to the study of the individual; theoretical and statistical rationale of test construction and interpretation; problems involved in the prediction of human behavior; survey of psychological assessment techniques. Prerequisite: Psy 324, or Mth 425, or equivalent.

Psy 472. Personality and Individual Differences Laboratory. (g) 3 credit hours.

Design, conduct, and analysis of experiments in personality and developmental psychology. Prerequisite: Psy 324, 470, or 452, or equivalent.

Psy 475. Developmental Psychology. (g) 3 credit hours.

Survey of the development of behavior and psychological activity through the prenatal period, infancy, childhood, adolescence, maturity, and senescence. Topics include development of language and cognition, socialization, emotional development, and the development of motor capabilities. Emphasis on social influences. Intended for students not wanting the depth of Psy 476, 477, 478.

Psy 476. Developmental Psychology I: Psychobiological. (G) 3 credit hours.

Early development of the young child and the young of other species. Emphasis is psychobiological. Developmental psychophysiology, ethological approaches, behavior genetics, prenatal development, effects of early experience, and aging. Consent of instructor is required. Prerequisite: prior course work in physiological or comparative psychology.

Psy 477. Developmental Psychology II: Learning and Perception. (G) 3 credit hours.

Intellectual development in children: classical and operant

conditioning, memory, attention and concept formation; perceptual, motor and language development. Prerequisite: prior course work in learning, or consent of instructor.

Psy 478. Developmental Psychology III: Socialization. (G) 3 credit hours.

Socialization processes in infancy, childhood, adolescence, maturity, and old age. Emphasis on the development of attachments in infants, growth of identification, conscience and morality, importance of peer groups, role of family interaction, and the development of psychopathology. Prerequisite: prior course work in personality, social, abnormal, or developmental psychology, or consent of instructor.

Psy 480. Abnormal Psychology. (g) 3 credit hours.

Various forms of unusual behavior, including anxiety states, hysteria, hypnotic phenomena, and psychoses. Normal motives and adjustments considered in their exaggerations in the so-called neurotic person. Psy 324 is recommended as preparation for this course.

Psy 486. Survey of Psychotherapeutic Methods. (g) 3 credit hours.

Overview of the major models and methods of psychological treatment and their application in both community and institutional settings. Prerequisite: Psy 480, or equivalent, or consent of instructor.

Psy 488. Human Sexual Behavior. (g) 3 credit hours.

The nature of human sexuality; hormonal, instinctual, and learned factors in sexuality; psychosexual development; frequency and significance of various types of sexual behavior; sexual inadequacy; homosexuality; sexual deviation.

Graduate Courses

Psy 501. Research.

Credit hours to be arranged. A no-grade course.

Psy 502. Supervised College Teaching.

Credit hours to be arranged. A no-grade course.

Psy 503. Thesis.

Credit hours to be arranged. A no-grade course.

Psy 505. Reading and Conference.

Credit hours to be arranged. A no-grade course. Topics vary from year to year.

Psy 507. Seminar.

Credit hours to be arranged. Seminars offered vary from year to year, depending on faculty interests. Typical studies are: Human Performance. Keele, Posner. Theories of Choice Behavior. Fagot. Mathematical Models. Memory. Reicher, Hintzman, Wickelgren. Perception. Attneave, Beck. Proseminar in Developmental-Personality-Social Psychology. Proseminar in Physiological Psychology. Proseminar in Experimental Psychology. Thinking. Posner, Hyman.

Psy 508. Clinical Work with Children. 1-9 credit hours.

Work with deviant children and their families, emphasizing the behavior-modification approach. Enrollment for minimum of three consecutive terms. Prerequisite: course work in learning and behavior modification, and consent of instructor.

Psy 509. Practicum. 1-9 credit hours.

Supervised work in assessment and treatment coordinated with didactic clinical core courses. Consent of instructor is required.

Psy 511, 512, 513. Statistical and Quantitative Methods in Psychology. 3 credit hours each term.

Application of basic concepts of probability and statistics to psychological problems. Use of probability theory in psychological theory construction; application of multivariate methods; design of experiments in psychology. Prerequisite: Mth 425, or equivalent.

Psy 514. Learning. 3 credit hours.

The capacities and functions involved in learning, storage, retrieval, and transformation of information in a variety of experimental situations. Discussion involves studies of classical and instrumental learning, skill learning, short- and long-term memory, classification and rule learning, problem solving, and language behavior. Prerequisite: Basic knowledge of experimental psychology, consent of instructor.

Psy 515. Perception. 3 credit hours.

Factual knowledge and theory concerning sensory function and perceptual information processing.

Psy 516. Physiological Psychology. 3 credit hours.

A survey of the fundamental aspects of brain-behavior relationships. Neuron physiology, sensory systems, nonspecific afferent systems; emotion, motivation, and learning from neurophysiological viewpoint. Lectures and discussion.

Psy 517. Social Psychology. 3 credit hours.

Current theory and research concerning the individual within a social context.

Psy 518. Developmental Psychology. 3 credit hours.

Study of the development of the child's behavior and judgment from infancy to early adolescence. Topics include the development of conceptual ability, language, affectional and social behavior, aggression, imitation, and morality. Emphasis on cognitive development viewed from both learning theory and Piagetian frameworks.

Psy 519. Personality. 3 credit hours.

Critical consideration of personality theory and research.

Psy 520. Psychopathology. 3 credit hours.

Problems in the definition and measurement of deviant behavior; critical review of research literature on etiology, intervention, and outcome in psychoses, neuroses, and personality disorders. Prerequisite: Psy 480 or consent of the instructor.

Psy 521. History and Systems of Psychology. 3 credit hours.

Analysis of selected psychological problems in an historical and methodological perspective. Topics vary from year to year.

Psy 524, 525, 526. Proseminar in Clinical Psychology. 1-3 credit hours each term.

Survey of current issues and problems in clinical psychology with emphasis on the application of relevant research strategies. Required of first-year graduate students in clinical psychology. A no-grade course.

Psy 528. Assessment I: Psychological Testing. 3 credit hours.

Theories and methods of objective psychological test construction, emphasizing logic of test construction, reliability, validity, and other psychometric problems. Prerequisite: Psy 512, or equivalent.

Psy 529. Assessment II: Personality Assessment. 3 credit hours.

Theory, methods, and related research in approaches to personality assessment, including projective and objective methods. Prerequisite: Psy 512, or equivalent, and Psy 528.

Psy 530. Assessment III: Assessment of Cognitive Functions. 3 credit hours.

Intensive study of selected clinical decision-making situations requiring information about cognitive functioning. Includes a practicum with neurologically damaged individuals. Prerequisite: Psy 528 and 529, or equivalent.

Psy 531. Behavior Change I: Interview Therapies. 3 credit hours.

Comparative review of the major systems of individual psychotherapy. Required of second year clinical graduate students; for other students, consent of instructor is required.

Psy 532. Behavior Change II: Behavior Modification. 3 credit hours.

Selected topics of the experimental and theoretical basis of behavioral modification techniques and issues related to their application. Course goals: (1) To familiarize the student with extant procedures and their origins in experimental psychology; (2) to indicate strengths and limitations of these techniques; and (3) to suggest specific problem areas requiring research exploration. Required of second year clinical graduate students; for other students, consent of instructor is required.

Psy 533. Behavior Change III: Child and Family Therapy. 3 credit hours.

Selected approaches to the conceptualization and modification of deviant child behaviors, particularly in the family setting; emphasis on interpersonal and operant approaches to child and family therapy. Required of second-year clinical graduate students; for other students, consent of instructor is required.

Psy 534. Research in Psychotherapeutic Methods. 3 credit hours.

Empirical and methodological contributions to the problems of evaluating behavior change in individual psychotherapy; emphasis on process variables affecting behavior change.

Psy 535. Advanced Social Psychology. 3 credit hours.

Social behavior in relation to current psychological theory and research.

Psy 536. Experimental Methods in Social Psychology. 3 credit hours.

A critical analysis of the design and implementation of laboratory experiments concerning social behavior.

Psy 537, 538, 539. Advanced Clinical-Research Practicum. 1-9 credit hours each term.

Specialized work with particular clinical problems (e.g., depression, self-control, etc.), focusing on the development of testable hypotheses about the phenomena. Students work in small teams with the clinical staff in an attempt to generate systematic assessment and treatment approaches.

Psy 543. Measurement: Theory and Application. 3 credit hours.

Nature of measurement; logic of measurement; the role of measurement in psychological theory; theory and application of psychological scaling methods. Prerequisite: Psy 511, or equivalent.

Psy 544. Choice Behavior. 3 credit hours.

Measurement and choice behavior; algebraic and probabilistic

theories of choice for certain and uncertain outcomes. Prerequisite: Psy 543, and elementary probability theory.

Psy 546. Multivariate Methods in Psychology. 3 credit hours.

Theory and application to psychology of factor analysis and other multivariate methods. Prerequisite: Psy 512 or equivalent.

Psy 560. Advanced Physiological Psychology. 3 credit hours.

Theory of nervous-system function in learning, motivation, and perception. Detailed study of special areas.

Psy 566. Advanced Psychology of Perception. 3 credit hours.

Basic problems and phenomena of perception.

Psy 570. Advanced Animal Psychology. 3 credit hours.

Special topics in animal learning, motivation, and species-comparison.

Psy 572, 573, 574. Advanced Psychology of Learning and Thinking. 3 credit hours each term.

Detailed study of special topics in learning, thinking, and problem solving.

Religious Studies

Faculty

Department Head, Jack T. Sanders, Ph.D., Associate Professor of Religious Studies (biblical studies). B.A., Texas Wesleyan, 1956; B.D., Emory, 1960; Ph.D., Claremont, 1963; at Oregon since 1969.

Stephen C. Reynolds, Ph.D., Associate Professor of Religious Studies (history of western religious thought). B.A., Princeton, 1958; M.A., 1963, Ph.D., 1966, Harvard; at Oregon since 1966.

Alan L. Stephenson, Ph.D., Visiting Assistant Professor of Religious Studies (Oriental religions). B.B.A., Oklahoma, 1957; Th.M., 1964, Ph.D., 1971, Claremont; at Oregon 1970-1973.

G. Douglas Straton, Ph.D., Professor of Religious Studies (philosophy of religion and ethics). B.A., Harvard, 1938; B.D., Andover Newton, 1941; Ph.D., Columbia, 1950; at Oregon since 1959. Department head, 1959-73. (On sabbatical leave, 1973-74.)

Paul B. Means, Ph.D., Professor Emeritus of Religious Studies. B.A., Yale, 1915; B.Litt., Oxford, 1923; Ph.D., Columbia, 1935; at Oregon since 1941.

THE Department of Religious Studies is nonsectarian in spirit, the aim being to acquaint students with the far-reaching influence of religion in the cultural history of the world. Its courses are planned in accordance with the same standards of scholarship recognized in other departments of the University.

Through these courses, the University seeks to develop an understanding of the nature and processes of religious thought and experience, and to relate these to the problems of our time. The courses are also intended to meet the needs of students whose major work in other fields fits them for positions of leadership, and who can become effective and influential in the religious and spiritual life of their communities through a better understanding of the power of religion in men's lives and in the destiny of civilization.

In winter term, the department sponsors a Distinguished Visiting Lecturers Program, which brings to the campus for several days of lectures and meetings outstanding scholars in the field of religion.

Major in Religious Studies. An undergraduate student majoring in the Department of Religious Studies is introduced to the basic areas of this discipline: Biblical history, literature, and thought; religions of the world, including western religious thought and institutions; philosophy of religion; and ethics within a Judaeo-Christian perspective. In the course of his or her program, beyond the basic departmental requirements as indicated below, the student is expected to focus on one of these core areas for more intensive study.

In addition to the option of a general major, an elected honors program requires the writing of a senior dissertation in the field of concentration selected from among the above-named areas, and a grade average of 3.5 within the department.

Requirements for the Departmental Major. A minimum of 45 pass-differentiated (graded) credit hours, including an upper-division requirement of at least 27 credit hours. Nine credit hours of designated courses in religious studies in other departments may be taken. These may be chosen from Elementary Logic (Phl 221) 3 credit hours; History of Ancient Philosophy (Phl 301, 302, 303) or History of Modern Philosophy (Phl 304, 305, 306) 9 credit hours; Philosophy of Religion (Phl 455, 456) 6 credit hours; Religion and Magic of Primitives, Folklore and Mythology (Anth 444, 445) 6 credit hours; Literature of the English Bible (Eng 306, 307) 6 credit hours; Sociology of Religion (Soc 461) 3 credit hours; Social Factors in American History (Hst 471) 3 credit hours; History of Oriental Art (ArH 207, 208, 209) 9 credit hours; Ancient Mediterranean Art (ArH 411, 412, 413) 3 credit hours each term; Greek and Roman Art (ArH 414, 415, 416) 3 credit hours each term; Eastern Medieval Art (ArH 421, 422, 423) 9 credit hours; New Testament Readings (CL 231, 232) 1 credit hour each term; Liturgics (Mus 468) 3 credit hours; Sacred Choral Music (Mus 469) 3 credit hours.

R 201, 202, 203. Great Religions of the World. 3 credit hours each term.

Study of the Hindu-Buddhist, Confucian-Taoist, Zoroastrian, Judeo-Christian, and Islamic philosophic and religious systems. Special attention to the philosophy of these religions as shown in their classic scriptures; concluding resumé of their present organization and major sectarian divergencies; analysis of their world views, conceptions of God, nature, man, ethics, human destiny, and salvation. R 202 prerequisite to 203. Straton, Reynolds.

R 301. Religions of Mankind (India). 3 credit hours.

Study of the cultic expressions, philosophical foundations, and sectarian manifestations of Vedic religion, classical Hinduism, Jainism, Theravada and early Mahayana Buddhism, and Sikhism with attention to the scriptures and related texts of each tradition. Stephenson.

R 302. Religions of Mankind (China and Japan). 3 credit hours.

Study of the cultic expressions, philosophical foundations, and sectarian manifestations of Taoism, Confucianism, Shinto and Chinese, Japanese and Vietnamese Buddhism, with attention to the scriptures and related texts of each tradition. Stephenson.

R 303. Religions of Mankind (Ancient Near East). 3 credit hours.

Study of the principal religious concepts and practices of the civilizations of the Ancient Near East: Egypt, Mesopotamia, Crete, Asia Minor, Persia, and Israel. Sanders.

R 304. Religions of Mankind (Ancient Mediterranean). 3 credit hours.

Religions of ancient Greece and Rome, including the Hellenistic period, and the beginnings of Christianity. Sanders.

R 305. Religions of Mankind (Judaism and Christianity since C.E. 70). 3 credit hours.

Study of post-Biblical developments in Judaism and Christianity, including the rise of Talmudic Judaism; medieval Jewish philosophy and mysticism, and modern developments, especially the Enlightenment and Zionism; the separation of Christianity from Judaism and the appearance of Christian Hellenism; the patristic synthesis; the East-West rift in Christianity and the medieval reform movements; the Reformation; post-Reformation Christendom. Reynolds.

R 306. Religions of Mankind (Post-Biblical Near and Middle Eastern Religion). 3 credit hours.

Study of the rise of Islam and its extension in Asia and Africa; Muslim theology, philosophy, and mysticism; the transition to the modern nation-state, and recent developments in Islam. Attention will also be given to non-Muslim religious communities within the Muslim world. Reynolds.

R 307, 308, 309. The Bible and Civilization. 3 credit hours each term.

Survey of the social and religious history of Israel and Christianity from about 2,000 BCE to 150 CE. The growth of religious and ethical ideas, and the origins and teachings of major books in the Bible, including Apocrypha and New Testament. Must be taken in sequence. Sanders.

R 321, 322, 323. History of Christian Thought and Institutions. 3 credit hours each term.

The course of Christian history in East and West; the relations between spirituality, doctrine, and institutional forms. Fall: from the New Testament period to the age of Justinian; winter: the Middle Ages, the schism between East and West, and the reform movement in the West; spring: the Reformation and the modern period. Reynolds.

R 324, 325. History of Eastern Orthodox Christianity. 3 credit hours each term.

Winter: the church in the Eastern Roman Empire and its expansion in Europe; the eastern churches and Islam. Spring: the eastern churches from the fifteenth century to the present. Prerequisite: R 321, or equivalent. Reynolds.

Upper-Division Courses Carrying Graduate Credit**R 405. Reading and Conference. (g)**

Credit hours to be arranged. Normally offered only to meet the course needs of majors in the department.

R 407. Seminar. (g)

Credit hours to be arranged.

R 419, 420. Philosophy of Religion. (g) 3 credit hours each term.

Concepts of reality and human nature within a religious perspective. Fall: method in philosophy of religion, major ideas

of Deity, patterns of reasoning concerning God as personal being, the problem of evil; winter: idea of man as spiritual, moral, and religious being in the light of other philosophies of man. Straton.

R 421. Contemporary Social Problems and Religion. (g) 3 credit hours spring.

The idea of ethical duty in a religious perspective; the New Testament and ethical problems, the ethics of the family and sexuality, of race, of the political and economic orders; the concepts of history and human destiny in Judeo-Christian thought. Straton.

R 422. Psychology of Religion. (g) 3 credit hours.

Contributions of psychology to the understanding of various forms of religious behavior.

R 423, 424, 425. Contemporary Philosophies of Religion and Theological Movements. (g) 3 credit hours each term.

A study of representative philosophers of religion and theologians of the 20th century. Attention to the traditions of idealism, personalism, and mysticism; naturalism, existentialism; neo-orthodoxy, neo-Thomism, death of God, theology of hope; critical analysis and religious belief. Selected readings from such thinkers as Dewey, Wieman, Whitehead, Cobb, Teilhard de Chardin, Boodin, Royce, Brightman, Underhill, Radhakrishnan, the Niebuhrs, Tillich, Buber, Maritain; Barth, Bonhoeffer, Bultmann, Altizer, Fletcher, and others. Straton, Stephenson.

R 430, 431, 432. Oriental Philosophies of Religion. (g) 3 credit hours each term.

An intensive study of the history of Oriental religions and philosophical thought, and of the varied issues of the major sectarian traditions of the Orient.

R 440. Foundations of Biblical Ethics. (g) 3 credit hours.

The basic ethical principles endorsed or proposed by biblical writers; special attention to the deuteronomic law code, the prophets, Jesus, and Paul. Prerequisite: R 307, 308, 309, or consent of instructor. Sanders.

R 441. Recent Discoveries in Biblical Studies. (g) 3 credit hours.

The significance for biblical studies of recently found texts, such as the Dead Sea Scrolls and the Coptic Gnostic Library, and recent archaeological discoveries. Prerequisite: R 307, 308, 309, or consent of instructor. Sanders.

R 442. Recent Developments in Biblical Theology. (g) 3 credit hours.

The major writings in biblical theology that have been formative for the present generation. The most recent innovations and *avant garde* positions. Prerequisite: R 307, 308, 309, or consent of instructor. Sanders.

Romance Languages

Faculty

- Department Head, Perry J. Powers, Ph.D., Professor of Romance Languages (Spanish Golden Age). B.A., Oregon, 1941; Ph.D., Johns Hopkins, 1947; at Oregon since 1946. (On sabbatical leave, 1973-74.)
- George Ayora, Ph.D., Assistant Professor of Romance Languages (Spanish-American literature). B.A., 1962, M.A., 1964, University of Washington; Ph.D., Vanderbilt University, 1969; at Oregon since 1970.
- Graciela Batista, M.A., Instructor in Romance Languages (Spanish). B.S., Havana, 1940; M.A., Oregon, 1967; at Oregon since 1970.
- Chandler B. Beall, Ph.D., Professor Emeritus of Romance Languages. B.A., 1922, Ph.D., 1930, Johns Hopkins; at Oregon since 1929.
- Randi M. Birn, Ph.D., Associate Professor of Romance Languages (contemporary French literature). Cand. Philol., Oslo, 1960; Ph.D., Illinois, 1965; at Oregon since 1965.
- Françoise Calin, Ph.D. (twentieth-century French). B.A., Sorbonne, 1964; Ph.D., Stanford, 1972; at Oregon since 1973.
- William Calin, Ph.D. (medieval French literature). B.A., 1957, Ph.D., 1960, Yale; at Oregon since 1973.
- Gino A. Casagrande, M.A., Instructor in Romance Languages (Italian language and literature). B.S., 1955, M.A., 1966, California; at Oregon since 1965.
- Henry F. Cooper, M.A., Senior Instructor in Romance Languages (French). B.A., Willamette, 1950; M.A., Middlebury, 1956; at Oregon since 1960.
- David J. Curland, M.A., Senior Instructor in Romance Languages (Spanish). B.A., California at Los Angeles, 1950; M.A., Oregon, 1963; at Oregon since 1966.
- Richard H. Desroches, Ph.D., Associate Professor of Romance Languages (18th-Century French literature). B.A., Clark University, 1947; Ph.D., Yale, 1962; at Oregon since 1957.
- David M. Dougherty, Ph.D., Professor Emeritus of Romance Languages. B.A., Delaware, 1925; M.A., 1927, Ph.D., 1932, Harvard; at Oregon since 1947.
- Colette M. Freitag, Instructor in French; at Oregon since 1965.
- Lilian R. Furst, Ph.D., Professor of Romance Languages, Director of Comparative Literature Program. B.A., Manchester, 1952; Ph.D., Cambridge, 1957; at Oregon since 1972.
- Sylvia B. Giustina, M.A., Instructor in Romance Languages (Italian). B.A., Marylhurst, 1956; M.A., Oregon, 1966; at Oregon since 1968.
- Thomas R. Hart, Ph.D., Professor of Romance Languages (Spanish, Portuguese, Middle Ages, Renaissance). B.A., 1948, Ph.D., 1952, Yale; at Oregon since 1964.
- Emmanuel S. Hatzantonis, Ph.D., Professor of Romance Languages (Italian language and literature). B.A., City College of New York, 1952; M.A., Columbia, 1953; Ph.D., California, 1958; at Oregon since 1959.
- Robert M. Jackson, Ph.D., Assistant Professor of Romance Languages (Spanish narrative). B.A., Dartmouth, 1963; M.A., 1964, Ph.D., 1968, Harvard; at Oregon since 1969.
- Carl L. Johnson, Professor Emeritus of Romance Languages. B.A., 1924, M.A., 1925, Iowa; Ph.D., Harvard, 1933; at Oregon since 1935.
- Elisabeth A. Marlow, Ph.D., Assistant Professor of Romance Languages (French, 17th-century literature and civilization). Diploma, Hautes Etudes Commerciales, Paris; M.A., 1958, Ph.D., 1966, Oregon; at Oregon since 1958.
- Louis A. Olivier, M.A., Instructor in Romance Languages (18th-19th century French novel). B.A., 1962, M.A., 1963, Utah; at Oregon since 1966. (On leave of absence 1973-74.)
- Steven F. Rendall, Ph.D., Associate Professor of Romance Languages (French literature). B.A., Colorado, 1961; Ph.D., Johns Hopkins, 1967; at Oregon since 1967. (On sabbatical leave, 1973-74.)
- José Miguel Sobré, Ph.D., Visiting Assistant Professor of Romance Languages (Spanish literature). Licenciado, Barcelona, 1966; M.A., 1969, Ph.D., 1972, Oregon; at Oregon since 1971.
- Wolfgang F. Sohlich, Ph.D., Assistant Professor of Romance Languages (modern French poetry, theater). B.A., Johns Hopkins, 1959; M.A., 1970, Ph.D., 1971, Emory; at Oregon since 1970.
- Leavitt O. Wright, Ph.D., Professor Emeritus of Romance Languages. B.A., Harvard, 1914; Ph.D., California, 1928; at Oregon since 1926.

Graduate Teaching Fellows

- Theresa C. Albert (French). B.A., Willamette, 1972; at Oregon since 1972.
- Jacques V. Beteinber (French). Licence, Sorbonne, 1965; at Oregon since 1972.
- Ohannes L. Bezazian (French). B.A., Harpur, N.Y., 1968; M.A., State University of New York, 1970; at Oregon since 1970.
- Reba C. Charles (French). B.A., Oberlin, 1939; M.A., Oregon, 1969; at Oregon since 1969.
- Mary A. Cor (French). B.A., Wyoming, 1972; at Oregon since 1972.
- John H. Dye (French). B.A., Oklahoma Baptist, 1962; M.A., Arkansas, 1965; at Oregon since 1969.
- Sylvia W. Frankel (French). B.A., Bar Ilan University, Israel, 1970; M.A., City College of New York, 1972; at Oregon since 1972.
- Ronna A. Freiberg (French). B.A., Michigan, 1970; M.A., Ohio, 1972; at Oregon since 1973.
- Dolores G. Garcia-Otero (Spanish). B.A., Oregon, 1972; at Oregon since 1968.
- Antonio C. Gil (Spanish). B.A., Oregon, 1971; at Oregon since 1970.
- Juan M. Gomez (Spanish). B.A., San Jose State, 1972; at Oregon since 1972.
- Mary A. Graves (French). B.A., Arkansas, 1969; M.A., Oregon, 1971; at Oregon since 1969.

- Graciela A. Harris (Spanish). B.A., Chapman College, 1965; M.A., Wisconsin, 1967; at Oregon since 1968.
- Alfonso C. Hernandez (French). B.A., San Jose State, 1965; M.A., Claremont, 1970; at Oregon since 1972.
- Barry B. Jackson (Spanish). B.A., Tufts, 1968; M.A., Oregon, 1972; at Oregon since 1970.
- Lynn C. Jeffress (French). B.A., Oregon State, 1970; at Oregon since 1972.
- Linda M. Keelor (French). B.A., Oregon, 1972; at Oregon since 1968.
- Sister Katherine Kirsch (French). B.A., Gonzaga, 1962; at Oregon since 1972.
- Judith S. Kuykendall (Spanish). B.A., Portland State, 1969; at Oregon since 1970.
- Jerry Ann Land (Spanish). B.A., 1967; M.A., 1969, Oregon; at Oregon since 1965.
- Deborah A. Marshall (Spanish). B.A., Michigan, 1969; at Oregon since 1972.
- Maurice G. Oudin (French). B.A., Montana, 1969; M.A., Oregon, 1971; at Oregon since 1969.
- Jean-Pierre Pigenel (French). Licence, Perpignan, France, 1971; at Oregon since 1972.
- Bruce E. Timmerman (Spanish). B.A., Oregon, 1972; at Oregon since 1968.
- Luis F. Verano (Spanish). B.A., Portland State, 1971; at Oregon since 1971.
- Francine Wagner (French). B.A., California at Fullerton, 1969; Diploma, Sorbonne, 1970; at Oregon since 1971.
- Susan M. Ward (Spanish). B.A., Portland State, 1972; at Oregon since 1972.
- John S. Worcester (Spanish). B.A., Oregon, 1966; at Oregon since 1972.

THE Department of Romance Languages offers instruction in French, Italian, Portuguese, and Spanish language and literature. The major in Romance languages is a liberal arts major. Although giving the necessary background for professional graduate work, it is not restricted to prospective teachers. Its purpose is to provide students with sound training in a humanistic discipline.

Undergraduate Studies

PROGRAMS leading to undergraduate majors are provided in French, Italian, and Spanish. Students who major in the department are primarily concerned with Romance literatures, literary history, and criticism. Attention is given to developing the skills of understanding, speaking, and writing the modern idiom. A fully equipped laboratory furnishes a valuable adjunct to classroom exercises.

Major requirements for the Bachelor of Arts degree are as follows:

Romance Languages. Thirty credit hours beyond the second-year sequence—normally the survey of the literature, composition and conversation, and, in any case, two additional upper-division year sequences, of which one must be in literature, plus 15 credit hours beyond the second-year sequence in a second Romance language, including one upper-division sequence.

French. (1) RL 201, 202, 203, Survey of French Literature, or the equivalent. (2) Thirty-six credit hours in upper-division courses. At least nine of these hours must be in courses of French composition. At least eighteen credit hours must be in literature courses. Additional work in related fields is recommended (e.g., another Romance language, English, history of art, music, and philosophy).

Italian. Thirty credit hours beyond the second-year sequence, normally the survey of the literature, composition and conversation, and, in any case, two additional upper-division year sequences, of which one must be in literature.

Spanish. Two major programs in Spanish are available: (A) one giving emphasis to the study of Spanish and Latin American literature, and (B) the second designed for students with strong interests in the related fields of linguistics, the social sciences, area studies.

(A) In the major with the literary emphasis, 45 credit hours of work beyond the second-year sequence, distributed as follows: (1) Introduction to the Reading of Spanish Literature (RL 311); (2) 3 credit hours from the following: Medieval Spanish Literature (RL 312), The Golden Age (RL 313), Modern Spanish Literature (RL 314), Spanish-American Literature (RL 315); (3) Cervantes (RL 360); (4) five terms of Spanish or Spanish-American literature courses numbered 405 or above; (5) three terms of composition and conversation: RL 347, 348, 349 or RL 461, 462, 463, or a combination of these; (6) two terms of upper-division work in one or more related fields: e.g., art history, philosophy, or political science.

(B) In the alternate major, 45 credit hours beyond the second-year sequence, distributed as follows: (1) Six terms of work in upper-division and advanced language classes: RL 350, 351, 347, 348, 349, 461, 462, 463; (2) five terms of upper-division course work in literature, distributed as follows: (a) Introduction to the Reading of Spanish Literature (RL 311); (b) four from the following: Medieval Spanish Literature (RL 312), The Golden Age (RL 313), Modern Spanish Literature (RL 314), Spanish-American Literature (RL 315), Cervantes (RL 360); (3) four terms of upper-division work in related courses: e.g., History of Spain, Hispanic America, History of Art, Art in Latin America, or Latin American geography, including culture and civilization in the department.

Secondary-School Teaching of Foreign Languages. New requirements for both basic and standard certification will go into effect October 15, 1974. In general, a student may satisfy requirements for the basic certificate by (1) fulfilling the major requirement in a single language and (2) taking 30-36 credit hours in specific courses (including student teaching) in either the College of Education or other departments or both. Teacher candidates must elect certain courses in the major, such as Pronunciation and Phonetics, and Advanced Composition. Detailed information will be available in the department office. They must also have a 3.5 GPA in the major and attain a 250 percentile score or better in the MLA proficiency test in order for the department to recommend them for certification.

New requirements for the standard certificate have not been finally approved. In general, they will call for a fifth-year program as required at present: 45 credit hours, including specific preparation in curriculum, counseling and guidance; and in the language, linguistics, culture and civilization, and literature. It is recommended that the student complete the program for standard certification before teaching, and satisfy the requirements for the interdisciplinary M.A. in French or the M.A.T. in Spanish concurrently.

It should be noted that the new basic certificate will authorize the holder to teach the specific language from kindergarten through junior college. At the standard level a choice must be made between K-9 and 5-14.

For further information, consult the Romance Languages department office, and the office of the College of Education, Department of Curriculum and Instruction.

Graduate Studies

THE Department of Romance Languages offers programs of study leading to the degree of Master of Arts in French, Italian, Spanish, and Romance languages, and to the degree of Doctor of Philosophy in Romance languages. Although the student normally takes work to improve linguistic skills, the master degree is primarily a degree in the study of literature. Courses are offered in French, Italian, Portuguese, Peninsular and American Spanish language and literature, with major work available in French, Italian, and Peninsular Spanish. The student's program may include work in two of these fields, and must include a second field if one is Italian or Spanish American literature. The minimum requirement for this degree is the completion of 45 credit hours of graduate study with grades of B or higher. The program does not include a thesis.

Interdisciplinary Master Program in French. The department supervises an interdisciplinary program designed particularly for the preparation of secondary-school teachers. The program requires 36 credit hours of graduate work in French and 9-15 credit hours in education. For further information, consult the director of the program, Elisabeth Marlow.

Master of Arts in Teaching Spanish. The department offers a program of advanced study leading to the Master of Arts in Teaching Spanish, with emphasis on the preparation of secondary-school teachers. In addition to a year's study at the University, this program will include an eight-week summer term in Mexico or Spain. The program is designed to afford prospective teachers of Spanish an opportunity to achieve competence in the written and spoken language, to study literature at the graduate level, and to develop and practice methods of presenting both language and literature to secondary-school students. Completion of this course of study will fulfill the requirements for the Oregon Standard (five-year) Secondary Teacher's Certificate, but courses in civilization and phonetics, required for this certificate, should be taken prior to admission.

The Doctor of Philosophy program permits the student to choose among a variety of approaches to advanced study in Romance literatures. Major fields of study include (1) a national literature; (2) a period (e.g., the Renaissance); (3) a genre (e.g., the novel). Candidates must complete 15 graduate courses, including at least three terms of work in the literature of one or more Romance languages other than the major, as well as two terms of work in philology. A comprehensive examination and a thesis are required. In addition to command of the languages and familiarity with the chosen literatures, the student is expected to develop skill in critical writing and competence in individual research. Students interested in the doctoral program should request the description of the program from the departmental secretary or consult with the director of graduate studies.

The graduate program in comparative literature is administered by a committee representing the departments of English,

German and Russian, and Romance languages: it offers opportunity for advanced study of several literatures in their original languages.

The resources of the University Library for research in French, Italian, and Spanish are fully adequate for the department's graduate programs; in some fields they are outstanding. The Library's holdings of learned periodicals are extensive; the quarterly journal, *Comparative Literature*, is edited by the department.

Overseas Study. The Oregon State System of Higher Education provides opportunities for a year's undergraduate study in both France and Italy. Oregon State University sponsors a program at the University of Poitiers, France, and Portland State University a program in Pavia, Italy. Credits earned in these programs are transferable to the University of Oregon as residence credit.

In addition, the University of Oregon offers an eight-week summer program in Perugia, Italy.

French

RL 50, 51, 52. First-Year French. 4 credit hours each term.

An introduction to French, stressing comprehension, speaking, reading, and writing with a modern approach through the use of a series of French educational films. One classroom hour devoted to viewing of color films which range over a wide cultural spectrum of French life. The remaining three classroom hours devoted to discussion of the film script, grammar, elementary composition, and oral drill. Marlow, staff.

RL 53, 54. First-Year French. 6 credit hours each term, winter and spring.

Covers in two terms the work of RL 50, 51, 52. For students who wish to begin French in the winter term. Persons whose competence in the language already exceeds the scope of this course will not be admitted.

RL 101, 102, 103. Second-Year French. 4 credit hours each term.

Study of selections from representative authors; review of grammar; considerable attention to oral use of the language. Special section for Honors College students and for the students who wish to concentrate on reading. Persons whose competence in the language already exceeds the scope of this course will not be admitted. Sohlich, staff.

RL 201, 202, 203. Survey of French Literature. 3 credit hours each term.

French literature from the Middle Ages to the present; readings from representative authors. Three sections conducted in French. Prerequisite: two years of college French or equivalent. Desroches, Olivier, Rendall, Sohlich.

RL 301, 302, 303. Literary Analysis of French Texts. 3 credit hours each term.

Introduction to basic critical concepts and methods of explication; intensive analysis of selected poetry and prose. Rendall.

RL 304, 305, 306. The French Novel. 3 credit hours each term.

Study of selected novels from the seventeenth century to the present. Desroches, Olivier.

RL 321, 322, 323. French Composition and Conversation. 3 credit hours each term.

Exercises in pronunciation, comprehension, and composition.

Ample opportunity for conversation. Conducted in French. Prerequisite: two years of college French, or equivalent. Cooper, Marlow, Sohlich.

RL 331, 332, 333. French Pronunciation and Phonetics. 2 credit hours each term.

A thorough study of the fundamentals of French pronunciation, with special attention to each student's difficulties. Prerequisite: two years of college French or equivalent. Normally required of French majors and of candidates for teacher certification. Freitag.

RL 403. Thesis.

Credit hours to be arranged.

RL 405. Reading and Conference.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

RL 407. Seminar. (G) 4 credit hours.

Several seminars are offered each term. Recent topics: Late 19th-century novel; Diderot, Montaigne, Genet, Sartre.

RL 411, 412, 413. Seventeenth-Century French Literature. (G) 3 credit hours each term.

Each term devoted to an intensive study of a problem, author, or genre. Recent topics: fictional technique in *La Princesse de Clèves*; Corneille; La Rochefoucauld and the art of the maxim. Prerequisite: Survey of French Literature (RL 201, 202, 203). Marlow, Rendall.

RL 417, 418, 419. Nineteenth-Century French Literature. (G) 3 credit hours each term.

The masterworks of prose fiction and selected works of the great poets and playwrights of the century. One term devoted to each type. Prerequisite: RL 201, 202, 203. Furst.

RL 423, 424, 425. Twentieth-Century French Literature. (G) 3 credit hours each term.

Study of the writers and dominant literary currents in France since 1900. Readings, lectures, and recitations. Conducted in French. Prerequisite: RL 201, 202, 203. Birn, Sohlich.

RL 429, 430, 431. French Culture and Civilization. (G) 3 credit hours each term.

The political and social backgrounds of French literature; introduction to French music and art. Prerequisite: RL 301, 302, 303, or RL 321, 322, 323, or equivalent. Marlow.

RL 435, 436, 437. Eighteenth-Century French Literature. (G) 3 credit hours each term.

Study of the origins and triumph of the philosophical spirit from Bayle to the *Encyclopédie* with emphasis on Montesquieu, Voltaire, Diderot, and Rousseau. Special attention to evolution of literary genres of novel and theater. Conducted in French. Desroches.

RL 467, 468, 469. Advanced French Composition. (G) 2 or 3 hours each term.

Translation of modern literary texts into French, and writing of original themes. Conducted in French. Normally required of French majors and of candidates for teacher certification. Prerequisite: RL 321, 322, 323 or equivalent. Marlow.

Graduate Courses

RL 503. Thesis.

Credit hours to be arranged. A no-grade course.

RL 505. Reading and Conference.

Credit hours to be arranged.

RL 507. Seminar.

Credit hours to be arranged. Recent topics: Diderot, Preromanticism, Eighteenth-Century French Theater, Eighteenth-Century French Novel, La Fontaine, Twentieth-Century French Theater, Twentieth-Century French Poetry, The Rhetoric of Nonfiction, Medieval Romance Lyric, Racine, Montaigne, Zola, Romantic drama, Novel of Naturalism, Literary Analysis.

RL 517, 518, 519. Sixteenth-Century French Literature. 4 credit hours each term.

A general survey of literature in the Renaissance, with emphasis on Marguerite de Navarre, Rabelais, Marot, Ronsard, Du Bellay, d'Aubigné, and Montaigne. Rendall.

RL 538, 539, 540. Old French Readings. 4 credit hours each term.

Study of the principal medieval genres; epic, romance, chronicles, lyric poetry, and drama. Special attention to works of fourteenth and fifteenth centuries. Calin.

RL 544. François Villon. 4 credit hours.

Study of the entire work of Villon. Calin.

RL 545. Ronsard. 4 credit hours.

Study of the evolution of Ronsard's poetic genius, and of his role in acclimating classical and Italian verse in France. Particular attention to style and to characteristic Renaissance themes and motifs.

RL 546. Molière. 4 credit hours.

A critical analysis of selected plays, with emphasis on Molière's comic technique. Rendall.

RL 547. Voltaire. 4 credit hours.

Study of Voltaire's satire and historical prose. Desroches.

RL 548. Baudelaire. 4 credit hours.

Study of all the works of Baudelaire.

RL 549. Paul Valéry. 4 credit hours.

Intensive study of representative works of Paul Valéry. Birn, Sohlich.

RL 550, 551. Proust. 4 credit hours each term.

Detailed analysis of *A la Recherche du temps perdu*, including ideas, style, and structure. Birn.

Italian

RL 70, 71, 72. First-Year Italian. 4 credit hours each term.

Introduction to Italian, stressing conversation and readings of modern texts. One section each of RL 71 (winter) and RL 72 (spring) offered students showing exceptional ability in RL 70. Hatzantonis and staff.

RL 73, 74. First-Year Italian. 6 credit hours each term, winter and spring.

Covers in two terms the work of RL 70, 71, 72. Gil.

RL 104, 105, 106. Second-Year Italian. 4 credit hours each term.

Study of selections from representative authors. Composition, pronunciation, grammar. Giustina.

RL 111, 112, 113. Conversational Second-Year Italian. 4 credit hours each term.

Fall: review of grammar. Winter and spring: intensive audio-oral practice in classroom and laboratory, to help students master everyday Italian. Designed for students planning to enroll in or returning from the Oregon State System of Higher Education programs in Italy. Casagrande.

RL 307, 308, 309. Survey of Italian Literature. 3 credit hours each term.

Introduction to major currents from Dante to the present. Close examination of representative texts. Prerequisite: two years of college Italian or equivalent. Giustina.

RL 374, 375, 376. Italian Composition and Conversation. 3 credit hours each term.

Instruction in Italian grammar and current idiomatic patterns; extensive exercises in oral communication and written composition. Conducted in Italian. Prerequisite: two years of college Italian or equivalent. Casagrande.

RL 377, 378, 379. Introduction to Italian Literature. 3 credit hours each term.

RL 377: methods of literary study. RL 378: analysis of poetic texts. RL 379: critical readings of prose: fiction and nonfiction. Offered alternately with RL 307, 308, 309. Casagrande, Hatzantonis.

RL 387. Readings in Italian. 3 credit hours.

Intended for students with advanced knowledge of other Romance Languages or Latin who wish to acquire proficiency in reading literary texts. Students who complete this course may enroll in upper-division and graduate courses in literature. Consent of instructor is required. Hatzantonis.

RL 405. Reading and Conference.

Credit hours to be arranged.

RL 408. Language Workshop. 2 credit hours.

Designed for special group activities, such as production of Italian plays. Prerequisite: two years of college Italian, or consent of instructor. Giustina.

Upper-Division Courses Carrying Graduate Credit**RL 407. Seminar. (G)**

Credit hours to be arranged.

AL 477, 478, 479. Dante and His Times. (g) 3 credit hours each term.

Historical and literary background of the *Divine Comedy*; study of the poem and of Dante's minor works; Petrarch and Boccaccio. Hatzantonis.

RL 480, 481, 482. Italian Renaissance Literature. (G) 3 credit hours each term.

Study of tragedy, comedy, epic, lyric, *novella*, historical and political prose, courtesy books, criticism. Italy's role in European Renaissance, Hatzantonis.

RL 483, 484, 485. Nineteenth-Century Italian Literature. (G) 3 credit hours each term.

Study of selected Italian authors of the romantic and post-

romantic movements. Emphasis on works of Foscolo, Manzoni, Leopardi, Verga, De Sanctis, Carducci, and Pascoli. Prerequisite: RL 307, 308, 309, or consent of instructor. Hatzantonis.

RL 486, 487, 488. Twentieth-Century Italian Literature. (G) 3 credit hours each term.

The main trends in poetry, drama, and the novel, starting respectively with D'Annunzio, Pirandello, and Svevo to the present. Prerequisite: RL 307, 308, 309, or consent of instructor. Casagrande.

Graduate Courses**RL 505. Reading and Conference.**

Credit hours to be arranged.

RL 507. Seminar. 4 credit hours.

Recent topics: The Italian Lyric; Dante, Petrarch, and Boccaccio; Petrarch and His Influence; Lorenzo de' Medici's Poetic Circle; The Literature of the Italian Enlightenment; Italian Romanticism; Verga's Narrative.

Portuguese

These classes in Portuguese are not offered for the 1973-74 academic year.

Upper-Division Courses Carrying Graduate Credit**RL 471, 472, 473. Portuguese and Brazilian Literature. (G) 3 credit hours each term.**

Comparative structure of Portuguese. Reading of *contos*, writers of the classical period and of the nineteenth and twentieth centuries, and Brazilian literature. Prerequisite: facility in Spanish, Italian, French, or Latin.

RL 474, 475, 476. Brazilian Novel. (G) 3 credit hours each term.

An historical and critical study of the Brazilian novel of the nineteenth and twentieth centuries. Prerequisite: a reading knowledge of Portuguese.

RL 477, 478. Advanced Portuguese Language. (G) 3 credit hours each term, winter and spring.

Winter: the Portuguese verb system, language laboratory practice; spring: advanced grammar review and conversation.

Spanish**RL 60, 61, 62. First-Year Spanish. 4 credit hours each term.**

An introduction to Spanish, stressing speaking and reading. Exercises in elementary composition. Students whose competence in the language already exceeds the scope of this course will not be admitted. Ayora, staff.

RL 63, 64. First-Year Spanish. 6 credit hours each term, winter and spring.

Covers in two terms the work of RL 60, 61, 62. For students who wish to begin Spanish in the winter term. Students whose competence in the language already exceeds the scope of this course will not be admitted.

RL 107, 108, 109. Second-Year Spanish. 4 credit hours each term.

Intensive oral and written exercises designed to help the student acquire an accurate and fluent use of Spanish. Study of selections from representative authors. Special sections for Honors College students and for the students who wish to concentrate on reading. Students whose competence in the language already exceeds the scope of this course will not be admitted. Powers, staff.

RL 311. Introduction to the Reading of Spanish Literature. 3 credit hours.

Training of the student to read closely texts in all major genres; explicating a text; use of library facilities; introduction to critical writings. Usually taken before work in other literature courses. R. Jackson, staff.

RL 312. Medieval Spanish Literature. 3 credit hours.

Close study of *Cantar de Mio Cid*, the *Libro de buen amor*, and *La Celestina*. Topics to be discussed include: the nature of medieval epic; medieval comedy and parody; the literary tradition of courtly love. Some attention to Spanish social and intellectual history and the historical development of the Castilian language. Prerequisite: RL 311. R. Jackson, Sobré, staff.

RL 313. The Golden Age. 3 credit hours.

Introduction to lyric poetry, prose, and theater of the Spanish Renaissance and Baroque, selected generally from the works of Garcilaso de la Vega, Fray Luis de Leon, San Juan de la Cruz, *Lazarillo de Tormes*, Cervantes, Lope de Vega, Calderon, and others. Prerequisite: RL 311. R. Jackson, Sobré, staff.

RL 314. Modern Spanish Literature. 3 credit hours.

Major themes and forms of nineteenth- and twentieth-century Spanish literature. Training in the application of basic critical concepts to selected modern works. Prerequisite: RL 311. Ayora, R. Jackson, staff.

RL 315. Spanish-American Literature. 3 credit hours.

Introduction to the basic currents and movements in the Spanish-American novel, poetry, and short story. Readings and discussions will center almost exclusively on the nineteenth and twentieth centuries. Prerequisite: RL 311. Ayora.

RL 347, 348, 349. Spanish Composition and Conversation. 3 credit hours each term.

Fundamentals of pronunciation. Extensive oral and written practice. Conducted in Spanish. Prerequisite: two years of college Spanish. Ayora, Sobré.

RL 350, 351. Spanish Pronunciation and Phonetics. 2 credit hours each term.

Scientific study of Spanish sounds, rhythms, and intonation. Supervised practice, with individual use of recording equipment. Normally required of Spanish majors and of candidates for teacher certification. Consent of instructor is required. Cur-land.

RL 360. Cervantes. 3 credit hours.

Reading of *Don Quijote* and other works by Cervantes as time permits. Prerequisite: RL 311. Jackson, Powers, staff.

RL 403. Thesis.

Credit hours to be arranged.

RL 405. Reading and Conference.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit**RL 407. Seminar. (G) 4 credit hours.**

Several seminars are offered each term. Recent topics: 19th-Century Novel; Spanish Naturalism; Literature of Concern; 20th-Century novel; Latin American fiction; contemporary poetry.

RL 432, 433, 434. Hispanic Culture and Civilization. (G) 3 credit hours each term.

Intellectual, cultural, and historical backgrounds of Hispanic literatures. Fall: the medieval and Golden Age periods; winter: the eighteenth and nineteenth centuries; spring: the twentieth century. Conducted in Spanish.

RL 444, 445, 446. Spanish-American Literature. (G) 3 credit hours each term.

Study of the principal authors of Spanish America since the beginning of the sixteenth century. Selections from the works of Ercilla, Sor Juana, Bello, Heredia, Sarmiento, Darío, Silva, Nervo, González Prada, Mistral, and others. Prerequisite: RL 315. Ayora.

RL 451. Spanish Prose of the Golden Age. (G) 3 credit hours.

A critical reading in several prose genres of the sixteenth and seventeenth centuries: dialogues, *libros de caballerías*, pastoral and picaresque novels, the *novela ejemplar*. Prerequisite: RL 313. Powers.

RL 452. Renaissance and Baroque Poetry. (G) 3 credit hours.

The Petrarchism of Garcilaso and Herrera; traditional forms, especially the *romance*; the religious and mystic poetry of Fray Luis de León, San Juan de la Cruz; Santa Teresa. Three seventeenth-century poets: Góngora, Lope de Vega, and Quevedo. Prerequisite: RL 313. Powers.

RL 453. Introduction to the Drama of the Golden Age. (G) 3 credit hours.

Readings in the works of Cervantes, Lope de Vega, Tirso de Molina, Ruiz de Alarcón, and Calderón de la Barca. Prerequisite: RL 313. Powers.

RL 461, 462, 463. Advanced Spanish Composition and Conversation. (G) 2 or 3 credit hours each term.

Normally required of Spanish majors and of candidates for teacher certification. Prerequisite: RL 347, 348, 349 or equivalent. Conducted in Spanish. Ayora, Jackson, Sobré.

Graduate Courses**RL 503. Thesis.**

Credit hours to be arranged. A no-grade course.

RL 505. Reading and Conference.

Credit hours to be arranged.

RL 507. Seminar. 4 credit hours.

Recent topics: Borges, Novel of Mexican Revolution, Contemporary Spanish Poetry, Cervantes, "Azorín," Modern Spanish Novel, Gabriel Miró, Gil Vicente, Camões, Renaissance Lyric, Garcilaso, Romancero y poesía de tipo tradicional, Lorca and his Tradition, Spanish Naturalism.

RL 554, 555, 556. Drama of the Golden Age. 4 credit hours each term.

Interpretation and criticism of selected *comedias* of Lope de Vega, Calderón, Tirso de Molina, Ruiz de Alarcón, Augustín Moreto, and Rojas Zorilla. Conducted in Spanish. Powers.

RL 557, 558, 559. The Modernista Movement. 4 credit hours each term.

Interpretation and criticism of the work of leading Spanish American "modernista" writers: Martí, Silva, Julián del Casal, Gutiérrez Nájera, Darío, Lugones, and others.

RL 561, 562, 563. Spanish-American Novel. 4 credit hours each term.

Study of the novel as a literary form in Spanish America.

Romance Philology

Graduate Courses

RL 520, 521, 522. Old French. 4 credit hours each term.

Phonology and morphology. Reading of principal literary monuments. History of French literature through the thirteenth century. Calin.

RL 523, 524, 525. The Troubadours. 4 credit hours each term.
Hart.

RL 535, 536, 537. Old Spanish. 4 credit hours each term.

Phonology, morphology, and syntax of early texts; ecclesiastical glosses, legal documents, *Auto de los Reyes Magos*, the *Roncesvalles* fragment, the *Cantar de Mio Cid*, ancient ballads. Hart.

Sociology

Faculty

Department Head, Richard J. Hill, Ph.D., Professor of Sociology (methodology, social psychology, formal theory). A.B., 1950, M.A., 1951, Stanford; Ph.D., Washington, 1955; at Oregon since 1971.

Harry Alpert, Ph.D., Professor of Sociology (sociology of science). Vice-President for Academic Affairs and Provost. A.B., College of City of New York, 1932; Cert. de soc., Bordeaux, 1933; A.M., 1935, Ph.D., 1938, Columbia; at Oregon since 1958.

Joan R. Acker, Ph.D., Assistant Professor of Sociology (sociology of women, stratification, sociology of social welfare, organizations and occupations). B.A., Hunter, 1946; M.A., Chicago, 1948; Ph.D., Oregon, 1967; at Oregon since 1964.

Steven E. Deutsch, Ph.D., Associate Professor of Sociology (economic, political, comparative sociology). B.A., Oberlin, 1958; M.A., 1959, Ph.D., 1964, Michigan State; at Oregon since 1966. (On sabbatical leave, 1973-74.)

Ronald G. Faich, Ph.D., Assistant Professor of Sociology (sociology of natural resources, statistics and methodology, social psychology, sociological theory, sociology of medicine). B.S., 1961, M.S., 1964, Ph.D., 1969, Wisconsin; at Oregon since 1969.

John M. Foskett, Ph.D., Professor of Sociology (social institutions, history of social thought, sociological theory). A.B., 1932, M.A., 1935, Ph.D., 1939, California; at Oregon since 1946.

Richard P. Gale, Ph.D., Associate Professor of Sociology (sociology of the environment, industrial sociology, sociology of development; Latin American studies). Associate Department Head. B.A., Reed, 1960; M.A., Washington State, 1962; Ph.D., Michigan State, 1968; at Oregon since 1967.

Ted G. Goertz, Ph.D., Assistant Professor of Sociology (political sociology, sociology of development, systems of war and peace, sociology of knowledge, social issues and social movements, social stratification). B.A., Antioch, 1964; M.A., 1966, Ph.D., 1970, Washington University, St. Louis; at Oregon since 1968.

Daniel N. Gordon, Ph.D., Assistant Professor of Sociology (urban sociology and ecology, sociology of law, political sociology, sociology and history). B.A., Johns Hopkins, 1961; M.S., 1964, Ph.D., 1967, Wisconsin; at Oregon since 1969.

Jay M. Jackson, Ph.D., Professor of Sociology (social psychology, normative structure, formal organization, organizational change, methodology). B.A., 1948, M.A., 1950, McGill; Ph.D., Michigan, 1953; at Oregon since 1963. (On leave of absence, spring 1973-74.)

Theodore B. Johannis, Jr., Ph.D., Professor of Sociology and Family Studies (sociology of time and leisure, socialization, marriage and the family). B.A., 1948, M.A., 1948, Washington State; Ph.D., Florida State, 1955; at Oregon since 1953.

Benton Johnson, Ph.D., Professor of Sociology (sociology of religion, sociological theory, stratification). B.A., North Caro-

lina, 1947; M.A., 1953, Ph.D., 1954, Harvard; at Oregon since 1957.

Walter T. Martin, Ph.D., Professor of Sociology (population, ecology, urban sociology). B.A., 1943, M.A., 1947, Ph.D., 1949, Washington; at Oregon since 1947.

Kenneth Polk, Ph.D., Professor of Sociology (delinquency and criminology, methodology). B.A., San Diego State, 1956; M.A., Northwestern, 1957; Ph.D., California at Los Angeles, 1961; at Oregon since 1960.

Roy H. Rodgers, Ph.D., Professor of Sociology (family sociology, social organizations). B.A., Wheaton, 1951; M.A., North Carolina, 1957; Ph.D., Minnesota, 1962; at Oregon since 1963. (On leave of absence, 1973-74.)

Walter E. Schafer, Ph.D., Associate Professor of Sociology (sociology of education, sociology of sports, sociology of youth). B.A., 1961, M.A., 1962, Ph.D., 1965, Michigan; at Oregon since 1965. (On leave of absence, 1973-74.)

Albert J. Szymanski, Ph.D., Assistant Professor of Sociology (stratification, social movements, sociological theory, comparative and historical sociology). B.A., Rhode Island, 1964; Ph.D., Columbia, 1971; at Oregon since 1970.

Donald R. Van Houten, Ph.D., Associate Professor of Sociology (complex organizations, sociology of occupations, sociological theory). B.A., Oberlin, 1958; Ph.D., Pittsburgh, 1967; at Oregon since 1968.

David T. Wellman, M.A., Assistant Professor of Sociology (race and ethnic relations, political sociology, social movements, sociological theory). B.A., Wayne State, 1962; M.A., California at Berkeley, 1966; at Oregon since 1971.

Undergraduate Studies

SOCIOLOGY is the analytical study of the development, structure, and function of human groups and societies. It is concerned with the scientific understanding of human behavior as it relates to, and is a consequence of, interaction within groups.

The undergraduate program in sociology is designed: (1) to provide a basis for understanding the rapidly changing modern world; (2) to provide a useful background for students preparing to enter directly into beginning positions in social work, personnel work, recreation, and social-studies teaching; (3) to prepare students for graduate work leading to professional careers in sociology and closely related fields. Students who are interested in professional social work should consider majoring in the School of Community Service and Public Affairs.

The lower division 200-level courses are designed to provide an introduction to the field. The basic course is the one-term Introduction to Sociology (Soc 201). Students typically take Soc 201 and at least two additional courses from the Soc 210-215 group before moving on to upper-division courses. Courses in the Soc 210-215 group provide an introduction to some of the areas of specialization within the field, such as race and ethnic relations (Soc 212, Race, Class, and Ethnic Groups in America) and political sociology (Soc 215, Social Issues and Social Movements).

The 300-level (upper-division) courses are designed to extend the student's knowledge of subjects covered in the 200-level courses, provide an introduction to social research methods and social theory, and introduce the student to the field of social psychology.

The 400-level (upper-division) courses are the advanced and specialized courses in the department. Most build on background obtained in the 200-level and 300-level courses. Students interested in the sociology of the community, for example, may take *Communities, Population, and Resources* (Soc 210), *The Community* (Soc 304), and *Urbanization and the City* (Soc 442). Students interested in criminology, juvenile delinquency, and the field of corrections, for example, may take *Social Deviancy and Social Control* (Soc 211), *Contemporary Social Problems* (Soc 305), and *Criminology and Delinquency* (Soc 440 and 441). It is recommended that students have at least 9 credit hours in sociology courses before taking 400-level courses.

Requirements for Bachelor Degree. Candidates for the bachelor degree with a major in sociology must satisfy all general requirements of the University and the College of Liberal Arts. Majors in sociology are required to complete a minimum of 42 credit hours of undergraduate sociology courses. Of the 42 credit hours, at least 30 must be in upper-division courses, excluding courses numbered Soc 401-406, Soc 407 SEARCH courses, and Soc 408-409. Seminars (Soc 407) which are not part of the SEARCH program may be counted toward the credit hours requirement for the major. No specific courses are required for the major, although students are urged to take at least one course in sociological theory and one course in social-research methods as part of their program. The department has no restriction on the number of courses in the major that may be taken on a pass-undifferentiated basis.

Sociology majors are urged to establish and maintain communication with their academic advisers. Although majors may select advisers from the entire sociology faculty, a student may wish to choose as adviser the faculty member who shares interests with the student, or has indicated a preference for working with undergraduates with particular career goals or backgrounds.

Each student should plan a course program which will emphasize those experiences most useful for the student's educational and career objectives. The individual model program reflects the formal courses, reading and conference courses, seminars, and research experiences through which the student builds a solid base as an undergraduate sociology major. By leaving the entire matter of course selection to the student, the department is placing the responsibility on each student to carefully plan an undergraduate program which will be most useful to the student. It is recognized that different educational and career goals involve different course programs. Also, it is recognized that a sound undergraduate program in sociology should involve awareness of related courses in other departments of the University. Undergraduate majors need to realize that the courses selected may affect their career opportunities. Students seeking specialized undergraduate training will want to supplement formal course work with reading or research work.

With the help of a faculty adviser, the student should set out a model program. The program is not intended to be a series of mandatory courses, but should include courses and other experiences (reading, research, field experience) relevant for the student's objectives. Several suggested model programs are listed below. It is essential, however, that students consult with their faculty advisers concerning the selection of specific courses.

Program for General Sociology Majors. For students who wish a broad liberal education, the sociology department offers a wide variety of courses covering a full range of human social life, while

at the same time providing theoretical and methodological perspectives which help to integrate their studies.

General majors should begin with Soc 201 and a number of other 200-level courses in their freshman and sophomore years. These lower-division courses provide an introduction to the discipline, with an emphasis on how sociology can be applied to contemporary social issues.

In their upper-division years, general majors may choose from courses which provide more depth in the study of each of the institutional areas in modern society, such as: the family, education, economic life, politics, criminology, social welfare, war and peace, and leisure. Courses such as social stratification, social psychology, and social change help to tie these diverse areas together by providing perspectives which are useful in the study of any institutional area. Finally, courses in sociological theory and methodology provide more general analytical and research skills which will be useful both in sociology courses and in whatever activities the student may pursue after graduation.

Program for Majors Interested in the Social Service Professions. The "social service professions" are those which help people—social work, counseling, community relations specialists, housing specialists, labor relations and personnel specialists, counselors in different institutional settings. Students interested in these occupations should consider majoring in the School of Community Service and Public Affairs, rather than in sociology. However, many students may wish to retain a major in sociology, supplementing their program with course work in the School of Community Service and Public Affairs, and the departments of psychology, education, and political science.

Many of these occupations require graduate training or field training. Students should consult the Counseling Center for more detailed information.

Students majoring in sociology who want to enter one of the helping professions should take at least one course in sociological methodology, at least two courses in social psychology, and several courses which deal with specific problem areas in society (race, crime, the cities, population).

Program for Majors Interested in Business or Government Service. Many sociology majors find employment with business or governmental organizations. These organizations typically seek general human-relations skills, some awareness of organizations and the surrounding social environment, and an ability to analyze and understand basic social data.

Students interested in possible employment with business organizations should, of course, consider a major in the College of Business. Sociology majors interested in business organizations should include courses in the College of Business (e.g., accounting, personnel management) and in the economics department.

Students with career goals in governmental service may want to consider a major in the School of Community Service and Public Affairs. Sociology majors should include courses in public administration and political science.

Secondary-School Teaching of Social Studies. For certification as a teacher of social studies in Oregon high schools, the Oregon State Department of Education requires (1) the satisfaction of certain minimum standards of subject preparation and (2) the recommendation of the institution at which the student completes the subject preparation.

For details of this program, the student should consult the special adviser for teacher education in the sociology department or the

Office of Student Teaching and Teacher Certification in the College of Education.

Program for Majors Interested in Graduate Training in Sociology. Many students who continue in the field of sociology eventually enter a program leading to the Ph.D. in sociology. Students planning to pursue graduate work in sociology should have a strong background in sociological theory and social research methods. Students also should begin to think about the special areas within sociology which are of greatest interest, and about those graduate schools which offer specialized training in these areas. Application to graduate school should be made in the fall or winter of the year before the student wishes to enter a graduate program. Some graduate schools emphasize a broad social science background. Many will require either undergraduate work in mathematics or statistics for admission, or ask that new graduate students take remedial, noncredit courses if admitted to the program. Some universities still require competence in a foreign language for the Master or Ph.D. degrees, and will prefer to admit students with some undergraduate language training. Others look with disfavor on undergraduate programs with a large number of nongraded courses, particularly in the major. Occasionally, schools will encourage students to submit samples of their undergraduate work as part of the materials for admission to the graduate program. Nearly all graduate schools will require several letters of reference from faculty members, and some evidence of successful performance in course work. Many also will require applicants to take the Graduate Record Examination. Students considering graduate school should talk to their faculty advisers about the programs of the different schools, what experiences will increase the chances of admission, and what will be asked of students in a graduate program in sociology.

Graduate Studies

THE graduate program of the Department of Sociology is primarily intended for studies leading to the Doctor of Philosophy degree. Although the department admits some students interested in the Master of Arts or Master of Science degree, nearly all graduate students pursue a program leading to the doctorate in sociology.

Students seeking an advanced degree in sociology should have achieved a grade-point average of 3.00 or better in their undergraduate work in the social sciences. Entry is not restricted to those with undergraduate majors in sociology, although students without any undergraduate work in sociology have a considerably reduced chance of admission.

During their first year, all students participate in a basic program in theory and methodology. This flexible program makes the student responsible for determining the materials (papers, position statements, reports of research) to be submitted to the evaluation committee during the second year of residence. During the second year, the student defines two or three fields of specialization. By the end of the third year, the student should have taken comprehensive examinations in fields of specialization, and should be well along on a dissertation project.

Candidates for the doctorate must demonstrate clearly their basic and serious commitment to a professional career in the social sciences. Teaching and research are two important elements in most such careers.

All doctoral candidates are expected to gain experience equivalent to an academic year as a graduate teaching fellow. Some fellows assist staff members on research projects, others assist staff members in their teaching duties, and others have full responsibility for teaching classes of their own. The normal workload for fellows is 12 hours a week.

A broad range of research is carried out in the department. Participation in a research practicum or work as a research assistant are but two of the many ways of obtaining research experience prior to embarking on the dissertation project. The doctoral dissertation must embody the results of research and show evidence of originality and ability in independent investigation. Early in their graduate work, students are encouraged to begin defining the general topic to be covered in the dissertation research.

Many students receive some type of financial assistance. In addition, some graduate students hold part-time teaching or research appointments outside of the department.

A booklet describing the graduate program may be obtained from the department. The booklet details the entire graduate program, specifies the materials needed to apply for admission to the program, and includes a listing of current staff members and their research interests. Students applying for graduate admission should submit all necessary materials by February 1, if possible, and by March 1 at the latest. Applications for the fall term received after April 1 seldom receive favorable action.

Soc 201. Introduction to Sociology. 3 credit hours.

Introduction to the sociological perspective, with emphasis on fundamental concepts, theories, and methods of research.

Soc 210. Communities, Population, and Resources. 3 credit hours.

Analysis of the interrelationship of population and resources in the structuring of human communities; examination of processes of community change which occur in response to major social problems, population redistribution, and resource alteration; alternatives of the traditional community. Prerequisite: Soc 201.

Soc 211. Social Deviancy and Social Control. 3 credit hours.

Concepts of deviance, theories explaining deviant behavior, and mechanisms for the social control of deviance. Prerequisite: Soc 201.

Soc 212. Race, Class, and Ethnic Groups in America. 3 credit hours.

Analysis of the distinctions between European ethnic groups and people of color, focusing on the emergence of internal colonies in American society. Prerequisite: Soc 201.

Soc 213. Organizations and Occupations. 3 credit hours.

An examination of the nature and consequences of bureaucracies and bureaucratization in modern society, work and careers, technology and alienation. Prerequisite: Soc 201.

Soc 214. Socialization and Society. 3 credit hours.

Analysis of the nature and processes of socialization at different stages of the life cycle, the effects of socialization of the individual, and the effects of societal and cultural influences on socialization processes. Prerequisite: Soc 201.

Soc 215. Social Issues and Social Movements. 3 credit hours.

Contemporary social issues viewed from a sociological perspective. Poverty, racism, militarism, and other issues are related

to the social structure of American society. Social movements and ideologies related to these issues are examined. Prerequisite: Soc 201.

Soc 300. Principles of Sociology. 3 credit hours.

Fundamental concepts and empirical findings in the field of sociology. Intended primarily for nonmajors. Not open to students who have completed Soc 201.

Soc 301. American Society. 3 credit hours.

An analysis of American society in terms of its significant structural traits and their functions; major changes in American society and selected contemporary problems examined in their relation to institutional structures. Prerequisite: Soc 201, or Soc 300.

Soc 303. World Population and Social Structure. 3 credit hours.

Introduction to population studies, providing within a sociological framework an analysis of historical, contemporary, and anticipated population conditions and trends, as they are related to social situations and the organization of society. Prerequisite: Soc 201, or Soc 300.

Soc 304. The Community. 3 credit hours.

Analysis of the structure and organization of human communities. Prerequisite: Soc 201, or Soc 300.

Soc 305. Contemporary Social Problems. 3 credit hours.

Introduction to problems associated with the organization of social systems; deviant behavior and methods of social control. Prerequisite: Soc 201, or Soc 300.

Soc 306. Social Psychology. 3 credit hours.

Analysis of psychological processes in relation to social institutions. How languages, perception, learning, thinking, motivation, and attitudes determine and result from social interaction and group processes. Prerequisite: Soc 201, or Soc 300.

Soc 326. Quantitative Methods in Sociology. 3 credit hours.

Construction and interpretation of tables and graphs, descriptive statistics, measures of association and contingency relationships, basic ideas of probability, and elementary statistical inference applied to nonexperimental research. Not intended for students who need a standard introductory statistics course with emphasis on probability and statistical inference or who plan to take more than one term of statistics. Prerequisite: Mth 95, Soc 201, or Soc 300.

Soc 327. Introduction to Social Research. 3 credit hours.

The development of social research; the nature of scientific inquiry and basic methods and techniques; examination of representative sociological studies from the standpoint of methodology. Prerequisite: 9 credit hours in sociology, or consent of instructor.

Soc 342. Social Organization. 3 credit hours.

Examination in depth of analytical concepts and tools and their application to theoretical materials dealing with social organization. Not offered annually. Prerequisite: 9 credit hours in sociology, or consent of instructor.

Soc 370. Development of Sociology. 3 credit hours.

Starting with Plato, the major writers and ideas that have shaped contemporary sociology are analyzed, with focus on recurrent concepts and issues that continue to challenge sociological inquiry. Special attention to the ways in which social structure affects social thought and vice versa. Prerequisite: 9 credit hours in sociology, or consent of instructor.

Soc 371. Contemporary Sociological Perspectives. 3 credit hours.

Introduction to the main sociological theories in current use, such as functionalism, conflict theory, balance theory, exchange theory, systems theory, human ecology, and social evolution. Prerequisite: 9 credit hours in sociology, or consent of instructor.

Soc 401. Research.

Credit hours to be arranged.

Soc 403. Thesis for Honors Candidates.

Credit hours to be arranged.

Soc 405. Reading and Conference.

Credit hours to be arranged.

Soc 406. Supervised Field Study.

Credit hours to be arranged.

Soc 407. Seminar.

Credit hours to be arranged.

Sociology of Knowledge.

Social Psychology.

Leisure and the Family.

Criminal Justice.

Juvenile Delinquency.

Sexism and Racism.

Economic Development.

Sex and Social Structure.

Self and Identity.

Phenomenology, Ethnomethodology, and the Social Sciences.

Role Theory and Research.

Generational Differences and Social Change.

Population Problems in Developing Countries.

Urban Problems.

Problems in Family Research.

Alternative Societal Models.

Socialist Experiment.

Environmental Movement.

Sociological Migration.

Changing Organizations.

Sociology of Medicine.

Non-Parametric Statistics.

Educational Change.

Marxist Sociological Theory.

Sociology of Science.

Upper-Division Courses Carrying Graduate Credit

Soc 411, 412, 413. Sociological Research Methods. (G) 3 credit hours each term.

Basic methodological problems such as the nature of science, the problem of meaning, formal and empirical systems, the use of models, causal inference under experimental and nonexperimental conditions, and field techniques of data collection. Prerequisite: Soc 326, 327; the work of each term is prerequisite to that of the following term.

Soc 415. Theory and Methods in Population and Ecology. (G) 3 credit hours.

Methodological problems and techniques in demographic and ecological analysis. Prerequisite: Soc 303, or equivalent.

Soc 423. The Family. (g) 3 credit hours.

The family in historical perspective. An introduction to the

study of the family as a social institution and small group association. Prerequisite: 9 credit hours in sociology.

Soc 430. Theory of Small Groups. (G) 3 credit hours.

Group goals, decision-making, roles, status, power, and cohesion. Emphasis on understanding and improving ongoing groups. Prerequisite: 9 credit hours of social science.

Soc 431. Group Dynamics. (G) 3 credit hours.

Continuation of Soc 430. Group problem-solving and effective leadership and participation. Emphasis on development of skills in problem-solving groups through group exercises and projects. Prerequisite: Soc 430.

Soc 438. Social Psychology of the Family. (G) 3 credit hours.

The dynamics of family interaction throughout the family life cycle. Prerequisite: Soc 423, or equivalent.

Soc 440, 441. Criminology and Delinquency. (G) 3 credit hours each term.

The nature and extent of delinquency and crime as forms of deviant social behavior; contributing factors; current prevention and treatment programs. Prerequisite: Soc 201.

Soc 442. Urbanization and the City. (G) 3 credit hours.

Determinants and consequences of urbanization under different conditions; the city as a social and ecological system. Prerequisite: 9 credit hours in sociology.

Soc 443. Social Control. (G) 3 credit hours.

Techniques and agencies by which the behavior of crowds, classes, associations, and publics is controlled. Prerequisite: Soc 306, or Psy 215, or consent of instructor.

Soc 444. Sociology of Migration. (G) 3 credit hours.

Study of the dynamics of migration as related to the dynamics of social change. Prerequisite: 9 credit hours in sociology.

Soc 445. Sociology of Race Relations. (G) 3 credit hours.

Analysis of racial oppression as a structural and ideological feature in American life. Prerequisite: introductory course in sociology, anthropology, or psychology.

Soc 446. Sociology of Work. (G) 3 credit hours.

Sociological analysis of work in pre-industrial and industrial societies; the impact of industrial systems and technology on occupational structure, labor force, labor commitment, the meaning of work, bureaucratization, and industrial organization. Prerequisite: 9 credit hours in sociology.

Soc 447. Industrial Sociology. (G) 3 credit hours.

The social structure of industry, the sociology of labor unionism and industrial relations, as influenced by changing political and technological factors, including a comparative analysis of industry and society and industrial relations systems in the developed and developing countries. Prerequisite: 9 credit hours in sociology.

Soc 448. Sociology of Occupations. (G) 3 credit hours.

The nature, functions, and significance of occupational groupings in modern society; the relationships of occupation to other aspects of life; the significance of work for the various forms of social organization; the impact of change on individual occupations and occupational categories.

Soc 449. Social Change. (G) 3 credit hours.

Analysis of the processes, characteristics, and conditions of change in large social systems; systematic examination of various theoretical problems and formulations. Prerequisite: 9 credit hours in sociology.

Soc 450. Sociology of Developing Areas. (G) 3 credit hours.

Problems of social change in underdeveloped countries; special attention to problems resulting from the process of urbanization, industrialization, and cultural modernization. Prerequisite: 9 credit hours in sociology.

Soc 451. Social Stratification. (G) 3 credit hours.

Analysis of class in American society. The blue-collar working class, upper class, white-collar class, and independent middle class examined in their relationships to each other and to American society as a whole. Some treatment is given to the development of the U.S. class system and to the relations between class and race and class and sex in contemporary America. Prerequisite: 9 credit hours in sociology.

Soc 452. Social Stratification. (G) 3 credit hours.

Theories of stratification and class in comparative and historical perspective; functionalist, militarist, elitist, political, and Marxist theories of stratification are examined. The development of class systems from the origins of civilization to early capitalism are treated; class systems in the Third World and their relationship to those in the developed countries are also studied. Prerequisite: 9 credit hours in sociology.

Soc 455. Sociology of Women. (G) 3 credit hours.

Examination of the major theoretical explanations of the disadvantaged position of women; the relationship of the position of women to family structure, the economic system, and other structural dimensions of the society; social processes which perpetuate the present structuring of sex roles; the development of the feminist movement and prospects for the achievement of its goals.

Soc 461. Sociology of Religion. (G) 3 credit hours.

Sociological analysis of religious belief and behavior; special attention to the relation between religious institutions and the larger societies of which they are a part. Prerequisite: Soc 201, Soc 300, or consent of instructor.

Soc 462. Sociology of the Family. (G) 3 credit hours.

The family as a social institution and its relationship to other social institutions. Prerequisite: Soc 423, or equivalent.

Soc 464. Systems of War and Peace. (G) 3 credit hours.

War and peace as functions of social structures. The present system of international threat, its supporting institutions, and the ideology of nationalism; changes in this system associated with the revolution in warfare technology. Peace systems and their social base. Prerequisite: Soc 201, or Soc 300.

Soc 465. Political Sociology. (G) 3 credit hours.

Sociological theories and concepts brought to bear on the analysis of various aspects of political theory and behavior; social bases of power and policy determination; institutional interrelationships; intellectuals and ideologies; political trends and change; political participation and membership. Prerequisite: 9 credit hours in sociology.

Soc 466. Sociology of Knowledge. (G) 3 credit hours.

Analysis of the relationships between society and thought. Types of knowledge considered in terms of the social settings in which they were produced and received. Prerequisite: 9 credit hours in sociology.

Soc 467. Sociology of Social Work. (G) 3 credit hours.

Analysis of social welfare in terms of ideologies, structures, functions, institutional interrelationships, and social change. Policy making and program outcomes are examined. A comparative approach puts social welfare in a socio-cultural context.

Soc 490. Sociology of Leisure. (G) 3 credit hours.

Sociological analysis of nonwork time and leisure behavior; the relationship between patterns of use of nonwork time and leisure and other social institutions. Prerequisite: 9 credit hours in sociology.

Soc 491. Sociology of Education. (G) 3 credit hours.

Analysis of the major functions of education for the larger society; effects of societal change on education; the school and the community; the school as a social system. Prerequisite: 9 credit hours in sociology.

Graduate Courses

Soc 501. Research.

Credit hours to be arranged. A no-grade course.

Soc 502. Supervised College Teaching.

Credit hours to be arranged. A no-grade course.

Soc 503. Thesis.

Credit hours to be arranged. A no-grade course.

Soc 505. Reading and Conference.

Credit hours to be arranged.

Soc 506. Supervised Field Study.

Credit hours to be arranged.

Soc 507. Seminar.

Credit hours to be arranged.

- Social Psychology.
- Role Theory and Research.
- Population Problems in Developing Countries.
- Internal Migration.
- Scope of Sociology.
- Theory and Method in Sociology.
- Economic Development.
- Industrial Sociology.
- Sociology of Education.
- Quantitative Sociology.
- Sociology of Science.
- Power and Society.
- Socialization.
- Changing Organizations.
- The Teaching of Sociology.
- Phenomenology, Ethnomethodology and the Social Sciences.
- Sexism and Racism.
- Sex and Social Structure.
- Self and Identity.
- Generational Differences and Social Change.
- Urban Problems.
- Problems in Family Research.
- Alternative Societal Models.
- Socialist Experiment.
- Environmental Movement.
- Sociological Migration.
- Sociology of Medicine.
- Non-Parametric Statistics.
- Educational Change.
- Marxist Sociological Theory.
- Sociology of Science.
- Mathematical Models in Sociology.

Soc 509. Supervised Tutoring Practicum. 1-3 credit hours any term.

A no-grade course.

Soc 537. Social Movements. 3 credit hours.

Study of the endeavors of groups of people to alter the course of events by their joint activities; social and psychological factors which give rise to social movements and determine their course; the relation of such purposive collective activity to the process of social and cultural change. Prerequisite: Soc 306, or consent of instructor.

Soc 541. Theory of Organization. 3 credit hours.

Examination of the history of theories about complex organizations, and an analysis of organizational structures and processes with particular emphasis on inter-organizational relations, and the organization-person and organization-society linkages.

Soc 542. Power and Influence in Community and Society. 3 credit hours.

Critical examination and evaluation of studies of power structures and the decision-making process, particularly at the community level, in terms of theoretical and methodological considerations.

Soc 560. Analytical Problems in Social Institutions. 3 credit hours.

A critical analysis of the conceptual, theoretical, and empirical problems, together with possible alternative solutions, in the area of social institutions. Prerequisite: graduate standing in sociology, or consent of instructor.

Soc 561. Values and Social Structure. 3 credit hours.

Examination of value and belief systems as related to socially patterned behavior; consideration of major theoretical perspectives, methods of classification, and selected empirical studies. Prerequisite: 9 credit hours in sociology.

Soc 571. History of Social Thought. 3 credit hours.

Historical analysis of Western social thought in terms of its recurrent problems, its basic concepts, and its relation to contemporary sociological theory.

Soc 572. Development of American Sociology. 3 credit hours.

The emergence of American sociology in the nineteenth century; the problems, concepts, and theories of leading American sociologists to 1930.

Soc 573. Contemporary Sociology. 3 credit hours.

Analysis of the work of leading contemporary sociologists, with special emphasis on the problems, concepts, and methods of sociological inquiry.

Soc 575. Theory Building in Sociology. 3 credit hours.

Analysis in relation to theories in the behavioral sciences: the components of a scientific theory; the relationship between theory and research; the nature of scientific tests of theories.

Course Offered Only in Summer Session

Soc 508. Workshop.

Credit hours to be arranged. Topics to be announced.

Speech

Faculty

Department Head, Carl W. Carmichael, Ph.D., Associate Professor of Rhetoric and Communication (communication theory). Director, Communication Research Center. B.A., Westminster, 1961; M.A., Louisiana State, 1962; Ph.D., Iowa, 1965; at Oregon since 1965.

Bower Aly, Ph.D., Emeritus Professor of Rhetoric and Communication (history of public address). B.S., Southeast Missouri State, 1925; M.A., Missouri, 1926; Ph.D., Columbia, 1941; at Oregon since 1957.

James K. Carroll, M.A., Instructor in Broadcast Communication (instructional television, media). B.A., 1963, M.A., 1969, Michigan State; at Oregon since 1969.

Robert D. Clark, Ph.D., Professor of Rhetoric and Communication (history and criticism of public address). President, University of Oregon. A.B., Pasadena College, 1931; M.A., 1935, Ph.D., 1946, Southern California; LL.D., Santa Clara, 1968; at Oregon 1943-64, and since 1969.

Charles E. Combs, M.A., Instructor in Theater. B.A., 1963, M.A., 1968, San Jose State; at Oregon since 1970.

Gary P. Cross, Ph.D., Assistant Professor of Rhetoric and Communication (forensics, communication theory). B.S., 1964, M.S., 1965, Oregon; Ph.D., Utah, 1971; at Oregon since 1972.

Jean V. Cutler, Ph.D., Associate Professor of Theater. Director, Theater Area. B.A., Lynchburg, 1955; M.A., 1959, Ph.D., 1962, Illinois; at Oregon since 1962.

Faber B. DeChaine, Ph.D., Professor of Theater. Director, University Theater. Director, Carnival Theater. B.S., Oregon, 1952; M.A., Michigan State, 1953; Ph.D., Minnesota, 1963; at Oregon since 1964.

Robert P. Friedman, Ph.D., Professor of Rhetoric and Communication (history and criticism of public address, ethics and freedom of speech). Director, Rhetoric and Communication Area. B.A., North Carolina, 1948; M.A., 1950, Ph.D., 1954, Missouri; at Oregon since 1965.

Ronald B. Gloekler, M.A., Assistant Professor of Theater. B.A., 1966, M.A., 1968, San Jose State; at Oregon since 1969.

Elwood A. Kretsinger, Ph.D., Professor of Broadcast Communication (research instrumentation). B.A., Southeastern State, Oklahoma, 1939; M.A., Oklahoma, 1941; Ph.D., Southern California, 1951; at Oregon since 1952.

Dominic A. LaRusso, Ph.D., Professor of Rhetoric and Communication (rhetorical theory, nonverbal communication). B.A., 1950, M.A., 1952, Washington; Ph.D., Northwestern, 1956; at Oregon since 1968.

Charley A. Leistner, Ph.D., Professor of Rhetoric and Communication (history and criticism of public address, protest rhetoric, small group communication). Director, National Office, NUEA Committee on Discussion and Debate. B.A., Georgetown College, 1949; M.A., Baylor, 1950; Ph.D., Missouri, 1958; at Oregon since 1962.

Kirt E. Montgomery, Ph.D., Emeritus Associate Professor of Rhetoric and Communication (speech education). B.A., Carroll, 1930; M.A., 1939, Ph.D., 1948, Northwestern; at Oregon since 1945.

Horace W. Robinson, M.A., Professor of Theater. B.A., Oklahoma City, 1931; M.A., Iowa, 1932; at Oregon since 1933.

John R. Shepherd, Ph.D., Professor of Broadcast Communication (process of visual communication). Director, Division of Broadcast Services and Televised Instruction. B.A., 1946, M.A., 1947, Stanford; Ph.D., Southern California, 1952; at Oregon since 1957.

Ronald E. Sherriffs, Ph.D., Associate Professor of Broadcast Communication (production, regulation). B.A., 1955, M.A., 1957, San Jose State; Ph.D., Southern California, 1964; at Oregon since 1965.

D. Glenn Starlin, Ph.D., Professor of Broadcast Communication (criticism, international broadcasting). B.A., Idaho, 1938; M.A., 1939, Ph.D., 1951, Iowa; at Oregon since 1947.

J. F. Thibeau, M.F.A., Visiting Assistant Professor of Theater. Technical Director of Theater. B.A., Portland State, 1961; M.F.A., Oregon 1971; at Oregon since 1965.

Graduate Teaching Fellows

David E. Amick (fundamentals of speech). B.A., 1969, M.A., 1970, California State, Fullerton; at Oregon since 1971.

Leslie A. Baxter (small group communication). B.S., Lewis and Clark, 1971; M.S., Oregon, 1972; at Oregon since 1971.

Elizabeth J. Benson, (research assistant, rhetoric and communication). B.A., California at Davis, 1971; at Oregon since 1972.

Barbara L. Breaden (fundamentals of speech). B.A., 1970, M.A., 1972, Illinois; at Oregon since 1972.

Robert B. Foster (theater). B.A., 1963, M.A., 1970, Oklahoma State; at Oregon since 1971.

Paul R. Hamilton (persuasion). B.A., California State, Long Beach, 1971; M.S., Illinois State, 1972; at Oregon since 1972.

Charles E. Harrill (theater). B.A., Wake Forest, 1972; at Oregon since 1972.

Dean C. Ing (fundamentals of speech). B.A., Fresno State, 1956; M.A., San Jose State, 1970; at Oregon since 1970.

Suzanne Larson (fundamentals of speech). B.S., Utah State, 1972; at Oregon since 1972.

Michael J. Marx (forensics). B.S., Gonzaga, 1972; at Oregon since 1972.

Joan E. Shears (research assistant, rhetoric and communication). B.A., Central Washington State, 1965; M.A., Washington State, 1969; at Oregon since 1969.

Chi-Mei I. Wang (theater). B.A., National Taiwan, 1968; at Oregon since 1970.

Thomas J. Young (persuasion). B.A., California State, Long Beach, 1970; M.S., Illinois State, 1971; at Oregon since 1971.

Undergraduate Studies

THE Department of Speech offers major curricula leading to the Bachelor of Arts, Bachelor of Science, Master of Arts, Master of Fine Arts (in theater), Master of Science, and Doctor of Philosophy degrees, with opportunities for study in rhetoric, public address, radio and television broadcasting, theater, speech education, and communication theory and research.

Work in speech is also offered for students majoring in other fields. For these students, the department directs its efforts toward two principal objectives: (1) the development of the ability to communicate thought and feeling; and (2) the improvement of powers of appreciation and evaluation in listening and viewing.

Practical experience in the various phases of the departmental program is provided through the University Theater, the University Symposium and Forensic activities, the Division of Broadcast Services, and the Communication Research Center.

In the planning of its major undergraduate programs, the Department of Speech recognizes three principal objectives:

- (1) The achievement, by all of its major students, of a broad liberal education.
- (2) Sufficient work in the several fields of speech instruction to provide an appreciation of the different areas of communication, including a minimum of 40 credit hours in speech courses, at least 24 of which must be in upper-division courses.
- (3) Concentration in at least one of these fields: rhetoric and communication, broadcast communication, and theater. Undergraduate programs should be developed in conference with an adviser in the field of emphasis.

Secondary-School Teaching of Speech and Drama. For certification as a teacher of speech and drama in Oregon high schools, the Oregon Board of Education requires (1) the satisfaction of certain minimum standards of subject preparation and (2) the recommendation of the institution at which the student completes the subject preparation.

For information concerning subject preparation required to meet state standards in speech and drama and to obtain the recommendation of the University of Oregon, the student should consult the member of the faculty of the Department of Speech who serves as adviser for prospective teachers.

Honors. The Department of Speech offers the Bachelor of Arts and Bachelor of Science degrees with honors. The program is separately devised for each student and is designed to explore his individual interests. The program, administered by a special committee within the department, is limited to those selected major students who have demonstrated unusual ability and uncommon commitment.

Committee on Discussion and Debate. The national office of the Committee on Discussion and Debate of the National University Extension Association is located on the campus of the University of Oregon. The committee provides services to high-school debate leagues throughout the United States, including publication of *The Forensic Quarterly* and related books, distribution of discussion and debate materials, and maintenance of a forensics library.

Rhetoric and Communication

The Department of Speech, through its rhetoric and communication program, seeks to give its undergraduate students a knowledge and appreciation of and a competence for speech-making and other forms of human communication.

Students develop abilities in the various forms of public speaking and discussion, and study the theories of rhetoric and communication. They develop competence in using the tools of communication research, gain a knowledge of the role of speech-making in history, and become familiar with collateral material in and outside the field of speech.

All courses in rhetoric and communication are available on a pass-undifferentiated basis. However, students majoring in the program must take all courses required for their major on a pass-differentiated basis.

In addition to all bachelor-degree requirements of the University, the following minimum requirements are specified for students with a major emphasis in rhetoric and communication:

Fundamentals of Speech (Rht 121, 122, 123); Theory and Literature of Rhetoric (Rht 301, 302, 303); The Logic of Argument (Rht 321); Persuasion (Rht 322); Group Communication (Rht 323); any two of the following, except that only one may come from Rht 221, 331, or 332: Public Discussion (Rht 221), Advanced Public Discussion (Rht 331), Advanced Public Discussion (Rht 332), Practicum (Rht 409), and Public Address (Rht 435); and two of the following: Quantitative Methods in Speech (Rht 430), Speech Communication Research (Rht 431), Speech Communication and Group Process (Rht 432), Nonverbal Communication (Rht 434), and Seminar in Communication and Language (Rht 407); any two of the following: Great Speeches (Rht 235), Rhetorical Theory: 400 B.C.-400 A.D. (Rht 417), History and Criticism of Classical Speeches (Rht 421), History and Criticism of British Speeches (Rht 422), and History and Criticism of American Speeches (Rht 423); any one of the following: Seminar in Backgrounds of Black Protest Rhetoric (Rht 407), Seminar in Rhetoric of Black Power (Rht 407), Ethics of Persuasion (Rht 424), and Freedom of Speech (Rht 425); any one of the following: Interpretation (Th 229) or Advanced Interpretation (Th 324); a minimum of 9 additional credit hours in courses approved by the student's adviser in either Broadcast Communication, Theater, or Speech Pathology and Audiology in the College of Education or a combination of these; and a minimum of 12 upper division credit hours of courses approved by the student's adviser in a single related field (but not necessarily in one department) outside the Department of Speech.

Secondary-School Certification. Students who wish to qualify as teachers of speech are required to complete the following program of study. All courses satisfying these requirements must be taken on a graded basis:

Fundamentals of Speech (Rht 121, 122, 123); Theory and Literature of Rhetoric (Rht 301, 302, 303); The Logic of Argument (Rht 321); Persuasion (Rht 322); Group Communication (Rht 323); Directing the Forensic Program (Rht 418); Nonverbal Communication (Rht 434); any two of the following, except that only one may come from Rht 221, 331, or 332: Public Discussion (Rht 221), Advanced Public Discussion (Rht 331), Advanced Public Discussion (Rht 332), Practicum (Rht 409), and Public Address (Rht 435); any two of the following: Great Speeches (Rht 235), Rhetorical Theory: 400 B.C.-400 A.D. (Rht 417), History and Criticism of Classical Speeches (Rht 421), History and Criticism of British Speeches (Rht 422), and History and

Criticism of American Speeches (Rht 423); any one of the following: Seminar in Backgrounds of Black Protest Rhetoric (Rht 407), Seminar in Rhetoric of Black Power (Rht 407), Ethics of Persuasion (Rht 424), and Freedom of Speech (Rht 425); any one of the following: Quantitative Methods in Speech (Rht 430), Speech Communication Research (Rht 431), Speech Communication and the Group Process (Rht 432), and Seminar in Communication and Language (Rht 407); any one of the following: Interpretation (Th 229) or Advanced Interpretation (Th 324); Elements of Acting (Th 251); one course in Broadcast Communication approved by the student's adviser; a minimum of 9 upper-division credit hours of courses approved by the student's adviser in a single related field (but not necessarily in one department) outside the Department of Speech; Human Development and Learning (EPsy 326, or equivalent); Special Secondary Methods: Speech (CI 408); Student Teaching: Senior High School (CI 417); and if CI 417 is taken for 10 rather than 15 hours, any additional 300 or 400 level course from the College of Education.

Broadcast Communication

The broadcast communication area is concerned with instruction in basic elements of broadcasting and communication theory, along with appropriate laboratory practice in the broadcast studio, in an attempt to bring knowledge and understanding of radio and television to students so that they may enter into a career in public or educational broadcasting, into commercial broadcasting, into teaching or research in broadcast communication, or so that they may be more informed and concerned citizens as listener-viewers of radio and television. The curriculum attempts to educate the student in the nature, functions, and capabilities of the mass media in contemporary society through a combination of studies in selected Liberal Arts and professional disciplines.

Although no special preparation is required for entering freshmen, students planning to transfer from two-year colleges are strongly advised to fulfill the University's group requirements prior to transfer. The transfer student is also advised to complete as many of the lower-division courses required of a broadcast communication major as possible at the two-year college.

The broadcast communication area offers both the Bachelor of Arts and Bachelor of Science degrees for undergraduates. Students wishing to major in the area must apply for formal status as "majors" through the area's screening committee no later than the first term of their junior year.

At the undergraduate level, students are required to include study in the areas of mass-communication theory, broadcast history and law, studio procedures, performance, production, direction, writing, and criticism; and to supplement liberal arts courses in the social sciences with coursework in music, drama, literature, or art to enhance their knowledge and appreciation of potential program content. Students are likewise encouraged to acquaint themselves with the business, advertising, news, and educational aspects of broadcasting through electives from other departments. Students may also enrich their media experience through participation in all phases of radio and television production in the facility shared with the University's Division of Broadcast Services and Televised Instruction.

Area majors must complete a minimum of 30 credit hours of upper-division coursework within the area. A minimum of 40 credit hours must be completed within the department and a maximum of 60 credit hours earned within the department may be included

in the 186 required for the Bachelor of Arts or Bachelor of Science degree. All courses required for broadcast communication majors must be taken on a graded basis if offered with the BC prefix.

Courses identified with a major in the area are listed in two categories: first, the core courses required of all majors and, second, the courses recommended for the field of emphasis developed by the student. The model programs presented here represent patterns of past student interest. New students are expected to develop a degree program appropriate to their interests in consultation with their faculty adviser whom they are required to consult at least once per term.

Courses required (in addition to all University requirements for the Bachelor degree): Fundamentals of Speech (Rht 121); Interpretation (Th 229) or Elements of Acting (Th 251); Fundamentals of Broadcasting (BC 241); Radio Workshop (BC 342); Television Workshop (BC 344); Radio Workshop (BC 343) or Television Workshop (BC 345); Radio-Television Writing (BC 347); Theory of Mass Communication (BC 433); Radio-Television and the Public (BC 448); Government Regulation of Broadcasting (BC 449); Radio-Television News I (J 431) or Media of Advertising: Broadcast (J 442); Introduction to Music and its Literature (Mus 201); and one course in either dramatic literature or appreciation of drama. In addition, each student is expected to develop a minor field of study consisting of a minimum of 18 credit hours of upper-division coursework in a single related field outside of the Department of Speech.

The following electives are suggested for students who choose one of these areas of specialization:

Public Affairs Broadcasting. Television and Politics (BC 407); Journalism and Public Opinion (J 494); Problems of Public Broadcasting (BC 407); Freedom of Speech (Rht 425); Social and Political Philosophy (Phl 307, 308, 309); Law of the Press (J 485); and courses in political science and sociology.

Mass Communication Theory. Mass Media and Special Audiences (BC 407); Communication and Culture (Anth 456, 457, 458); Quantitative Methods in Speech (Rht 430); Speech Communication Research (Rht 431); Journalism and Public Opinion (J 494).

Radio-Television Production. Staging and Lighting for Television (BC 372); Television Production (BC 444); Television Direction (BC 445); Film as Literature (Eng 495); Aesthetics (Phl 441, 442, 443); Radio-Television Programming (BC 446); History of the Motion Picture (Th 255, 256); courses in acting, directing, music, dance, writing, graphic design, or film production.

Instructional Broadcasting. Television Production Techniques for Teachers (BC 470); ITV Problems (BC 407); ETV Workshop (BC 408); Audiovisual Aids (CI 435); Sensation and Perception (Psy 211); Learning, Thinking, and Conditioning (Psy 212); Human Development (EPsy 321, EPsy 322, 323); Measurement in Education (EPsy 424); Techniques of Evaluation (CI 407).

Broadcast Administration. Alternative Broadcast Systems (BC 407); Radio-Television Station Management (J 407); courses in marketing, personnel management, and advertising.

Theater

The theater program is oriented toward the liberal arts-humanistic pattern. Some specific courses are preprofessional in nature and

provide a vocational level of competence in teaching, and in some aspects of commercial theater.

The specific fields of study within the area include: acting, directing, design, costume, lighting, history, stagecraft, dramatic literature, interpretation, and theory. The courses in these fields of study are available to both majors and nonmajors.

In addition to all bachelor degree requirements of the University, the following requirements are specified for students with a major emphasis in theater: a minimum of 50 credit hours in speech courses, at least 30 of which must be upper-division courses. A minimum of 9 credit hours in speech courses outside the theater area (specifically, in rhetoric and communication and broadcast communication). It is recommended that the total 9 credit hours not be concentrated in any one of the outside areas. Theater Principles (Th 261, 262, 263); 6 credit hours of work selected from Production Workshop (Th 264, 265, 266) and Costume Workshop (Th 325); Elements of Acting (Th 251); Movement for Actors (CPE 183); Makeup (Th 252); Advanced Interpretation (Th 324); one advanced course in history or theory; Play Direction (Th 364); Survey of Dramatic Art (Th 367, 368, 369); 9 credit hours of advanced work selected from upper-division courses in acting, directing, costume, set design, lighting, or pedagogy; a minimum of 12 credit hours outside the speech department of upper-division courses in related fields.

Secondary-School Certification. Students seeking certification should complete all the above requirements with the following modifications: the 9 credit hours in speech courses outside the theater area must include Rht 121, Fundamentals of Speech, plus 6 credit hours in other Rhetoric and Communication or Broadcast Communication courses; EPsy 326, Human Development and Learning or equivalent (5 hours); CI 408, Special Secondary Methods (Speech) (3 hours); Student Teaching: Senior High School (10-15 hours). Students will be permitted to complete the teacher training program only if their work in the department is judged to be of above average quality.

All courses in theater are available on a pass-undifferentiated basis.

Graduate Studies

Rhetoric and Communication

THE University of Oregon offers the Master of Arts, the Master of Science, and the Doctor of Philosophy degrees in Speech with concentration in the area of rhetoric and communication.

Although graduate students are encouraged to develop more than minimal familiarity with the several areas of rhetoric and communication and at least minimal familiarity with other areas of the field of speech, they will also elect a major interest in rhetorical theory, history and criticism of public address, forensics, communication theory, or speech pedagogy.

Before completion of first term registration, graduate students are obliged to consult with a member of the faculty. Before conclusion of the first term, each graduate student is expected to exert personal initiative in obtaining an adviser. Some students will know at the beginning of the first term on campus which professor they wish to have as an adviser and are free to approach the professor; others may not be prepared to make such a choice until later in

the first term. A student whose graduate plans are altered should not hesitate to seek a change in adviser; such changes are made without embarrassment on anyone's part.

All courses on a graduate student's degree program must be taken on a graded basis unless the course is available on a Pass-No Pass basis only or unless the Pass-No Pass option is approved by the graduate student's advisory committee.

All graduate students should consult the general University regulations governing graduate study in the Graduate School section of this catalog.

Master Degree Requirements. With but one exception, the language requirement, requirements for the M.A. and M.S. degrees are identical. For the M.A. degree, the student must show competence in a foreign language. That competence may be demonstrated by meeting any of the following options: (1) by scoring 450 or above on the GSFLT in one of the languages for which it is available (German, French, or Spanish); (2) by successful completion of local tests administered in languages not covered by GSFLT but acceptable to the student's Advisory Committee; or (3) by transcript evidence of three terms of C or better work at the second year college level in any language acceptable to the Advisory Committee. No foreign language competence is required for the M.S. degree.

Students entering the master program are expected to have acceptable undergraduate preparation in rhetoric and communication or cognate subjects. Those students accepted for work toward the degree who do not meet this expectation may well be required to take specified undergraduate courses or additional hours of graduate courses beyond the minimal requirement for the degree.

A minimum total of 45 credit hours (not more than 9 credit hours of which may be taken for thesis) is required for the master degree with the thesis option. A minimum total of 51 credit hours is required for the nonthesis option. Those who elect the nonthesis option must include on their programs a minimum of 12 credit hours from outside the Department of Speech; those who elect the thesis option must include on their programs a minimum of 9 credit hours from outside the Department of Speech.

All candidates for the master degree are required to take a qualifying examination, preferably during their first term in residence or before they have completed 15 credit hours of graduate work. The qualifying examination consists of both written and oral portions; those students who successfully complete the examination are advanced to candidacy for the master degree.

The only specifically required course for the master degree is Introduction to Graduate Study. The remainder of the program is designed by the candidate, the adviser, and the candidate's graduate committee.

An examining committee administers each student's final examination at or near the completion of the student's work. The committee consists of three to five members nominated by the student's adviser and approved by the department chairman. A minimum of two of the members will be from the rhetoric and communication area and, usually, a minimum of one of the members will be from another department or another area of the Department of Speech. In the instance of students taking the thesis option, the examination is oral and of not less than two hours' duration; students who do not present a thesis will take a comprehensive written examination of not less than eight hours followed by an oral examination of not less than one hour.

Doctor of Philosophy Degree Requirements. Each student's doctoral program is designed for the student with the rationale

that it provides the general background required in the broad area of rhetoric and communication, and the specific support needed for the student's area of specialization and research. Unlike the master degree, the Ph.D. has no specified number of credit hours which candidates for the degree must take. The doctorate usually represents the equivalent of three academic years of full-time study beyond the bachelor degree; doctoral students who are serving as graduate teaching fellows or graduate assistants, and hence carry lesser academic loads, or who are taking work outside their official program of study, should realize that their work on their academic program during that time is less than "full-time."

Preferably, during the student's first term on campus or before completion of 15 credit hours of work, the Ph.D. student is required to take a qualifying examination, which, when passed, permits continuation of work on the degree. The examination, written and oral, is administered by a committee selected by the student and adviser. The examination is designed to measure previous accomplishment and diagnose future needs. If previous accomplishment is judged adequate, the student is passed and analysis of the results of the examination is used in planning the student's program by the permanent adviser and the advisory committee.

The student's advisory committee, appointed by the head of the department on the recommendation of the student's permanent adviser, is responsible for approving the total study program. Preferably the program planning will occur shortly after the qualifying examination and in no case later than the close of the student's first year of residency. The committee will receive the proposed study program prepared by the student and the permanent adviser, make what changes it deems necessary, and approve the resulting program.

Program Requirements. Doctoral students will complete a program of study which is equivalent to three academic years of full-time study beyond the bachelor degree. That program will be worked out in consultation with the student's adviser, be approved by the student's advisory committee, and will include a minimum of 9 graduate credit hours in a department or departments other than the speech department and apart from any graduate level work completed in satisfying requirements described below.

Language, Research Tool, Related Discipline Requirements. Two of the following three options must be chosen to fulfill the requirements: (A) Language. Demonstration of proficiency in one foreign language. Proficiency may be demonstrated: (1) by scoring 450 or above on the GSFLT in one of the languages for which it is available (German, French, or Spanish); (2) by successful completion of local tests administered in languages not covered by GSFLT but acceptable to the student's advisory committee; or (3) by transcript evidence of three terms of C or better work at the second year college level in any language acceptable to the advisory committee. (B) Research Tool. Completion of a three-term course of study leading to the development of a research tool relevant to the student's particular program. Work in each term of this study must be completed with a grade of C or better. The work offered by the student in satisfying this requirement must be approved by the student's advisory committee. For example, a student's program may require such tools as computer programming, historiography, or statistics. (C) Related Discipline. Completion of a three-term course of study, work in each term of which must be completed with a grade of C or better. The work offered by the student in satisfying this requirement must be approved by the advisory committee. The following options, although not exhaustive, are typical of sequences and alternatives taken by the doctoral students: (1) statistics; (2) computer programming; (3) linguistics; (4) language, culture, and behavior; (5) a second language (to be certified by any procedure outlined above suitable

for satisfying the language requirement); (6) high proficiency in the language used in satisfying the language requirement (90 percentile on GSFLT national norms or native language proficiency in reading, writing, and speaking through local tests).

Comprehensive Examination. A doctoral student may take the comprehensive examination only after completing substantially all of the program requirements and after completing the approved options in the language, research tool, and related-discipline requirements.

The comprehensive examination, prepared by the student's advisory committee, consists of written and oral portions covering all areas of concentration and such supporting areas as the committee wishes to examine. Successful completion of the examination and other required work advances the student to doctoral candidacy.

Every doctoral candidate is required to present a dissertation embodying the results of research and showing evidence of originality and ability in independent investigation.

An examining committee appointed by the Dean of the Graduate School and consisting of the candidate's advisory committee and other members, including at least one not a member of the Department of Speech, administers the candidate's final examination. The final examination, which must be taken not later than three calendar years after advancement to candidacy, consists of an oral defense of the dissertation by the candidate together with the obligation to respond to questions over the major field with which the dissertation is not directly concerned. Failure to complete the final examination successfully within three years after advancement to candidacy will result in invalidation of the student's comprehensive examination.

Broadcast Communication

Graduate students' academic programs are designed around particular combinations of interests which find expression in research leading to the writing of a master or doctoral thesis. Although studio competence is expected of all broadcast communication area students, graduate work is most often directed to the functions and effects of the media as related to a significant aesthetic, social, political, economic, or educational problem. This emphasis is reflected in those selected for admission to graduate study in the area, many of whom have earned undergraduate degrees in other fields within the humanities or social sciences.

The broadcast communication area maintains programs leading to the M.A., M.S. and Ph.D. degrees. Generally, a master program takes two years beyond the bachelor degree. A doctoral program might be expected to take four years beyond the bachelor degree.

During their first term of residency, students accepted for admission to graduate study in the area will be interviewed and examined by a faculty committee for the purpose of identifying a general focus for his or her graduate program. The final expression of coursework requirements in a specific degree program is the responsibility of the student's thesis committee which will be formed as the features of that program are clarified.

Students applying for admission to graduate study should comply with all general University regulations governing graduate admission which appears in the Graduate School section of this catalog. In addition, applicants must provide transcripts of all college work, at least three confidential personal recommendations, and a brief statement of academic and career goals.

Procedures for applying for admission to graduate study at the doctoral level are similar with the added stipulation that the applicant provide evidence of completion of a master degree program at an accredited college or university.

Theater

The theater area of the Department of Speech offers graduate work in the areas of acting, directing, design, history and theory leading to the Master of Arts, Master of Science, Master of Fine Arts, and Doctor of Philosophy degrees. Students entering this program are assumed to have an undergraduate major in theater or the equivalent.

Degree Requirements.

(1) The M.A. and M.S. degrees each require 45 credit hours of graduate courses. Both of these degrees require either a thesis with an oral examination or an alternate plan consisting of three scholarly papers approved by three members of the faculty and a comprehensive examination on a reading list of 25 titles. The M.A. requires competence in one language.

(2) The M.F.A. is a two-year program with a minimum of 54 credit hours required. The degree is offered in directing, acting, set design, lighting design, costume design, playwriting, and film. Students may not apply for admission to the M.F.A. program until they have been in residence at the University of Oregon for one year. The course work is usually substantially completed during the first year. During the second year, students work on their terminal artistic projects. A complete written report on the project is required, followed by an oral examination on the project.

(3) The Ph.D. degree has no minimum-hour requirement. However, most students submit approximately 130 credit hours beyond the bachelor degree. One language is required for the Ph.D. After candidates have completed most of their course work, they will write a comprehensive examination, followed by an oral examination. A dissertation is required, with an oral examination on the dissertation. The dissertation must be completed within three years after the student is admitted to candidacy after the comprehensive examination.

Academic Requirements.

The only course required of all graduate students is Th 507, Seminar: Introduction to Graduate Study. But it is expected that the potential Ph.D. candidate will complete 45 to 60 credit hours beyond the master degree in the areas of history, theory, and literature of theater. The study program of each student is planned in consultation with an adviser and an examining committee.

All candidates for graduate degrees are required to take a written and oral qualifying examination during the first term of residence. This examination is partially diagnostic in nature, and is used to determine a plan of study for the student. The Miller's Analogy Examination is required, prior to the qualifying examination.

The graduate student is expected to show ability in both the academic and production areas. Each student is expected to make a significant contribution in three areas out of the following six during residence at the University of Oregon: acting, directing, technical, management, playwriting, or teaching.

For the Ph.D. and M.A. degrees, each student is expected to have a reading knowledge of at least one foreign language to be ap-

proved by the student's advisory committee. Proficiency level of the language is to be established by a procedure approved by the committee.

Rhetoric and Communication

Rht 121, 122, 123. Fundamentals of Speech. 3 credit hours each term.

Projects in extempore speaking and analysis of the process of communication. Rht 121, 122: emphasis on message construction, organization, audience motivation, language, persuasion, and the preparation and presentation of speeches. Rht 123: emphasis on participation and analysis of interaction in the small group.

Rht 221. Public Discussion. 2 credit hours.

Preparation of speeches for delivery before public audiences in conjunction with the University's forensic program. Cross.

Rht 235. Great Speeches. 3 credit hours.

Systematic study of selected speeches of British and American orators. Friedman, Leistner.

Rht 301, 302, 303. Theory and Literature of Rhetoric. 3 credit hours each term.

Selected readings on the principles of rhetoric and public address from Plato to modern times. LaRusso.

Rht 321. The Logic of Argument. 3 credit hours.

The study of principles of reasoning and evidence, particularly as they apply to oral discourse. Includes theory and practice. Carmichael, Cross, Friedman.

Rht 322. Persuasion. 3 credit hours.

The study of motivation and audience adaptation, particularly as they apply to oral communication. Includes theory and practice. Carmichael, Cross.

Rht 323. Group Communication. 3 credit hours.

Study of interaction in group communication. Emphasis upon verbal and nonverbal factors relevant to group problem-solving. Carmichael, Cross, Leistner.

Rht 331, 332. Advanced Public Discussion. 2 credit hours each term, winter and spring.

Preparation of speeches to be delivered before public audiences in conjunction with the University's forensic program. Consent of instructor is required. Cross.

Rht 405. Reading and Conference.

Credit hours to be arranged.

Rht 407. Seminar.

Credit hours to be arranged.

Rht 416. Speech Composition. 3 credit hours any term.

Speech forms, types, and techniques; emphasis on application of basic rhetorical elements. Designed for prospective high-school teachers and other nonmajors. Prerequisite: upper-division standing. Friedman, Leistner.

Upper-Division Courses Carrying Graduate Credit

Rht 409. Practicum. (G)

Credit hours to be arranged. Supervised laboratory work of a

project nature, including the preliminary study, development, and execution of major artistic or public service experiments.

Rht 417. Rhetorical Theory 400 B.C.-400 A.D. (G) 3 credit hours.

Development of rhetoric from its birth in Sicily, through its maturation in Greece, to its modification in Rome. Prerequisite: Rht 301, 302, 303, or consent of instructor. LaRusso.

Rht 418. Directing the Forensic Program. (G) 3 credit hours.

Problems and procedures in directing a forensic program at the high-school and college and university levels. Cross.

Rht 421. History and Criticism of Classical Speeches. (G) 3 credit hours.

Rhetorical criticism of selected Greek and Roman speeches. Prerequisite: Rht 301, or equivalent. LaRusso.

Rht 422. History and Criticism of British Speeches. (G) 3 credit hours.

Rhetorical criticism of selected British speeches. Prerequisite: Rht 301, or equivalent. LaRusso.

Rht 423. History and Criticism of American Speeches. (G) 3 credit hours.

Rhetorical criticism of selected American speeches. Prerequisite: Rht 301, or equivalent. Leistner.

Rht 424. Ethics of Persuasion. (G) 3 credit hours.

Study of different positions on the ethics of persuasion, development of individual ethical postures for students in their own persuasive efforts, and ethical appraisals of contemporary persuasion. Friedman.

Rht 425. Freedom of Speech. (G) 3 credit hours.

History and development of freedom of speech in the United States. Friedman.

Rht 430. Quantitative Methods in Speech. (G) 3 credit hours.

Empirical and experimental methods of research in speech communication. Introduction to the experimental method, frequently used statistics, experimental design, problems in empirical research, and philosophical problems in quantitative research. Carmichael.

Rht 431. Speech Communication Research. (G) 3 credit hours.

Survey of the experimental literature relevant to speech communication. Includes studies of models of the communication process, audience, message, and speaker variables, and the teaching of speech. Carmichael, Cross.

Rht 432. Speech Communication and the Group Process. (G) 3 credit hours.

Survey and analysis of small-group literature relevant to speech communication. Major areas: group formation, group tasks, group effectiveness and efficiency, status problems, leadership, problem-solving and conflict resolution, communication in discussion, social power and social control, organizational techniques and problems. Carmichael.

Rht 434. Nonverbal Communication. (G) 3 credit hours.

Aspects of the nonverbal dimensions of interpersonal communications. Psycholinguistic, psychiatric, kinesic, and perceptual theories of Hall, McLuhan, Birdwhistell, Ruesch, and others, with emphasis upon their contributions to the isolation and developments of the factors of time, space, form, material, and action. LaRusso.

Rht 435. Public Address. (G) 3 credit hours spring.

Theory of speechmaking, with study of the texts of speeches by modern orators; practice in preparation of speeches adapted to the professional requirements of students. Consent of instructor is required. Friedman, Leistner.

Graduate Courses

Rht 501. Research.

Credit hours to be arranged. A no-grade course.

Rht 503. Thesis.

Credit hours to be arranged. A no-grade course.

Rht 505. Reading and Conference.

Credit hours to be arranged.

Rht 507. Seminar.

Credit hours to be arranged.

Introduction to Graduate Study.

Problems of Teaching Speech.

History of Speech Education.

British Oratory from 1867.

Backgrounds of Black Protest Rhetoric.

Rhetoric of Black Power.

Persuasion.

Theory of Argumentation.

Communication and Language.

Contemporary Public Address.

Rht 509. Practicum.

Credit hours to be arranged. For description, see Rht 409.

Rht 513. Rhetorical Theory: 1450-1600. 3 credit hours.

Major rhetorical works and movements during the Renaissance. The metamorphosis of rhetorical theory as it relates to the philosophy, religion, education, and politics of the period. Valla, Donne, Cavalcanti, Erasmus, Vives, Ramus, Bacon, Patrizi, Wilson, and others are considered. Prerequisite: Rht 417, or consent of instructor. LaRusso.

Rht 514. Eighteenth-Century Rhetorical Theory. 3 credit hours.

The neoclassical interpretation of the canons of ancient rhetorical theory; its relation to the literary criticism, aesthetics, and logic of the period. LaRusso.

Rht 515. Recent Rhetorical Criticism. 3 credit hours.

The revival of the Aristotle-Cicero canon; the impact of contemporary literary criticism on rhetoric; the relevance of content analysis to rhetorical criticism.

Rht 520. American Public Address to 1850. 3 credit hours.

The role of rhetoric in public issues through the Compromise of 1850. Friedman, Leistner.

Rht 521. American Public Address, 1850-1912. 3 credit hours.

The role of rhetoric in public issues from 1850 to the Wilsonian era. Leistner.

Rht 522. American Public Address from 1912. 3 credit hours.

The role of rhetoric in recent United States history. Friedman.

Rht 523. Documentary Research in American Public Address. 3 credit hours.

A study of the problems in the use of original sources with

primary attention to those especially applicable to research in public address. Friedman.

Rht 530. Attitude Formation and Change. 3 credit hours.

Survey and analysis of research in speech communication relevant to attitude formation, change, measurement, and definition. Prerequisite: Rht 430, or consent of the instructor. Carmichael.

Broadcast Communication

BC 199. Special Studies.

Credit hours to be arranged. Topics to be announced.

BC 241. Fundamentals of Broadcasting. 2 credit hours.

General survey of broadcasting in the United States. Factors relating to the physical bases, the origin and growth, the economics, social control, and influence of broadcasting will be considered.

BC 341. Radio-Television Workshop. 3 credit hours.

Broadcast performance technique; physical, acoustic, and mechanical theory and its application; interpretative theory and its application.

BC 342, 343. Radio Workshop. 3 credit hours each term.

Theory and practice of radio broadcasting.

BC 344, 345. Television Workshop. 3 credit hours each term.

Theory and practice of television broadcasting.

BC 347, 348. Radio-Television Script Writing. 3 credit hours each term.

Radio and television writing techniques; theory and practice in the writing of all major continuity types. Prerequisite: junior standing.

BC 372. Staging and Lighting for Television. 2 credit hours.

Theory and practice of identifying and controlling the visual factors in television production. The interdependence of the direction, quality, and intensity of light, the shape, surface, and composition of the objects lighted, and the camera position and lens setting is explored through group exercises and individual projects. Prerequisite: BC 345.

BC 405. Reading and Conference.

Credit hours to be arranged.

BC 407. Seminar.

Credit hours to be arranged.

Broadcasting and National Development.

Television and Politics.

Mass Media and Special Audiences.

ITV Problems.

Problems of Public Broadcasting.

BC 409. Practicum. 1 credit hour.

Supervised laboratory work of a project nature including the preliminary study, development, and execution of major artistic or public service programs. Prerequisite: junior or senior standing. Consent of instructor is required.

Upper-Division Courses Carrying Graduate Credit

BC 433. Theory of Mass Communication. (G) 4 credit hours.

Emphasis on mass communication theory as the logical pro-

gression from intrapersonal and interpersonal communication theory. A critical analysis of the structure and functions of mass media considered in relation to several theories of mass communication. Analysis of the social context within which mass communication occurs.

BC 444. Television Production. (G) 3 credit hours.

The study of the processes by which ideas are transformed into visual language, through an analysis of various forms of visual representation. Prerequisite: BC 345, or equivalent.

BC 445. Television Direction. (G) 3 credit hours.

Theory and technique of television direction explored through group exercises and individual projects. Prerequisite: BC 345.

BC 446. Radio-Television Programming. (G) 3 credit hours.

Analysis of values, trends, and procedures in broadcast programming schedules; problems in planning program structure to meet community and public service needs.

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

Within the framework of the whole field of mass communications, this course attempts to clarify the purpose and role of broadcasting in the United States. Particular emphasis is given to defining the meaning of "public interest, convenience, and necessity" and to the probing and discussion of freedom, responsibility, and control as these concepts relate to the broadcaster, the government, and the public.

BC 449. Government Regulation of Broadcasting in the United States. (G) 3 credit hours.

An analysis of the laws, regulations, and court decisions which act to regulate broadcasting in the United States. Prerequisite: BC 448, or J 485.

BC 470. Television Production Techniques for Teachers. (G) 4 credit hours.

Intensive study of the development of the theory and practice of televised instruction. Studio exercises designed to explore effective instructional techniques based upon current theories of learning and the achievement of behavioral objectives. Two lectures and one laboratory per week.

Graduate Courses

BC 501. Research.

Credit hours to be arranged.

BC 503. Thesis.

Credit hours to be arranged. A no-grade course.

BC 505. Reading and Conference.

Credit hours to be arranged.

BC 507. Seminar: Introduction to Broadcast Communication Research Methods. 3 credit hours.

An introduction to research methodology essential to the conduct of a research study in broadcast communication. Emphasis is placed on historical, descriptive, experimental, and developmental research methods. Design, hypothesis development, and a brief introduction to statistics and computer programming is included.

BC 507. Seminar.

Credit hours to be arranged.

Problems of Public Broadcasting.

Broadcasting and National Development.

Mass Media and Special Audiences.

Television and Politics.
Problems in Broadcast Communication Research.
ITV Problems.

BC 508. Educational Television Workshop. 4 credit hours.

An intensive program of class and laboratory work for teachers and administrators in the arts and skills of production and performance in the use of television in education.

BC 509. Practicum. 1 credit hour.

For description, see BC 409.

BC 541. Theory and Criticism of Broadcasting. 3 credit hours.

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

BC 544. Radio-Television Program Evaluation. 3 credit hours.

Background and development of broadcast measurements; quantitative methods and survey procedures applicable to the testing of hypotheses in these media.

Theater

Th 199. Special Studies. 1-3 credit hours.

Promotion and Publicity.
Lighting Workshop.
Stage Properties.

Th 229. Interpretation. 2 credit hours.

The application of the principles of oral reading to literature.

AL 230, 231, 232. Survey of the Performing Arts. 3 credit hours each term.

A concurrent study of the arts of dance, music, and theater, with special emphasis on the artistic contribution of the performer. Interrelations among the performing arts. The physical limitations of the forms; period and stylistic influences; temperament and personality as a factor in interpretation. Lectures and discussion; performances by visiting artists.

Th 251. Elements of Acting. 3 credit hours.

Elementary principles of acting technique. Must be taken concurrently with Movement for Actors (CPE 183).

Th 252. Makeup. 1 credit hour.

The history, purpose, and techniques of application of theatrical makeup; the use of makeup in the various theatrical media, with emphasis on stage and television performers. Gloekler.

Th 255. History of Motion Picture. 3 credit hours.

Study of the history of the motion picture as a dramatic art form. The Silent Era: 1895 to 1928. Robinson.

Th 256. History of Motion Picture. 3 credit hours.

A continuation of Th 255. Covers the period 1928-1960, the Sound Era. Robinson.

Th 261, 262, 263. Theater Principles. 1 credit hour each term.

Development of the physical theater; the mechanics of its stage and shops; planning and construction of stage settings, costume, and properties; basic principles of stage lighting.

Th 264, 265, 266. Production Workshop. 2 or 3 credit hours each term.

Practical experience in the construction, painting, and handling of scenery, and in the lighting of plays. Prerequisite: Th 261, 262, 263, or concurrent registration.

Th 267, 268, 269. Appreciation of Drama. 2 credit hours each term.

Study of design, acting, and playwriting, for the purpose of achieving a better appreciation of the drama.

Wr 331, 332, 333. Play Writing. 3 credit hours each term.

Creative experiment in the writing of plays, with incidental study of models. Analysis and discussion of student work. Consent of instructor is required.

Th 324. Advanced Interpretation. 3 credit hours.

Instruction in the discovery and oral expression of meaning and feeling in prose, poetry, and dramatic literature. DeChaine.

Th 325. Costume Workshop. 3 credit hours.

Instruction in the art and craft of stage costuming; practical experience in the design, construction, and maintenance of theatrical costumes. Gloekler.

Th 351. Technique of Acting: Voice. 3 credit hours.

Problems in the use of voice in dramatic roles. Cutler, DeChaine.

Th 352. Technique of Acting: Characterization. 3 credit hours.

Problems in the analysis and presentation of characters. Cutler, DeChaine.

Th 353. Advanced Acting. 3 credit hours.

Advanced problems in acting technique: study, rehearsal, and performance. Prerequisite: Th 251, Th 351, Th 352, consent of instructor. Cutler, DeChaine, Robinson.

Th 364. Play Direction. 3 credit hours.

Sources of dramatic material, choice of plays, casting and rehearsal of players, production organization. DeChaine, Robinson, Cutler.

Th 365. Direction of Children's Theater. 3 credit hours.

History and objectives of theater for the child audience; survey of existing professional and community children's theater programs; techniques of acting, directing, and producing plays for and by children.

Th 367, 368, 369. Survey of Dramatic Art. 3 credit hours each term.

Development of the theater: primitive, pre-Grecian, ancient European, European Renaissance, precursory elements of the new stagecraft, Asiatic subcontinent, Asiatic mainland, Pacific islands.

Th 405. Reading and Conference.

Credit hours to be arranged.

Th 407. Seminar.

Credit hours to be arranged.

Th 409. Practicum.

Credit hours to be arranged. Supervised laboratory work of a project nature, including the preliminary study, development, and execution of major artistic or public service experiments.

Upper-Division Courses Carrying Graduate Credit

Eng 411, 412, 413. English Drama. (G) 3 credit hours each term.

The development of English dramatic forms from the beginnings to Sheridan.

Eng 420, 421, 422. Modern Drama. (G) 3 credit hours each term.

Fall: growth of the modern theater in Europe from beginnings in romanticism through naturalism to symbolism and the poetic theater before 1914; winter: European and American drama between 1915-1940, the experimental theater and its effect on realism; spring: international developments in drama from 1941 to the present. Ball.

Th 460. Advanced Play Direction. (G) 3 credit hours.

Advanced theory and practice in direction of plays for public performance. Prerequisite: Th 364, or consent of instructor. Cutler, DeChaine, Robinson.

Th 461. Introduction to Scene Design. (G) 3 credit hours.

Basic principles and techniques of theatrical design for the school and community theater. Prerequisite: Th 261, 262, 263, or consent of instructor.

Th 462. Advanced Technical Practice in Staging. (G) 3 credit hours.

Principles and techniques of historical scene painting and equipment; analysis of paints; metal working and twentieth-century synthetic materials in the theater; modern theatrical innovation in stage equipment. Prerequisite: Th 261, 262, 263, or consent of instructor.

Th 467. Lighting for the Stage. (G) 3 credit hours.

The functions of lighting on the stage. The qualities of light, lighting.

Graduate Courses

Th 501. Research.

Credit hours to be arranged. A no-grade course.

Th 503. Thesis.

Credit hours to be arranged. A no-grade course.

Th 505. Reading and Conference.

Credit hours to be arranged.

Th 507. Seminar.

Credit hours to be arranged.

Introduction to Graduate Study.

Interpretation.

Cinematography.

Theater Structure.

Theater Management.

Producing the New Play.

Advanced Technical Practice.

Classical Theater.

Advanced Acting.

Twentieth-Century Scenic Aesthetics.

Creative Dramatics.

Costume History.

Costume Design.

Period Costume Patterns.

Th 509. Practicum.

Credit hours to be arranged. For description, see Th 409.

Th 520. History of the American Theater. 3 credit hours.

Readings, reports, projects, and discussions concerning significant events in the theater in the United States, from its beginnings to the present. Consent of instructor is required. Cutler.

Th 530. Continental Theater. 3 credit hours.

Major developments and experiments in the drama and theater production of Europe, Great Britain, and Russia from Buchner to Artaud. Cutler.

Th 531. Avant Garde Theater. 3 credit hours.

New forms, styles, treatments of mood, and expressions of ideas and emotions as they are or may be manifest in literary, dramatic, and theatrical elements and conditions of production. Prerequisite: Th 530, or consent of instructor. Cutler.

Th 532. Theater of Ibsen. 3 credit hours.

The modern Dano-Norwegian theater, with special emphasis on the work of Henrik Ibsen; influence on European and American theater.

Th 533. Theater of Strindberg. 3 credit hours.

The modern Swedish theater, with special emphasis on the work of August Strindberg; influence on European and American theater. DeChaine.

Th 551, 552, 553. Theory of Dramatic Production. 3 credit hours each term.

Fall: theory of acting; winter: theory of dramatic direction; spring: theory of dramatic structure. Cutler, Robinson.

Th 562. Styles in Scene Design. 3 credit hours.

History of scene design; historical styles and their use in the design of productions of theater classics; twentieth-century approaches to production design; the designer's analysis of the play script. Prerequisite: Th 461.

Th 563. Advanced Problems of Scene Design. 3 credit hours.

Selected problems in the design of dramatic productions. Prerequisite: Th 461, Th 562, consent of instructor.

Th 564, 565. History of the Theater. 5 credit hours each term.

Components of the theater during the golden ages of dramatic art: the ancients, European Renaissance, Asiatic, eighteenth- and nineteenth-century Europeans.

Th 568. Advanced Stage Lighting. 3 credit hours.

Theories and methods of lighting stage production. Prerequisite: Th 467, or consent of instructor.

Professional Studies

School of Architecture and Allied Arts

Dean, Robert S. Harris, M.F.A., Professor of Architecture. B.A., Rice University; M.F.A., Princeton, 1960; Reg. Architect, Texas, Oregon; at Oregon since 1967.

Assistant to the Dean, George M. Hodge, Jr., M.S., Professor of Architecture. B.S., 1949, M.S., 1950, Illinois; Reg. Structural Engineer, Texas; at Oregon since 1964.

THE School of Architecture and Allied Arts offers opportunities for study in the history, teaching, and practice of the arts, as well as professional education in architecture, landscape architecture, and urban planning. Approximately ten per cent of the students on the Eugene campus are enrolled in the School's departments of Architecture, Art Education, Art History, Fine and Applied Arts, Landscape Architecture, and Urban Planning (graduate only). The School also includes the Institute for Community Art Studies and the Center for Environmental Research.

Admission, major requirements, and course offerings are described in detail in the departmental sections of this catalog. Freshmen and transfer students must meet University requirements for admission to the School of Architecture and Allied Arts. All previous work being submitted for transfer credit must be approved by the major department. Students are assisted in developing their programs of study by advisers from the department in which they have been admitted.

Many courses are open to nonmajors, especially in the departments of Fine and Applied Art and of Art History. Availability of some courses varies with student demand. Nonmajors are advised to consult the annual *Time Schedule of Classes*, and to check with the offices of departments offering the courses in which they want to enroll.

All departments offer studies leading to graduate degrees. Specific information about these programs will be found under the department headings and in the Graduate School section of this catalog.

The School of Architecture and Allied Arts is principally housed in Lawrence Hall. Facilities include a branch of the University library, administrative and departmental offices, and most of the faculty offices and studio spaces. Some offices and studios are located in adjacent buildings.

For studio courses, the School provides desks, easels, and other major items of equipment not normally available to the individual. Students supply their own instruments and course materials. All student work becomes the property of the School unless other arrangements are approved by the instructor.

Center for Environmental Research

Director, Jerry V. Finrow, M.Arch.
Research Assistant, Georgia Bizios, B.Arch.
Research Assistant, Pemberton Wall.

The Center for Environmental Research was established to sustain and coordinate research dealing with important environmental design questions relating to the man-built and man-altered environ-

ment. Through this emphasis it acts as an integrated research center, supporting research in Architecture, Landscape Architecture, and Urban Planning as well as those visual arts having major impact on the designed environment. The Center has three primary objectives which are: (1) to encourage research in environmental design by establishment of intra and interdisciplinary communication, (2) to give assistance to persons seeking support for projects, and (3) to coordinate the research emphasis in environmental design of the School.

The Center currently administers several grants dealing with (1) housing design for minority cultural sub-groups, (2) institutional housing studies of Army barracks, (3) children's play in the urban context, (4) development of computer-assisted design systems, (5) site-location criteria for housing for the elderly, and (6) landscape and ecological analysis. Through the *Oregon Architectural Research Bulletin*, the Center offers service to the professional design community in abstracting and reviewing major research in the field and assisting design professionals with problems of information development and retrieval. Colloquia are sponsored each term for presentation and review of research work from both within and without the School as a forum for discussing research issues, methods, and findings. An occasional-paper publications series ties research work done at Oregon to other centers of such activity, to national and international conferences, and to individuals interested in the application of research knowledge.

In line with its objectives in promoting research, and in particular the use of research materials, the Center attempts to play a major role in the education of designers. This is done through the establishment of a research documents library for use by students and instructors, by collecting, organizing, and storing student research work, and by participation of Center staff in classroom and studio coursework. Students, both undergraduate and graduate, are encouraged to pursue research interests and to develop grant proposals around those interests.

Institute for Community Art Studies

Director, June K. McFee, Ed.D.
Research Associate, Gordon L. Kensler, Ed.D.
Research Associate, Rogena R. Putnam.

The Institute for Community Art Studies is a research and public service organization concerned with public understanding and appreciation of the arts, including architecture, community design, the natural and man-made landscape, the fine arts, and the traditional and experimental crafts.

Research is concerned with decision-making in the arts, behavioral and aesthetic foundations of theoretical design, educational processes in the arts, and art as a means of social communication and cultural transmission.

Public service activities are focused on the development and evaluation of general education programs in the different aspects of the arts in the schools and communities of the state.

Architecture

Faculty

- Department Head, Wilmot G. Gilland, M.F.A., Professor of Architecture (design procedure, creative process, form-context systems). A.B., 1955, M.F.A., 1960, Princeton; Reg. Architect, California; at Oregon since 1969.
- George F. Andrews, B.S., Professor of Architecture (design; housing; new towns; prehistoric architecture and settlement patterns). B.S., Michigan, 1941; NCARB Certificate; Reg. Architect, Oregon; at Oregon since 1948. (On leave of absence, 1973-74.)
- Donald L. Berger, B.Arch., Assistant Professor of Interior Architecture (design; commercial and institutional interiors, displays, graphics). B.Arch., North Dakota State, 1954; at Oregon since 1969.
- John L. Briscoe, B.Arch., Professor of Architecture (structural design, tension structures, construction, financial feasibility). B.Arch., Oklahoma State, 1950; NCARB Certificate; Reg. Architect, Oregon; at Oregon since 1953.
- Stanley W. Bryan, M.Arch., Professor of Architecture (design; campus planning; industrialized construction; forest products in construction). B.Arch., Washington, 1947; M.Arch., Massachusetts Institute of Technology, 1948; Reg. Architect, Oregon, Washington, California; at Oregon 1949-50, and since 1955.
- Philip H. Dole, M.S., Professor of Architecture (design; settlement patterns; vernacular; utopias; pioneer Oregon architecture, preservation). B.Arch., Harvard, 1949; M.S., Columbia, 1954; Reg. Architect, New York; at Oregon since 1956. (On sabbatical leave, 1973-74.)
- Robert R. Dvorak, M.Arch., Assistant Professor of Architecture (visual communication; space, time, motion, film). B.Arch., Illinois, 1961; M.Arch., California, 1967; at Oregon since 1967.
- Paul Edlund, B.Arch., Visiting Lecturer of Architecture (construction systems, methods, communication techniques; office practice). B.Arch., Oregon, 1956; Reg. Architect, Oregon; at Oregon since 1968.
- Ianto Evans, D.L.A., Visiting Assistant Professor of Architecture and Landscape Architecture (land use). I.C.A.C., NW School of Art, 1963; D.L.A., with distinction, Edinburgh University, 1969; A.I.L.A.; at Oregon since 1972.
- Robert R. Ferens, M.Arch., Professor of Architecture (evolutionary and designed forms; African building and planning). Diploma Arch., 1941, B.Arch., 1942, Pratt Institute; M.Arch., Massachusetts Institute of Technology, 1948; at Oregon since 1948.
- Gunilla K. Finrow, M.Arch., Visiting Assistant Professor of Architecture (basic design; Scandinavian architecture). Dipl. Arch., Swiss Federal Institute of Technology, 1963; M.Arch., California, Berkeley, 1967; at Oregon since 1970.
- Jerry V. Finrow, M.Arch., Associate Professor of Architecture. Director, Center for Environmental Research (research methods and computer applications; human environmental behavior). B.Arch., Washington, 1964; M.Arch., California, Berkeley, 1968; Reg. Architect, Oregon; at Oregon since 1968.
- Brownell Frasier, B.A., Associate Professor Emeritus of Interior Design. B.A., Oregon, 1921; at Oregon since 1931.
- Philip C. Gilmore, M.F.A., Associate Professor of Architecture (design; rehabilitation; the designer's community responsibility; painting and sculpture). B.Arch., 1948, M.F.A., 1956, Oregon; Reg. Architect, Oregon; at Oregon since 1960.
- Thomas O. Hacker, B.Arch., Assistant Professor of Architecture (design; cultural comparison as design tool). B.A., 1964, B.Arch., 1967, Pennsylvania; at Oregon since 1970.
- Frederick T. Hannaford, B.A., Professor Emeritus of Architecture. B.A., Washington State, 1924; Reg. Architect, Florida; at Oregon since 1946.
- Robert S. Harris, M.F.A., Professor of Architecture and Dean (design; strategies and theory; symbolism; learning from environments). B.A., Rice University; M.F.A., Princeton, 1960; Reg. Architect, Texas, Oregon; at Oregon since 1967.
- Arthur W. Hawn, M.A., Assistant Professor of Interior Architecture (design; preservation; history of furniture; color; office landscape). B.A., 1961, M.A., 1964, Washington State; N.S.I.D. membership; at Oregon since 1967.
- Wallace S. Hayden, B.Arch., Professor Emeritus of Architecture. B.Arch., Oregon, 1928; Reg. Architect, Oregon; at Oregon since 1930.
- Rosaria Hodgdon, Dott. Archit., Visiting Assistant Professor of Architecture (design; concept-form; continuing education; women in the profession; Italy). Dott. in Archit., University of Naples, 1945; Reg. Architect, Massachusetts; at Oregon since 1972.
- George M. Hodge, Jr., M.S., Professor of Architecture (reinforced concrete construction; prestressed concrete and earthquake design). B.S., 1949, M.S., 1950, Illinois; Reg. Structural Engineer, Texas; at Oregon since 1964.
- Thomas C. Hubka, M.Arch., Visiting Assistant Professor of Architecture (image in design; design criteria; media studies; community planning). B.Arch., Carnegie-Mellon, 1969; M.Arch., Oregon, 1972; at Oregon since 1972.
- Lyman T. Johnson, M.A., Associate Professor of Interior Architecture (behavioral, technological influences in interiors; ergonomics; furniture design). B.A., 1957, M.A., 1959, California, Los Angeles; I.D.E.C. membership; at Oregon since 1966.
- William Kleinsasser, M.F.A., Professor of Architecture (design; experiential design considerations; design process; built demonstrations of design theory; work of Henry Mercer). A.B., 1951, M.F.A., 1956, Princeton; Reg. Architect, Pennsylvania, New York; at Oregon since 1965.
- Ronald J. Lovinger, M.L.A., Associate Professor of Landscape Architecture and Architecture (design; ecological, cultural, evolutionary characteristics of landscape form). B.F.A., Illinois, 1961; M.L.A., Pennsylvania, 1963; at Oregon since 1965.
- E. Fuller Moore, M.Arch., Assistant Professor of Architecture (architectural media; photography; environmental controls; climate-oriented design). B.Arch., 1964, M.Arch., 1969, Virginia Polytechnic Institute; Reg. Architect, Georgia, Oregon; at Oregon since 1969.
- Earl E. Moursund, M.Arch., Professor of Architecture (design; spatial composition and theory; medieval German village formation). B.S., Texas, 1949; M.Arch., Cranbrook Academy of Art, 1951; Reg. Architect, Texas; at Oregon since 1955.

Ernest Muster, M.S., Senior Instructor of Architecture (furniture design and construction). B.S., Tec. Fachschule, Blankenburg, Germany, 1936; M.S., Swiss Federal Dept. of Higher Professional Education, 1944; at Oregon since 1961.

Albert S. Pastine, B.A., Visiting Lecturer of Architecture (Urban Research Group, City College of New York). B.A., Cooper Union, New York, 1965; at Oregon since 1972.

Donald L. Peting, M.Arch., Associate Professor of Architecture (pneumatic structures; wind-supported structures; wind and watermills). B.Arch., Illinois, 1962; M.Arch., California, 1963; Reg. Architect, Washington; at Oregon since 1963.

Pasquale M. Piccioni, B.Arch., Associate Professor of Architecture (design; light-space-structure relationship/ecology/cultural ecology). B.Arch., Pennsylvania, 1960; Reg. Architect, Pennsylvania; at Oregon since 1968.

Guntis Plesums, M.Arch., Assistant Professor of Architecture (design; structure systems; Japanese architecture; user-completed housing). B.Arch., Minnesota; M.Arch., Massachusetts Institute of Technology, 1964; Reg. Architect, New York; at Oregon since 1969. (On leave of absence fall 1973.)

Otto Poticha, B.S., Associate Professor of Architecture (design; architecture practice; community involvement in physical change). B.S., University of Cincinnati, 1958; NCARB Certificate; Reg. Architect, Indiana, Oregon; at Oregon since 1964.

John S. Reynolds, M.Arch., Associate Professor of Architecture (design; relating architecture, energy consumption, climate and society; environmental control systems). B.Arch., Illinois, 1962; M.Arch., Massachusetts Institute of Technology, 1967; Reg. Architect, Oregon, Massachusetts; at Oregon since 1967.

Cynthia Ripley, M.Arch., Visiting Assistant Professor of Architecture (design; behavior in man-made settings; environments accommodating change). B.A., Connecticut College, 1963; M.Arch., California, Berkeley, 1969; Reg. Architect, Oregon; at Oregon since 1972.

David Alan Sandahl, M.C.P., Visiting Assistant Professor of Architecture (design; man-environment relations; design as an experiment in social behavior). B.Arch., California, Berkeley, 1967; M.C.P., Massachusetts Institute of Technology, 1969; at Oregon since 1972.

Michael E. Shellenbarger, M.S., Assistant Professor of Architecture (community design centers; groups; educational architecture). B.Arch., Iowa State, 1960; M.S., Columbia, 1966, NCARB Certificate; Reg. Architect, New York; at Oregon since 1971.

Richard A. Smith, M.S., Associate Professor of Architecture (design; vernacular buildings; neighborhood structure in Japanese cities). B.Arch., Michigan, 1956; M.S., Minnesota, 1962; at Oregon since 1962.

Stephen J. Y. Tang, M.S., Professor of Architecture (structural planning; methodology; decision-making; operations-research techniques). B.S., 1942, M.S., 1944, Illinois; Reg. Structural Engineer, Illinois; at Oregon since 1969.

Richard L. Unruh, M.Arch., Assistant Professor of Architecture (design; transportation systems; project management; low-income housing). A.B., Willamette, 1952; B.Arch., MIT, 1956; M.Arch., 1963; Reg. Architect, Oregon; at Oregon since 1963. (On leave of absence, 1973-74.)

DeNorval Unthank, Jr., B.Arch., Associate Professor of Architecture (design; architectural practice; housing; site analysis). B.Arch., Oregon, 1952; Reg. Architect, Oregon; at Oregon since 1965.

Michael D. Utsey, M.E.D., Assistant Professor of Architecture (design; analogic and iconic graphical procedures/theory).

B.Arch., Texas, 1967; M.E.D., Yale, 1971; at Oregon since 1967.

Graduate Teaching Fellows

Georgia Bizios, A.B., Colby College, 1967; B.Arch., Minnesota, 1971.

Ricardo Castro, Arquitecto, University de los Andes, Bogota, Colombia, 1972.

Ernest C. Hart, B.Arch., Illinois, 1970.

Geoffrey L. Herbert, B.A., Antioch College, 1971.

Robert C. Koch, B.Arch., Virginia Polytechnic Institute, 1971.

Roman Kolodij, Degree work, North Carolina State, 1965.

Richard Philips, S.B.A.D., Massachusetts Institute of Technology, 1971.

James Taipale, B.I.A., Oregon, 1972.

Bill Wong, B.Arch., Case Western Reserve University, 1970.

Scott Wylie, B.F.A., 1969, B.Arch., 1970, Rhode Island School of Design.

Undergraduate Studies

THE curriculum in architecture, leading to the degree of Bachelor of Architecture, is a five-year program. The program is designed to allow considerable flexibility in the establishment of study sequences according to the individual student's interests and needs, and in recognition of diverse opportunities in the profession. Although many students prepare for professional registration and apprenticeship with practicing architects, others go into such areas as community and neighborhood planning work; governmental agencies concerned with environmental policy formation, planning, programming, design and implementation; and the construction industry. The teaching objectives of the Department of Architecture have two major components. One considers the study of architecture as a significant educational experience in relation to problem-solving abilities and awareness of crucial environmental issues. The other considers a detailed professional education in the development of understanding and skill in physical design on a continuum of scales from urban design to intimate personal space. An advising system provides close communication with faculty members in making decisions about specific directions of study emphasis.

Because interest in the program exceeds the capacity of the department, prospective students are advised to make early application. Some students may be accepted into the University but placed on a waiting list status to initiate studies in Architecture, Interior Architecture, and Landscape Architecture. Transfer students should be advised that an accelerated program will not normally be possible. Consult the department for advice on enrollment policies.

The program requires that students engage work in all four of the following interrelated areas:

Interconnections Area. Develops a basic conceptual framework for understanding the physical environment. Examination of environmental issues, identification of human and material resources, and exploration of relational patterns between the department and the concerns of other areas in the School of Architecture and Allied Arts, in the University, and in the community. Courses are open to nonmajors.

Design Area. Provides opportunities to engage in comprehensive and integrative design of the physical environment. Students work in studio groups of fifteen with faculty members in the development of design-process skills. Emphasis is on the appropriateness of proposals as they satisfy the need to support a broad range of human activities.

Subject Area. Permits access to basic knowledge in the fields of environmental design and the development of professional skills. Research on specific environmental topics is also engaged in specific courses. The subject area is grouped into seven sub-areas of special emphasis, as follows: Design Theory and Procedure, Architectural Media, Environmental Control Systems, Structural Theory, Construction Processes, Physical Context, and Cultural Context.

Electives Area. Permits opportunities to develop individual interests. Students are especially encouraged to take courses in the University at large which are relevant to and supportive of environmental design studies.

Degree Requirements. Candidates for the Bachelor of Architecture degree must satisfy the following requirements, totaling 220 credit hours:

(1) **General University requirements** of 48 credit hours, distributed as follows: (a) group requirements, 36 credit hours in Arts and Letters, Social Sciences, and Sciences. Students are urged to take courses which provide background for subsequent architecture as well as advanced University courses pertinent to architecture; for example: art history, biology, geography, geology, literature, mathematics, physics, psychology, sociology; (b) English composition, 6 credit hours; (c) physical education, 5 credit hours; (d) health education, 1 credit hour.

(2) Major program requirements of 172 credit hours, distributed as follows: (a) Interconnections, Design, and Subject Areas, 124 credit hours; (b) Electives, 48 credit hours.

As the study of architecture is integrative of understandings developed in many disciplines, the program encourages a mix of departmental and general University courses throughout the five-year course of study.

(3) **Specific Departmental Requirements.** (a) **Interconnections**, 9 credit hours: Environment and Communication (Arch 221), Environment and Cultural Milieu (Arch 222), Environment and Life Support (Arch 223).

(b) **Design Area**, 45 credit hours: Architectural Design (Arch 180), Architectural Design (Arch 380). Arch 180 is usually taken for one term during the first year of the program, and Arch 380 is taken two out of three terms during each of the succeeding four years. Students who are eligible for Arch 380 may select from a range of over fifteen studio offerings.

(c) **Subject Area**, a minimum of 70 credit hours from the approved Lists A and B, below. At least 54 credit hours must be courses offered by the Department of Architecture, List A. Coursework in all seven of the groups is encouraged, and should be engaged in by someone intending to enter architectural practice.

(i) Additional courses may be approved for Subject credit by the faculty prior to enrollment.

(ii) Interconnections, Search, and Design courses are not Subject Area courses. Coursework in Arch 401, 403, 405, 406, 501, 505, and 506, not on List A, must be approved on an individual basis to count as Subject credit.

List A**List B**

DESIGN THEORY AND PROCEDURE

Design Process and Method (Arch 311)	Introduction to Numerical Computation (CS 233)
Design Criteria (Arch 407)	
Research Methods (Arch 411)	
Spatial Composition & Dynamics (Arch 416)	

ARCHITECTURAL MEDIA

Intro to Architectural Media (Arch 333)	Photographic Seeing (J 335)
Architectural Media (Arch 334, 335)	Graphic Design, Sculpture, Painting, Printmaking (up to 9 hours credit)

ENVIRONMENTAL CONTROL SYSTEMS

Introduction to ECS (Arch 321)
Environmental Control Systems (Arch 322, 323)
ECS Lecture (Arch 406)

STRUCTURAL THEORY

Introduction to Structures (Arch 365)
Theory of Structures I (Arch 366, 367)
Structure Systems (Arch 372, 373)
Theory of Structures II (Arch 465, 466, 467)
Theory of Structures III (Arch 565, 566, 567)

CONSTRUCTION PROCESSES

Building Materials (Arch 327)
Construction Processes (Arch 351)
Construction Communications (Arch 417, 418, 419)
Structural Planning (Arch 472)
Architecture Workshop (Arch 499)
Advanced Structural Planning (Arch 506)

PHYSICAL CONTEXT

Site Analysis (Arch 341)	Landscape Subjects Program, See page 205 (up to 6 credit hours)
Ecological Implications (Arch 406)	Land-Use Planning I (UP 540)
	Land-Use Planning II (UP 541)
	Aerial Photo Interpretation and Remote Sensing (Geog 484)

CULTURAL CONTEXT

Man-Environment Relations (Arch 406)	Survey of Urban Planning (UP 350)
Multi-family Housing (Arch 407)	Urban Design (UP 545)
Architectural Education (Arch 414)	Social Issues in Planning (UP 550)
Architectural Practice (Arch 429)	Housing and Urban Renewal (UP 555)
	Ancient Architecture (ArH 441)

List A

Settlement Patterns
(Arch 431, 432, 433)
Architecture as Form
(Arch 435)

List B

Early Medieval Architecture
(ArH 442)
Gothic Architecture (ArH 443)
Renaissance & Baroque Arch.
(ArH 444)
Nineteenth Century Architecture
(ArH 445)
Twentieth Century Architecture
(ArH 446)
Hist. of Landscape Arch.
(ArH 447, 448)
American Architecture
(ArH 471, 472, 473)
Hist. of Int. Arch.
(ArH 451, 452, 453)
Behavioral Ecology
(CSPA 420)
Introduction to Law (FBE 226)
Introduction to Real Estate
(FBE 341)
Real Estate Finance (FBE 440)
Real Property Development
(FBE 444)
Urban Geography
(Geog 435, 436)
Urbanization and the City
(Soc 442)

(d) **Electives Area**, 48 credit hours.

The following special courses may be approved by the Department of Architecture faculty as satisfying Interconnection, Subject, Design, or Elective areas of study: Research (Arch 401, 501), Thesis (Arch 403, 503), Reading and Conference (Arch 405, 505), Special Problems (Arch 406, 506), Seminar (Arch 407, 507).

Majors may take any graded course on either a pass-differentiated (graded) or pass-undifferentiated (ungraded) basis.

The curriculum in architecture is accredited by the National Architectural Accrediting Board.

Graduate Studies

THERE are three programs of graduate study in architecture at the University of Oregon:

The Class 8 Program leads to the Master of Architecture degree. This program normally takes from four to six terms and includes about six new students each year. Applicants must have a professional degree in architecture.

The Class 6 Program leads to the Bachelor of Architecture degree. This program normally takes nine terms and includes about fifteen new students each year. Applicants must have an A. B. or B.S. degree. In some cases, transfer credit may be given to students who have majored in architecture or who have had special experience in architecture.

The Class 3 Program is a special program for those occasional people who do not have any college degree, but who do have substantial, well-documented architectural experience and a significant graduate study goal. The Class 3 program is a conditional program; after the first year, if satisfactory progress is being

made, Class 3 students would normally transfer to the Class 8 program.

A more detailed description of the Class 8, Class 6, and Class 3 programs follows:

Class 8 (Master of Architecture). This program should be understood as an opportunity, beyond that normally offered by five-year professional degree architectural programs, to study architectural subjects of significance. Class 8 students are expected to quickly become familiar with the architectural faculty and its on-going work, then to initiate and develop personal study programs in close relation to that work. These individual study programs would normally culminate in Master of Architecture theses, which would synthesize and clearly communicate the work done. A typical Master study program would focus on one or several significant architectural topics and would normally rely heavily on the study method of design probing. It would draw upon professional and general University courses, formal and informal reading courses and seminars, continuous personal consultation with members of the faculty, and other investigation growing out of a student's initiative. Students might carry on their own funded research, assist in the preparation of coursework, teach in an assisting capacity, prepare exhibits and demonstrations and give lectures.

Students in the Class 8 program are required to complete 45 credit hours of work; 30 of the 45 hours must be done in the Department of Architecture; and 30 of the 45 hours must be done in graduate level courses.

Class 8 graduate students are required to begin their work in the fall term.

Class 6 (Bachelor of Architecture). The Class 6 program provides students with coursework leading to the first professional degree, the Bachelor of Architecture degree. Because Class 6 students must complete the normal hours of Interconnection, Design, and Subject work (124 credit hours total) required by that degree, the program is longer and less flexible than the Class 8 program. In some cases, transfer credit may be given for other coursework or special experience in the architectural field.

Also, the following substitutions may be made in the requirements for the Bachelor of Architecture degree. (Substitutions apply to work done after students have initiated programs on Class 6 status at the University of Oregon.)

(a) In lieu of 9 hours Interconnection credit, Class 6 students may substitute other appropriate coursework.

(b) Class 6 students may substitute other appropriate coursework for up to 5 of the required 45 hours of Design credit.

(c) Class 6 students may substitute other appropriate coursework for up to 15 of the required 70 hours of Subject credit.

(d) Class 6 students with special study interests may become eligible to transfer into the Class 8 program.

Class 6 graduate students are required to begin their work in the fall term.

Class 3 (Conditional Master of Architecture). Except for the unusual circumstances surrounding admission and the conditional status for the first year of study, students in this program of study would normally continue in a pattern identical to that of Class 8 students.

Class 3 graduate students are required to begin their work in the fall term.

Deadlines for Applications. Applications should be received by February 15. Notice of decisions on applications will be mailed on April 1.

Applications from Students who are Members of Minority Groups. In keeping with general University of Oregon policy, applications from minority-group students are encouraged.

Architecture

Interconnection

Arch 221. Environment and Communication. 3 credit hours.

The message content of the natural and man-made environment; design decisions which affect both the supporting and enhancing functions of such communication. Open to non-majors. A no-grade course.

Arch 222. Environment and Cultural Milieu. 3 credit hours.

Human institutions and their patterns of change examined from the perspective of the environmental designer; impact of physical environment and of ideas about it on social organization and cultural evolution. Open to nonmajors. A no-grade course.

Arch 223. Environment and Life Support. 3 credit hours.

Appraisal of the life-support relationships of man, natural environments, and man-altered environments from the perspective of the environmental designer; emphasis on the built environment as a technological extension of man. Open to non-majors. A no-grade course.

Design

Arch 180. Architectural Design. 5 credit hours.

Execution of design projects and exercises intended to familiarize the student with fundamental concepts of environmental design. Students are encouraged to develop habits of problem formulation and sound bases for value judgments; the release of the student's potential creative capacities is a primary concern of the course. Cannot be repeated for credit. A no-grade course.

Arch 380. Architectural Design. 5 credit hours.

Design projects requiring comprehensive and integrative study. A wide range of project options varying in complexity and in central focus are identified each term. Individual criticism, group discussions, lectures, and seminars by visiting specialists, review of projects. Prerequisite: Arch 180. May be repeated for credit. A no-grade course.

Subject

DESIGN THEORY AND PROCEDURE

Arch 311. Design Process and Method. 3 credit hours.

Introduction to concepts of environmental design strategies and tactics. Exploration of relationships between theory and practice in traditional and emerging methods of design decision-making. Prerequisite: Arch 180. A no-grade course.

Arch 411. Research Methods. (G) 3 credit hours.

Introduction to research methodology, with special emphasis on problems in environmental research. A no-grade course.

Arch 416. Spatial Composition and Dynamics. (G) 3 credit hours.

Study of architectural space as a means by which people measure their existence and expand their awareness. Exploration of

methods for analyzing and means for generating spatial organizations with particular reference to human experience.

Arch 407. Design Criteria. 3 credit hours.

A study of experiential and other life-support design considerations prerequisite to a more humane manmade environment together with a study of the need for expanded responsiveness in the determination of design criteria. Within a framework provided by the life space of individual people, the course emphasizes contextual analysis and connections with place, diversity, cognitive risk, possession, affiliation, retreat, pattern-making, order, and poetic impact.

ARCHITECTURAL MEDIA

Arch 333. Introduction to Architectural Media. 4 credit hours any term.

Exploration of media as means of perceiving and discovering qualities and characteristics of the physical environment. Development of techniques and skills in abstracting information for communication, study, and projection. A no-grade course.

Arch 334, 335. Architectural Media. 3 credit hours each term.

Exploration and development of study media in organizing information, expressing ideas, and creating images of place and sequence. A no-grade course.

ENVIRONMENTAL CONTROL SYSTEMS

Arch 321. Introduction to Environmental Control Systems. 4 credit hours.

Studies of sound, light, heat, moisture, air motions, fluids, electricity; their natural and man-altered characteristics, their effects upon human behavior, the mechanical equipment by which they are manipulated, and their influences upon the environmental design process and product. Open to nonmajors.

Arch 322, 323. Environmental Control Systems. 3 credit hours each term.

Further studies of the subject matter presented in Arch 321, with opportunities for investigation and design of the control systems. A working knowledge of algebra, trigonometry, and general physics is necessary. Prerequisite: Arch 321.

STRUCTURAL THEORY

Arch 365. Introduction to Structures. 4 credit hours fall term.

Development of the basic understanding of the behavior of structural elements and systems; model analysis of structural phenomena; study of force systems.

Arch 366, 367. Theory of Structures I. 4 credit hours each term.

Application of mathematics and mechanics to the design of building structures of wood and steel construction. Analysis of simple elements and systems; the relationship of structural design to architectural design. Prerequisite: Arch 365; mathematics through trigonometry and physics recommended.

Arch 372, 373. Structure Systems. 3 credit hours each term.

Development of structure concepts through observation, laboratory investigation, and graphic analysis. Prerequisite: Arch 365.

Arch 465, 466, 467. Theory of Structures II. (G) 3 credit hours each term.

The theory, design, communication, and construction processes of reinforced-concrete building systems. Prestressed-concrete design principles, effects of wind and seismic forces on structures. Prerequisite: Arch 366, 367.

Arch 565, 566, 567. Theory of Structures III. 4 credit hours each term.

Advanced studies in structural-design methodology and criteria; intensive coverage of theoretical analysis; design and evaluation of structural systems. Prerequisite: Arch 465, 466, 467.

CONSTRUCTION PROCESSES

Arch 327. Building Materials. 3 credit hours.

Study of traditional, new, and experimental materials from manufacture to methods of erection; special concern for the physical properties and behavioral characteristics of the material in place, and its impact on building form. Consideration of building materials as elements in environmental context and study of implications for resource conservation. Prerequisite: Arch 180.

Arch 351. Construction Processes. 3 credit hours.

Analysis of distinctive construction procedures; techniques, materials, and management operations.

Arch 417, 418, 419. Construction Communications. 3 credit hours each term.

Examination of the information required for communication of the construction processes in building. Methods and techniques of construction, contract documents including working drawings and specifications, cost-estimating, and administration of the project.

Arch 472. Structural Planning. (G) 3 credit hours.

An introduction to structural planning, design, and comprehensive evaluation of building design through consideration of related disciplines. The study of operations-research techniques. Prerequisite: Arch 365, 366, 367.

Arch 499. Architecture Workshop. (G)

Credit hours to be arranged. Investigation through experimental construction and demonstration of full-scale mockups representing three dimensional architectural space; visual and tactical effects, light behaviors; color influences and visual perception phenomena; impact on human behavior.

Arch 506. Advanced Structural Planning. 3-5 credit hours.

This course is designed for fifth-year and graduate students who have had Arch 472, Structural Planning, and who wish to do further study and research in the following areas of interest: (1) structural systems design and analysis; (2) functional, technological, architectural and financial contexts; (3) integrated design and planning methods and applications; (4) evaluation system and method. A no-grade course.

PHYSICAL CONTEXT

Arch 341. Site Analysis. 3 credit hours.

Study of comprehensive site characteristics, including topography, soil condition, microclimate, vegetation, wildlife, and adjacent manmade systems.

Arch 406. Ecological Implications. 3 credit hours.

An attempt to understand some of the interrelationships of environment (tangible and nontangible), culture (with its concomitant technology), and consequent social organizations. This then leads to speculation concerning viable alternatives for the environmental designer. Prerequisite: Arch 221, 222, 223; recommended Bi 272 or Bi 372, or Bi 471, 472, 473.

CULTURAL CONTEXT

Arch 414. Architectural Education. (G) 3 credit hours.

Comparative study of methodologies in architectural education; examination of existing curricula and identification of

new opportunities for curricular development. A no-grade course.

Arch 429. Architectural Practice. (G) 3 credit hours.

Problems and opportunities in professional practice explored through an investigation of diverse modes of operation together with the relationships between users, clients, designers, contractors, and regulating agencies. Case studies and seminars with visiting practitioners. A no-grade course.

Arch 431, 432, 433. Settlement Patterns. (G) 3 credit hours each term.

Investigates the three-dimensional structuring for settlements and cities as human responses to physical context, cultural forces, and changing opportunities. Studies of the implications of ideal models and utopian concepts and the realization of place in the vernacular.

Arch 435. Architecture as Form. (G) 3 credit hours.

This course involves architectural analysis and comparison as tools for the architect using historical and contemporary works as examples in presentation on site and context; use, space, and the room; connection and circulation; material and form; structure and form; environmental control; light and color; and compositional qualities of balance, scale, and rhythm.

Arch 406. Man-Environment Relations. 3 credit hours.

Study of the environment as an important component of individual and social behavior, and of interactions between man, his activities, and the settings in which they occur. Examination of various ways of assessing the character of man-environment relations, and their applications to architectural design.

Arch 407. Multi-Family Housing. 3 credit hours.

Survey of multi-family housing during the post-World War II period from the point of view of the environmental designer; the ways in which social, economic, political, geographical, historical, and technological factors interact and influence both problem definition and design solutions. Prerequisite: minimum of two terms of design studio.

ELECTIVE

Arch 401. Research.

Credit hours to be arranged.

Arch 403. Thesis.

Credit hours to be arranged. Students may propose studies in Interconnection, Design, or Subject areas. Faculty approval required. A no-grade course.

Arch 405. Reading and Conference.

Credit hours to be arranged.

Arch 406. Special Problems.

Credit hours to be arranged.

Arch 407. Seminar.

Credit hours to be arranged.

Arch 501. Research.

Credit hours to be arranged. No-grade course.

Arch 503. Thesis.

Credit hours to be arranged. Open only to Master degree candidates. Faculty approval required. A no-grade course.

Arch 505. Reading and Conference.

Credit hours to be arranged.

Arch 506. Special Problems.

Credit hours to be arranged.

Arch 507. Seminar.

Credit hours to be arranged.

Interior Architecture

THE curriculum in interior architecture leading to the degree of Bachelor of Interior Architecture is a five-year program. Because of the diversity of opportunities in the profession, the program is designed to allow students and their adviser considerable flexibility in the establishment of study sequences which satisfy individual interests and needs. The flexibility of the program allows students to extend their study to the allied disciplines of architecture, landscape architecture, urban planning, art history, and fine and applied arts.

The program in interior architecture engages the student in all phases of interior planning. Emphasis is placed on problem-solving and creative development as related to the proximate environment. Individual criticism is supplemented by lectures and reviews by members of the design staff. The student works in close proximity with the students and instructors in architecture and landscape design. The program includes field trips to acquaint the students with outstanding examples of current professional work in interior architecture. Opportunities are provided for collaboration on design problems with students in other fields in the arts. Students transferring from other institutions are encouraged to submit a portfolio of their work in order to aid design course placement. It is recommended that the student participate in two annual interior-design field trips prior to graduation.

Because interest in the program exceeds the capacity of the Department, prospective students are advised to make early application. Some students may be accepted into the University but placed on a waiting list status to initiate their studies in the program. Transfer students should be advised that an accelerated program will not normally be possible. Consult the department for advice on enrollment policies.

Degree Requirements. Candidates for the Bachelor of Interior Architecture degree must satisfy the following requirements, totaling 220 credit hours:

(1) General University requirements of 48 credit hours, distributed as follows: (a) group requirements, 36 credit hours in Arts and Letters, Social Sciences, and Sciences; (b) English composition, 6 credit hours; (c) physical education, 5 credit hours; (d) health education, 1 credit hour.

(2) Major program requirements of 172 credit hours, distributed as follows: (a) Interconnections, 9 credit hours; Design Area, 60 credit hours; Subject Area, 70 credit hours; Elective Area, 33 credit hours.

(3) Specific Program Requirements. The program requires that students engage in all four of the following areas:

(a) **Interconnections**, 9 credit hours including: Environment and Communication (Arch 221), Environment and Cultural Milieu (Arch 222), Environment and Life Support (Arch 223).

(b) **Design Area**, 60 credit hours including: Architectural Design (Arch 180); Introduction to Interior Design (Arch 287); Creative Problems in Interior Design (Arch 288); five terms of Interior Design (Arch 388); Furniture Design (Arch 425); two terms of Fifth-Year Thesis (Arch 488).

Up to two terms of Arch 380 Architectural Design may be substituted for Arch 388. Furniture Design (Arch 426) may be substituted for one term of Arch 388. Enrollment in design courses is limited to one per term.

(c) **Subject Area**, a minimum of 70 credit hours. This area is divided into three groups:

Group I, courses which are required by the program: Elements of Interior Design (Arch 224); Introduction to Architectural Media Studies (Arch 333); Materials of Interior Design (Arch 330, 331, 332); Furniture and Accessories (Arch 424); Working Drawings, Interiors (Arch 462, 463); History of Interior Architecture (Arch 443, 444, 445).

Group II, 9 credit hours selected from the Art History program.

Group III, a minimum of 31 credit hours selected from the following: Interior Architecture: Specification Documents (Arch 449); Working Drawings (Arch 464); Office Practice (Arch 530). Architecture: Architectural Media (Arch 334, 335); Introduction to Environmental Control Systems (Arch 321); Environmental Control Systems (Arch 322, 323); Design Process and Method (Arch 311); Research Methods (Arch 411); Spatial Composition and Dynamics (Arch 416); Design Criteria (Arch 407); Introduction to Structures (Arch 365); Structure Systems (Arch 372, 373). Landscape Architecture: up to 6 credit hours from the Landscape Subjects program. Urban Planning: Survey of Urban Planning (UP 350). Art History: up to 9 credit hours in courses different from those used to satisfy Group II. Fine Arts: up to 15 credit hours from the various areas.

(d) **Elective Area**, 33 credit hours: students are encouraged to select a mix of departmental and general University courses throughout the five-year course of study.

The following courses may be developed and approved for credit in Interconnection, Subject, Design, or Elective areas: Research (Arch 401, 501); Reading and Conference (Arch 405, 505); Special Problems (Arch 406, 506); Seminar (Arch 407, 507).

Majors may take any graded course on either a pass-differentiated (graded) or pass-undifferentiated (ungraded) basis.

Graduate Studies

GRADUATE work, leading to the Master of Architecture degree with special emphasis in Interior Architecture, is offered. There is also a graduate program leading to the Bachelor of Interior Architecture degree for students with previous four-year A.B. or B.S. degrees.

Interior Architecture

Design

Arch 287. Introduction to Interior Design. 5 credit hours.

Introduction to the field of interior design. Relation to architecture and allied arts; laboratory study of the elements and

principles of design with emphasis on color for interiors. A no-grade course.

Arch 288. Creative Problems in Interior Design. 5 credit hours.

A series of creative problems in interior design relating to the planning processes by which interior spaces and forms are studied and executed. Prerequisite: Arch 224 and Arch 180. A no-grade course.

Arch 388. Interior Design. 1-8 credit hours any term.

A series of creative problems in interior design; intensive analysis of design; methods of problem solution; individual criticism, review of design projects; group discussion and field trips. Prerequisite: Arch 288, Arch 333. A no-grade course.

Arch 425, 426. Custom Cabinet and Furniture Design. (G) 5 credit hours each term.

Projects involving the design of custom furniture, preparation of detailed shop drawings, shop procedure. Prerequisite: Arch 424, and 15 credit hours in Arch 388 or Arch 380. Open to nonmajors with consent of instructor. A no-grade course.

Arch 488. Interior Design Terminal Project. 5 credit hours.

Student-initiated studies in interior design for the terminal project. Emphasis on comprehensive and integrative study. Two terms required. Prerequisite: 20 credit hours in Arch 388. A no-grade course.

Subject

Arch 224. Elements of Interior Design. 2 credit hours.

Introduction to the scope, aim, principles, and techniques of interior design, intended to provide a comprehensive understanding of the professional field. Open to nonmajor students with consent of instructor.

Arch 330, 331, 332. Materials of Interior Design. 3 credit hours each term.

Critical survey and study of the properties, manufacture, and application of materials used in interior design; field trips to supply sources. Open only to professional majors.

Arch 424. Furniture and Accessories. (G) 3 credit hours.

Analysis of standard lines of furniture and accessories; emphasis on design and its development, materials, methods of manufacture and distribution; furniture construction and techniques of shop drawing. Open to nonmajors with consent of instructor.

Arch 449. Specification Documents in Interior Design. (G) 1 credit hour.

Information required in preparing specification documents as related to the process of construction and furnishing of interior space. Offered alternate years.

Arch 462, 463, 464. Working Drawings in Interior Architecture. 3 credit hours each term.

Preparation of working drawings for projects in interior design. For professional majors only.

Elective

Arch 401. Research.

Credit hours to be arranged.

Arch 405. Reading and Conference.

Credit hours to be arranged.

Arch 406. Special Problems.

Credit hours to be arranged.

Arch 407. Seminar.

Credit hours to be arranged.

Arch 501. Research.

Credit hours to be arranged. No-grade course.

Arch 505. Reading and Conference.

Credit hours to be arranged.

Arch 506. Special Problems.

Credit hours to be arranged. A no-grade course.

Arch 507. Seminar.

Credit hours to be arranged.

Arch 530. Office Practice (Interior). 2 credit hours.

Office procedure for the interior designer in private practice; trade contracts, discounts, interprofessional relations; sources of materials. Offered alternate years.

Arch 588. Advanced Interior Design. 1-12 credit hours any term.

Studio-based investigations of special aspects of interior design. Prerequisite: fifth-year or graduate standing; consent of instructor. A no-grade course.

Business and Construction

BUSINESS and construction is a five-year program administered jointly by the School of Architecture and Allied Arts (AAA) and the College of Business Administration (CBA) to prepare students for professional careers in housing, construction, and related fields. Students completing the requirements of this program and the general CBA requirements receive a bachelor degree from the College of Business Administration.

The Business and Construction student must complete 225 credit hours divided equally among Liberal Arts, AAA, and CBA courses. Three options, focusing on the development, management, and materials distribution aspects of construction are provided for in the program. The urban development option prepares the students for careers as builders, developers, and real estate specialists, and as public employees to deal with builders. The construction management option emphasizes the more technical aspects of construction to qualify persons to write job specifications, to do cost-estimating, and to supervise construction with and for architects, engineers, and contractors. The materials distribution option deals with the production and marketing of products like wood, concrete, structural steel, and other building materials.

Degree Requirements. (a) Credit hours in general University courses (not AAA or CBA), a total of 75. (b) School of Architecture and Allied Arts courses, a total of 75 credit hours, as follows: architecture core, 37 credit hours; architecture option requirements, 11 credit hours, may vary; architecture electives, 27 credit hours, may vary. (c) College of Business Administration courses, a total of 75 credit hours, as follows: business core, 33 credit hours; business option requirements, 15 credit hours; business electives, 27 credit hours.

Details of specific course requirements may be obtained from either the School of Architecture and Allied Arts, Department of Architecture, or the College of Business Administration.

Landscape Architecture

Department Head, Jerome Diethelm, M.L. Arch., Associate Professor of Landscape Architecture (land-planning research and community service). B.Arch., Washington, 1962; M.L. Arch., Harvard, 1964; Reg. Architect, Reg. Landscape Architect; at Oregon since 1970.

Eugene Bressler, M. L.Arch., Visiting Assistant Professor of Landscape Architecture (site analysis, land-use planning, computer graphics). B. L.Arch., Syracuse, 1968; M. L.Arch., Harvard, 1970; at Oregon since 1971.

Fred A. Cuthbert, M.L.D., Professor Emeritus of Landscape Architecture and Urban Planning. A.B., 1926, M.L.D., 1928, Michigan; at Oregon since 1932.

Michael Donley, Ph.D., Visiting Assistant Professor of Landscape Architecture (natural environmental systems). B.A., 1964, M.A., 1966, Kent State; Ph.D., Oregon, 1971; at Oregon since 1971.

Ianto Evans, M.L.D., Visiting Assistant Professor of Landscape Architecture (cultural landscapes). M.L.D., Edinburgh, 1969; at Oregon since 1971.

John F. Gillham, M.L.A., Associate Professor of Landscape Architecture (regionalism in urbanization, urban spatial networks). B.L.A., 1962, M.L.A., Oregon, 1966; at Oregon since 1967.

William H. Havens, M.L.A., Associate Professor of Landscape Architecture (landscape analysis; park planning and design; esthetic evaluation studies). B.L.A., California, Berkeley, 1962; M.L.A., Harvard, 1965; at Oregon since 1967.

George S. Jette, B.L.A., Professor of Landscape Architecture (recreational planning and design). B.L.A., Oregon, 1940; at Oregon since 1941.

Ronald J. Lovinger, M.L.A., Associate Professor of Landscape Architecture (landscape planning analysis). B.F.A., Illinois, 1961; M.L.A., Pennsylvania, 1963; at Oregon since 1965.

Wallace M. Ruff, M.S., Professor of Landscape Architecture (research, experimentation, introduction of plants). B.S., Florida, 1934; M.S., California, 1950; at Oregon since 1952.

Lawrence L. Walker, M.L.A., Assistant Professor of Landscape Architecture (land planning and design; indigenous plant material). B.L.A., Oregon, 1964; M.L.A., Harvard, 1967; at Oregon since 1967.

Undergraduate Studies

LANDSCAPE Architecture is an environmental discipline and profession of broad scope whose central concern is the wise use of land, where land is conceived as the base of our culture and the home of life.

As a profession it includes ecologically based planning activities and the analysis of environmental impact as well as the detailed

development of land and sites of all sizes and uses. As an academic discipline, it provides a unique opportunity for personal development through environmental problem- and project-oriented study.

The program in landscape architecture emphasizes the search for physical design solutions of great beauty which are generated by a profound understanding of human need and its ecological context. At the same time the program stresses the need for a comprehensive understanding of the interdependence of the biophysical and the cultural landscape.

The curriculum in landscape architecture, leading to the degree of Bachelor of Landscape Architecture, is a five-year program which combines a general preparation in the arts and sciences with a more specialized focus on man-environment relationships. The program hopes to produce an environmentally and visually literate citizen and a graduate capable of playing a central, professional role in the evolving landscape.

Opportunities are provided for collaboration on planning and design problems with students in architecture, urban planning, geography, biology, sociology, recreation and park management, and the fine arts in recognition of the integrative and comprehensive nature of environmental planning and design.

The curriculum represents a recommended path toward the degree. It is expected to vary through advisement and to respond to the interests, goals, and previous experience of individual students. The options and departmental electives offered reflect both the need to provide a wide range of environmental subject material as well as the need to introduce the rapidly expanding spectrum of career areas within the profession. The options include: (1) ecological and resource analysis; (2) land conservation and development; (3) leisure and recreational planning and design; (4) private office professional practice; (5) public agency professional practice; (6) environmental impact assessment; (7) environmental research.

The undergraduate program attempts to provide a balanced exposure to the many and varied facets of landscape architecture with the expectation that specialization will occur at the graduate level and in the internship programs of the profession.

Four interrelated areas of study structure the undergraduate curriculum. These are:

(1) The Planning and Design Program. The planning and design program is a series of studio courses focusing on the development and communication of solutions to site and other environmental problems, especially through specific physical design proposals. It is also concerned with the physical-spatial implications of planning policies and management policies and programs. Tutorially oriented studio work is the integrative heart of the curriculum.

(2) The Subjects Program. The subjects program includes seven subject areas believed essential foundations to integrative work in the planning and design program. These include: (a) landscape architectural technology; (b) plant materials; (c) history and literature of landscape architecture; (d) interconnection and environmental awareness; (e) media and communication; (f) planning; (g) fine arts. Course work in the above areas, offered through various departments, is provided in a core and option

format which encourages the student to participate through advisement in the structuring of an educational program.

(3) The Supportive-Subjects Program. The supportive subjects program provides supplementary course work in technical, topical and research areas of the profession. It also includes courses relating to special faculty interests and course work reflecting contemporary career opportunities in landscape architecture.

(4) The Elective Program. The elective program, which includes the general requirements of the University, provides for wide personal choice in the structuring of course work in the humanities, arts, and sciences.

Students planning to major in landscape architecture may prepare themselves by undertaking beginning studies in the following areas:

(1) Visual language skills. Course work in drawing, painting, photography, cinematography, design, art history, and related subjects will be helpful in developing perceptual skills and the ability to communicate ideas graphically.

(2) Problem-solving. Course work in philosophy, mathematics, and other natural sciences will aid in the development of analytical skills.

(3) Ecological awareness. Course work in ecology, biology, botany, geology, and geography will help begin the long process of understanding the complex interrelationships and interdependencies of man and the environment.

(4) Human behavior. Course work in psychology, sociology, history, government, and related subjects, which help explain man's needs, attitudes and activities, will be useful in preparing for the eventual design of physical places.

Students planning to transfer into the department should follow the above general guidelines during their first year of study. They may expect to transfer without loss of time or credit into the second year of the B.L.A. program.

Degree requirements total 220 credit hours, distributed as follows:

(1) Planning and Design Program, 64 credit hours: Architectural Design (Arch 180) 5 credit hours; Landscape Architectural Design (LA 289) 5 credit hours; Landscape Architectural Design (LA 389) 15 credit hours; Research (LA 401, 501); Special Problems (LA 406, 506) 8 credit hours; Workshop (LA 408, 508); Practicum (LA 409); Site Planning and Design (LA 489) 10 credit hours; Land Planning and Design (LA 589) 8 credit hours; Architectural Design (Arch 380) option.

(2) Subject Program, 66 credit hours: (a) Landscape Architectural Technology, core courses, 12 credit hours: Understanding Landscapes (LA 360); Site Analysis (LA 361); Site Development I (LA 362); Site Construction I (LA 366). Optional courses include: Site Development II (LA 459); Site Construction II (LA 460); Construction Communication (LA 461); Introduction to Structures (Arch 365), (plus Arch. structure sequence). (b) Plant Materials, core courses, 18 credit hours: Plant Communities and Environments (LA 326); Plant Materials, Winter (LA 327); Plant Materials, Spring (LA 328); Landscape Maintenance I (LA 357); Plant Materials, Fall (LA 430); Planting Design Theory (LA 431). Optional courses include: The Garden (LA 432); Landscape Maintenance II (LA 358); Systematic Botany (Bi 438); Plants for Interiors (LA 483).

(c) History and Literature of Landscape Architecture, 6 credit hours: History and Literature of Landscape Architecture (ArH 453, 454).

(d) Interconnection Courses, 8 credit hours: Introduction to Landscape Architecture (LA 225). Optional courses include (choose any two): Environment and Communication (Arch 221); Environment and Cultural Milieu (Arch 222); Environment and Life Support (Arch 223).

(e) Media Courses, 7 credit hours: Introduction to Architectural Media (Arch 333). Optional Courses (choose one): Architectural Media (Arch 334); Architectural Media (Arch 335); Special Studies in Delineation (LA 401).

(f) Planning Courses, 9 credit hours (UP 350 recommended; a list of additional current offerings is maintained in the department office).

(g) Fine Arts, 6 credit hours.

(3) Supportive-Subjects Program: Reading and Conference (LA 405, 505); Seminar (LA 407, 507); Parks, Schoolgrounds, and Recreation Areas (LA 411, 412, 413); Urban Open Spaces (LA 511); Landscape Planning Analysis (LA 512); The Urban Region (LA 513); Recreation Areas and Facilities (LA 406, RPM 496); Operation and Design of Recreation Areas and Park Facilities (LA 406, RPM 497); Studies in Aerial Photographic Interpretation (LA 406, Geog 484).

Graduate Studies

THE graduate program in landscape architecture leading to the degree of Master of Landscape Architecture is intended for those students who are especially prepared to do original work in the field. This may include research in any of the numerous sub-areas of the profession, community service projects which contribute to the development of harmonious man-land relationships in the region, and pedagogical preparation for teaching at the university level. Programs combining work in two or more divisions of the school are encouraged.

The degree requirement for the M.L.A. is a minimum of 45 credit hours distributed as follows:

(1) 30 credit hours are normally taken within the department and 15 credit hours from related departments and programs.

(2) 10 of the 30 credit hours are assigned to an original graduate project.

Students entering the program from related professions or other academic areas will be required to achieve Bachelor of Landscape Architecture equivalency before undertaking graduate work.

Second bachelor degrees usually require three years of study beyond a first bachelor degree. Eligibility for graduate study beyond the B.L.A. will depend on a demonstrated capacity for original endeavor. Candidates for a second bachelor degree are considered graduate students and should follow the graduate application procedure which follows.

Applications to the graduate program should contain: (1) a completed application form and fee; (2) three letters of recommendation from persons able to provide an assessment of the applicant's strengths and potential contributions; (3) a personal statement describing pertinent background information, interests, goals and aspirations; (4) a portfolio of creative work.

Graduate Credit Courses: Parks, School Grounds and Recreation Areas, 3 credit hours each term (LA 411, 412, 413); Plant Materials, Fall (LA 430) 3-6 credit hours; Planting Design Theory (LA 431) 3-6 credit hours; The Garden (LA 432) 3-6

credit hours; Site Development II (LA 459) 3-6 credit hours; Site Construction II (LA 460) 3-6 credit hours; Construction Communication (LA 461) 3-6 credit hours; Research (LA 501); Reading and Conference (LA 505); Special Problems (LA 506); Seminar (LA 507); Workshop (LA 508); Graduate Project (LA 509); Urban Open Spaces (LA 511) 3-6 credit hours; Landscape Planning Analysis (LA 512) 4 credit hours; The Urban Region (LA 513) 3-8 credit hours; Land Planning and Design (LA 589); 3-12 credit hours.

General University regulations governing graduate admission may be found in the Graduate School section of this catalog.

LA 225. Introduction to Landscape Architecture. 2 credit hours.

For majors and nonmajors. Eclectic lectures from a wide variety of practitioners and peripheral experts, illustrating the scope of the field. Historical development of land-use philosophy to the present time; examples of current work and thought; field trips and discussions.

LA 289. Landscape Architectural Design. 3-6 credit hours.

Study of places, their use and how they evolve. Fundamental principles of environmental awareness, small scale site-planning and principles of ecology, supported with studies in abstract design and elementary graphic techniques. Discussions, talks, field trips, site investigation.

LA 326. Plant Communities and Environments, Fall. 3 credit hours.

Study and identification of plants indigenous to the Pacific Northwest: their range, distribution, succession, communities, and as environmental indicators.

LA 327. Plant Materials, Winter. 3 credit hours.

The characteristics, identification, and design uses of ornamental conifers and broadleaved evergreen trees, shrubs, and ground covers.

LA 328. Plant Materials, Spring. 3 credit hours.

The characteristics, identification, and design uses of flowering trees, shrubs, vines, and ground covers.

LA 357, 358. Landscape Maintenance. 3 credit hours.

Cultivation of landscape plant materials; maintenance problems in relation to landscape architecture.

LA 360. Understanding Landscapes. 3 credit hours.

The perception, description and explanation of landscapes as environmental sets, as bio-physical processes and as structure.

LA 361. Site Analysis. 3 credit hours.

Study of comprehensive site characteristics, including topography, soils, microclimate, vegetation, wildlife, drainage, including adjacent man-made systems; the site as process and value; analysis as a process of building understanding.

LA 362. Site Development I. 3 credit hours.

Techniques for measuring and recording sites; methods for modification of sites; grading for earth movement and drainage; site systems.

LA 366. Site Construction I. 3 credit hours.

Structural additions to sites; systems, materials, connections, and finishes.

LA 389. Landscape Architectural Design. 3-8 credit hours any term.

Elementary problems in landscape architecture; emphasis on

design as process, analysis of site and behavioral patterns, and the development and communication of design proposals.

LA 401. Research.

Credit hours to be arranged.

LA 405. Reading and Conference.

Credit hours to be arranged.

LA 406. Special Problems.

Credit hours to be arranged. Group discussion and study in depth of problems involving conflicting facts, principles, and uncertainties.

LA 407. Seminar.

Credit hours to be arranged.

LA 408. Workshop.

Credit hours to be arranged. Concentrated short-term programs of study, combining instruction normally offered through regular courses, work projects, laboratory study, discussion and solution of special problems.

LA 409. Practicum.

Credit hours to be arranged. Supervised field laboratory work; clinical or in-service educational experiences. Such experiences to involve planned programs of activities and study, with assured provisions for adequate supervision.

LA 483. Plants for Interiors. 2 credit hours.

Ornamental plants suitable for interior spaces; care and maintenance; projects in growing plants under greenhouse and other conditions. Open to nonmajors.

LA 489. Site Planning and Design. 3-10 credit hours any term.

Advanced problems in landscape architecture; emphasis on cultural determinants to site planning and design; continuing emphasis on design development and the study of natural systems and processes as indicators of carrying capacity; integration with Site Development II.

Upper-Division Courses Carrying Graduate Credit

LA 411, 412, 413. Parks, School Grounds, and Recreation Areas. (g) 3 credit hours.

Principles of landscape design, related to the location and development of land for school, park, and recreation uses. Topographical factors and construction and maintenance problems. Planned for students in recreation, urban planning, and educational administration. Lectures, reports, study trips, projects.

LA 430. Plant Materials, Fall. (G) 3-6 credit hours.

The characteristics, identification, and design uses of deciduous trees, shrubs, vines, and ground covers, with emphasis on plant composition.

LA 431. Planting Design Theory. (G) 3-6 credit hours.

Theories and approaches to planting design; space, place, composition, environmental control, symbolic meaning.

LA 432. The Garden. (G) 3-6 credit hours.

The garden as a setting for the study of planting design: form, pattern, texture, light and color; flowers, fruits, nuts and berries.

LA 459. Site Development II. (G) 3 credit hours.

Complex problems in site modification and development; road

siting and layout; irrigation and lighting systems. Integration with LA 489, Site Planning and Design.

LA 460. Site Construction II. (G) 3 credit hours.

Special problems and strategies in the construction of structural additions to sites; retaining walls, bridges, roads, pools, decks, and the like; structural calculations; integration with LA 489, Site Planning and Design.

LA 461. Construction Communication. (G) 3 credit hours.

Procedures and documents necessary to the communication of construction information; legal and management considerations; ethical concerns.

Graduate Courses

LA 501. Research.

Credit hours to be arranged. No-grade course.

LA 505. Reading and Conference.

Credit hours to be arranged.

LA 506. Special Problems.

Credit hours to be arranged.

LA 507. Seminar.

Credit hours to be arranged.

LA 508. Workshop.

Credit hours to be arranged.

LA 509. Graduate Terminal Project.

Credit hours to be arranged.

LA 511. Urban Open Spaces. 3-6 credit hours.

Location and design of public-use open spaces; emphasis on parks, waterfronts, and recreation areas. Seminar sessions, field trips, design projects.

LA 512. Landscape Planning Analysis. 4 credit hours.

Physical and ecological characteristics of the landscape; its potential uses in relation to population and urban growth factors. Lectures and seminar sessions.

LA 513. The Urban Region. 3-8 credit hours.

Theories, precedents, current projects and proposals. Seminar sessions; individual and group projects in land planning and design.

LA 589. Land Planning and Design. 3-12 credit hours any term.

Advanced planning and design problems in landscape architecture of increased cultural complexity. Land use planning, computer aided ecological analysis of land, environmental impact, urban and new community design. Integration with related planning, design and scientific disciplines.



Urban Planning

Faculty

Department Head, David C. Povey, Ph.D., Associate Professor of Urban Planning. B.S., Lewis and Clark, 1963; M.R.P., 1969, Ph.D., 1972, Cornell; at Oregon since 1973.

Ting-Li Cho, M.C.P., Associate Professor of Urban Planning (urban design and land use planning). B.Arch., Shanghai University, 1946; M.Arch., Chicago, 1951; M.C.P., Pennsylvania, 1955; at Oregon 1957-62 and since 1970.

Richard L. Ragatz, Ph.D., Associate Professor of Urban Planning (housing, community development). B.A., 1961, M.C.P., 1963, California, Berkeley; Ph.D., Cornell, 1969; at Oregon since 1969.

Special Staff

Gary Chenkin, M.A., Assistant Planning Director, City of Eugene Planning Department, with Rank of Visiting Lecturer of Urban Planning (planning administration). B.A., California, Los Angeles, 1956; M.A., Stanford University, 1959; at Oregon since 1972.

James A. Farah, M.U.P., Associate Planner, City of Eugene Planning Department, with Rank of Visiting Lecturer of Urban Planning (neighborhood planning and social change). B.A., 1970, M.U.P., 1973, Oregon; at Oregon since 1973.

Donald N. Johnson, B.A., Associate Director, Bureau of Governmental Research and Service, with the Rank of Professor (economics, housing). B.A., Reed, 1946; at Oregon since 1959.

Robert E. Keith, M.Arch., Associate Director of Urban Planning Program, Bureau of Governmental Research and Service, with Rank of Professor (planning analysis and information systems). B.S., Kansas State University, 1944; M.Arch., Oregon, 1951; at Oregon since 1963.

Leonard B. Mandelbaum, Ph.D., Assistant Professor, Department of Urban Planning, University of Washington, with Rank of Visiting Assistant Professor of Urban Planning (legal and environmental aspects of planning). B.A., Washington Square College, 1954; L.L.B., Yale Law School, 1957; Ph.D., American University, 1973.

James A. Saul, M.U.P., Associate Planner, City of Eugene Planning Department, with Rank of Visiting Lecturer of Urban Planning (plan implementation). B.A., Mt. Angel Seminary College, 1965; M.U.P., Oregon, 1971; at Oregon since 1972.

Hisashi B. Sugaya, M.U.P., Associate Planner, City of Eugene Planning Department, with Rank of Visiting Lecturer of Urban Planning (neighborhood planning). B.S., 1965, M.U.P., 1969, Oregon; at Oregon since 1972.

Sidney S. Sugaya, M.U.P., Planner, City of Eugene Senior Opportunities, with Rank of Visiting Lecturer of Urban Planning (social planning and community development). B.A., 1970, M.U.P., 1972, Oregon.

Arnold M. Westling, B.S., Planning and Public Works Consultant, Bureau of Governmental Research and Service with Rank of Professor (public facilities and comprehensive planning). B.S., Washington, 1943; at Oregon since 1947.

Graduate Teaching Fellows

Thomas A. Norris (urban planning). B.A., Clark, 1969.

Gloria J. Sandvik (urban planning). B.A., Oregon, 1972.

Stephen South (urban planning). B.A., California State College, Fullerton, 1970.

John Wagstaff (urban planning). B.Arch., California State Polytechnic College, San Luis Obispo, 1967.

Graduate Studies

THE Department of Urban Planning offers a graduate program leading to the Master of Urban Planning degree. A primary factor relating to the development of man's culture has been his anticipation of, and preparing for, the future. In this context, a contemporary profession called urban planning has evolved. In recent years, the central focus of urban planning has shifted from an emphasis on the public guidance and control of the physical form of communities to a broader concern with issues of urban and regional development such as poverty, race, decision-making, economic development, public participation, and environmental quality. Urban planning is basically concerned with the rational guidance of future community change. Planners formulate alternative solutions to community problems and assist in effecting the solutions.

Seventy-two credit hours of work in courses at the 400 and 500 level are usually required for the degree of Master of Urban Planning. Thirty-six credit hours must be taken in the Department of urban planning; the remaining 36 hours may be taken in the department or in other departments. Students are expected to enroll for six regular-session terms. A three-month, noncredit internship is recommended during the summer between the first and second years in the program, unless the student has already had equivalent experience.

The requirements for the M.U.P. degree are as follows: (1) 6 credit hours of Introduction to Urban Planning (UP 510); (2) 2 credit hours of Synthesis (UP 599); and (3) 12 credit hours of Thesis (UP 503) or Terminal Project (UP 509); (4) 16 additional credit hours in urban planning; (5) 36 credit hours of electives selected by the student and an adviser.

It is recommended that electives be chosen from the following: statistics, research methods, economics, geography, sociology, real estate, political science, public administration, architecture, and landscape architecture.

Recognizing that the field of urban planning requires extension into many areas of concern, the program offers the student an opportunity to emphasize special interests and develop professional capacities. Students may choose to pursue a generalized program and develop competence as a general practitioner in urban and regional land-use planning and implementation. Or they may choose to develop a specialty by focusing on some specific area in the planning process. The program attempts to provide some structure for the student's education, but at the same time, allow

a high degree of flexibility in regard to personal goals and interests. Regardless of the selected emphasis, the student should be prepared to become involved in the basic issues of our society and to become committed to a professional career through that involvement.

Applicants must have received a bachelor degree or its equivalent from a recognized college or university. The department makes no restriction as to undergraduate background.

UP 350. Survey of Urban Planning. 3 credit hours.

A concise survey of urban planning for students seeking an introduction to the field. Review of the origins and evolution of urban planning and the development of methodologies utilized in solving the social, economic, governmental, and environmental problems accompanying urbanization. Consideration of perspectives and performances of the urban-planning profession and a critical appraisal of the role of the urban planner. Ragatz.

UP 401. Research.

Credit hours to be arranged. A no-grade course.

UP 405. Reading and Conference.

Credit hours to be arranged. A no-grade course.

UP 407. Seminar.

Credit hours to be arranged.

Graduate Courses

UP 501. Research.

Credit hours to be arranged. A no-grade course.

UP 503. Thesis.

Credit hours to be arranged. A no-grade course.

UP 505. Reading and Conference.

Credit hours to be arranged.

UP 507. Seminar.

Credit hours to be arranged.

Soils and Land Use Planning. Dietz.

Public Facilities Planning. Westling.

UP 508. Community Planning Workshop. 2-6 credit hours any term.

Intended to provide the student with experience in working with local government, planning agencies, or citizens' groups on plans, programs, or issues related to urban planning. Students perform planning studies for a particular organization under faculty supervision. Work may be performed on either a team or individual basis. May be repeated for a maximum of three terms. Consent of instructor required.

UP 509. Terminal Project.

Credit hours to be arranged. A no-grade course.

UP 510. Introduction to Urban Planning. 6 credit hours.

Broad overview of major fundamentals involved in the urban-planning profession which relates the need for planned change to the concept of urbanization and its explanation, extent, and resulting forms. Integrated analysis of concepts and functions of the planning process as they relate to the social, economic, political, and environmental parameters of the community. Designed to provide students a perspective for defining academic and professional goals in urban planning. Seminars and field trips. Open only to majors.

UP 515. Planning Theory. 3 credit hours.

Examination of the fundamental bases and logic of the planning process and its basic terms and concepts; review of the major contributions to urban planning's search for a theory; the relationship of planning to the political process and rational decision making; the place of the ideal community in planning theory. Open only to majors, or with consent of instructor. Johnson.

UP 521. Planning Administration. 3 credit hours.

Study of the urban-planning function in local government; organization and activities of local, metropolitan, regional, and state planning agencies; current trends in the planning process as they affect local planning administration. Open only to majors, or with consent of instructor. Chenkin.

UP 522. The Community General Plan. 3 credit hours.

Study of the community general plan; its uses, content, adoption procedure, relation to plan implementation, and place in the urban-planning process. Prerequisite: UP 521, or consent of instructor.

UP 523. Plan Implementation. 3 credit hours.

Study of methods used in implementing the plans of local, regional, and metropolitan planning agencies. Emphasis is placed on ordinances, policies, and programs related to land use. Prerequisite: UP 521, UP 522, or consent of instructor. Saul and Sugaya.

UP 530. Planning Analysis I. 3 credit hours.

Introduction to theoretical bases and applications of research methods and techniques used in the planning process. Exploration of the nature and relevance of the scientific method for urban planning; discussion of the treatment, organization and validity of data used by planners; relationship of quantitative analysis to planning standards and measures, long-range inference, and policy formation. Open only to majors, or with consent of instructor. Keith.

UP 531. Planning Analysis II. 3 credit hours.

Advanced course in research methods and techniques used in urban planning. Collecting, analyzing, forecasting, and application of population, employment, economic base, land use, and transportation information. Discussion of budget, time, uncertainty of data, and other limitations imposed upon research activity. The use of computers and models in planning. Prerequisite: UP 530, or consent of instructor. Keith.

UP 540. Land-Use Planning I. 3 credit hours.

Introduction to land-use planning activities in urbanized areas. Explores traditional and contemporary concepts relating to the functions, distribution, and relationships of various land uses, including residential, commercial, industrial, recreational, transportation, and public facilities. Examples of plans for specific areas such as central business districts and urban renewal projects are discussed. Analysis of the new town concept. Seminars and studio assignments. Open only to majors, or with consent of instructor. Cho.

UP 541. Land-Use Planning II. 3 credit hours.

Advanced application of principles and concepts of physical planning and design problems. Evaluation of the social, economic, fiscal, and physical consequences of alternative land use development patterns. Investigation of the sources of basic information for physical design, the formulation of a physical design program, the preparation of solutions to problems and presentation techniques. Seminars and studio assignments. Prerequisite: UP 540, or consent of instructor. Cho.

UP 545. Urban Design. 2 credit hours.

Advanced discussion of the role of urban design in the planning process. Investigation of historical and contemporary thought on the visual aspects of cities, including evaluation of technological and cultural influences on urban design, perception of urban form, and aesthetic qualities of physical environments. Current urban-design theories and examples of successful innovations. Methods of effecting urban design through public policy decisions. Open only to majors, or with consent of instructor. Cho.

UP 550. Social Issues in Planning. 3 credit hours.

Intended to sensitize the student to the theory and workings of the societal context in which planners operate. Review of modes of citizen participation in public decision-making, advocacy planning, and participatory democracy in terms of the community planning and development processes. Examination of techniques and methods for planning social services. Open only to majors, or with consent of instructor. Ragatz.

UP 555. Housing and Urban Renewal. 3 credit hours.

Survey of American housing, and its formative processes as

they relate particularly to community welfare. The relationship of housing to urbanism and planning; the functioning of housing markets and the house-building industry; housing controls; use of various methods and programs for improving housing in the community. Open only to majors, or with consent of instructor. Ragatz.

UP 560. Environmental Issues in Planning. 3 credit hours.

A study of the natural and manmade environment with which the urban planner should be concerned. Emphasis on environmental problems and the planner's role in the search for their solution. Seminars and field study. Open only to majors or with consent of instructor.

UP 599. Synthesis. 2 credit hours.

Integrates various perspectives and backgrounds developed by urban planning students during their graduate education. Assists the student to develop a personal philosophy applicable to a future role in urban planning; also intended to provide a basis for defining and outlining further research to be conducted prior to graduation. Open only to majors.



Art Education

Department Head, Vincent Lanier, Ed.D., Professor of Art Education and Education (newer media; educational theory, art criticism). B.A., 1947, M.A., 1948, Ed.D., 1954, New York University; at Oregon since 1966.

Thomas O. Ballinger, M.A., Professor of Art (cross-cultural art; Nepalese art and architecture; African art). B.A., 1949, M.A., 1951, New Mexico; at Oregon since 1952. (On sabbatical leave winter term 1973-74.)

Jack W. Burgner, M.F.A., Professor of Art (elementary school art, art education). B.S., Eastern Illinois, 1948; M.F.A., Colorado State College, 1949; at Oregon since 1954.

Jane Gehring, M.S., Associate Professor of Art (methods and curriculum; textiles). B.S., Michigan State Teachers, 1940; M.S., Oregon, 1960; at Oregon since 1958. (On leave of absence, fall term 1973-74.)

Gordon L. Kensler, Ed.D., Professor of Art Education; Associate Professor of Education; Research Associate, Institute for Community Art Studies (curriculum; research; community art). B.F.A., 1949, M.F.A., 1951, Art Institute of Chicago; Ed.D., Stanford, 1964; at Oregon since 1966.

June K. McFee, Ed.D., Professor of Art Education and Education; Director, Institute for Community Art Studies (psychological-social foundations; environmental design). B.A., Washington, 1939; M.Ed., Central Washington, 1954; Ed.D., Stanford, 1957; at Oregon since 1965.

Richard Paulin, M.A., Director, Museum of Art, Assistant Professor of Art Education (museum training; art criticism; contemporary art). A.B., DePauw, 1951; M.A., Denver, 1958; at Oregon since 1967.

Graduate Teaching Fellows

Gregory Hawkins (art education). B.F.A., University of Puget Sound, 1962; M.A., Central Washington, 1967; M.S., Oregon, 1972.

William E. Thompson (art education). B.A., University of California, Santa Barbara, 1966; M.S., Oregon, 1972.

Mary E. White (art education). B.A., Hollins College, Virginia, 1946; M.A., New Mexico, 1951.

Undergraduate Studies

THE curriculum in art education leads to the Bachelor of Arts or Bachelor of Science degree, and fulfills provisional certification requirements for the teaching of art in the state of Oregon. (A fifth year of preparation is required for permanent teacher certification in Oregon. Students working toward the completion of fifth-year requirements are advised individually in regard to the selection of courses.) The program is expressly designed to pre-

pare students for teaching art in junior and senior high schools, as well as to provide a background for the supervision of art in the elementary school program. The following lower-division courses are required as preparation for a major in art education: Basic Design (Art 295) 3 credit hours; Composition and Visual Theory (Art 392) 3 credit hours; History of Western Art (ArH 204, 205, 206) or History of Oriental Art (ArH 207, 208, 209) 9 credit hours; Human Development and Learning (EPsy 326 or equivalent) 5 credit hours; Social Science, 9 credit hours in either anthropology or psychology or both; 24 to 30 credit hours in art electives (studio): must include 4 to 6 hours in each of the areas of drawing and painting, sculpture, ceramics, jewelry or weaving.

The following upper-division courses are necessary to complete requirements for a baccalaureate degree in art education: Introduction to Art Education (ArE 324) 3 credit hours; Methods and Curriculum in Secondary School Art (ArE 326) 4 credit hours; Seminar: Student Teaching (ArE 407) 1 credit hour; Practicum: Secondary School Art (ArE 409) 3 credit hours; Newer Media in Art Education (ArE 495) 3 credit hours; 9 credit hours of electives in History of Art; Reading and Writing Secondary School (CI 469) 3 credit hours; education courses required by the Oregon State Department of Education for certification: Student Teaching JHS (CI 416) or Student Teaching SHS (CI 417) 10 to 15 credit hours.

Graduate Studies

ART education offers the advanced degrees of Master of Arts and Master of Science in Art Education. Admission to either degree program in the Department of Art Education is determined by a selection committee of departmental faculty. Transcripts, teaching experience, and evidence of scholarship are considered. A portfolio of art work may be requested.

University Requirements. Of the 45 minimum credit hours of required coursework for the master of science or master of arts degree in art education, 30 credit hours must be taken in residence. A total of 30 credit hours must be taken in the School of Architecture and Allied Arts; 21 of these credit hours must be completed in the major field of art education. The remaining 9 hours may be taken in any department in the School.

The master of arts degree requires competence in one foreign language.

All work for the master of science or master of arts degree must be completed within a period of seven years.

Departmental Requirements. Candidates working for either one of the above degrees must plan to attend the University during three terms of the academic year. Summer Session work may apply toward the total credit hours required for the degree, however.

A terminal project chairman, from the faculty of the Art Education department, will be selected prior to the second term of the candidate's program. The chairman will serve as the student's adviser leading toward the completion of the terminal project.

The terminal project (ArE 506 Special Problems: Terminal Project, 3 credit hours) must be presented during the final term of the candidate's residence; that is, either fall, winter, or spring terms.

A maximum number of 6 credit hours of graduate credit in courses numbered 501 or 505 may be taken in addition to the required Special Problems: Terminal Project (ArE 506) 3 credit hours.

Doctoral Program in Art Education. The Doctor of Philosophy and Doctor of Education degrees in Art Education are three-year post-baccalaureate programs for experienced teachers. The Art Education doctoral degree program is administered by the Art Education department in the School of Architecture and Allied Arts, and granted by the Department of Curriculum and Instruction in the College of Education.

A cohesive program that relates to the student's professional goals is developed with an adviser and a doctoral committee.

All students must meet the Graduate School and College of Education requirements for the Ph.D. or D.Ed. degrees for admission, advancement to candidacy, and dissertation. Required course work in the areas of Educational Foundations, Statistics and Research Methodology is specified by the Department of Curriculum and Instruction in the College of Education.

Art 321, 322. Art in the Elementary School. 2 credit hours each term.

First term: introduction to the visual arts through laboratory experiences; design, drawing, painting, and other two-dimensional activities with materials appropriate for the primary and intermediate-school child; lectures, group discussions, evaluations, studio work. Second term: continuation of art experiences for the elementary-school child, with emphasis on three-dimensional form. A no-grade course. Burgner and staff.

ArE 323. Art in the Elementary School. 3 credit hours.

Critical examination of individual and group activities currently offered in the elementary-school art program; lectures, curriculum design, evaluation of process and techniques; literature in the field. Satisfies the Oregon Board of Education methods-course requirements. Consent of instructor is required. Prerequisite: Art 321, 322 or both. Burgner and staff.

ArE 324. Introduction to Art Education. 3 credit hours.

A lecture-laboratory course designed to investigate new thinking in the use of art materials and ideas in secondary-school art programs. An initial inquiry into the psychological and sociological implications of contemporary education in art. Required of all art education majors. Ballinger, Gehring.

ArE 325. Children's Art Laboratory. 3 credit hours.

Work with children in a supervised art laboratory; designed for students preparing for teaching art at both the elementary and secondary levels. The Children's Art Laboratory may be used as a substitute for ArE 409 Practicum.

ArE 326. Methods and Curriculum in Secondary-School Art. 4 credit hours.

Special Methods and Curriculum design in the teaching of art in Secondary Education. Examination of teaching methodology and theory relative to public school philosophy. Required of all art-education majors. Meets state certification requirements. Consent of instructor is required. Prerequisite: ArE 324. Gehring, Kensler.

ArE 401. Research.

Credit hours to be arranged.

ArE 405. Reading and Conference.

Credit hours to be arranged.

ArE 406. Special Problems.

Credit hours to be arranged.

ArE 407. Seminar.

Credit hours to be arranged.

Teaching Strategies: African Art. Ballinger.

Art in Society. McFee, Kensler.

ArE 407. Seminar: Student Teaching. 1 credit hour.

Gehring.

CI 416. Student Teaching JHS. 10-15 credit hours any term.

Student teaching in the public schools. Arrangements are made to provide the student with teaching experiences in local school districts and in other school districts throughout the state of Oregon. Permission for student teaching assignments must be obtained from the Department of Art Education. Gehring, Lanier.

CI 417. Student Teaching SHS. 10-15 credit hours any term.

For description, see CI 416.

Upper-Division Courses Carrying Graduate Credit

ArE 409. Practicum: School Art. (G)

Credit hours to be arranged. Field experience for the prospective art teacher; opportunity to formulate personal and professional objectives based upon field observations and opportunities. Required for all art education majors. Meets state certification requirements. Kensler.

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

Study of significant literature and research in the field; laboratory investigation of materials, ideas, and methods currently used in elementary schools. Satisfies state certification requirement for an elementary art-methods course. Consent of instructor is required. Prerequisite: Art 321 or Art 322 or both, or elementary classroom teaching experience. Burgner.

ArE 414. Current Problems in Art Education. (G) 3 credit hours.

The examination of research and current problems as these relate to contemporary thought in the field of art education. Consent of instructor is required. Prerequisite: ArE 409. Lanier.

ArE 415. The Role of Art Criticism in Art Education. (G) 3 credit hours.

Theory and practice of art criticism; development of ability to make a critical analysis of student work. Lanier, Paulin.

ArE 430. Art in Special Education: The Mentally Retarded Child. (G) 3 credit hours.

A theoretical examination of art experiences as a contributing factor in the learning process of the child diagnosed as mentally retarded. Some laboratory activity with appropriate art materials. Ballinger.

ArE 492. Teaching Art History in Secondary School. (G) 3 credit hours.

Elective one-term course for seniors and graduate students in

art education. Critical examination of problems involved in the teaching of art history in the general art program in junior and senior high schools. Investigation of traditional teaching methodology of art history as opposed to alternate possibilities. Techniques of offering content and subject material through exploratory inquiry and the use of a variety of visual media. Consent of instructor is required. Prerequisite: 9 credit hours of art history. Ballinger.

ArE 495. Newer Media in Art Education. (G) 3 credit hours.

An investigation of the implications of new technologies, teaching strategies, concepts, and communication media for the teaching of art. Required for all art-education majors. Meets state certification requirements. Lanier.

Graduate Courses

ArE 501. Research.

Credit hours to be arranged. A no-grade course.

ArE 503. Thesis.

Credit hours to be arranged. A no-grade course.

ArE 505. Reading and Conference.

Credit hours to be arranged.

ArE 506. Special Problems.

Credit hours to be arranged.

ArE 507. Seminar.

Credit hours to be arranged.

Art in Society. McFee.

Comparative Art Education. Gehring.

Behavioral Objectives. Kensler.

Teaching Strategies: African Art. Ballinger.

Issues in Art Education. Lanier, McFee, Kensler.

ArE 512. Research Methodology in Art Education. 3 credit hours.

Study of the fundamental methodologies of scientific inquiry

with attention to their application to research in art education. The scientific bases of research; classifications of research; methodologies used in descriptive, analytical, and experimental research. Development of research proposals and critique research reports. Kensler.

ArE 532. Supervision of Children's Art Laboratory. 3 credit hours.

Designed to provide an opportunity for work with children in a planned laboratory situation; responsibility for program design and supervision of children's art activities. Consent of instructor is required. Prerequisite: teaching experience. Burgner.

ArE 535. Art and Architecture for the School Administrator. 3 credit hours.

Problems of the school administrator in the field of art programming; architectural principles in relation to school-plant design. Lectures and studio-laboratory demonstration.

ArE 545. Foundations of Art Education. 3 credit hours.

Review and analysis of social and behavioral aspects of individual and group differences in the production of art and learning about art as a basis for education in the visual arts. McFee.

ArE 566. Curriculum Development in Art Education. 3 credit hours.

Curriculum development in the visual arts in terms of individual and subcultural differences between students. Consent of instructor is required. Prerequisite: ArE 545, or equivalent. McFee.

Summer Session

The Department of Art Education also offers an annual summer school program designed for returning elementary and secondary teachers. It is complimentary to academic year offerings for the regular undergraduate and graduate student completing work for a degree. Special course offerings and visiting faculty enrich the summer session opportunity.

Art History

Faculty

Department Head, Marion Dean Ross, M.Arch., Reg. Archt., Professor of Architecture; Historian of Architecture (history of architecture, Latin American art). B.S., Pennsylvania State, 1935; M.Arch., Harvard, 1937; Reg. Archt., State of Louisiana, 1946; at Oregon since 1947.

Wallace S. Baldinger, Ph.D., Professor Emeritus of Art, Director Emeritus, Museum of Art (Oriental, modern art). B.A., 1928, M.A., 1932, Oberlin; Ph.D., Chicago, 1938; at Oregon since 1944. Retired, December 1972.

Marian C. Donnelly, Ph.D., Professor of Art History (history of architecture, Scandinavian art). B.A., 1946, A.M., 1948, Oberlin; Ph.D., Yale, 1956; at Oregon since 1966. On leave of absence fall term, 1972.

J. Edward Kidder, Jr., Ph.D., Visiting Maude I. Kerns Professor of Oriental Art (Japanese art). B.A., Maryville College, Tenn., 1943; A.M., 1949, Ph.D., 1955, New York University; at Oregon winter term 1973.

Patricia A. Lawrence, Ph.D., Associate Professor of Art History (classical art and archeology). B.A., 1956, M.A., 1957, Ph.D., 1962, California; at Oregon since 1962. Resigned, June 1973.

Esther J. Leong, Ph.D., Associate Professor of Art History (Asian art). B.A., 1962, M.A., 1964, Ph.D., 1970, Chicago; at Oregon since 1966.

A. Dean McKenzie, Ph.D., Associate Professor of Art History (medieval art, Russian art). B.A., San Jose State, 1952; M.A., California, 1955; Ph.D., New York University, 1965; at Oregon since 1966. On sabbatical leave, 1972-73.

Judith Berg Sobré, Ph.D., Assistant Professor of Art History (Renaissance art, Spanish art). B.A., New York University, 1962; M.A., 1964, Ph.D., 1969, Harvard; at Oregon since 1968.

George Stričević, Ph.D., Visiting Lecturer of Art History (Eastern medieval art). B.A., Belgrade, 1951; Ph.D., Serbian Academy of Sciences and Fine Arts, 1956; at Oregon 1972-73.

Graduate Teaching Fellows

Robert Turner Dean, B.A., Gettysburg College, 1967.

Sue Jean Harper, B.A., San Francisco State, 1968.

Judith A. Perkins, B.A., Oregon, 1971.

Elizabeth Simpson, B.A., Oregon, 1969.

The program in art history provides: (1) instruction in this basic aspect of human culture for all University students (all courses in art history are open to nonmajors); (2) the historic background in art and architecture needed in the several major curricula of the School of Architecture and Allied Arts; (3) a major curriculum in the history of art; and (4) graduate studies leading to the M.A. and Ph.D. degrees.

Undergraduate Studies

THE art-history major combines historical study with the opportunity for studio practice. The program for majors is designed to provide a broad perspective for the understanding of the art of the past and present, and a basis for critical judgment of individual works of art. The following lower-division courses are required as preparation for a major: studio courses (drawing, painting, sculpture or applied design) 6 credit hours; History of Western Art (ArH 204, 205, 206) or Survey of Visual Arts (ArH 201, 202, 203) 9 credit hours; one term of History of Oriental Art (either ArH 207, 208, or 209) 3 credit hours; Two years of French or German, 24 credit hours.

The upper-division major program in art history, leading to the degree of Bachelor of Arts, includes the following required courses (Third Year): History of art (selected) 18 credit hours; Language or literature, 9 credit hours; Electives (recommended: philosophy, history, anthropology, literature) 18 credit hours.

(Fourth Year): History of art (selected) 18 credit hours; Language or literature, 9 credit hours; Electives (recommended: philosophy, history, anthropology, literature, music, speech, art studio courses) 18 credit hours.

The major requirement of 36 upper-division hours in art history must include a year's sequence of 9 credit hours in at least two of the following areas: ancient, medieval, or Renaissance art.

Subject to the general University requirements for graded courses, a student not majoring in art history may elect to take any course offered by the department under the pass-undifferentiated (ungraded) option. A student with a major in art history must take the required 36 credit hours of upper-division work on a pass-differentiated (graded) basis.

Students expecting to transfer to the program in art history from two-year colleges should plan to include in their program the History of Western Art, ArH 204, 205, 206, or its equivalent, and two years of French or German. They should also complete as many of the University requirements in the group areas as possible.

In addition to providing a broadly based liberal education, the program in the history of art leads to opportunities for teaching, working in art museums and in art galleries, and art publishing.

Graduate Studies

THE University of Oregon offers programs leading to the Master of Arts and the Doctor of Philosophy degrees in the History of Art in the fields of Classical, Medieval, Renaissance, Modern, Oriental, and American art. Within these general fields, particular areas may be selected for study. Some of the advanced lecture courses are offered in alternate years only. A graduate course in Museology is offered, using the facilities of the University Museum of Art.

For a **Master of Arts**, an undergraduate major in art history or its equivalent is ordinarily prerequisite to graduate work in the department. A written qualifying examination is required before not more than 15 credit hours of graduate study are completed. A reading knowledge of French or German, demonstrated in a written examination, is required. The ability to read both French and German is highly desirable. The student must present a program of study for approval by the department, including at least three graduate research seminars. A written thesis is required, for which a maximum of 9 credit hours is allowed. An oral examination will be given on the thesis.

For the **Doctor of Philosophy**, in addition to the general University requirements for the degree, the following should be noted. The qualifying examination for admission to the program may be waived only for students who have taken their M.A. in this department with a superior record. The student must have passed written examinations in both French and German by the end of the first year; demonstration of competence in other necessary languages may be required. The comprehensive examination includes three areas in art history: (1) two adjacent areas of which one is that in which the dissertation will be written, and (2) a third unrelated area. These areas are selected from an established list. The comprehensive examination should be taken before the completion of 45 credit hours beyond the M.A.

Applications for admission to the graduate program for the academic year 1974-75 must be received by 1 March 1974.

ArH 201, 202, 203. Survey of the Visual Arts. 3 credit hours each term.

Cultivation of understanding and intelligent enjoyment of the visual arts through a study of historical and contemporary works; consideration of motives, media, and forms.

ArH 204, 205, 206. History of Western Art. 3 credit hours each term.

Historical survey of the visual arts from prehistoric to modern times. Selected works of painting, sculpture, architecture, and other arts are studied in relation to the cultures producing them. Donnelly, Lawrence, McKenzie, Sobré, Stričević.

ArH 207, 208, 209. History of Oriental Art. 3 credit hours each term.

Historical survey of the visual arts of India, China, and Japan, from prehistoric to modern times; selected works of painting, sculpture, architecture, and other arts studied in relation to the culture in which they were produced. Leong.

ArH 401. Research.

Credit hours to be arranged.

ArH 405. Reading and Conference.

Credit hours to be arranged.

ArH 407. Seminar.

Credit hours to be arranged.

ArH 447, 448. History of Landscape Architecture. 3 credit hours each term.

History of gardens and public open spaces. First term: development of the formal garden from the end of the Middle Ages to the eighteenth century; Second term: the landscape garden since the eighteenth century, Oriental and modern garden design. Offered in alternate years. Ross.

ArH 451, 452, 453. History of Interior Architecture. 2 credit hours each term.

History of interior architecture, including the study of contemporary furniture, textiles, rugs, etc., as an art expression. Hawn.

Upper-Division Courses Carrying Graduate Credit

ArH 407. Seminar. (G)

Credit hours to be arranged.

ArH 411, 412, 413. Ancient Mediterranean Art. (G) 3 credit hours each term.

Fall: The Bronze Age in the Aegean; winter: Greek, Etruscan, and Near-Eastern art to c. 625 B.C.; spring: Greek and Etruscan art, c. 625-c. 480 B.C. Prerequisite: ArH 204, or consent of instructor. Offered in alternate years with ArH 414, 415, 416. Lawrence.

ArH 414, 415, 416. Greek and Roman Art. (G) 3 credit hours each term.

Fall: Classical Greek and Etruscan art, c. 480-c. 375 B.C.; winter: Hellenistic Greek and Etruscan art, republican Roman art; spring: imperial Roman art, to Constantine the Great. Prerequisite: ArH 204, or consent of instructor. Offered in alternate years with ArH 411, 412, 413. Lawrence.

ArH 421, 422, 423. Eastern Medieval Art. (G) 3 credit hours each term.

Fall: Early Christian and Byzantine art from the second century to 726; winter: later Byzantine art, 843-1453; spring: medieval Russian art. Prerequisite: ArH 205, or consent of instructor. Offered in alternate years with ArH 424, 425, 426. McKenzie, Stričević.

ArH 424, 425, 426. Western Medieval Art. (G) 3 credit hours each term.

Fall: early medieval art in Western Europe to the eleventh century; winter: Romanesque art; spring: Gothic art. Prerequisite: ArH 205, or consent of instructor. Offered in alternate years with ArH 421, 422, 423. McKenzie.

ArH 431, 432, 433. Renaissance Art. (G) 3 credit hours each term.

Origin and development of Renaissance art in Italy in the fifteenth and sixteenth centuries. Prerequisite: ArH 205, 206, or consent of instructor. Offered in alternate years with ArH 434, 435, 436. Sobré.

ArH 434, 435, 436. Northern European Art 1400-1600. (G) 3 credit hours each term.

Painting, sculpture, and graphic arts in the Netherlands, France, and Germany. Prerequisite: ArH 205, 206, or consent of instructor. Sobré.

ArH 441. Ancient Architecture. (G) 3 credit hours.

Architecture in the Mediterranean and Near East before the Christian era. Prerequisite: ArH 204, or consent of instructor. Lawrence.

ArH 442. Early Medieval Architecture. (G) 3 credit hours.

Architecture from Imperial Rome to the Romanesque. Prerequisite: ArH 205, or consent of instructor. Donnelly.

ArH 443. Gothic Architecture. (G) 3 credit hours.

Architecture in Western Europe from c. 1130 to c. 1500. Prerequisite: ArH 205, or consent of instructor. Ross.

ArH 444. Renaissance and Baroque Architecture. (G) 3 credit hours.

Architecture in Italy and Western Europe from 1400 to the eighteenth century. Prerequisite: ArH 206, or consent of instructor. Ross.

ArH 445. Nineteenth Century Architecture. (G) 3 credit hours.

Architecture from the Industrial Revolution to c. 1890. Prerequisite: ArH 206, or consent of instructor. Ross.

ArH 446. Twentieth Century Architecture. (G) 3 credit hours.

Architecture from the *Art Nouveau* to the present. Prerequisite: ArH 206, or consent of instructor. Ross.

ArH 454, 455, 456. Art in Latin America. (G) 3 credit hours each term.

Fall: pre-Columbian art in the Mexican, Mayan, and Andean regions; winter: art in the Spanish and Portuguese colonies; spring: nineteenth- and twentieth-century art. Offered in alternate years. Ross.

ArH 457, 458, 459. Scandinavian Art. (G) 3 credit hours each term.

Prehistoric art in Scandinavia from the Paleolithic through the Viking eras. Medieval art in Denmark, Norway, Sweden, and Finland. Renaissance and modern art in the Scandinavian countries with special emphasis on folk art and industrial design. Donnelly.

ArH 460. Russian Art. (G) 3 credit hours.

Russian art and architecture from the end of the Middle Ages to the twentieth century. McKenzie.

ArH 464, 465, 466. Chinese Art. (G) 3 credit hours each term.

Origin and development of the major Chinese arts, including bronzes, sculpture, painting, and architecture, from the Shang through the Ch'ing dynasties. Prerequisite: ArH 208, or consent of instructor. Leong.

ArH 467, 468, 469. Japanese Art. (G) 3 credit hours each term.

Epochs of art in Japan, including architecture, landscape design, sculpture, and painting, from prehistoric times to the present. Prerequisite: ArH 209, or consent of instructor. Kidder.

ArH 471, 472, 473. American Architecture. (G) 3 credit hours each term.

History of architecture in the United States from the Colonial era to the present. Students wishing to devote additional time

to the Pacific Northwest or other special regions may enroll also under ArH 401. Donnelly, Ross.

ArH 477, 478, 479. Modern Art. (G) 3 credit hours each term.

Art in the nineteenth and twentieth centuries. Prerequisite: ArH 206, or consent of instructor. Baldinger, Ross.

Graduate Courses

ArH 501. Research.

Credit hours to be arranged. A no-grade course.

ArH 503. Thesis.

Credit hours to be arranged. A no-grade course.

ArH 505. Reading and Conference.

Credit hours to be arranged.

ArH 507. Seminar.

Credit hours to be arranged.

Ancient Near Eastern Art. Lawrence.

Aegean Bronze Age Art. Lawrence.

Greek Art. Lawrence.

Roman Art. Lawrence.

Early Medieval Art. McKenzie.

Gothic Painting. McKenzie.

Early Russian Painting. McKenzie.

Medieval Serbian Painting. McKenzie.

Fifteenth Century Art. Sobré.

Spanish Art. Sobré.

Chinese Art. Leong.

Japanese Art. Kidder.

Central Asian Art. Leong.

Himalayan Art. Ballinger.

American Architecture. Donnelly, Ross.

Islamic Architecture. Ross.

Prints and Drawings.

History of Film and Photography.

ArH 511, 512, 513. The Art Museum. 3 credit hours each term.

Theories and techniques in the operation of art museums. Paulin.

ArH 514. Bibliography and Methods. 3 credit hours.

Introduction to the bibliography and methodology of art history. Required of entering graduate students in art history. Sobré.

Fine and Applied Arts

Faculty

Department Head, Robert C. James, M.F.A., Professor of Art (ceramics). A.B., California at Los Angeles, 1952; M.F.A., Cranbrook Academy, 1955; at Oregon since 1955.

Ralph B. Baker, M.F.A., Associate Professor of Art (painting, drawing). B.A., 1956, M.F.A., 1964, Washington; at Oregon since 1970.

Paul E. Buckner, M.F.A., Professor of Sculpture (the human and organic form). B.A., Washington, 1959; M.F.A., Claremont, 1961; at Oregon since 1962.

Thomas Cappuccio, M.A., Assistant Professor of Art (painting, drawing, design). B.F.A., Pratt Institute, 1965; M.A., Brooklyn College, 1968; at Oregon since 1970.

David G. Foster, M.F.A., Professor of Art (graphic design). B.A., Institute of Design, Illinois Institute of Technology, 1951; M.F.A., Oregon, 1957; at Oregon since 1957.

Edward A. Gordon, M.F.A., Visiting Lecturer in Art (sculpture, photography, film-making). DFA (BFA), Glasgow School of Art, 1970; M.F.A., Art Institute of Chicago, 1972; at Oregon since 1972.

Alan Haemer, M.F.A., Visiting Lecturer in Art (painting). B.F.A., Syracuse University, 1931; M.F.A., Oregon, 1971; at Oregon since 1971.

LaVerne Krause, B.S., Professor of Art (printmaking, painting). B.S., Oregon, 1946; at Oregon since 1966.

C. Max Nixon, B.F.A., Professor of Applied Design (metalcraft, jewelry, weaving). B.F.A., Kansas, 1939; at Oregon 1956-57 and since 1958.

David C. Nechak, M.F.A., Visiting Assistant Professor of Art (ceramics, basic design). B.S., 1965, M.F.A., 1970, Oregon; at Oregon since 1971.

David C. McCosh, Professor Emeritus of Art (painting, lithography). Grad., Art Institute of Chicago, 1927; at Oregon since 1934.

Kenneth R. O'Connell, M.F.A., Visiting Assistant Professor of Art (film, graphics, basic design). B.S., 1966, M.F.A., 1972, Oregon; at Oregon since 1972.

Frank S. Okada, B.F.A., Associate Professor of Art (painting, drawing). B.F.A., Cranbrook Academy of Art, 1957; at Oregon since 1969.

Kenneth H. Paul, M.A., Assistant Professor of Art (printmaking, painting). B.A., 1961, M.A., 1965, Wyoming; at Oregon since 1970.

Richard C. Pickering, M.F.A., Visiting Assistant Professor of Art (transcurricular consultant). B.A., Arizona State, 1964; M.F.A., Oregon, 1970; at Oregon since 1971.

Victoria Avakian Ross, M.F.A., Associate Professor Emeritus of Art (ceramics). B.A., Oregon, 1927; M.F.A., Southern California, 1939; at Oregon since 1920.

William N. Roy, M.F.A., Assistant Professor of Sculpture (cast, steel, fibreglass sculptures). B.F.A., Miami, 1965; M.A., 1968, M.F.A., 1968, Iowa; at Oregon since 1968.

C. B. Ryan, M.F.A., Professor of Art (painting, drawing). B.S., 1939, M.F.A., 1940, Oregon; at Oregon since 1946.

David R. Stannard, M.S., Associate Professor of Art (ceramics). B.A., Redlands, 1948; M.S., Oregon State, 1966; at Oregon since 1965.

Jay V. Soeder, M.F.A., Associate Professor of Art (painting, drawing). B.S., Indiana State Teachers, 1948; B.F.A., 1950, M.F.A., 1950, Chicago Art Institute; at Oregon since 1957.

Andrew M. Vincent, Professor Emeritus of Art (painting). Grad., Chicago Art Institute, 1929; at Oregon since 1929.

Jan Zach, Professor of Sculpture (sculpture). Academy of Fine Art, Prague, 1938; at Oregon since 1958.

Graduate Teaching Fellows

Collin B. Anderson (drawing). B.A., North Dakota, 1971.

Bruce Finch (ceramics). B.F.A., Oregon, 1971.

Alyce Flitcraft (ceramics). B.A., Earlham College, 1968.

John W. Hazekamp (sculpture). B.A., Bemidji State College, 1966; B.F.A., Oregon, 1971.

Steve Grandbouche (ceramics). B.F.A., Oregon, 1970.

Michael H. Henegar (sculpture). B.A., California State, 1966.

Rosemary Lane Hooper (printmaking, painting). B.F.A., California College of Arts and Crafts, 1966.

Brent S. Jenkins (sculpture). B.A., Kalamazoo College, 1968.

John David Joyce (graphic design). B.A., Carleton University, 1968; M.A., Oregon, 1972.

Allan Kluber (ceramics). B.A., Antioch College, 1967.

Donald MacLane (sculpture). B.A., Antioch College, 1971.

Patrick Malone (ceramics). B.A., Oregon, 1970.

John A. Maruskin (drawing). B.F.A., Cleveland Institute of Art, 1968.

Arthud J. Nersesian (ceramics). B.A., Fresno City College, 1968; B.A., Humboldt State College, 1971.

William E. Newsom (graphic design). B.A., Oregon, 1971.

John Ripper (graphic design, film). B.A., 1966, Oregon.

Don M. Ross (drawing). B.F.A., Wayne State, 1970.

Roberta M. Sparr (drawing). B.S., Eastern Montana College, 1971.

Paul Strachan (jewelry, metalwork). B.S., Oregon, 1971.

Jon M. Zander (printmaking, painting). B.F.A., California College of Arts, 1970.

The Department of Fine and Applied Arts consists of seven curricular areas: painting, printmaking, sculpture, graphic design, ceramics, weaving, jewelry and metalsmithing. The lower-division courses throughout the department are designed to serve both those students who elect to do major work in the department and nonmajors seeking studio work to serve as a part of a liberal education.

Undergraduate Studies

THREE baccalaureate degrees are offered by the department: a four-year program leading to the Bachelor of Arts or Bachelor of Science degree, and a program, usually taking five years, leading to the Bachelor of Fine Arts. The general departmental requirements for the B.A. and B.S. degree are 72 credit hours, including 9 hours of art history. The requirements for the B.F.A. degree are as follows: (1) completion of a five-year program totaling 220 credit hours; (2) satisfaction of all University requirements for a bachelor degree; (3) satisfaction of the major requirements of one of the departmental curricular areas for a four-year baccalaureate program and, in addition, in the fifth-year, 23 credit hours of studio work, 9 credit hours in art history, and 4 credit hours of Terminal Creative Project (Art 498). Admission to the B.F.A. route is limited and based on a portfolio review of the student's work. Application to the B.F.A. program, and presentation of the portfolio, is usually made during the student's fourth year. Additional information concerning the B.F.A. degree is available in the departmental office. Students who have completed a comparable four-year curriculum in art at another institution may be admitted to the fifth-year B.F.A. program; such B.F.A. candidates must, however, satisfy the University's 45 credit-hour residence requirement for all undergraduate degrees.

Because the department stresses intercurricular routes of study oriented to the individual student's interests and needs, each student is encouraged to select a regular faculty adviser during the first year. The importance of program planning cannot be over-emphasized. The necessity for the selected adviser to be familiar with and sympathetic to the student's direction and capabilities is critical to the development of worthwhile courses of study.

General Lower-Division Courses: Drawing (Art 291) and Basic Design (Art 295) are designed as introductory courses, preparatory to further work in the department. For descriptions, see course listings.

Fifth-year requirements for the B.F.A. degree in all seven areas are outlined in the foregoing general departmental statement.

Ceramics. The undergraduate program in ceramics is centered around those processes and principles which constitute the craft aspect of ceramics. Individual students arrange their specific programs in conference with instructors.

Lower-division courses recommended as preparation for a major in ceramics: Art history, 9 credit hours; Drawing (Art 291) or Basic Design (Art 295) 6 credit hours; Ceramics (Art 255) 9 credit hours.

The upper-division major recommendation in ceramics, leading to either the B.A. or B.S. degree, includes the following: Upper-division ceramics courses, 24 credit hours; Art electives, 24 credit hours.

Graphic Design. The program in graphic design provides a design foundation in visual communication. Through an interdisciplinary approach, the student has the opportunity to acquire technical information and design experience fundamental to contemporary graphic-communication media.

Lower-division courses recommended as preparation for a major in graphic design are: Art history, 9 credit hours; Drawing (Art 291) or Basic Design (Art 295) 6 credit hours.

The upper-division major recommendations in graphic design, leading to either the B.A. or B.S. degree, includes the following:

Upper-division graphic-design courses, 24 credit hours; Art electives or University workshop courses related to graphic design, 33 credit hours.

Jewelry and Metalsmithing. The degree program in jewelry and metalsmithing is planned to provide practical experiences in the design and techniques of fabricating, casting, stone setting, metal forming, and forging.

Lower-division courses recommended as preparation for a major in jewelry and metalsmithing are: Lower-division art history, 9 credit hours; Drawing (Art 291) 6 credit hours; Lower-division jewelry and metalsmithing, 6 credit hours.

The upper-division major recommendations in jewelry and metalsmithing, leading to either the B.A. or B.S. degree, include the following: Upper-division jewelry and metalsmithing, 30 credit hours; Art theory, 6 credit hours; Art electives, 15 credit hours.

Painting. Opportunities are offered for participation in a variety of conceptual and technical experiences in creative visualization in painting. The painting course of study outlined here is designed to meet the needs of those students wanting to do creative work as a part of a liberal education, and those wanting preparation for more advanced professional study.

The following lower-division courses in art are recommended as preparation for a major in painting: Lower-division art history, 9 credit hours; Basic Design (Art 295) 4 credit hours; Drawing (Art 291) 4 credit hours; Painting (Art 290) 8 credit hours.

The upper-division major recommendations in painting leading to either the B.A. or B.S. degree includes the following: Upper-division drawing, 6 credit hours; Composition and Visual Theory (Art 392) 6 credit hours; Upper-division painting, 12 credit hours; Drawing or printmaking electives, 6 credit hours; Selected theory courses, 6 credit hours; Studio electives, outside painting curriculum, 11 credit hours.

Printmaking. Printmaking has a long history of involvement in the use of visual imagery as a means of communication and expression. Familiarity with this tradition through a study of materials and techniques as well as theoretical analysis and experimental investigation is the aim of this discipline. The student is encouraged to take advantage of the opportunities offered in a University for a liberal education, as well as encouraged to develop the self-discipline necessary for the practice of printmaking as a creative endeavor through observation of the world outside as well as the world within.

The following lower-division courses in art are suggested as preparation for a major in printmaking: Lower-division art history, 9 credit hours; Basic Design (Art 295) 4 credit hours; Drawing (Art 291) 4 credit hours; Painting (Art 290) 4 credit hours.

The upper-division major recommendation in printmaking leading to either the B.A. or B.S. degree includes the following: Upper-division drawing, 6 credit hours; Composition and Visual Theory (Art 392 and Art 492) 6 credit hours; Upper-division printmaking, 16 credit hours; Drawing and printmaking electives, 6 credit hours; Selected theory courses, 6 credit hours; Studio electives outside printmaking curriculum, 11 credit hours.

Sculpture. The degree program in sculpture is planned to provide a sound foundation for mature investigation of the practical, theoretical, and historical aspects of the discipline. The student is encouraged to take advantage of the opportunities offered by the

University for liberal education, while at the same time developing appreciation and technique within the broad field of art.

In the lower-division classes, the emphasis is on elements in the language of form. Upper-division instruction enlarges upon theoretical perspectives, directing the student to personal investigations of the physical and expressive provinces of sculpture, to the study of constructive and destructive elements of light, and to the use of air as a plastic solid in equal partnership with the visible solid.

The following lower-division courses in art are recommended as preparation for a major in sculpture: Lower-division art history, 9 credit hours; Elementary Sculpture (Art 293) 9 credit hours; Drawing (Art 291) or Painting (Art 290) 9 credit hours.

The upper-division major recommendations in sculpture leading to either the B.A. or B.S. degree includes the following: Advanced sculpture courses, 30 credit hours; Art electives, 9 credit hours; Seminar: Sculpture (Art 407) 6 credit hours.

Weaving. The degree program in weaving is concerned with the design variables pertaining to textiles. Samplers and projects deal with both practical and visual aspects.

Lower-division courses recommended as preparation for a major in weaving are: Lower-division art history, 9 credit hours; Painting (Art 290) 6 credit hours; Lower-division weaving, 6 credit hours.

The upper-division major recommendation in weaving, leading to either the B.A. or B.S. degree, includes the following: Upper-division weaving, 30 credit hours; Art theory, 6 credit hours; Art electives, 15 credit hours.

Graduate Studies

THE graduate degree offered by the Department of Fine and Applied Arts is the Master of Fine Arts. The M.F.A. degree is offered in each of the curricular areas of this department: painting, printmaking, sculpture, graphic design, jewelry and metal-smithing. (Graduate work in weaving will not be offered until there is additional staff for that area.)

The departmental intent in the M.F.A. program is to promote mature and independent creative work based on a colleague-like relationship among members of the studio community. The faculty, with this in mind, prefers to rely more heavily on advising than on formal prescription.

The M.F.A. is the terminal degree in the studio arts. As such, it is designed to transcend the credit hour and coursework requirements normally associated with undergraduate and master degrees. The M.F.A. is a two-year program which is ordinarily six consecutive terms of regular session as a full-time student. It is not the intention of the departmental faculty to generate a preoccupation with credit hour requirements, but there are certain minimum conditions which may be reflected as credit-hour requirements or considerations. The six terms of full-time residence results in a fifty-four credit hour minimum. Other requirements are: six formal courses (no total credit-hour minimum) in either art history or art theory or both, plus a minimum of nine credit hours of Terminal Project (Art 509). Graduate students in this department may elect to take all their work on a pass-no pass (ungraded) basis. Because the principal requirements here are those of residence, which may not be waived, there is no policy for the accept-

ance of transferred graduate credit. All work done elsewhere, both privately and in other schools and foundations, though not reviewed for credit, will be honored.

Most of the first year is spent in establishing work patterns and in becoming more familiar with the courses of instruction, staff, and facilities of the department. Prospective students are expected to have the equivalent of this department's B.F.A. degree; those admitted without this experience are expected to make up the background deficiencies before being considered as entered in the two-year program.

It is assumed prospective graduate students have some knowledge of the department's offering, and seek entrance for particular reason. Those having visited the School prior to application and those having based their application on some firm knowledge have found the transition from the first year into the more independent phase of the terminal project of the second year most rewarding.

Formal Procedures and Conditions. (Procedures are generalized here but will vary in detail for each curriculum). (1) Specific inquiry to one of the curricular areas. (2) Submit application, transcripts, vitae, portfolio, and letters of recommendation as requested. (All applicants accepted into the graduate school will be given conditional admission to study for the M.F.A. which is graduate classification G3).

Until or unless an entering student has a specific request for a graduate adviser, the curricular head or a faculty member so designated, customarily serves as class 3 adviser. During this time, the student's enrollment will consist of course work and special studies in his or her discipline, and in other curricular areas to assure broader acquaintance with the department and the University.

Some time after the first term of residence, and usually before the end of the third, a committee for reviewing candidacy is constituted by the class 3 adviser. The committee is to be composed of not less than four members of departmental faculty two of whom, wherever possible, should be from the candidate's curricular area and at least one member from another curricular area of the department. In those instances in which faculty members from outside the department are wanted on this committee, they are to be appointed to serve in a nonvoting capacity. The purpose of this meeting is for a departmental committee to review with the student his or her file, as well as examples of past and current work, in order to advise on and to recommend advancement to candidacy with change of classification to G8.

As soon as the student's status has been classified G8, the student is eligible to select from the graduate faculty in his or her curriculum, a terminal adviser. The terminal adviser, in counsel with the candidate, selects the terminal committee. The terminal committee is composed of the terminal adviser as chairman, three other departmental faculty members, and usually a faculty member from outside the department. This entire committee will meet with the student for a preliminary statement of project intention (the preliminary review), at least two progress meetings, and the terminal review.

As soon as the project proposal is organized, the chairman arranges a meeting of the committee for a preliminary review of the proposed project. The purpose of the preliminary review is to acquaint all parties with the conceptual and technical particulars of the proposal and to discuss the merit of the project and its appropriateness to the terminal degree. If serious and irreconcilable differences of opinion arise, the committee should be reconstituted to begin again. Although the preliminary review is not a public meeting, the departmental faculty should receive the courtesy of notification. However, it should be understood that guests

are not to compromise the purpose of the meeting. The preliminary review is usually held at such a time as would allow three subsequent terms to complete the terminal project.

During the course of work on the terminal project, the candidate arranges for individual conference with committee members and should arrange through the chairman at least two committee meetings for progress reports.

At least two weeks prior to the terminal review, each committee member should receive a rough draft of the report summarizing the terminal project. At least one week before the terminal review, the time, date, and place are publicly announced by the chairman. The department will assist the candidate in arranging the space and dates for the public exhibition of his or her terminal project. The final review is open to all faculty and graduate students of the University. The exhibition is open to the public.

The degree is officially granted after the candidate has fulfilled all requirements, including the submission to the department of a project report, in a form appropriate to the nature of the project and suitable for binding for use in the School Library. This bound copy of the terminal report must be signed by the terminal project adviser. An additional copy of the report may be made available to the curricular area for its use. The student may also request an additional bound copy.

Ceramics

Art 199. Special Studies. 1-3 credit hours.

Art 255. Ceramics. 2-4 credit hours any term.

Introduction to ceramics with emphasis on pottery. Instruction offered in hand construction, throwing, glazing, and firing. Open to nonmajors. Nechak.

Art 401. Research.

Credit hours to be arranged.

Art 405. Reading and Conference.

Credit hours to be arranged. Consent of instructor is required.

Art 406. Special Problems.

Credit hours to be arranged.

Art 407. Seminar.

Credit hours to be arranged. Consent of instructor is required.

Art 408. Workshop.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

Art 455. Advanced Ceramics. (G) 2-4 credit hours any term.

Advanced studio work on individual projects. Study of clay and glaze materials and kiln construction. Effect of kiln atmosphere on body and glaze. Students assume responsibility for firing their own work. Thirty credit hours required for majors. Prerequisite: 6 credit hours in Art 255. James.

Art 498. Terminal Creative Project. (G)

Credit hours to be arranged. Open only to candidates for the B.F.A. degree.

Graduate Courses

Art 501. Research.

Credit hours to be arranged. Consent of instructor is required. A no-grade course.

Art 505. Reading and Conference.

Credit hours to be arranged. Consent of instructor is required.

Art 506. Special Problems.

Credit hours to be arranged. Consent of instructor is required.

Art 508. Workshop.

Credit hours to be arranged. Consent of instructor is required.

Art 509. Terminal Creative Project.

Credit hours to be arranged. Consent of instructor is required.

Graphic Design

Art 199. Special Studies. 1-3 credit hours.

Art 382. Calligraphy and Letter Design. 2 credit hours.

Pen and ink letter-forming to gain understanding of the visual structure of the alphabet, letterspaces, and pages. Study of legibility and letter contrast through calligraphy experience. A no-grade course. Cappuccio.

Art 383. The Graphic Symbol. 2 credit hours.

Studies in symbolic communication with phonogram, monogram, and logogram. Exploration in the graphic evolution of symbols. Prerequisite: Art 382. Foster.

Art 401. Research.

Credit hours to be arranged.

Art 405. Reading and Conference.

Credit hours to be arranged.

Art 406. Special Problems.

Credit hours to be arranged.

Art 407. Seminar.

Credit hours to be arranged. Consent of instructor is required.

Art 408. Workshop.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

Art 493. Visual Continuity. (G) 1-3 credit hours any term.

Study of the problems of image sequence and continuity in printed material, display, photography, and film. Prerequisite: Art 295, or consent of instructor. Open to nonmajors. Foster.

Art 495. Cinemagraphics. (G) 2-4 credit hours any term.

Study of moving imagery, both diagrammatic and photographic; use of film in visual communication. Prerequisite: Art 493. Foster.

Art 498. Terminal Creative Project. (G)

Credit hours to be arranged. Open only to candidates for the B.F.A. degree.

Graduate Courses

Art 501. Research.

Credit hours to be arranged. Consent of instructor is required. A no-grade course.

Art 505. Reading and Conference.

Credit hours to be arranged. Consent of instructor is required.

Art 506. Special Problems.

Credit hours to be arranged. Consent of instructor is required.

Art 507. Seminar.

Credit hours to be arranged. Consent of instructor is required.

Art 509. Terminal Creative Project.

Credit hours to be arranged. Consent of instructor is required.

Art 592. Graduate Studies in Visual Theory and Design.

Credit hours to be arranged. Advanced problems in visualization and design theory. Foster.

Jewelry and Metalsmithing

Art 199. Special Studies. 1-3 credit hours.

Art 257. Jewelry and Metalsmithing. 2-4 credit hours any term.

Introduction to the handworking of nonferrous metals—copper, brass, bronze, silver, gold; practical information about making jewelry and metal objects—soldering, stone setting, centrifuge casting, forging, raising. Nixon.

Art 401. Research.

Credit hours to be arranged.

Art 405. Reading and Conference.

Credit hours to be arranged. Consent of instructor is required.

Art 406. Special Problems.

Credit hours to be arranged.

Art 407. Seminar.

Credit hours to be arranged. Consent of instructor is required.

Art 408. Workshop.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

Art 457. Advanced Jewelry and Metalsmithing. (G) 2-4 credit hours any term.

Art 498. Terminal Creative Project. (G)

Credit hours to be arranged. Open only to candidates for the B.F.A. degree.

Graduate Courses

Art 501. Research.

Credit hours to be arranged. Consent of instructor is required. A no-grade course.

Art 505. Reading and Conference.

Credit hours to be arranged. Consent of instructor is required.

Art 506. Special Problems.

Credit hours to be arranged. Consent of instructor is required.

Art 508. Workshop.

Credit hours to be arranged. Consent of instructor is required.

Art 509. Terminal Creative Project.

Credit hours to be arranged. Consent of instructor is required.

Painting

Art 199. Special Studies. 1-3 credit hours.

Art 290. Painting. 2-3 credit hours any term.

A two-part course. Part A is for beginners and explores basic visual elements and their application to painting as a means of expression. Part B introduces concepts and their application to various painting media. Both parts taught each term. Prerequisite to Part B: 4 hours of Part A. Baker, Cappuccio, Haemer, Ryan, Soeder.

Art 291. Drawing. 2-3 credit hours any term.

A beginning two-part course in observation, selection, and recording of significant elements in various drawing media. Both parts taught each term. Haemer, Soeder.

Art 292. Water Color. 2-3 credit hours.

Basic instruction in the use of water media, with particular attention to the limitations and capabilities of these media. Haemer, Soeder.

Art 295. Basic Design. 2 credit hours each term.

Programming of information and processes invested in the act of designing; exercises in understanding the syntax of problem posing. Open to nonmajors. A no-grade course. Cappuccio, O'Connell.

Art 298. Sketching. 1 credit hour any term.

Sketching from prescribed objects, to develop ability to observe clearly and record accurately. Offered especially for nonmajor students who have had no previous training in sketching or drawing. A no-grade course.

Art 381. Water Color. 2-3 credit hours.

Instruction in visual and manual understanding of the media, with emphasis on transparency and fluidity. Special attention to notation of transitory conditions of light and atmosphere. Prerequisite: Art 291 or Art 292. Okada, Soeder.

Art 390. Painting. 2-4 credit hours any term.

Advanced study of painting concepts and technical processes. Independent initiative is encouraged. Prerequisite: 8 credit hours of lower-division painting or the equivalent. Baker, Okada.

Art 391. Drawing. 2-4 credit hours any term.

Continued study in observation related to visual and spatial phenomena. Prerequisite: 4 credit hours of Art 291. Okada, Soeder.

Art 392. Composition and Visual Theory. 2-4 credit hours any term.

A three-term sequence concerned with visual theory and its relation to visual, tactile, kinetic, and mnemonic characterization. Prerequisite: 4 credit hours of Art 295 or Art 291, or consent of instructor. Ryan.

Art 401. Research.

Credit hours to be arranged.

Art 405. Reading and Conference.

Credit hours to be arranged.

Art 406. Special Problems.

Credit hours to be arranged.

Art 407. Seminar.

Credit hours to be arranged.

Art 408. Workshop.

Credit hours to be arranged.

Art 481. Water Color. 2-4 credit hours, spring.

Advanced study in selected water media. Prerequisite: Art 381, or consent of instructor. Okada, Soeder.

Art 482. Anatomy for Artists. 2-4 credit hours, winter.

Study of the principles and formation of the skeletal and muscular structure of the human figure. Prerequisite: Art 290, or Art 291.

Upper-Division Courses Carrying Graduate Credit

Art 490. Advanced Painting. (g) 2-4 credit hours any term.

Advanced study in the use of various media to characterize observation of a variety of subject matter, including still life, landscape, and figure. Prerequisite: 6 credit hours of Art 390, or equivalent. Baker, Okada, Soeder.

Art 491. Advanced Drawing. (g) 1-4 credit hours any term.

Advanced work in the use of drawing as a conceptual and technical tool for revealing information from various sources, including still life, landscape, and figure. Prerequisite: 6 credit hours of Art 391. Okada, Roy, Ryan, Soeder.

Art 492. Composition and Visual Theory. (G) 2-4 credit hours any term.

A study of light, color, surface, and visual processes as related to painting and visual communication. Baker.

Art 498. Terminal Creative Project. (G)

Credit hours to be arranged. Open only to candidates for the B.F.A. degree.

Graduate Courses

Art 501. Research.

Credit hours to be arranged. Consent of instructor is required. A no-grade course.

Art 505. Reading and Conference.

Credit hours to be arranged. Consent of instructor is required.

Art 506. Special Problems.

Credit hours to be arranged. Consent of instructor is required.

Art 507. Seminar.

Credit hours to be arranged. Consent of instructor is required.

Art 508. Workshop.

Credit hours to be arranged. Consent of instructor is required.

Art 509. Terminal Creative Project.

Credit hours to be arranged. Consent of instructor is required.

Art 590. Graduate Studies in Painting.

Credit hours to be arranged. Work at an advanced level with

problems of color and form, techniques, and processes. Baker, Okada, Ryan, Soeder.

Art 591. Graduate Studies in Drawing.

Credit hours to be arranged. Work at an advanced level with problems of form, technique, processes, and visual theories. Baker, Okada, Ryan, Soeder.

Printmaking

Art 199. Special Studies. 1-3 credit hours.**Art 349. Fundamentals of Printmaking. 3 credit hours.**

Introduction to techniques of woodcut, silk screen, collagraph, lithography, and etching as primary means of expression. Practice in hand-printing of editions. Rotating term-long offerings in each media. May be repeated for credit. Krause, Paul.

Art 401. Research.

Credit hours to be arranged.

Art 405. Reading and Conference.

Credit hours to be arranged.

Art 406. Special Problems.

Credit hours to be arranged.

Art 407. Seminar: Printmaking.

Credit hours to be arranged. Krause.

Art 408. Workshop.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

Art 480. Lithography. (g) 2-4 credit hours any term.

Principles and methods of lithography, including color printing and advanced techniques. Practice in all stages of stone preparation and hand-printing of editions, with special emphasis on the medium's potential as a conceptualizing resource. Consent of instructor is required. Prerequisite: Art 349. Paul.

Art 483. Intaglio Printing Methods. (G) 2-4 credit hours any term.

Etching, dry point, engraving, aquatint, soft ground, sugar lift, inkless embossment, color and relief printing, with generally a three-term cycle observed in the introduction of the above methods. Intensive individual work combined with lecture demonstrations, critiques, and group discussions all serve to relate imagery development, philosophy of printing, self-expression, and social responsibility to the development of plates and the hand-printing of editions. Consent of instructor is required. Prerequisite: Art 349. Krause.

Art 498. Terminal Creative Project. (G)

Credit hours to be arranged. Open only to candidates for the B.F.A. degree.

Graduate Courses

Art 501. Research.

Credit hours to be arranged. Consent of instructor is required. A no-grade course.

Art 505. Reading and Conference.

Credit hours to be arranged. Consent of instructor is required.

Art 506. Special Problems.

Credit hours to be arranged. Consent of instructor is required.

Art 507. Seminar: Printmaking.

Credit hours to be arranged. Consent of instructor is required. Krause.

Art 508. Workshop.

Credit hours to be arranged. Consent of instructor is required.

Art 509. Terminal Creative Project.

Credit hours to be arranged. Consent of instructor is required.

Art 580. Graduate Studies in Printmaking.

Credit hours to be arranged. Experimental investigation and theoretical analysis of problems in various printmaking techniques: woodcut, etching, silk screen, wood engraving, lithograph, collagraph. Intensive independent work combined with regular review and critique. May be repeated for credit. Consent of instructor is required.

Sculpture

Art 199. Special Studies. 1-3 credit hours.**Art 293. Elementary Sculpture. 2-4 credit hours any term.**

Introduction to materials. Elementary consideration of form; technical and compositional exercises in clay, plaster, wood, and stone. Buckner, Roy, Zach.

Art 401. Research.

Credit hours to be arranged.

Art 405. Reading and Conference.

Credit hours to be arranged. Consent of instructor is required.

Art 406. Special Problems.

Credit hours to be arranged.

Art 407. Seminar.

Credit hours to be arranged. Consent of instructor is required.

Art 408. Workshop.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

Art 489. Advanced Metal Casting. (G) 3 credit hours.

Basic principles of ferrous and nonferrous metal casting in lost wax and sand; experimental use of polystyrene and other casting methods. Design and operation of furnaces and ovens. Buckner.

Art 494. Advanced Sculpture. (G) 2-4 credit hours any term.

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

Art 496. Ceramic Sculpture. (G) 2 credit hours any term.

Techniques in building, modeling, molding, and surfacing terracotta. Emphasis on the character of the materials and their effectiveness as sculptural media. Study of forms appropriate to residential and civic design. Prerequisite: three terms of Art 293, three terms of Art 255.

Art 498. Terminal Creative Project. (G)

Credit hours to be arranged. Open only to candidates for the B.F.A. degree.

Graduate Courses

Art 501. Research.

Credit hours to be arranged. Consent of instructor is required. A no-grade course.

Art 505. Reading and Conference.

Credit hours to be arranged. Consent of instructor is required.

Art 506. Special Problems.

Credit hours to be arranged. Consent of instructor is required.

Art 507. Seminar.

Credit hours to be arranged. Consent of instructor is required.

Art 508. Workshop.

Credit hours to be arranged. Consent of instructor is required.

Art 509. Terminal Creative Project.

Credit hours to be arranged. Consent of instructor is required.

Art 594. Graduate Studies in Sculpture.

Credit hours to be arranged. Work at the graduate level in the problems of forms and their relationship to space. Studio research into traditional and contemporary concepts to find personal expression. Consent of instructor is required.

Weaving

Art 199. Special Studies. 1-3 credit hours.**Art 256. Weaving. 2-4 credit hours any term.**

Introduction to basic weaving techniques. The dressing, care, and manipulation of several types of looms. Experimentation with a wide variety of fibers. Production of textiles of original design on 4- and 8-harness looms. Nixon.

Art 401. Research.

Credit hours to be arranged.

Art 405. Reading and Conference.

Credit hours to be arranged. Consent of instructor is required.

Art 406. Special Problems.

Credit hours to be arranged.

Art 407. Seminar.

Credit hours to be arranged. Consent of instructor is required.

Art 408. Workshop.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

Art 456. Advanced Weaving. (G) 2-4 credit hours any term.

Emphasis on creative work. Production of a wide variety of handwoven fabrics. Historical studies, fabric analysis, spinning, dyeing. Thirty credit hours required for majors. Nixon.

Art 458. Textile Printing. (G) 2-4 credit hours.

Advanced problems in design and color, applied to standard textiles. Technique in pattern design and yardage printing. Silk screen, block print, etc.

Art 498. Terminal Creative Project. (G)

Credit hours to be arranged. Open only to candidates for the B.F.A. degree.

Graduate Courses

Art 501. Research.

Credit hours to be arranged. Consent of instructor is required. A no-grade course.

Art 505. Reading and Conference.

Credit hours to be arranged. Consent of instructor is required.

Art 506. Special Problems.

Credit hours to be arranged. Consent of instructor is required.

Art 508. Workshop.

Credit hours to be arranged. Consent of instructor is required.

Art 509. Terminal Creative Project.

Credit hours to be arranged. Consent of instructor is required.



College of Business Administration

Dean, Richard R. West, Ph.D.

Associate Dean, Harold K. Strom, Ph.D.

Assistant Dean, Catherine M. Jones, Ed.D.

THE College of Business Administration recognizes, as its primary function in the University, the provision of the broad education and understanding essential for responsible administrative, research, and technical careers in business, government, and education.

To insure such an education for its students, the college requires that undergraduate majors take a minimum of 40 per cent of their work in the liberal arts and sciences. Within the college, professional courses treat subjects affecting firms and organizations and their responsibilities to the owners, employees, customers, and society in general.

The instructional program of the college is offered in two schools: the Undergraduate School of Business and the Graduate School of Management and Business. The Graduate School of Management and Business operates under the general direction of the Graduate School of the University.

The College of Business Administration was established in 1914 as the School of Commerce; the name was changed to School of Business Administration in 1921; the present name was adopted in 1967. Its undergraduate program was accredited in 1923, and its M.B.A. program in 1962, by the American Association of Collegiate Schools of Business.

The following business honorary and professional societies have chapters at the University: Alpha Kappa Psi, men's professional business fraternity; Beta Gamma Sigma, business administration scholastic honorary; Beta Alpha Psi, accounting; Delta Nu Alpha, transportation; Phi Chi Theta, business women; Pacific Northwest Personnel Managers Association.

The college maintains a student exchange program with a foreign school of business.

In addition to its curricular program, the College of Business Administration faculty maintains an active interest in research. This is manifested by the research centers which are incorporated in its organizational structure, and which are described below. The amount of activity within these centers varies, and depends on grants and contracts from foundations, government agencies, and the business community as well as availability of general University funds.

Bureau of Business and Economic Research. The Bureau of Business and Economic Research conducts and encourages research in business, economics, and related fields and provides assistance with research design and facilities.

The Bureau publishes the *Oregon Business Review*, and *Oregon Economic Statistics*, and occasional monographs reporting the results of business and economic research.

Consumer Research Center. The Center provides consultative resources, editorial and financial assistance, and supports the efforts of faculty, students, and citizens who are concerned with problems of the consumer status of individuals in an industrial society. Society is examined as a marketplace where persons must

deal with complex corporate and governmental institutions to obtain the products and services that affect their affairs.

Beachhead is a subsidiary program in the Consumer Research Center, organized to define an alternative model of teaching and learning within an established institution.

Forest Industries Management Center. The major goal of the Forest Industries Management Center is to stimulate research, and education related to the forest products field. Introductory training is provided to undergraduate students interested in job opportunities in forest products companies (lumber, plywood, pulp and paper).

In the area of research, the Center has developed a computerized forest industries business game. In addition, studies concerning all aspects of corporate strategy and long-range planning in forest products companies are being conducted on a continuous basis.

The Center conducts an annual Forest Industries Conference which attracts speakers and participants from industry, government, and academic institutions.

Center for International Business Studies. The Center for International Business Studies (CIBS) has three chief objectives: (1) to encourage greater interest in world affairs and international business problems among all students of business administration; (2) to stimulate faculty and student research in international aspects of business and related areas; and (3) to develop among students and faculty a greater awareness of the influence of the world cultural fabric on business and economics. Programs to carry out these objectives include: (1) The European Exchange Program in Business Administration, in cooperation with The Netherlands School of Business, Breukelen, The Netherlands. (2) The encouragement and development of interdisciplinary study and research programs.

Institute of Industrial and Labor Relations. The Institute of Industrial and Labor Relations works closely with the College of Business Administration in many programs of mutual interest. Its activities are described in detail in the Graduate School section of this catalog.

Transport and Logistics Research Center. The Transport and Logistics Research Center fosters research in the areas of transport and physical distribution management (logistics), and encourages education in the field by involving students in research and bringing them into closer contact with industry.

The College of Business Administration confirms the University's commitment to affirmative action to promote equal employment opportunities for women and minorities.

Undergraduate School of Business

TO EARN a degree in the Undergraduate School of Business, a student must complete one of the major options offered. These are:

Accounting, Administrative Studies, Business and Construction, Business Environment, Finance, International Business, Manpower and Human Resources, Marketing, Quantitative Methods, Real Estate, Transportation and Logistics, Management.

Combined with other work, each of the options may lead to the Bachelor of Business Administration (B.B.A.), Bachelor of Science (B.S.), or Bachelor of Arts (B.A.) degrees.

A student who has a baccalaureate or master degree in business administration is not eligible for another degree in business administration at the bachelor level. Likewise, a student may not receive two or more bachelor degrees in Business Administration simultaneously.

Degree Requirements. To qualify for a bachelor degree from the College of Business Administration (B.B.A.), the student must complete all of the following requirements.

(1) **General University Requirements.** (It is not necessary to complete the lower-division work in this requirement prior to starting upper-division Business work.) (a) 9 credit hours in Arts and Letters courses (need not be in sequence nor same department); (b) 9 credit hours in Social Science courses (need not be in sequence nor same department); (c) 9 credit hours in Science courses (need not be in sequence nor same department); (d) an additional 9 credit hours in either (a), (b), or (c) above, or in all three; (e) Wr 121 and Wr 323; (f) 5 terms of Physical Education and one term of Health Education; (g) 62 credit hours in upper-division work (any time and on any campus); (h) 45 credit hours beyond the first 126 hours must be taken on this campus in regular sessions to meet the residence requirement; (i) A minimum total of 186 credit hours.

(2) **Conceptual Tools Core.** A total of 45 credit hours of work distributed as follows: Intermediate Economic Analysis (Ec 375 and 376, or equivalent) 6 credit hours; 3 credit hours in another Economics course; Financial Accounting (Ac 221), or equivalent, 3 credit hours; Introduction to Business Statistics (QM 232), or equivalent, 3 credit hours; Elements of Calculus (Mth 106, Mth 200, Mth 204), or equivalent, 4 credit hours; Computer Programming (CS 233 or CS 290), 4 credit hours; 3 credit hours selected from mathematics, computer science, logic, or statistics; 9 credit hours selected from sociology, psychology, anthropology (3 courses of at least 3 credit hours each; need not be one of each course); English Composition (Wr 121), 3 credit hours; Fundamentals of Speech (Rht 121), 3 credit hours; Business Law (BE 226), or equivalent, 3 credit hours. Business Environment (BE 125) is not required, but is recommended as an elective for freshman business students.

(3) **Residence Requirement.** After students have completed the conceptual-tools-core, they must take 45 credit hours of upper-division work in Business on this campus. Upper-division work taken before completion of the conceptual tools core does not satisfy this requirement. Upper-division work taken at another institution does not satisfy this requirement unless the course is taken under the instruction of a College of Business Administration faculty member acting as an exchange professor at that institution. Lower-division work does not satisfy this requirement.

(4) **Studies in Business and Economics.** Students must take at least 72 credit hours of work in business and economics courses (40 per cent of the total program requirements).

(5) **Studies in Other Disciplines.** Students must take at least 72 credit hours (40 per cent of total program) of work outside of business and economics courses.

(6) **Upper-Division Core.** The following courses are required: Managerial Accounting (Ac 323) 3 credit hours; Financial Man-

agement (FBE 322) 3 credit hours; Marketing Systems and Demand Analysis (MKT 311) 3 credit hours; Interpersonal Relations (MGT 321) 3 credit hours; either Business Enterprise and Social Responsibility (BE 425) or Business Policies (MGT 453) 3 credit hours.

(7) **Major Option** in the College of Business Administration. Each student must complete the requirements of one of the major options as specified by the departments below.

Student Advising. The College of Business Administration maintains a degree-requirements service for the business student. Information and advice about the student's status with respect to Business requirements for the degree are handled through the Student Information Office (Room 272 Commonwealth). At the beginning of each term, specially selected faculty and graduate students work with students to discuss requirements and plan programs. Students also have faculty advisers who work with them concerning content of specific courses and programs that will help attain career objectives. A list of advisers and their areas of specialization is provided in the CBA Student Information Office so that students may choose their own adviser when they choose their major option.

Students are urged to notify the Student Information Office of their intent to study business, and to maintain up-to-date transcript files in that office. During the term in which students gain senior standing, they should review their files with the Student Office in order to plan the last year, and to insure that all requirements for graduation will be completed.

Accounting and Quantitative Methods

Faculty

Department Head, Larry E. Richards, Ph.D., Associate Professor of Quantitative Methods. B.A., 1962, M.B.A., 1963, Washington; Ph.D., California at Los Angeles, 1969; at Oregon since 1966.

Paul Frishkoff, Ph.D., Associate Professor of Accounting. B.A., Swarthmore, 1960; M.B.A., Chicago, 1962; C.P.A., State of California, 1964; Ph.D., Stanford, 1970; at Oregon since 1967.

Willis R. Greer, Jr., Ph.D., Assistant Professor of Accounting. B.S., 1961, M.B.A., 1966, Cornell; Ph.D., Michigan; 1971; at Oregon since 1971.

Dale S. Harwood, Jr., D.B.A., Professor of Accounting. B.S., Oregon State, 1948; D.B.A., Washington, 1957; at Oregon since 1958.

Chris J. Luneski, Ph.D., Associate Professor of Accounting. A.B., Johns Hopkins, 1956; M.A., 1959, Ph.D., 1965, Minnesota; at Oregon since 1961.

Arthur E. Mace, Ph.D., Professor of Quantitative Methods. B.A., Amherst, 1938; Ph.D., Chicago, 1947; at Oregon since 1964.

Franklin L. McCarthy, Ph.D., Assistant Professor of Accounting. A.B., Hope College, 1959; M.B.A., Chicago, 1962; Ph.D., Minnesota, 1971; at Oregon since 1967.

Douglas Olson, Ph.D., Assistant Professor of Quantitative Methods. B.S., B.A., Florida, 1962; M.B.A., 1964, Ph.D., 1968, California at Los Angeles; at Oregon since 1970.

Boyd C. Randall, Ph.D., Assistant Professor of Accounting. B.S., 1965, J.D., 1967, Utah; Admitted to the Utah State Bar, 1967; M.B.A., Utah, 1968; Ph.D., Minnesota, 1972; at Oregon since 1972.

James E. Reinmuth, Ph.D., Associate Professor of Quantitative Methods. B.A., Washington, 1963; M.S., 1965, Ph.D., 1969, Oregon State; at Oregon since 1967. (On sabbatical leave, spring 1972-73 and fall 1973-74.)

John W. Soha, M.B.A., C.P.A., Associate Professor of Accounting. B.B.A., Puget Sound, 1936; M.B.A., Michigan, 1950; C.P.A., State of Washington, 1942; at Oregon since 1951. (On sabbatical leave, spring 1972-73.)

PROGRAMS in accounting are designed to prepare students for careers in industrial, professional, and governmental accounting. The quantitative methods option is designed to provide students with an understanding of the theory and techniques of quantitative analysis as a basis for administrative decision-making.

Accounting. The major curriculum in accounting is designed for students who wish to prepare for a professional career in business or government service with an emphasis on accounting and quantitative analysis of business data. Requirements in addition to the general business requirements of the school, total 33 credit hours, distributed as follows: Financial Accounting (Ac 222) 3 credit hours; Financial Accounting Theory (Ac 350, 351, 352) 9 credit hours; Cost Accounting (Ac 360) 3 credit hours; Elementary Inference in Business Statistics (QM 333) 3 credit hours; Introduction to Income Tax (Ac 411) 3 credit hours; Quantitative Methods (QM 432 or QM 434) or Seminar: Sampling (QM 407) 3 credit hours; Introduction to Auditing (Ac 440) 3 credit hours; Advanced Accounting (Ac 450) 3 credit hours; Cost Analysis (Ac 460) 3 credit hours.

In addition to the specific courses listed above, accounting majors are required to complete:

(1) One year (12 credit hours) of college mathematics during their lower-division years, the mathematics sequence to start at the highest possible level. Mth 101 or Mth 102 is the typical starting level, but students who can start at a higher level are required to do so. Courses in computing and mathematics of finance, or their equivalents, may not be counted toward satisfaction of this requirement.

(2) A one-year sequence (9 credit hours) in economics or 9 credit hours in a behavioral science at the upper-division level. Courses in cultural anthropology, psychology, and sociology are included in the behavioral science category; courses in other fields may be included by petition through departmental advisers.

All accounting majors who plan to sit for the CPA examination are advised to take at least two business law courses in addition to Introduction to Law (BE 226).

Quantitative Methods. The major program in quantitative methods is designed to prepare the student for a career in business research; primary emphasis is on the application of modern statistical and quantitative methods to business problems. Majors in quantitative methods must complete work in basic mathematics through calculus (equivalent of Mth 200, 201, 202, 203 or Mth 204, 205, 206). Additional courses in mathematics, accounting, and quantitative methods in economics or other social sciences are highly recommended. The major requirements, in addition to the general business requirements of the school, totaling 27 credit hours, are as follows: Elementary Inference in Business Statis-

tics (QM 333) 3 credit hours; Quantitative Analysis for Business Decisions (QM 432) 3 credit hours; Applied Analysis of Variance (QM 433) 3 credit hours; Cost Accounting (Ac 360) 3 credit hours; Applied Regression Analysis (QM 434) 3 credit hours; Intermediate Economic Analysis (Ec 375, 376) 6 credit hours; Minimum of 6 credit hours selected from electives listed below.

Electives: Business Fluctuations and Planning (FBE 466) 3 credit hours; Cost Analysis (Ac 460) 3 credit hours; Industrial Dynamics (QM 421) 3 credit hours; Financial Analysis (FBE 459) 3 credit hours; Marketing Research (MKT 460) 3 credit hours; Operations Research Techniques (MGT 428) 3 credit hours; Intermediate Economic Analysis (Ec 377) 3 credit hours; National Income & Business Cycles (Ec 483, 484, 485) 9 credit hours; Introductory Linear Algebra (Mth 411) 3 credit hours; Introduction to Statistical Theory (Mth 441, 442, 443) 9 credit hours.

Accounting

Ac 221. Financial Accounting. 3 credit hours.

Description and derivation of major financial statements prepared by accountants; accounting rationale; primary emphasis placed on reports to stockholders and other investors; an introduction to other courses, and a one-term terminal course in financial accounting. Prerequisite: sophomore standing.

Ac 222. Financial Accounting. 3 credit hours.

Continuation of Ac 221. Problems faced by the financial accountant in determining figures to be reported for monetary and nonmonetary assets; related problems in reporting ownership interests; analysis of financial statements. Required for all accounting majors. Prerequisite: Ac 221.

Ac 323. Managerial Accounting. 3 credit hours.

Introduction to development, presentation, and interpretation of accounting data to aid management in planning and controlling operations. Prerequisite: Ac 221.

Ac 350, 351, 352. Financial Accounting Theory. 3 credit hours each term.

Review of financial statements provided to investors; review of accounting recording and reporting techniques and procedures. Examination of basic accounting principles and concepts underlying asset valuation and income determination. Prerequisite: Ac 222.

Ac 360. Cost Accounting. 3 credit hours.

Continuation of Ac 323. Development, presentation, and interpretation of cost information for management; methods of data collection and display; problems of cost allocation; cost-price nexus; standard costs for control; capacity overhead issues. "Generation of information for special decision. Performance measurement." Prerequisite: one year of college mathematics, QM 232, Ac 323.

Ac 407. Seminar.

Credit hours to be arranged.

Ac 460. Cost Analysis. 3 credit hours.

Quantitative methods applied to cost analysis; differential costs; complex mix-and-yield cost variances; time-preference and capital budgeting; project selection involving internal and external constraints; operations research and critical path methodologies as they pertain to cost matters. Prerequisite: Ac 360, CS 233, senior standing.

Ac 480. Advanced Accounting Problems.

Credit hours to be arranged. Problems in professional examinations given by the American Institute of Certified Public Accountants; emphasis on problem analysis and development of working papers. Consent of instructor is required.

Ac 481. Problems of Professional Accounting. 3 credit hours.

Lectures and readings dealing with the management of a public accounting practice; the function of the controller, the industrial accountant, and the governmental accountant. Ethics, fees, personnel and client relationships. Term paper usually required. Prerequisite: 9 credit hours of accounting, or consent of instructor.

Upper-Division Courses Carrying Graduate Credit

Ac 411. Federal Income Tax. (G) 3 credit hours.

Designed for accounting majors and other majors alike. Intended to develop an understanding of the law, with emphasis on taxation of individuals; familiarity with income tax procedures; introduction to tax research. Prerequisite: Ac 323.

Ac 412. Advanced Federal Tax. (G) 3 credit hours.

Study of the taxation of corporations and shareholders. Intended to develop an understanding of the law, as well as an awareness of the uncertainties inherent in the law; advanced tax research. Prerequisite: Ac 411.

Ac 420, 421. Management Information Systems. (G) 3 credit hours each term.

Study and analysis of information models for the management of complex organizations; secondary research on problems arising from indiscriminate mechanization of natural systems; generalized definitions of management information; adjustment to particularized definitions; total-systems flow charting; primary research into particularized information systems. Prerequisite: computer course work or experience with mechanized mass-data systems; senior standing, or consent of instructor.

Ac 430. Fund Accounting. (G) 3 credit hours.

Financial administration and external review of government and nonprofit entities, emphasizing the use of fund accounting in planning, budgeting, and controlling the operations of such agencies. Consideration of alternative budgeting systems, including line-item, performance, and planning-programming-budgeting-systems, and the financial aspects of such systems; applications of analytical techniques to planning and reviewing governmental programs; and alternative auditing concepts and their application to nonprofit entities. Requires no previous background in accounting.

Ac 440. Introduction to Auditing. (G) 3 credit hours.

A general perspective of the following: financial statement examinations, the audit process and environment, and the audit profession. Emphasis is on auditing concepts and auditing standards, as contrasted with procedures. Prerequisite: Ac 352, Ac 360, senior standing.

Ac 441. Auditing Concepts and Procedures. (G) 3 credit hours.

A continued study of auditing literature but with more emphasis on applications of concepts and standards, including such areas as audit programming, statistical sampling, computer applications, and problems of reporting. Prerequisite: Ac 440.

Ac 450. Advanced Accounting. (G) 3 credit hours.

Financial accounting concepts and analyses relating to: partnerships, alternative forms of combined corporate entities, and international operations. Prerequisite: Ac 352, senior standing.

Ac 451. Special Topics in Accounting. (G) 3 credit hours.

Concepts, analyses, and methodology applicable to fiduciary, institutional, and social accounting systems. Special situations such as accounting for consignments and installment sales. Prerequisite: Ac 450.

Quantitative Methods

QM 232. Introduction to Business Statistics. 3 credit hours.

Elementary statistics as a tool for business decision-making. Introduction to probability, discrete and continuous distributions, sampling distributions, and a preview of problems of inference. Prerequisite: Mth 106, or equivalent.

QM 333. Elementary Inference in Business Statistics. 3 credit hours.

Applications of statistical inference to business situations; sampling and its role in estimation and hypothesis testing; simple linear regression analysis and correlation. Prerequisite: Mth 106, QM 232, or equivalent.

QM 407. Seminar.

Credit hours to be arranged.
Independent Study.

QM 432. Quantitative Analysis for Business Decisions. 3 credit hours.

Uses of subjective probability and utility theory in dealing with conditions of risk and uncertainty in business situations; elementary mathematical models of business behavior. Prerequisite: one year of college mathematics; QM 232, QM 333, or equivalent.

Upper-Division Courses Carrying Graduate Credit

QM 420. Dynamic Systems. (G) 3 credit hours.

Fundamental concepts in the analytical study of dynamic processes and systems. Difference equations which have important applications in the simulation of industrial and economic systems. Prerequisite: Mth 106, or equivalent.

QM 421. Industrial Dynamics. (G) 3 credit hours.

Analysis of information-decision systems in business organizations; development of competence in modeling the dynamic operations of such systems, in performing simulation experiments, and in analyzing results. Prerequisite: QM 420, or consent of instructor.

QM 433. Applied Analysis of Variance. (G) 3 credit hours.

Design of comparative experiments in business administration; models and methods for analysis of variation in measurement data; weighing of evidence from comparative business experiments. Prerequisite: one year of college mathematics; QM 232, QM 333, or equivalent.

QM 434. Applied Regression Analysis. (G) 3 credit hours.

Survey of graphical and numerical procedures for curve fitting

based on the classical method of least squares; application of regression procedures in the analysis of measurement data and in the elucidation of underlying relationships governing business and economic behavior. Prerequisite: one year of college mathematics: QM 232, QM 333, or equivalent.

QM 440. Time-Dependent Processes. (G) 3 credit hours.

Analysis of time-dependent processes in business and management; forecasting, especially economic forecasting as related to demand analysis and security price movements; smoothing of errors in a quality control system; renewal theory; waiting line theory. Prerequisite: QM 232, QM 333 and one year of calculus, or consent of instructor.

Finance and Business Economics

Faculty

Department Head, Peter O. Dietz, Ph.D., Associate Professor of Finance (investment management). A.B., 1957, M.B.A., 1958, Dartmouth; Ph.D., Columbia, 1965; at Oregon since 1969.

Gary M. Allen, M.B.A., Visiting Assistant Professor of Finance (business finance). B.M.E., 1966, M.B.A., 1969, Ohio State University; at Oregon since 1973.

Thomas W. Calmus, Ph.D., Associate Professor of Business Economics (managerial economics). B.A., Sacramento State, 1957; Ph.D., California, 1966; at Oregon since 1967. (On sabbatical leave, 1973-74.)

Jerome J. Dasso, Ph.D., Professor of Finance (real estate, urban development). B.S., Purdue, 1951; M.B.A., Michigan, 1952; M.S., 1960, Ph.D., 1964, Wisconsin; A.I.P., 1969, S.R.P.A., 1971; at Oregon since 1966. (On sabbatical leave, 1972-73.)

Michael H. Hopewell, Ph.D., Assistant Professor of Finance (financial management). B.A., 1963, M.B.A., 1967, Ph.D., 1972, Washington; at Oregon since 1969.

George G. Kaufman, Ph.D., John B. Rogers Professor of Banking and Finance (financial institutions). B.A., Oberlin, 1954; M.A., Michigan, 1955; Ph.D., Iowa, 1962; at Oregon since 1970.

Richard W. Lindholm, Ph.D., Professor of Finance (taxation). A.B., Gustavus Adolphus, 1935; M.A., Minnesota, 1938; Ph.D., Texas, 1942; at Oregon since 1958.

Paul Swadener, D.B.A., Associate Professor of Finance (insurance, finance management). B.S., 1960, M.B.A., 1962, D.B.A., 1968, Indiana; at Oregon since 1965.

Donald A. Watson, Ph.D., Professor of Business Economics (urban and regional development). Director, Bureau of Business and Economic Research. B.A., 1947, M.A., 1948, Ph.D., 1951, Iowa; at Oregon since 1956.

Richard R. West, Ph.D., Professor of Finance (securities markets, investments). Dean, College of Business Administration. B.A., Yale, 1960; M.B.A., 1963, Ph.D., 1964, Chicago; at Oregon since 1972.

THIS department offers two major options: Finance and Real Estate, and courses in the related fields of Insurance and Business Economics.

Finance. The finance curriculum is designed to impart an understanding of the various areas and principles of finance and to provide students with a body of specialized knowledge and analytical techniques. Courses are offered in the areas of financial institutions, financial management, investments, and insurance. The courses provide an understanding of the application of business financial analysis and decision-making to the solution of problems of business management. Special attention is given to the relation of financial policies and operations to the functioning of business firms within the economic system. The major requirements total 24 credit hours; in addition to the general requirements of the College of Business, they are: Financial Accounting (Ac 222) 3 credit hours; Financial Institutions (FBE 321) 3 credit hours; Introduction to Investments (FBE 363) 3 credit hours; Elementary Inference in Business Statistics (QM 333) 3 credit hours; Problems in Financial Management (FBE 480) 3 credit hours; a minimum of 9 credit hours selected from electives listed below.

Electives (3 credit hours, each course): Analysis of Financial Institutions (FBE 450); Taxation Topics (FBE 323); Real Estate Finance (FBE 440); Financial Analysis (FBE 459); Commercial Bank Management (FBE 460); Investment Management (FBE 464); Introduction to Real Estate (FBE 341); Risk and Insurance (FBE 354); International Finance Management (FBE 474); Business Fluctuations and Planning (FBE 466); Computer Science (CS 421, or CS 424); Business Insurance and Risk Management (FBE 455 G); one of the following: Quantitative Analysis for Business Decisions (QM 432), Applied Analysis of Variance (QM 433), or Applied Regression Analysis (QM 434).

Real Estate. The option in real estate is designed to provide professional training in the development, financing, marketing, and management of real estate. Students must maintain a B grade average in courses in real estate in order to major in the field. Required courses, in addition to the general requirements of the College of Business, are (3 credit hours, each course): Introduction to Real Estate (FBE 341); Real Estate Valuation (FBE 407); Real Estate Investment Analysis (FBE 407); Real Estate Environmental Analysis (FBE 442 G); Real Estate Finance (FBE 440 G).

The following courses are recommended to be taken among the student's elective credits: Real Property Development (FBE 444 G) 3 credit hours; Real Estate Law (FBE 407) 3 credit hours.

Business and Construction. A five-year program is offered jointly by the School of Architecture and Allied Arts and the College of Business Administration to prepare students for professional careers in housing, construction, and related fields; the program leads to a bachelor degree from the College of Business Administration. Three options focus on development, management, and materials-distribution aspects of construction: the urban development option prepares students for careers as builders, developers, real estate specialists, and public employees; the construction management option emphasizes technical aspects of construction to qualify students to write job specifications and to prepare cost estimates with and for architects, engineers, and contractors; the materials distribution option is concerned with the production and marketing of such products as wood, concrete, and structural steel.

Details of specific course requirements may be obtained from either the School of Architecture and Allied Arts or the College of Business Administration.

FBE 199. Special Studies. 1-3 credit hours.**FBE 321. Financial Institutions. 3 credit hours.**

Study of the structure and functions of financial institutions. Survey of monetary policy and its relationship to individual banks and the banking system; analysis of the nature and functions of money and credit and the interrelationship of money, credit, and the price level; analysis of the sources and uses of funds by financial institutions; the economic role of these institutions. Prerequisite: 9 credit hours of economics.

FBE 322. Financial Management. 3 credit hours.

Policies and practices required to plan and control the sources and uses of a firm's funds; emphasis on formulation, implementation, and modification of corporate financial policies; management of liquid assets; selection among alternative investment opportunities; funds acquisition; dividend policies; determination of the optimal debt-equity mix. Economic, accounting and statistical tools and concepts studied and related to the decision-making process. Prerequisite: Ac 323.

FBE 323. Taxation Topics. 3 credit hours.

Each term of the academic year a different selection of taxes and taxation issues are considered. The selections in the past have included value-added tax, ability-to-pay, administration of taxes, land-value taxation. Issues considered are such as the effect of the tax system on monopoly, balance-of-payments, economic development; environment, urban planning, and financing education. The course is also offered as FBE 407 for those who wish to consider more than one group of tax topics.

FBE 341. Introduction to Real Estate. 3 credit hours.

Real estate principles and practices, with special emphasis on urban land-use analysis; nature of real property and property rights; organization of the real-estate industry and real estate markets; the urban spatial structure and location analysis; land-use competition; management of real properties; subdivision and land development; real estate financing; the impact of government policies upon the real estate industry.

FBE 354. Risk and Insurance. 3 credit hours.

Introduction to the basic principles of insurance from the viewpoint of the individual and family consumer. Topics studied include risk identification and evaluation, and measurement of need for protection; ways of handling risk, and insurance as a risk-handling device; insurance buying, including evaluation of cost; company and agent selection; types of insurance including life, health, automobile, homeowner's, specialty consumer coverages; an introduction to business insurance.

FBE 363. Introduction to Investments. 3 credit hours.

Study of the economic and investment environment as it relates to security investment decisions; appraisal of investment characteristics; introductory investment analysis of various stocks and bonds; the determination of investment objectives, and the execution of portfolio policies for various types of individual and institutional investors. Prerequisite: FBE 322, or 15 credit hours of economics.

FBE 407. Seminar.

Credit hours to be arranged.
Real Estate Law.
Topics in Taxation.
Real Estate Valuation.
Real Estate Investment Analysis.

FBE 450. Analysis of Financial Institutions. 3 credit hours.

Considers financial institution management procedures, and trends in the organization and control of financial operations.

Actual involvement in the management decisions of a particular institution is a portion of the work of the course. Prerequisite: FBE 321.

FBE 459. Financial Analysis. 3 credit hours.

Analysis of the financial aspects of complex business problems; concepts of interest and opportunity cost; time value of money and valuation of various income streams; methods of evaluating and ordering investment alternatives; concepts of certainty, certainty-equivalence, and uncertainty related to financial decision making; the theory of financing business firms. Prerequisite: FBE 322.

FBE 460. Commercial Bank Management. 3 credit hours.

Practices, policies and problems of commercial bank management and operation; loan and investment administration; regulation and supervision; earnings, expense, and dividend policies; the economic and social importance of the commercial banking system as the center of the American financial system. Prerequisite: FBE 321.

FBE 464. Investment Management. 3 credit hours.

Study of specific types of marketable securities; advanced analysis and appraisal of companies and industries from the point of view of an investor. Evaluation of profit opportunities and exposure to risk of various investments; their relationship to different portfolio objectives and constraints. Prerequisite: FBE 363, senior standing.

FBE 465. Investment Banking and Capital Markets. 3 credit hours.

Background of investment banking institutions; legal and regulatory problems of the origination, syndication, and distribution of security issues; methods of appraisal and valuation of the principal types of securities, including municipal and corporate bonds and common and preferred stocks. Prerequisite: FBE 363.

FBE 466. Business Fluctuations and Planning. 3 credit hours.

Designed to prepare the student to plan successfully in a dynamic business environment. Analysis of forces that cause pervasive fluctuations in aggregate business activity; the effects of these fluctuations on individual business firms and industries. The relationships among long-run trends and shorter cycles; forecasting techniques and policy measures. The growing impact of government decisions on the profits of a particular business and on price and income levels related to business actions such as inventory and investment policies which affect economic stability. Prerequisite: senior standing.

FBE 474. International Finance Management. 3 credit hours.

Role of commercial and central banks in various nations of the world; special emphasis on the methods by which these banks finance the international flow of goods, services, and investment. Instruments of foreign exchange, setting of exchange rates, and national and international institutions which participate in the world wide flow of funds and goods. Prerequisite: FBE 322, or Ec 440.

FBE 480. Problems in Financial Management. 3 credit hours.

Analysis of selected problems in financial management of the firm, including short- and long-term financial requirements, trade credit analysis, special media of finance, capital budgeting, and profit analysis. Research project and analysis of cases. Prerequisite: FBE 322.

Upper-Division Courses Carrying Graduate Credit

FBE 440. Real Estate Finance. (G) 3 credit hours.

Role of mortgage lending in our economy; organization and operation of public and private lending agencies in the residential and commercial real estate markets; installment land contracts and trust deeds; legal aspects of real estate lending. Prerequisite: FBE 341, or consent of instructor.

FBE 442. Real Estate Environmental Analysis. (G) 3 credit hours.

Analysis of factors and situations affecting the development and utilization of real property on an extensive scale. Emphasis is on problems and issues created by current land-use practices. Effective policy-making for guiding and controlling land utilization is considered relative to public and private goals and objectives. Prerequisite: FBE 341.

FBE 444. Real Property Development. (G) 3 credit hours.

The process of residential property development; property development considered in terms of market analysis, site selection, land-use planning, arranging for utilities and services, financing and budgeting, public and private legal controls. Prerequisite: FBE 341.

FBE 455. Business Insurance and Risk Management. (G) 3 credit hours.

Management of insurable risks in the firm from the viewpoint of the finance manager and the business consumer of insurance. Analysis of methods of reducing business risks; financial impact on profits of risk and risk handling methods; major contracts of insurance; company and agent selection; placement of problem risks; loss adjustment. Prerequisite: FBE 354, FBE 322.

FBE 456. Life and Health Insurance. (G) 3 credit hours.

Management by the firm of risk exposures involving life and health of persons in the firm. Financial impact of risk-handling methods treating business continuation, key-man protection and employee fringe benefits. Analysis of life, health, and annuity insurance valuation methods and contracts; group insurance, pensions, estate planning, trusts and taxation. Prerequisite: FBE 354, FBE 322.

FBE 457. Special Topics in Risk and Insurance. (G) 3 credit hours.

Analysis of advanced topics in risk and insurance management in the firm including the large deductible decision, self-insurance, surplus lines and specialty markets, catastrophe exposures, international insurance, selection of insurers, taxation, and regulation problems. Prerequisite: FBE 455 or FBE 456.

FBE 458. Social Insurance. (G) 3 credit hours.

Analysis of major social insurance programs. Emphasis on basic issues of benefit levels, financing methods, alternative proposals for change, and international comparisons. Prerequisite: FBE 354, with FBE 323 recommended.

Marketing, Transportation, and Business Environment

Faculty

Department Head, Donald S. Tull, Ph.D., Professor of Marketing (marketing research). B.S., 1948, M.B.A., 1949, Ph.D., 1956, Chicago; at Oregon since 1967. (On sabbatical leave, winter, spring 1973-74.)

Gerald S. Albaum, Ph.D., Professor of Marketing (marketing research and analysis; international marketing). B.A., 1954, M.B.A., 1958, Washington; Ph.D., Wisconsin, 1962; at Oregon since 1969.

Roman R. Andrus, Ph.D., Professor of Marketing (marketing information systems; creativity and the computer). B.S., 1958, M.S., 1959, Brigham Young; Ph.D., Columbia, 1965; at Oregon since 1966.

Newel H. Comish, Ph.D., Professor Emeritus of Business Administration. B.S., 1911, M.S., 1915, Utah State; Ph.D., Wisconsin; at Oregon since 1932.

A. Richard Grant, LL.B., Assistant Professor of Business Law (general business law; regulatory law; consumer law). B.B.A., Portland, 1960; M.B.A., Northwestern, 1961; LL.B., Willamette, 1964; at Oregon since 1968.

Delbert I. Hawkins, Ph.D., Associate Professor of Marketing (consumer behavior). B.B.A., 1966, M.B.A., 1967, Ph.D., 1969, Texas; at Oregon since 1970.

Alfred L. Lomax, M.A., Professor Emeritus of Business Administration (Pacific Northwest industrial history). B.B.A., Oregon, 1923; M.A., Pennsylvania, 1927; at Oregon since 1919.

Stuart U. Rich, D.B.A., Professor of Industrial Marketing; Director, Forest Industries Management Center. B.A., 1942, M.B.A., 1950, Wabash; D.B.A., Harvard, 1960; at Oregon since 1963.

W. Dwaine Richins, Ph.D., Associate Professor of Business Economics (business philosophy; business ethics; business environment). B.A., Brigham Young, 1936; M.B.A., Louisiana State, 1938; Ph.D., Washington, 1950; at Oregon since 1949. (On sabbatical leave, spring 1973.)

William J. Robert, LL.M., Professor of Business Law (international law). B.A., 1939, LL.B., 1941, Oregon; LL.M., New York University, 1957; at Oregon since 1950.

Lawrence W. Ross, Jr., J.D., Associate Professor of Business Law (legal philosophy). A.B., 1949, M.A., 1949, Syracuse; J.D., Chicago, 1952; at Oregon since 1963.

Roy J. Sampson, Ph.D., Professor of Transportation (transportation and public utility economics, management and policy). B.S., 1946, M.B.A., 1948, Tennessee Polytechnic; Ph.D., California, 1951; at Oregon since 1959.

Norman R. Smith, Ph.D., Associate Professor of Marketing (consumer behavior; marketing communications). B.A., 1948, M.A., 1957, Alberta; Ph.D., Michigan State, 1965; at Oregon since 1962.

Harold K. Strom, Ph.D., Associate Professor of Transportation; Director, Transport and Logistics Research Center and Center for International Business Studies (transportation and business logistics). B.A., 1957, M.B.A., 1958, Washington; Ph.D., California at Los Angeles, 1964; at Oregon since 1965. (On sabbatical leave, 1973-74.)

John R. Wish, Ph.D., Associate Professor of Marketing, Director, Consumer Research Center (consumerism; alternative futures). B.S., 1956, M.B.A., 1962, Ohio State; Ph.D., Michigan State, 1967; at Oregon since 1966. (On sabbatical leave, 1973-74.)

THE educational objectives of the Department of Marketing, Transportation, and Business Environment are: (1) to develop the student's understanding of the environment in which the firm operates; (2) to give the student an understanding of the interrelationships of marketing and transportation, with the other areas of operation of the firm; (3) to provide the student with the opportunity to apply the functions of management and to obtain experience in decision-making in the areas of marketing, transportation, or international business; and (4) to enable the student to develop a capacity for research and scientific analysis of basic problems in these areas.

The department offers major options in marketing, transportation, business environment, and international business.

Marketing. The option in marketing is designed to provide preparation for careers in the complex of functions relating the producer and the consumer. There are opportunities for student emphasis on marketing management, marketing research, consumer behavior, and foreign marketing. Special attention is given to the contributions of the behavioral sciences and of quantitative methods to the study of marketing. The program includes detailed study of the application of principles of management analysis to marketing problems.

Students majoring in marketing are strongly encouraged to satisfy the College of Business behavioral-science course requirement by taking at least two courses in one field (psychology, sociology, or anthropology).

The major requirements, in addition to the above and the general business requirements of the school, total 21 credit hours, distributed as follows: Analysis of Consumer Behavior (MKT 361) 3 credit hours; Marketing Research (MKT 460) 3 credit hours; Marketing Analysis I (MKT 463) 3 credit hours; Elementary Inference in Business Statistics (QM 333) 3 credit hours; a minimum of 9 credit hours of the electives listed below.

At least one of the selected elective courses must be either MKT 464, MKT 469, or MKT 470; Retail Administration (MKT 365); Seminars in Marketing (MKT 407); Marketing Communications (MKT 462); Marketing Analysis II (MKT 464); Industrial Marketing (MKT 469); Cases in Forest Industries Management (MKT 470); International Marketing Management (MKT 475); Business Logistics (TRN 350) (3 credit hours, each course).

Transportation and Business Logistics. This option is designed to prepare students for careers with transportation or utility companies, for traffic or physical distribution (logistics), positions with industrial or commercial firms or trade associations, and for government positions with regulatory or logistics agencies or publicly-owned utilities. The major requirements, in addition to the general business requirements of the school, total 15 credit hours, distributed as follows (3 credit hours, each course): Transportation and Distribution Systems (TRN 349); Business Logistics (TRN 350); International Transportation (TRN 351); Transportation Administrative Law (TRN 451); one of the fol-

lowing courses: Transportation Organization and Management (TRN 452); Public Utility Management (TRN 455); Economics of Regulated Industries (Ec 463).

Business Environment. The business environment curriculum is designed to enable the student to gain a perspective of the administrative decision-making process, and an understanding of the relationships between the business firm and the economic, legal, social, ethical, and political environment in which it functions.

The major requirements, in addition to the general business requirements of the school, total 24 credit hours, as follows: Financial Institutions (FBE 321) 3 credit hours; Legal Aspects of Business Regulation (BE 420) 3 credit hours; Business Enterprise and Social Responsibility (BE 425) 3 credit hours; Business Fluctuations and Planning (FBE 466) 3 credit hours; Business Policies (MGT 453) 3 credit hours; minimum of 9 credit hours from the electives listed below.

Electives: Consumer Problems of the Poor (BE 339) 3 credit hours; Practicum: Consumer Problems of the Poor (BE 409) 5-15 credit hours; Analysis of Consumer Behavior (MKT 361) 3 credit hours; Democratic Institutions (PS 456) 3 credit hours; Cases in Forest Industries Management (MKT 470) 3 credit hours; Taxation and Business Policy (FBE 323) 3 credit hours; Business History (MGT 480) 3 credit hours; Seminar: Small Business Administration (FBE 407) 3 credit hours; Seminar: Business Internship (BE 407) 3 credit hours; strongly recommended: Elementary Inference in Business Statistics (QM 333) 3 credit hours.

International Business. The option in international business is designed to increase the depth and breadth of students perspective in the field of business administration by exposing them to international problems confronting the business community both at home and abroad. In addition to the general business requirements, the students must meet the following requirements, a total of 18 credit hours: International Finance Management (FBE 474) 3 credit hours; International Marketing Management (MKT 475) 3 credit hours; Case Problems in International Business (MKT 476) 3 credit hours; either of the following courses: Seminar: Foreign Commercial Law (BE 407), or International Transportation and Distribution Management (TRN 351) 3 credit hours; a minimum of 6 credit hours from any one of the following: International Economics (Ec 440, 441, 442), or upper-division courses in political science, political and economic geography, sociology or cultural anthropology.

The student is strongly advised to attain second-year level of competence in a modern foreign language. Minimum language competence is a requirement for graduate study in international business.

Marketing

MKT 311. Marketing Systems and Demand Analysis. 3 credit hours.

Dynamics of demand; economic and behavioral approaches to analysis of demand; purchase motivations—consumer versus industrial; flows of goods and services; nature of marketing institutions. Prerequisite: completion of conceptual tools core, or consent of instructor.

MKT 361. Analysis of Consumer Behavior. 3 credit hours.

Consumer-firm relationship analyzed through the application

of concepts drawn from contemporary behavioral science to concrete business cases and practices. Relevant concepts from fields of cultural anthropology, sociology, and psychology applied to problems encountered in marketing to various consumer groups. MKT 311 recommended.

MKT 365. Retail Administration. 3 credit hours.

Structure of retailing; efficiency in the retail sector; organizing the firm; management of price and nonprice competition; space allocation and stock control; management science and retailing; retailing and the future. Prerequisite: MKT 311.

MKT 401. Research.

Credit hours to be arranged.

MKT 403. Thesis.

Credit hours to be arranged.

MKT 405. Reading and Conference.

Credit hours to be arranged.

MKT 407. Seminar.

Credit hours to be arranged.

Current Problems in Marketing.

Product Innovation.

Marketing Information Systems.

Marketing and Corporate Responsibility.

Entrepreneurship.

Public Interest Marketing.

MKT 409. Practicum.

Credit hours to be arranged.

MKT 460. Marketing Research. 3 credit hours.

Influence of marketing research on the decision-making process; effect on the executive who must use it; uses and misuses. Emphasis on the cost versus the value of information for decision-making. Problem formulation, exploratory research, research design, basic observational and sampling requirements, data analysis, interpretation, and reporting. Research projects conducted on actual marketing problems. Prerequisite: QM 333, MKT 311, or consent of instructor.

MKT 462. Marketing Communications. 3 credit hours.

Problems of marketing to consumers considered as problems in communication; advertising and sales promotion as formal channels of communication; economics of advertising and sales promotion; marketing communications as they relate to the public and to public policy. MKT 311 and MKT 361 recommended.

MKT 463. Marketing Analysis I. 3 credit hours.

Analytical methods, tools and models for marketing decision-making, with emphasis on the major elements of the marketing mix. Prerequisite: MKT 460, or consent of instructor.

MKT 464. Marketing Analysis II. 3 credit hours.

Solution of marketing problems. Practicum approach utilizing case studies, simulations and projects. Prerequisite: MKT 463, or consent of instructor.

MKT 469. Industrial Marketing. 3 credit hours.

The marketing problems of manufacturers of industrial goods, such as machinery and equipment, raw and semi-fabricated materials, industrial supplies, and component parts; special marketing problems of companies in the defense industry. Prerequisite: MKT 311.

MKT 470. Cases in Forest Industries Management. 3 credit hours.

General management problems in the forest products industries

—lumber, plywood, pulp and paper, construction, and housing; marketing, production, finance, control, human relations; major emphasis on marketing problems. Cases, supplemented by field trips.

Upper-Division Courses Carrying Graduate Credit

MKT 475. International Marketing Management. (G) 3 credit hours.

Study of marketing methods in the international environment. Prerequisite: MKT 311, or consent of instructor.

MKT 476. Case Problems in International Business. (G) 3 credit hours.

Determinants of foreign business decision making in light of case studies; operation versus licensing; control versus joint venture; problems of taxation, labor, and marketing; partners-in-progress approach; skill formation, managerial training, cooperation with national planning authorities, public development banks and industrial corporations; emphasis throughout upon the individual business unit. Prerequisite: MKT 475.

Transportation

TRN 349. Transportation and Distribution Systems. 3 credit hours.

Principles and practices of transportation and its role in the distribution process. The physical transportation plant of the United States and its performance; carrier responsibilities, services, and cooperation; economic and legal bases of rates, freight classification and tariffs; relationships between transportation and the location of economic activity; public policies regarding regulation, unification, labor-management relations, promotion, and similar transportation problems.

TRN 350. Business Logistics. 3 credit hours.

Problem of purchasing transportation services, selecting transportation alternatives, and planning the physical distribution system of the firm. Includes a consideration of rate structures, shipper's rights in law, relationship of physical distribution to the marketing function and to the production function, inventory management and control, plant location and warehousing.

TRN 351. International Transportation and Distribution Management. 3 credit hours.

Role of the United States and world ocean and air transportation in international trade and development. Physical facilities; basic laws, policies, and associations affecting carrier and shipper operations; problems of international and intercarrier cooperation; principal trade routes and commodity flows; packaging, documentation, rates, and charters; marine and air cargo insurance; land-based supporting organizations, including terminal operations and connecting foreign land transportation systems. Emphasis on use of international transportation in export and import activities.

TRN 401. Research.

Credit hours to be arranged.

TRN 403. Thesis.

Credit hours to be arranged.

TRN 405. Reading and Conference.

Credit hours to be arranged.

TRN 407. Seminar.

Credit hours to be arranged.

TRN 409. Practicum.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

TRN 451. Transportation Administrative Law. (G) 3 credit hours.

Historical background and present status of state and federal transport regulation, with particular attention to the Interstate Commerce Act and other pertinent federal and state statutes. The organization and procedure of transport regulatory agencies, and the rules of practice before such bodies. Prerequisite: TRN 349, or TRN 350, or Ec 463, or consent of instructor.

TRN 452. Transportation Organization and Management. (G) 3 credit hours.

Carrier organization and management problems. Operational, personnel, financial, pricing, marketing, and related practices as influenced by competition and governmental policies. In addition to classroom work, students make a detailed study of a type of carrier or carrier problem related to their specific career interests. Prerequisite: TRN 349, or TRN 351, or consent of instructor.

TRN 455. Public Utility Management. (G) 3 credit hours.

Review of historical and present regulatory laws, agencies, and procedures; problems and policies of municipal, state, and federal ownership; management of various kinds of privately owned utility firms (electric, gas, communications). Organizational structures, price policies, marketing of services, short- and long-range planning, public relations. Particular emphasis on problems affecting the Pacific Northwest.

Business Environment

BE 125. Environment of Business. 3 credit hours.

Role and responsibilities of business in society; influence of the historical, social, political, and economic environments within which business operates; adjustment to changes in these environments; interrelationships of major functional areas of business. Not open to upper-division majors in business.

BE 199. Special Studies: Marketing and Corporate Responsibility. 2 credit hours.

An examination of corporate entities in relation to the consumer environment. Each student will develop individual proposal for conducting a study of an important consumer-environment problem. Final assignment will be a paper on the study.

BE 226. Introduction to Law. 3 credit hours.

Forms and functions of the law in society. Examination of the American legal environment: structure of the courts; trial and appellate procedure; origin of rules; methods of legal reasoning; roles of trial participants. Emphasis on the law of con-

tracts, including appropriate references to the Uniform Commercial Code. Prerequisite: sophomore standing.

BE 326. Law of Business Organization. 3 credit hours.

The law of agency; the master-servant relationship, including elementary labor law; the law of business organizations, including corporations, partnerships, and other forms of business association; applications of the Uniform Commercial Code to investment securities. Prerequisite: BE 226.

BE 339. Consumer Problems of the Poor. 3 credit hours.

Problems of Portland's urban population. Field research preparation for work in Portland spring term. Class discussions, lectures, group discussions, and films.

BE 401. Research.

Credit hours to be arranged.

BE 403. Thesis.

Credit hours to be arranged.

BE 405. Reading and Conference.

Credit hours to be arranged.

BE 407. Seminar.

Credit hours to be arranged.
Foreign Commercial Law.
Business Internship.

BE 409. Practicum: Consumer Problems of the Poor. 5-15 credit hours.

Problems of Portland's urban population. A continuation of BE 339, taught in Portland. Course work is project-oriented and based on field experience. In consultation with the instructor, students arrange their own living conditions on site. During the term in which students are enrolled in this course they are restricted to a total course load of 15 hours of credit. Prerequisite: BE 339, and a written invitation from an organization.

BE 418. Law of Business Transactions. 3 credit hours.

Study of the several fields of law related to business: negotiable instruments; sales of personal property; security devices for credit transactions. Prerequisite: BE 226.

BE 420. Legal Aspects of Business Regulation. 3 credit hours.

Study of the broad aspects of governmental regulation of business and constitutional limitations upon such regulation. Particular treatment is given to the law of administrative agencies and to some specific areas of regulation, including business combinations and pricing policies. Prerequisite: BE 226.

BE 425. Business Enterprise and Social Responsibility. 3 credit hours.

Analysis of specific management policies as they relate to social objectives; patterns of governmental regulations; political activities of trade associations and other special-interest groups; relation of the growth of corporate enterprise to public policy and to the responsibilities of business management. Prerequisite: senior standing.

Management

Faculty

Department Head, Kenneth D. Ramsing, D.B.A., Associate Professor of Management (management, operations research). B.S., Oregon State, 1960; M.B.A., 1962, D.B.A., 1965, Oregon; at Oregon since 1962.

Edwin F. Beal, Ph.D., Professor of Management (personnel, industrial relations). B.A., Ohio Wesleyan, 1931; M.S., 1951, Ph.D., 1953, Cornell; at Oregon since 1959. (On sabbatical leave, fall and winter, 1973-74.)

Warren B. Brown, Ph.D., Professor of Management (organization theory, management). B.S., Colorado, 1955; M.S., Stanford, 1957; M.S., 1959, Ph.D., 1962, Carnegie Institute of Technology; at Oregon since 1967. (On sabbatical leave, 1973-74.)

Eaton H. Conant, Ph.D., Professor of Management; Director, Institute of Industrial and Labor Relations (industrial relations, labor economics). B.S., 1956, M.S., 1958, Ph.D., 1960, Wisconsin; at Oregon since 1966.

Alan L. Eliason, Ph.D., Assistant Professor of Management (operations management, systems analysis). B.M.E., 1962, M.B.A., 1965, Ph.D., 1970, Minnesota; at Oregon since 1970.

Peter Feuille, B.A., Visiting Assistant Professor of Management; Research Associate, Institute of Industrial and Labor Relations (industrial relations, organizational behavior). B.A., Claremont Men's College, 1967; at Oregon since 1972.

Catherine M. Jones, Ed.D., Associate Professor of Management (business education, office management). B.A., Iowa State Teachers, 1937; M.S., Oregon, 1945; M.Bus.Ed., 1952, Ed.D., 1964, Colorado; at Oregon since 1946.

James L. Koch, Ph.D., Assistant Professor of Management; research Associate, Institute of Industrial and Labor Relations (industrial relations, human resources management). B.A., San Francisco State, 1966; M.B.A., 1968, Ph.D., 1972, California at Los Angeles; at Oregon since 1971.

Dennis J. Moberg, M.B.A., Visiting Assistant Professor of Management (organization theory, human behavior). B.S., Wisconsin, 1966; M.B.A., South Dakota, 1968; at Oregon since 1973.

H. Charles Pyron, Ph.D., Associate Professor of Management (behavioral science, organizational development). B.A., 1959, M.A., 1960, Redlands; Ph.D., Purdue, 1963; at Oregon since 1965.

Frederick J. Seubert, Ph.D., Associate Professor of Management (human resources management, business policy). B.A., Baldwin-Wallace, 1942; B.M.E., Florida, 1946; M.B.A., Pennsylvania, 1947; Ph.D., Cornell, 1954; at Oregon since 1957.

Leslie L. D. Shaffer, Ph.D., Associate Professor of Management (small business management, innovation in business). B.A., California, 1935; M.S., 1960, Ph.D., 1962, Illinois; at Oregon since 1965.

Stanley C. Vance, Ph.D., H. T. Miner Professor of Business Administration (corporate governance). B.A., St. Charles, 1937; M.A., 1944, Ph.D., 1950, Pennsylvania; at Oregon since 1960. (On sabbatical leave, 1973-74.)

Myra T. Willard, B.A., Senior Instructor of Management, University Affirmative Action Officer (affirmative action implementation in management). B.A., Immaculate Heart, 1953; at Oregon since 1973.

Graduate Teaching Fellows

James S. Blandin (organization and management, systems analysis). B.A., California, Santa Barbara, 1968; M.B.A., Oregon, 1972; at Oregon since 1972.

Colin L. Fox, Jr. (organizational behavior). B.A., Washington, 1967; M.S., Oregon, 1973; at Oregon since 1972.

Cuthbert L. Scott, III (organizational behavior and development).

B.A., 1968; M.S., 1970, Southern Illinois; at Oregon since 1970.

Ralph M. Stair, Jr. (operations management). B.S., Purdue, 1967; M.B.A., Tulane, 1969; at Oregon since 1972.

John W. Thompson (behavioral science). B.S., 1969, M.B.A., 1972, Utah State; at Oregon since 1972.

THE Department of Management offers a variety of courses and programs designed to prepare men and women for careers involving managerial responsibility in public and private organizations. There are two undergraduate options, Administrative Studies, and Manpower and Human Resources.

Administrative Studies. This option focuses on the administrative, organizational, and policy problems of business managers. The courses range from technical to behavioral, but center on practical management issues. There is opportunity to study both specialized problems and those broad concerns dealing with the integration of several specific areas. The major requirements, in addition to the general business requirements of the school, total 24 credit hours, as follows: Operations and Systems (MGT 329) 3 credit hours; Seminar: Organization and Management (MGT 407) 3 credit hours; Human Resources Management (MGT 412) 3 credit hours; Organizational Behavior (MGT 416) 3 credit hours; Management Decision Simulation (MGT 450) 3 credit hours; Development of Management Thought (MGT 480) 3 credit hours; at least two additional courses in the Management Department, 6 credit hours.

Manpower and Human Resources. This option focuses on manpower issues in organizations, and is designed to prepare students for management careers in personnel, human resources, and labor relations in business, government, and labor organizations. The major requirements, in addition to the general business requirements of the school, total 24 credit hours, as follows: Operations and Systems (MGT 329) 3 credit hours; Human Resources Management (MGT 412) 3 credit hours; Compensation Policies (MGT 413) 3 credit hours; Employment Policies and Practices (MGT 414) 3 credit hours; Psychology and Human Resources (MGT 415) 3 credit hours; Management Decision Simulation (MGT 450) 3 credit hours; at least two additional courses in the Management Department, 6 credit hours.

MGT 199. Special Studies: Business Communications. 3 credit hours.

The emphasis will be on written communications that are "people-oriented." The important role that the reader plays in written letters, memos, and reports will be stressed.

MGT 199. Special Studies: Introduction to Management. 3 credit hours.

Study of management activity focusing on the functions of the manager, and the underlying knowledge and techniques available.

MGT 223. Business Machines. 2 credit hours.

Study of ten-key and full-key adding machine and various electronic calculating machines; development of operating skills; practical applications to business procedures.

MGT 321. Interpersonal Relations. 3 credit hours.

Design of organizations and their impact on work groups and

individual behavior. Topics include interpersonal relations, communication, leadership, and individual motivation.

MGT 329. Operations and Systems. 3 credit hours.

Systems concept adapted to administration and operations, with emphasis on planning and control. Systems study includes input-output analysis and quantitative modeling. Cost, inventory, quality, and other topics are integrated following a systems methodology. The process of management is discussed as it affects operations. Emphasis on principles and relationships rather than specific techniques. Prerequisite: Junior standing.

MGT 333. Office Organization and Management. 2 credit hours.

Management and organization of the office, with special attention to the scientific approach to analysis and control; functional office layout and equipment; selection, training, and supervision of office personnel; place of automation in the office; planning, organizing, and controlling office services, such as correspondence, records management, communications. Prerequisite: junior standing.

MGT 401. Research.

Credit hours to be arranged.

MGT 403. Thesis.

Credit hours to be arranged.

MGT 405. Reading and Conference.

Credit hours to be arranged.

MGT 407. Seminar.

Credit hours to be arranged.

Applied Innovations.

Collective Bargaining.

Computers in Business.

Contemporary Management.

Corporations and Public Policy

Industrial Relations in Public Sector.

Interpersonal Relations Laboratory.

Labor-Management Relations.

Linear Programming.

Organization and Management.

Personnel Administration.

Small Business Management.

Socio-Technical Controls.

Systems Analysis.

Women in Business.

MGT 409. Practicum.

Credit hours to be arranged.

MGT 415. Psychology and Human Resources. 3 credit hours.

Review of research in application of psychological principles to selection, evaluation, and training of human resources. Socio-technical concerns in job design, occupational safety, mental health, and morale and attitude measurement. Special analysis of psychometric methods and tests used in human resources management. Prerequisite: PIM 321 and PIM 412, or consent of instructor.

MGT 416. Organizational Behavior. 3 credit hours.

This course studies individual behavior within organizations, emphasizing areas of conflict. Organizations covered include education, government and military as well as business, though the majority are drawn from business.

MGT 428. Operations Research Techniques. 3 credit hours.

Application of scientific techniques to the solution of complex business problems through the quantitative comparison of al-

ternatives; linear programming, opportunity cost analysis, expected value analysis, decision-making processes.

MGT 430. Problems in Operations Management. 3 credit hours.

Methods of analysis for problems in operations management, designed to allow students practice in formulating and solving operational problems. Use of quantitative and qualitative tools and skills are required. Case studies or simulated modeling environments describe operational settings. Prerequisite: MGT 329, and senior standing.

MGT 444. Management and Innovation. 3 credit hours.

Study of the creative process as it applies to business decision-making; the techniques available for generating and improving ideas. The process of technological innovation and the problems involved in supervising and encouraging creative individuals. The patent system is introduced. Practice is provided in developing new solutions to business problems.

MGT 450. Management Decision Simulation. 3 credit hours.

Operational game; students formulate strategies, make management decisions in production, marketing, finance. Five-year simulation of companies. Laboratory, lectures, discussion.

MGT 453. Business Policies. 3 credit hours.

Interdependence of the different departments of a business concern. Designed to provide an integrated view of business operations, and to provide the student with a basic grasp of policy problems in several industries. Prerequisite: senior standing.

Upper-Division Courses Carrying Graduate Credit

MGT 412. Human Resources Management. (G) 3 credit hours.

Management of relations between an organization and its personnel; building and maintaining a productive work force and providing job satisfaction and career opportunity; integration of functions related to personnel with operations: substantive issues in human resources management.

MGT 413. Wage and Salary Administration. (G) 3 credit hours.

Development of wage and salary policies which contribute to motivation and control in organizations. Behavioral science and economic foundations of compensation. Institutional setting—collective bargaining, labor markets, and government regulations. Operating tools—job analysis, job evaluation, and wage and salary surveys. Evaluation of wage incentives and management compensation. Prerequisite: MGT 412, or consent of instructor.

MGT 414. Employment Policies and Practices. (G) 3 credit hours.

Evaluation of problems arising in the employment relationship. Policy determination, with special emphasis on integrative solutions in collective bargaining and conflict resolution. Contemporary policy concerns: affirmative action, training for sequential careers; planning; job design; values and organizational commitment. Case analysis. Prerequisite: MGT 412, or consent of instructor.

MGT 429. Operations Planning and Control. (G) 3 credit hours.

The study of planning and control of manpower, materials,

costs, and information into, through, and out of the operational division of an organization. Prerequisite: MGT 329.

MGT 440. Methods-Time Analysis. (G) 3 credit hours.

Theory and techniques of work measurement systems; emphasis on the human factor and on cooperative activity among various divisions of the enterprise.

MGT 480. Development of Management Thought. (G) 3 credit hours.

Evolving business operations and management thought in the changing American business and social environment since the colonial period; study of business firms and businessmen at critical times in their development; analysis of theories of management as applied to individual business firms.



Graduate School of Management and Business

THE Graduate School of Management and Business provides: a basic professional business program for entering students who have little or no undergraduate work in business administration; advanced work in general management and in business specialties for students who have completed an undergraduate major in business administration; and preparation for careers in college teaching and research.

Graduate degree programs are offered at both the master and doctoral level. The Graduate School of Management and Business coordinates the graduate work of the four departments of the College of Business Administration.

Instruction at the graduate level is offered in the fields of specialization as follows: Accounting, Business Economics, Finance, Forest Industries Management, Human Resources Management, International Business, Management Science, Marketing, Organization and Management, Operations and Systems, Quantitative Methods, Real Estate, Transportation and Logistics. In all fields, instruction in the college is supported by courses in cognate fields offered by other divisions of the University.

The graduate program is accredited by the American Assembly of Collegiate Schools of Business.

Information concerning financial aid available to graduate students may be obtained from the Student Information Office, Room 272, Commonwealth Hall.

Master Programs

Two-year programs leading to the Master of Business Administration, Master of Science, or Master of Arts degrees are offered. For students entering with little or no undergraduate work in business, a total of 83 credit hours of work is required, including a 38-hour preliminary core. All or part of the preliminary core may be waived for those who have had equivalent work. An average course load for graduate students is 12 credit hours per term.

Admission. Students must satisfy the general admission requirements of the Graduate School of the University, and must submit complete transcripts of all previous college level work, an acceptable score on the Admission Tests for Graduate Study in Business, a letter of purpose, and three letters of recommendation. Inquiries concerning the program and applications should be addressed directly to the Graduate School of Management and Business.

The Graduate School of Management and Business does not recognize post-baccalaureate status as constituting entry to its graduate-degree programs, nor as the basis for admission to graduate courses.

Preliminary Core Program. The first year of the master program includes a series of core courses required for students whose undergraduate studies have been in fields other than business administration. However, all or part of this requirement may be waived for students who have had equivalent instruction. The preliminary core consists of 38 credit hours: Accounting in Administration (Ac 511, 512) 6 credit hours; Statistics for Business Decisions (QM 511) 3 credit hours; Financial Environment (FBE 514) 3 credit hours; Financial Management (FBE 516) 3 credit hours; Legal Environment of Business (BE 517) 3 credit hours; Industrial Administration (MGT 511) 3 credit hours; Administration of the Marketing Function (MKT 511) 3 credit hours; Intermediate Economic Analysis (Ec 375, 376) 6 credit hours; Elements of Calculus (Mth 106) 4 credit hours; Introduction to Numerical Computation (CS 233 or CS 290) 4 credit hours.

Master of Business Administration. The program leading to the M.B.A. degree emphasizes the development of breadth of understanding of business problems and of general management skills; the program is especially adapted to the needs of students who have earned their bachelor degree in the social sciences, humanities, sciences, or engineering.

The requirements are: (1) completion of the preliminary core program or equivalent; (2) completion of a minimum total of 45 hours of graduate credit beyond the preliminary core, of which a minimum of 36 hours must be in courses exclusively for graduate students; (3) of the 45 credit hours, at least 27 must be in the College of Business Administration (including not more than 18 hours in a field of specialization). The remaining 18 hours may be devoted to either business courses or related areas outside the College of Business Administration. A thesis is not required; if the student elects to submit a thesis, 9 hours of thesis credit is counted as part of the 18 credit hours maximum in a field of specialization. Degree requirements within these general guidelines are further specified on a departmental basis.

All candidates for the M.B.A. degree are required to pass a final written comprehensive examination covering the field of specialization. A final oral examination is optional with the student's major department.

Although M.B.A. programs are generally intended to provide a broad background, a special M.B.A. program in accounting has been organized to provide intensive preparation for students who intend to enter professional accounting practice. This program is especially appropriate for students who have secured undergraduate degrees in fields outside business administration.

Master of Science or Master of Arts. The program leading to the M.S. or M.A. degree allows more specialization than the M.B.A. program, and is especially adapted to the needs of students interested in careers in accounting, quantitative methods and research, industrial management, and college teaching.

The requirements are: (1) completion of the preliminary core program or equivalent; (2) completion of a minimum total of 45 hours of graduate credit beyond the preliminary core program;

(3) within the 45 credit hours, a major in a field of specialization consisting of a maximum of 15 hours of course work and 9 hours for thesis; (4) within the 45 hours, a minor consisting of a minimum of 12 hours of course work in the College of Business Administration or in a cognate field; (5) of the 45 hours, the remaining 9 hours in business courses outside the field of specialization or in related areas outside the college. For the M.A. degree, competence in a foreign language is required. For the M.S. degree in business education, the thesis is not required.

Candidates for the M.S. or M.A. degree are required to pass a written comprehensive examination covering the major field of specialization. An oral examination on the thesis is optional with the student's major department.

Minor in Business Administration. A master candidate with a major in another field or in an interdisciplinary studies program may elect a minor in business administration. The minor is usually chosen from the business courses in the preliminary core. Minor programs must be reviewed by the school before course work is taken, and students taking a minor in business should, in general, meet standards required for admission to the school.

Interdepartmental Programs

Two special interdisciplinary programs are offered across departmental lines. These are Forest Industries Management and International Business.

Forest Industries Management. The program consists of 45 credit hours in addition to the preliminary core, 27 of which must be in the College of Business Administration. Of the 45, 18 credit hours are devoted to: Operations Research Application (MGT 520) 3 credit hours; Concepts in Linear Programming (MGT 522) 3 credit hours; Problems in Industrial Marketing (MKT 569) 3 credit hours; Problems in Forest Industries Management (MKT 570) 3 credit hours; Problems in Business Planning and Forecasting (FBE 530) or Problems in Business Finance (FBE 540) 3 credit hours; Managerial Financial Accounting Analysis (Ac 523) 3 credit hours.

The courses which make up the remaining 27 credit hours will vary with the student's undergraduate preparation in the general field of forestry, and they are selected with the guidance and approval of an interdepartmental committee. Courses suggested for fulfillment of this requirement are: Computers in Business (MGT 515); Operations Simulation (MGT 530); Human Resources Management (MGT 534); Marketing Research (MKT 560); Pricing Policies (MKT 566); Physical Distribution Management (TRN 550); Transportation Theory and Practice (TRN 549); Applied Analysis of Variance (QM 433G); Applied Regression Analysis (QM 434); Economy of the Pacific Northwest (Ec 418); International Economics (Ec 440G, 441G, 442G).

For students who have not already had equivalent instruction, the following additional courses are suggested (to be taken at the School of Forestry, Oregon State University in Corvallis, through joint campus registration): Forest Economics (F 434, 435); Forest Management (F 432, 433); Industrial Forestry (F 427); Multiple-Use Decisions (F 436).

In the courses listed above, the students are expected to write major term papers or case reports relating the content of the courses to problems and issues of the forest industries. Copies of these papers are to be furnished to the director of the Forest Industries Management Center at the time of submission to the course instructors.

International Business. Graduate work leading to the Master of Business Administration with a major in international business is another option offered. The program is broad in nature, and includes course work in: international business; a major functional area such as marketing, finance, management, or accounting; business organization and policy; quantitative methods; and an area outside the College of Business Administration which complements the student's work in the international field.

The student must demonstrate minimum competence in a modern language. Normally, this requirement may be met by taking a second-year language sequence or by examination at the second-year level of a language ability.

The objective of this program is to offer the student an opportunity to study the international dimensions of business to deepen personal understanding of the role played by business in the world economy. This is accomplished through case studies, field trips, special lectures, and research reports.

Doctoral Program

The Graduate School of Management and Business offers a program of advanced graduate study and research leading to the degree of Doctor of Philosophy in Business Administration, for students preparing for careers in college teaching and administration and for responsible research positions in business and government.

Admission. For admission to the doctoral program, the student must (1) satisfy the admission requirements of the Graduate School of the University, (2) either have completed the graduate work required for a master degree in business administration or be recommended by the departmental admission committee of the student's major department and have the approval of the Graduate School of Management and Business, and (3) show evidence of exceptional academic promise.

The Doctoral Advisory Committee. The student and a doctoral advisory committee plan the student's doctoral program. The advisory committee assists the student to work out a program consistent with the individual's background and objectives, evaluates the student's performance on a yearly basis, certifies completion of doctoral program requirements, and dismisses students who fail to maintain the standards of the doctoral program.

The advisory committee consists of at least three regular faculty members of the College of Business Administration. The committee is appointed by the head of the department in which the student is working. The student's adviser serves as chairman. The committee may or may not have an outside member, depending on the recommendation of the adviser and subsequent approval of the department head.

Degree Requirements. The student's program must meet the requirements of the Graduate School of the University, and the following requirements of the College of Business Administration:

- (1) Three years of work beyond the bachelor degree, with two years of continuous residence on the Eugene campus.
- (2) Completion of requirements in five areas of concentration as follows:
 - (a) A major area in the College of Business Administration. The student selects a major business field of concentration, and passes a written comprehensive examination in this field. The list of

majors is as follows: Accounting, Finance, Human Resources Management, Organization and Management, Marketing, Quantitative Methods, Transportation and Logistics.

Programs involving interdisciplinary research and faculty guidance are encouraged and can be accommodated within major areas.

(b) A minor area in the College of Business Administration. The student must demonstrate competence in a minor area of specialization in business. An area of business not selected elsewhere must be chosen.

The list of minor areas includes the major areas listed under 2(a) plus Business Economics, Business Environment, International Business, Management Science, Operations and Systems, Urban Land Economics.

The advisory committee sets area requirements and assists the student in selecting appropriate course work. The student may elect to show competence by passing a written comprehensive examination.

(c) An additional area of specialization. The student must demonstrate competence in an additional area of specialization in business or a related field. The student may select an area in business not previously selected, or may select an area outside the College of Business Administration. The advisory committee sets area requirements and assists the student in selecting appropriate course work. The student may elect to show competence by passing a written comprehensive examination.

(d) Economic theory. The student must be proficient in intermediate economic theory analysis and, in addition, must complete a specialized field in economics, represented by three graduate-level courses in one or more of the following areas: microeconomics (price and distribution theory), macroeconomics (income and employment theory), economic development, industrial organization and control, international economics, labor economics, money and credit, public finance, econometrics, mathematical economics, regional economics.

(e) Quantitative methods. The student must demonstrate competence in the quantitative methods area by passing the beginning master level course in quantitative methods, or the equivalent, plus three graduate-level courses in quantitative methods, or by passing the comprehensive examination in this area. The student who chooses quantitative methods as the major area must choose an additional area of specialization in business.

(3) The student must pass a written comprehensive examination in the major area of concentration, and may elect to take a comprehensive examination in economic theory. A written comprehensive examination in two of the remaining three areas of concentration must also be passed. The student must earn a grade of B or better in each course taken in any area of concentration in which a written comprehensive examination is not taken.

To be eligible to take the comprehensive examination, Graduate School policy requires the student to have taken substantially all the course work for the degree and satisfied substantially all other requirements except the completion of the thesis and the final oral examination.

The student must pass all written examinations within thirteen months of the date of the first examination. Comprehensive examinations are offered during fall and spring terms. Examinations during winter term and summer session must be arranged by agreement between the student and the faculty.

In the event of failure, a student may retake a comprehensive examination at the individual's option, after consultation with the advisory committee. This may be done during the term immediately following the initial examination, subject to the general

provision that additional examinations must be completed within eighteen months of the date of the first examination.

(4) The student is advanced to candidacy for the Ph.D. degree upon passing the comprehensive examinations and upon certification by the advisory committee, according to the regulations of the College of Business Administration and the Graduate School of the University.

(5) The student must complete a thesis presenting an original and major contribution to an understanding of the thesis subject. The student is responsible for formation of the dissertation committee, subject to the requirements of the College of Business Administration and the Graduate School of the University and must make an oral presentation of the proposed dissertation topic to the dissertation committee and the faculty.

When the proposed dissertation topic is accepted by the committee, a copy of the proposal and a written statement is placed in the candidate's record.

Each doctoral candidate must defend the completed dissertation in a public oral examination and disseminate the major findings of the dissertation in a public presentation.

(6) The student must maintain a cumulative GPA of 3.00 or higher.

(7) The student who has been approved for graduate study may not be dropped by the Graduate School of Management and Business before advancement to candidacy except by a majority vote of the student's advisory committee. A vote to drop the student from the Ph.D. degree program is taken under the following conditions: (a) failure to make satisfactory progress for advancement to candidacy as determined by the candidate's advisory committee; (b) failure to pass a comprehensive examination in two attempts; (c) a cumulative GPA below 3.00; (d) a GPA of less than 3.00 received in two consecutive terms; (e) a GPA of less than 3.00 for any three terms; (f) failure to complete the dissertation within three years after the student is advanced to candidacy; (g) at the request of the student; (h) any time a member of the student's advisory committee requests a vote in writing.

The date and the results of any vote to drop the student are included in the student's record and the student is notified in writing of the outcome.

Accounting

Upper-division courses carrying graduate credit appear on page 228.

Ac 501. Research.

Credit hours to be arranged. No-grade course.

Ac 503. Thesis.

Credit hours to be arranged. No-grade course.

Ac 507. Seminar.

Credit hours to be arranged.

Development of Accounting Thought.

Managerial Cost and Budget Analysis.

Ac 511, 512. Accounting in Administration. 3 credit hours.

Accelerated introduction to principles and procedures of accounting and the use of accounting data as a basis for business decisions; intensive survey of the data-creating process followed by study of asset valuation, income measurement, cost

analysis and control, and budgeting. Open only to graduate students who have not completed a college-level course in accounting.

Ac 523. Managerial and Financial Accounting Analysis. 3 credit hours.

An extension of ideas presented in Ac 511 and Ac 512. Designed for the nonaccounting major who wishes to expand knowledge of financial reports. Prerequisite: Ac 511 and Ac 512.

Ac 540. Administrative Control. 3 credit hours.

Descriptive cybernetics and the concept of control as a property of all organized behavior; control attitudes and practices in human organizations; traditional and emerging views of the role of control in administration; problems of performance measurement; military command and control systems; rudiments of information and communication theory; computer abuses; role of man in a controlled system; student papers usually theoretical and related to major fields.

Ac 542. Auditing Concepts. 3 credit hours.

Analysis of the problems encountered in examining and reporting on the financial statements of a business enterprise, verification standards, theory and application of sampling techniques, problems posed by data-processing machine systems, innovations in auditing concepts; selection, scope, and application of auditing procedures in the continued examination approach. Prerequisite: Ac 440.

Ac 552. Accounting Theory. 3 credit hours.

Examination of some of the elements of the conceptual framework underlying financial accounting reports, viewed in part as a postulate structure, in part as a series of decisions as to how and when changes in assets and liabilities will be recognized. Readings in accounting literature, study of some current controversial areas in financial accounting theory. Course content varies somewhat from year to year with changing interests of participants. Prerequisite: Ac 450.

Ac 562. Cost Analysis and Interpretation. 3 credit hours.

Theory of cost analysis and the problem of determining cost for various decision-making purposes; the function of the comptroller in management planning and control, marginal and differential costs, the joint-cost problem, direct costing, budgeting, intrafirm pricing and pricing policy. Readings in cost accounting literature and case studies. Prerequisite: Ac 460.

Quantitative Methods

QM 501. Research.

Credit hours to be arranged. No-grade course.

QM 503. Thesis.

Credit hours to be arranged. No-grade course.

QM 507. Seminar.

Credit hours to be arranged.

Dynamic Time-Dependent Processes.

Dynamic Systems.

Multivariate Methods.

QM 511. Statistics for Business Decisions. 3 credit hours.

Accelerated study of business statistics; decision-theory applications in business; probability estimation, hypothesis testing,

uses of subjective probability, introduction to regression analysis. Open only to graduate students who have not completed QM 232, QM 333 or equivalent. Prerequisite: one year of college mathematics.

QM 523. Dynamic Programming. 3 credit hours.

Systematic procedure for determining the combination of decisions which maximizes overall effectiveness. Optimization of inventory scheduling, distribution of effort problems, decision-making over an unbounded horizon, stochastic and probabilistic models are considered. Application of the models to real business problems is stressed. Prerequisite: QM 333 and CS 233; MGT 522 recommended.

QM 532. Analysis for Decision Under Uncertainty. 3 credit hours.

Systematic analysis of decisions involving uncertainty; diagramming the decision processes; quantification of subjective and intuitive information; incorporating utility and probability considerations into the decision model; combination of prior and sample information; simulation of the decision model. Prerequisite: one year of college mathematics; QM 232, QM 333, or equivalent.

QM 536. Applied Sampling Techniques. 3 credit hours.

Theory and application of probability sampling techniques to business problems. Topics: simple random sampling, stratified sampling, cluster sampling, systematic sampling, multistage sampling, double sampling, nonresponse problems, ratio and regression estimators. Prerequisite: QM 333.

Finance and Business Economics

Graduate programs in the Department of Finance and Business Economics are flexibly structured to fit the educational background, the needs, and the career objectives of students. Major programs in finance, real estate, and business economics may be developed in consultation with faculty advisers. Programs leading to either a Master of Business Administration or a Doctor of Philosophy degree are available.

Finance. Students who major in finance prepare themselves for management careers in business finance, financial institutions, investments, insurance, government budget and tax departments, and international finance. M.B.A. finance graduates are in positions of management in major financial centers and elsewhere throughout the nation and abroad. They are employed by large and small industrial firms, banks, investment firms, insurance organizations, and government agencies.

A career in financial management involves planning for the acquisition, allocation, and control of funds. Officers in financial institutions are responsible for acquiring funds and for lending and investing funds which are channeled to business, government, and consumers. A variety of careers are available in the investment and insurance industry. These involve portfolio and risk management, financial analysis, investment banking, and the marketing of various financial instruments and programs.

Beyond the preliminary core program, which is listed first of the groups below, an M.B.A. finance major selects from 12 to 18 credit hours of course work in finance which apply toward the required total of 45 credit hours. Each student ordinarily takes a minimum

of four courses from the advanced course list with at least one from each of the three paired groups.

Core. Introductory courses: Financial Environment (FBE 514), Financial Management (FBE 516), both courses strongly recommended if earlier work was more than three years ago; Concepts of Investments (FBE 552).

Recommended Advanced Finance Courses. Problems in Finance (FBE 540) or Theory of Finance (FBE 545) or both; Investment Analysis (FBE 565) or Investment Administration (FBE 566) or both; Commercial Banking and Monetary Policy (FBE 570) or Money Market (FBE 575) or both.

Suggested Electives. International Finance Management (FBE 507); Problems in Business Planning and Forecasting (FBE 530); International Finance (FBE 571); Management of Financial Institutions (FBE 580); Applied Regression Analysis (QM 434); Managerial and Financial Accounting Analysis (Ac 523).

A minimum of 12 and a maximum of 18 credit hours in the following courses are required for a finance major FBE 552, FBE 540, FBE 570, FBE 545, FBE 566, FBE 575, FBE 580. Credit hours in these courses beyond 18 will not be included in the 45 credit-hour group required for graduation.

Courses in business economics, insurance, real estate, accounting, computer science, economics, quantitative methods, and research methods are also suggested.

All majors are required to pass a comprehensive examination at the end of their course work. The examination is given twice each year, usually in the fall and spring terms. The examination tests on all the three areas of finance at the advanced level—business finance, investments, and financial institutions. Students are expected to place emphasis on one of these areas.

The program in real estate and urban land economics is designed to help the student develop ability to analyze and to make decisions relative to the development, valuation, financing, marketing, management of, and investment in real property. Considerable population and economic growth, changing technology, and new and better methods of analysis all indicate that real estate will be an outstanding area of opportunity in the coming decades for the properly prepared person.

Course offerings and requirements for a master degree in real estate are as follows:

Real estate courses, 12 to 18 credit hours. Required (3 credit each course) Seminar: Real Estate Environmental Analysis (FBE 507); Seminar: Real Estate Finance (FBE 507); Property Valuation (FBE 547); Real Estate Investment Analysis (FBE 549). Elective: Research (FBE 501); Thesis (FBE 503) 9 credit hours; Real Estate Economics (FBE 541) 3 credit hours; Seminar: Real Property Development (FBE 507) 3 credit hours; Seminar: Real Estate Law (FBE 507) 3 credit hours.

Electives, 27-36 credit hours. College of Business, 15-30 credit hours: in addition to hours required in the real estate major, the candidate for the M.B.A. degree must complete a minimum of 15 hours in graduate level courses representing at least one course in each of the following fields: Accounting, Finance, Marketing, Management, and Quantitative Methods. The remaining electives may be taken either in or outside of the college.

Suggested electives outside the College of Business, maximum 18 credit hours: Economy of the Pacific Northwest (Ec 418); Regional Economic Analysis (Ec 514, 515, 516); Economic Geography (Geog 434); Urban Geography (Geog 435, 436); Land

Use (Geog 507); Community Politics (PS 490, 491); Political Decision-Making (PS 492-493); Urbanization and the City (Soc 442); Theory of Organization (Soc 541); Power and Influence in Community and Society (Soc 542); Survey of Urban Planning (UP 350); Planning Theory (UP 515); Housing and Urban Renewal (UP 555).

Business economics as a profession has expanded in recent years as business men have become aware of the merits of applied economics as a tool for analyzing business problems and formulating business policies. Business economists perform a wide variety of tasks in various business and government organizations. They may be involved in preparing short- and long-term economic forecasts of prices, property values, interest rates, industrial production and other economic variables and showing what implications these may have for an individual firm or government agency decision as to purchasing, production, marketing, finance, and labor policy. Or, they may be deeply involved in internal operations of a firm. They may be required to apply their knowledge of economic and business principles to such problems as the optimum size of inventory holdings, the product price policy the firm should follow, or the best location of a new plant.

A business economist should possess a broad knowledge of many areas of economics and business. These should include economic theory, accounting, finance, marketing, managerial economics, business forecasting, statistics, mathematics, and public policy toward business. The M.B.A. in business economics at the University of Oregon is designed to provide the student with such a background; therefore, the program includes only a small number of required courses. The remaining courses may be selected from a wide range of elective courses. This allows the student a substantial choice in formulating a program that best meets individual needs and interests. The required courses are as follows: Managerial Economics (FBE 525); Problems in Business Planning (FBE 530); Applied Regression Analysis (QM 434); and three credits from the following: Business Tax Policy (FBE 528); Seminar: Advanced Topics in Business Economics (FBE 507); Seminar: Industrial Organization and Public Policy (FBE 507).

An additional 15 credit hours should be taken from this list of recommended courses: Methods of Business Research (FBE 520); Theory of Finance (FBE 545); Commercial Banking and Monetary Policy (FBE 570); International Finance and Investments (FBE 571); The Money Market (FBE 575); Theory of Business Organization (MGT 541); Seminar: Operation Research Applications (MGT 507); Applied Analysis of Variance (QM 433); Analysis for Decision Under Uncertainty (QM 532); Public Utility Management (TRN 455); Transportation Policies (TRN 551); Marketing Problems and Policies (MKT 565); Seminar: Market Research (MKT 507); Administrative Control (Ac 540); Managerial and Financial Accounting Analysis (Ac 523); Seminar: Legal Aspects of Business Regulation (BE 507); Econometrics (Ec 493, 494, 495).

The remaining number of units to meet the 45-credit-hour requirement may be selected from courses not taken from the lists above or from other graduate courses offered in the Graduate School of Management and Business. The student may take only 9 credits in courses with either a (g) or (G), and 18 credits outside the College of Business Administration that may be counted toward the 45-credit-hour requirement.

The Ph.D. Program in Finance prepares a student for college teaching, research, or financial advising in industry. The program builds on the M.B.A. foundation. Additional courses in both finance and related areas are included to increase the student's appreciation for research and the interrelationship of finance with

the other areas in business. Close association between the student and the faculty is emphasized. The student must successfully complete a written comprehensive examination which encompasses the three major areas of finance—investments, managerial finance and financial institutions—plus satisfy all the other requirements of the Ph.D. program in the Graduate School of Management and Business.

Upper-division courses carrying graduate credit appear on page 231.

FBE 501. Research.

Credit hours to be arranged. No-grade course.

FBE 503. Thesis.

Credit hours to be arranged. No-grade course.

FBE 507. Seminar.

Credit hours to be arranged. Other topics to be announced as interest warrants:

Real Estate Development.

Tax Topics.

International Finance Management (Prerequisite: FBE 516 or FBE 571).

Monetary Management.

Industrial Organization and Public Policy.

FBE 514. Financial Environment. 3 credit hours.

The financial system as an external environment affecting businesses and financial decisions. Characteristics of the overall financial system of an enterprise economy; nature and functions of money and credit, and their influence on product demand and the supply of finance from the point of view of the individual business; roles of monetary and fiscal policy, debt management, and the money and capital markets. Prerequisite: Ec 375, 376, or equivalent, or consent of instructor.

FBE 516. Financial Management. 3 credit hours.

Objectives, tools, methods, and problems of financial management from the viewpoint of the firm; special problems, including funds acquisition, dividend policy, capital acquisitions, taxes, mergers, forecasting, and investment banking. Prerequisite: at least one accounting course; Ec 376 is recommended.

FBE 520. Methods in Business Research. 3 credit hours.

Research techniques in business; project design; analysis of data and data sources.

FBE 525. Managerial Economics. 3 credit hours.

The varied forms in which economic concepts appear in the operation of individual business units; emphasis on the approach to problems of management decision-making and advance planning through formulation of problems in a conceptually quantitative manner capable of numerical solution. Integration of economic principles with various areas of business administration. Prerequisite: Mth 109 or equivalent, and Ec 376 or equivalent.

FBE 528. Business Taxation. 3 credit hours.

The principles, structure, and economic effects of business taxation in the framework of the total tax structure; implications of taxation for management decision-making. The emphasis is not on the complexities of tax law, tax accounting, or tax regulations, but on the broader impact of taxation on business. Prerequisite: Ec 375, 376, or equivalent.

FBE 530. Problems in Business Planning and Forecasting. 3 credit hours.

Emphasis is on trends of basic data and the determinants of

private business and government decisions affecting the level of employment and economic growth. Theoretical models and forecasting techniques are described and related to particular regional and industry planning needs. Ec 375, or equivalent, is recommended.

FBE 540. Problems in Finance. 3 credit hours.

Analysis of cases dealing with valuation; choice of capital acquisitions under uncertainty; working capital management; the influence of capital structure, dividend policy, and growth on the cost of capital. Prerequisite: FBE 516 or equivalent.

FBE 541. Real Estate Economics. 3 credit hours.

Economics of development, use and re-use of real property in U.S. institutional framework; processes and considerations that result in or influence decisions by individuals or groups concerning real-estate financing and investment.

FBE 545. Theory of Finance. 3 credit hours.

Development of financial principles relating to problems of valuation; capital acquisitions; dividend policies; choice among financing alternatives. Prerequisite: FBE 516, or equivalent.

FBE 547. Real Estate Valuation. 3 credit hours.

Principles and practices of real property valuation; consideration of factors affecting property values and incomes; leasehold valuation; trends in real property values and appraisal procedures; the appraisal process.

FBE 549. Real Estate Investment Analysis. 3 credit hours.

Analysis of influence of depreciation, leverage, taxes and holding period on investment value of property and on the rate of return to equity. Investment strategies for selection among alternative real estate investments.

FBE 552. Concepts of Investments. 3 credit hours.

Securities markets; risk-return characteristics of investment media; analysis of investment media; investment and portfolio strategies of individual and institutional investors. Prerequisite: FBE 516, or equivalent. Not open to students who have taken FBE 363, or equivalent.

FBE 555. Risk and Insurance Theory. 3 credit hours.

Major problems of insurance theory; mathematical, psychological, economic, statistical, and legal aspects; relation of business organization to theory in risk and insurance; application of theory to practical problems of insurers and the insured. Prerequisite: QM 511.

FBE 556. Pensions and Group Insurance. 3 credit hours.

Economic and business conditions giving rise to the pension movement. The role of private pension plans and group life and disability insurance in overall employee benefit plans. Funding, tax, actuarial, and legal problems in pensions and group insurance. Profit-sharing and labor-negotiated plans. Case studies of industrial retirement plans. Prerequisite: FBE 456.

FBE 557. Analysis of Business Risk. 3 credit hours.

The risk-management concept; corporate organization for insurance and risk management; analysis of exposure to loss; self-insurance versus commercial insurance; control of commercial insurance costs; use of captive insurers. Prerequisite: FBE 455.

FBE 565. Investment Analysis. 3 credit hours.

The organization and functioning of securities markets, particularly the markets for bonds and common stocks; analysis of the characteristics of efficiently functioning markets; consideration of the role of price behavior in determining whether a market is efficient. Topics for analysis include: (1) the determinants of the market structure, and (2) the impact of

competition and regulation on market structure and organization. Prerequisite: FBE 552, or equivalent.

FBE 566. Investment Administration. 3 credit hours.

Development of the theory of investment; risk-return parameters for security selection; portfolio selection and performance analysis. Prerequisite: FBE 552, or equivalent.

FBE 570. Commercial Banking and Monetary Policy. 3 credit hours.

The role of commercial banks as the prime transmitter of monetary policy with emphasis on the formulation of Federal Reserve Policy, the impact on commercial banks and the money market, and the implications for business decisions. Prerequisite: FBE 514, or equivalent.

FBE 571. International Finance and Investment. 3 credit hours.

The international monetary system; balance of payments; liquidity, foreign exchange market; foreign investment; international and regional financial institutions, foreign taxation practices.

FBE 575. The Money Market. 3 credit hours.

Analysis of the money market and its several segments, including the markets for U.S. Government securities, commercial paper, bankers' acceptances, certificates of deposit, federal funds, and Euro-dollars; determination of interest rates; the mathematics of interest rates; debt portfolio strategy. Prerequisite: FBE 514, or equivalent.

FBE 580. Management of Financial Institutions. 3 credit hours.

Analysis of management policies of financial institutions, including liquidity management, liability management, asset management, and capital management; description of the legal, economic, and regulatory environment and implications for management; examination of changing trends in financial markets. Prerequisite: FBE 514 or equivalent.

Marketing, Transportation, and Business Environment

All graduate course programs must be approved in writing by the candidate's adviser. Normally, not more than 9 credit hours of 400 courses carrying graduate credit (G) may be taken in the College of Business Administration toward the 45 credit hours required in the M.B.A. program. A comprehensive written examination is required. An oral examination is required at the option of the committee.

Marketing. The marketing option requirements, in addition to the regular M.B.A. preliminary core program, total 45 credit hours, and are distributed as follows:

(1) Marketing courses: Marketing Research (MKT 560) 3 credit hours; Analysis of Consumer Behavior (MKT 561) 3 credit hours; Marketing Problems and Policies (MKT 565) 3 credit hours; two additional courses at the 500 level, 6 credit hours.

(2) General Business courses: Business Economics (FBE 525 or FBE 529) 3 credit hours; Financial Management (FBE 535, 538, 562, 565, 566, 570, 575, 578, or 581) 3 credit hours; Quantitative Methods and Operations Research (QM 507 or MGT 507 or MGT 530) 3 credit hours; Organization Theory and Manage-

ment (MGT 536, 541, 542, or 507) 3 credit hours; Personnel and Industrial Management (MGT 528, 532, 533, 534, 535, 538, or 507). (3) Electives, 15 credit hours.

Transportation and Business Logistics. The transportation and business logistics requirements, in addition to the regular M.B.A. preliminary core program, total 45 credit hours, and are distributed as follows:

(1) Transportation and business logistics courses: 9-18 credit hours. (a) Majors who have not had the equivalent must complete TRN 451, TRN 455, Ec 463. (b) Majors must complete TRN 549, TRN 550, TRN 551.

(2) Thesis or Research: 3-9 credit hours. Majors must take TRN 503 (Thesis) or TRN 501 (Research).

(3) Electives: 18-33 hours.

Programs for the M.S. and D.B.A. degrees in the Department of Marketing, Transportation, and Business Environment are planned with advisers under guidelines established by the department.

Marketing

Upper-division courses carrying graduate credit appear on page 233.

MKT 501. Research.

Credit hours to be arranged. No-grade course.

MKT 503. Thesis.

Credit hours to be arranged. No-grade course.

MKT 507. Seminar.

Credit hours to be arranged.

Management Science in Marketing.

Research in Consumer Behavior.

Experimental Marketing Research.

Product Innovation.

Entrepreneurship.

Marketing Information Systems.

Marketing and Economic Development.

Marketing and Corporate Responsibility.

MKT 511. Administration of the Marketing Function. 3 credit hours.

Environment of marketing decisions; design of a marketing program; nature and behavior of markets; marketing planning; product, channel, pricing, and promotion decisions; marketing and the law; evaluating marketing efficiency.

MKT 560. Marketing Research. 3 credit hours.

Marketing research as a tool for decision-making. Planning research projects; design, measurement, experimental and non-experimental techniques, analysis and interpretation of data; reporting of research results. Prerequisite: QM 333 or QM 511, or equivalent.

MKT 561. Analysis of Consumer Behavior. 3 credit hours.

Behavioral-science concepts utilized in the analysis of life-style patterns of the ultimate consumer; values and behavioral patterns of consumer segments, and their significance for marketing. Not open to students who have taken MKT 361.

MKT 562. Marketing Communications. 3 credit hours.

Analysis of the environmental conditions that enhance or inhibit the firm's attempt to design and use the most effective communication for demand cultivation. Not open to students who have taken MKT 462.

MKT 563. Marketing Concepts and Theory. 3 credit hours.

Application of theoretical concepts in the social sciences to the development of a theory of marketing. Prerequisite: 9 credit hours of graduate work in marketing; consent of instructor.

MKT 565. Marketing Problems and Policies. 3 credit hours.

Marketing and formal planning; uncertainty and decision-making; marketing position analysis; problems in the management of the marketing mix; design of marketing campaigns, facilities, organization, and systems; evaluation of marketing performance. Prerequisite: MKT 511, MKT 560, plus one additional marketing course.

MKT 566. Pricing Policies. 3 credit hours.

The development of individual company pricing policies; the environment of pricing; effect of legislation and specific court rulings on price policy; contributions to pricing from economic theory, management science, and the behavioral sciences.

MKT 569. Problems in Industrial Marketing. 3 credit hours.

The marketing of industrial goods; environmental effects on marketing; major issues of product policy, pricing, marketing programs, and marketing organization.

MKT 570. Problems in Forest Industries Management. 3 credit hours.

Historical, economic, social, and technological factors affecting the current and future operations of the forest products industry.

MKT 572. International Marketing Policies. 3 credit hours.

Study of the impact of political, social, economic, and cultural forces upon the managerial decision-making process in international marketing operations. Problems associated with the development of marketing strategy and policies emphasized.

MKT 573. International Business Operations. 3 credit hours.

Functional management within multinational corporations; case studies of operations abroad; focus on managerial decision-making. Prerequisite: MKT 572, FBE 571.

Transportation

Upper-division courses carrying graduate credit appear on page 234.

TRN 501. Research.

Credit hours to be arranged. No-grade course.

TRN 503. Thesis.

Credit hours to be arranged. No-grade course.

TRN 507. Seminar.

Credit hours to be arranged.

TRN 549. Transportation Theory and Practice. 3 credit hours.

Extensive introductory study of principles, practices, and problems of the transportation function and its role in the distribution process. Two hours of lecture-discussion weekly, plus individual consultations. Extensive reading and individual research projects.

TRN 550. Physical Distribution Management. 3 credit hours.

Analysis of transportation and logistics problems of industrial and commercial firms, including inventory and warehouse management, management of private transportation facilities,

location problems, and relationship of physical distribution functions to other functions of the firm. Prerequisite: TRN 549, or consent of instructor.

TRN 551. Transportation Policies. 3 credit hours.

Effects of major formal and informal transportation policies on carriers, transport users, and the general public. Implications of alternative policies; how policy changes are effected. Prerequisite: TRN 549, or consent of instructor.

Business Environment

BE 501. Research.

Credit hours to be arranged. No-grade course.

BE 503. Thesis.

Credit hours to be arranged. No-grade course.

BE 507. Seminar.

Credit hours to be arranged.

Legal Aspects of Business Regulation.

Foreign Commercial Law.

BE 517. Legal Environment of Business. 3 credit hours.

Designed to provide a basic legal background for the study of business administration; contracts, agency, business organization, and fields within the framework of the Uniform Commercial Code; international aspects of law and business.

BE 519. Social Philosophy of Business. 3 credit hours.

Ethical and social obligations which businessmen are expected to assume, critical consideration of presuppositions, opinions, and practices manifest in business enterprise and in business education.

BE 520. Foreign Commercial Law. 3 credit hours.

Basic legal concepts applicable to commercial transactions in foreign trade; comparison of commercial law and legal institutions of foreign countries and the United States; major legal systems, including civil law and common law; legal documents involved in foreign-trade transactions; antitrust problems in international trade.

Management

The Master Degree. The M.B.A. program in Management is designed to prepare the student for managerial practice in formal organizations, both public and private. The emphasis is on developing personal competence for dealing with the two general types of problems faced by middle and top management: (1) The broad problems of organizational design, business policy, long range planning, and organizational-environment transactions. (2) The specific analytic tools for management analysis and formal problem solving, and the behavioral concepts and skills which facilitate the solutions of human and social problems within the organization. The program typically leads to professional careers in management. There is an emphasis on building a base for life-long learning, integrating conceptual knowledge with practical solutions. The Management faculty make use of a variety of techniques to enhance the learning process: lectures, seminars, field projects, case studies, computer simulation techniques, and independent research in order to prepare the students for their careers.

The Department has a required set of courses as follows: Behavioral Science in Management (MGT 507) 3 credit hours; Computers in Business (MGT 515) 3 credit hours; The Executive Function (MGT 528) 3 credit hours; Problems in Business Policy (MGT 532) 3 credit hours; Organizational Conflict and Change (MGT 536) 3 credit hours; Theory of Business Organization (MGT 541) 3 credit hours.

Of the 45 credit hours required by the Graduate School of Management and Business beyond the preliminary core program, at least 21 hours must be in the Department of Management, including those courses listed above. Specific programs for each M.B.A. student will be determined by both the student and his or her adviser.

The Doctor of Philosophy degree. The Department of Management offers two major options for the Ph.D. program: (1) Organization and Management, (2) Human Resources Management. These may also be taken as minor fields. In addition, the Department offers two other minor fields: (1) Operations and Systems, and (2) Management Science (administered jointly with the faculty in Quantitative Methods). Descriptions of all these areas follow:

Organization and Management. The field involves a variety of studies, both behavioral and technical, focuses on topics such as organization structure, communication, technological change, administrative processes, business policy, management analysis, control, and the interaction between the organization and the environment.

Human Resources Management. This option is designed to prepare students for careers in personnel management and labor relations in public and private organizations. The program objectives include an assessment of the salient behavioral science and economic underpinnings of the employment relationship: compensation and organizational effectiveness; collective bargaining; industrial and organizational psychology; theory of the work group; supervision; conflict and change; and other current topics.

Operations and Systems. This minor field of study is designed to enable the student to gain a working knowledge of operations management, with emphasis on computer-based methods of analysis. It requires both specialized knowledge of management practices in an operating environment and integrative study of systems of procedures. The objective of this minor field is to impart a methodology as practiced in systems analysis, which then allows investigation and design of integrated systems.

Management Science. A minor in Management Science is intended to prepare a student to construct mathematical models and logical representations of a wide variety of complex organizational phenomena and decision-making analyses. The program gives the student the necessary theory and techniques for analyzing relationships among variables; the probably future consequences of decision choices; and the appropriate measures for evaluating alternative actions. This option leads to careers as administrators, consultants, and executives in both private and public enterprises.

Upper-division courses carrying graduate credit appear on pages 236-237.

MGT 501. Research.

Credit hours to be arranged. No-grade course.

MGT 503. Thesis.

Credit hours to be arranged. No-grade course.

MGT 507. Seminar.

Credit hours to be arranged.
 Administrative Communication.
 Administration of Labor Market Policies.
 Administrative Science.
 Collective Bargaining.
 Comparative Management.
 Industrial Relations.
 Industrial Relations in Public Sector.
 Interpersonal Relations Laboratory.
 Manpower Research.
 Personnel Administration.
 Problems in Business Policy.
 Research Design.
 Systems Analysis.

MGT 509. Practicum.

Credit hours to be arranged.

MGT 511. Industrial Administration. 3 credit hours.

The purpose of this course is to investigate basic administrative and organizational problems; to examine various philosophies and structures; and to compare different schools of thought.

MGT 515. Computers in Business. 3 credit hours.

A basic concepts and systems-analysis orientation relating to data processing, information analysis, decision assistance and interactive time-sharing. Behavioral and technical considerations are incorporated to document the impact of computer activity on the organization.

MGT 520. Operations Research Applications. 3 credit hours.

Operations Research is a series of methods based on model building for decision-making. The methods range from crude qualitative models to highly refined mathematical models. A conceptual orientation to the field, examination of the more commonly used mathematical models.

MGT 522. Concepts of Linear Programming. 3 credit hours.

This course deals with the theory and application of linear programming for the solution of a general category of problems which are concerned with the use or allocation of scarce resources. The student will study the underlying theory and formulate solutions to practical problems. Use will be made of the IBM 360/50 and the Mathematical Programming System (MPS).

MGT 528. The Executive Function. 3 credit hours.

Analysis of the structure and function of boards of directors; the role of the chief executive; impact of change such as the new Office of the President, minority representation, director liability, and the decline of the family firm. Special emphasis on the force of merger and conglomeration.

MGT 530. Operations Simulation. 3 credit hours.

Analysis and formulation of computer simulation models for operations management processes. Presents introduction to concepts of simulation methodology as they apply to analysis and design of operating systems. Application of simulation will be used in individual and group projects as experiments on a model system. Prerequisite: QM 232, QM 233, and CS 233 or equivalent.

MGT 532. Problems in Business Policy. 3 credit hours.

Focus in this course is primarily on the analysis and understanding of business cases which emphasize the overall functioning of the firm and the integration of business operations.

MGT 533. Theory of the Industrial Work Group. 3 credit hours.

Major theories of group formation and behavior considered in

terms of their implications for business management; analysis of the literature concerning supervisory behavior and leadership, characteristics of managers, group cohesiveness, conformity, productivity standards, problem-solving efficiency, and morale.

MGT 534. Human Resources Management. 3 credit hours.

Analysis of cases and problems in the management of relations between an organization and its personnel; constraints on policy and practice, expectations about behavior relevant to planning for productive operations and job and career satisfaction. Prerequisite: MGT 412, or consent of the instructor.

MGT 535. Psychology and Human Resources Management. 3 credit hours.

Analysis of psychological literature concerned with human resources in organization. Topical emphasis: testing and validation; attitudinal measurement; occupational satisfaction and alienation; socio-technical foundations of job design; supervision and evaluation; career planning and training; management development; the psychology of union-management relations; employment of the disadvantaged. Prerequisite: MGT 534, or equivalent, strongly recommended.

MGT 536. Organizational Conflict and Change. 3 credit hours.

Factors contributing to internal conflict and to changed patterns of behavior within organizations, from the viewpoint of business management; managerial decision-making and conflict; implications of cultural values for the administration of scientific research groups; labor-management conflict; coercion and manipulation; planned change.

MGT 538. Management of Research and Development. 3 credit hours.

Behavioral and organizational aspects of research and development groups, and practical problem areas associated with managing such groups.

MGT 541, 542. Theory of Business Organization. 3 credit hours each term.

Strategies for studying organizations. Behavioral research, theory, and business examples dealing with organizational structure, goal formation, human and social factors, communication, control, technology, organizational dynamics, and the administrative process.



Wallace School of Community Service and Public Affairs

Dean, James G. Kelly, Ph.D., Professor of Psychology, Professor of Community Service and Public Affairs. B.A., Cincinnati, 1953; M.A., Bowling Green State University, 1954; Ph.D., Texas, 1958; S.M., Hygiene, Harvard University, 1960; at Oregon since 1972.

Head Adviser, Richard F. Crawford, M.A., Visiting Assistant Professor. B.A., Muskingum College, 1961; M.A., Oregon, 1963; at Oregon since 1972.

THE Lila Acheson Wallace School of Community Service and Public Affairs was organized in 1967. It is a professional school with the aim of preparing undergraduate and graduate students for careers in areas of public and community service.

Admission. In addition to University admission requirements, formal admission to the Wallace School is required before a student may undertake a degree program in community service and public affairs. The entrance requirements vary slightly among divisions of the school. Prospective students should consult the Head Adviser for specific information about the division that interests them.

Degrees. The Wallace School of Community Service and Public Affairs offers work leading to the degrees of Bachelor of Arts and Bachelor of Science. The interdisciplinary master of arts program in international studies is administered by the school.

Major Requirements. The general University degree requirements must be met by all students enrolled in the Wallace School. The student must have a basic understanding of the broad areas of knowledge in the social and behavioral sciences. Although the school relates primarily to the social sciences, students are encouraged to take work in the humanities, fine arts, and sciences which will contribute to their understanding of problems in human service.

The school has three divisions, each with its own academic programs and its own admission criteria, which apply after satisfaction of the University's group requirements for professional schools.

Division of Community Service

Sally Fullerton, Ph.D., Assistant Professor of Community Services (field instruction); Chairman, Division of Community Services. B.A., Oregon State, 1952; M.A., Cornell, 1960; Ph.D., Oregon, 1970; at Oregon since 1970.

Martin H. Acker, Ph.D., Professor of Community Services

(counseling). B.A., Brooklyn, 1943; M.A., 1953, Ph.D., 1963, New York; at Oregon since 1961. (On leave 1973-74.)

Joan Doerflinger, M.S.W., Assistant Professor of Community Services (social work). B.S., 1951, M.S.W., 1959, Wisconsin; at Oregon since 1971.

Richard Ingraham, Ph.D., Associate Professor of Community Services (community mental health). B.A., Nebraska, 1963; M.A., 1965, Ph.D., 1967, Missouri; at Oregon since 1969.

Marc Levy, M.S.W., Instructor of Community Services (field instruction). B.A., Oregon, 1970; M.S.W., Maryland, 1972; at Oregon since 1972.

Bruce Longstroth, M.S.W., Assistant Professor of Community Services (field instruction). B.A., George Fox College, 1965; M.S.W., Utah, 1971; at Oregon since 1972.

Myra Miller, S.W. Diploma, Assistant Professor of Community Services (field instruction); Director, Field Instruction Program. B.A., Washington, 1937; Diploma, New York School of Social Work, 1939; at Oregon since 1967. (On sabbatical leave, 1973-74.)

Janet Moursund, Ph.D., Associate Professor of Community Services (behavior foundations). B.A., Knox, 1958; M.S., 1963, Ph.D., 1963, Wisconsin; at Oregon since 1967.

Ronald Rousseve, Ph.D., Professor of Community Services (counseling). B.S., 1953, M.A., 1954, Xavier; Ph.D., Notre Dame, 1958; at Oregon since 1968.

Anita Runyan, Ph.D., Assistant Professor of Community Services (field instruction). B.S., Pacific Union College, 1956; M.S., 1968, Ph.D., 1972, Oregon; at Oregon since 1972.

Alfred Smith, Ph.D., Professor of Community Services (communication analysis). A.B., Michigan, 1943; M.A., 1947, Ph.D., 1956, Wisconsin; at Oregon since 1962.

Norman Sundberg, Ph.D., Professor of Community Service; Professor of Psychology. B.A., Nebraska, 1947; M.A., 1949, Ph.D., 1952, Minnesota; at Oregon since 1952. (On sabbatical leave, 1972-73.)

Kenneth Viegas, M.S.W., Associate Professor of Community Service (corrections, social work). B.S., Oregon, 1956; M.S.W., California, 1963; at Oregon since 1967. (On sabbatical leave, 1973-74.)

John Warden, M.S.T., Instructor of Community Service (field instruction). B.S., Oregon, 1970; M.S.T., Drake, 1972; at Oregon since 1972.

Marjorie Wright, M.S.W., Assistant Professor of Community Services (community organizations). B.S., DePaul, 1956; M.S.W., Illinois, 1961; R.S.W., State of Oklahoma, 1967; at Oregon since 1970.

THE Community Service Division offers preparation for students at the undergraduate level for professional careers in the human services. Within the division, students may elect professional training that is of a generalist nature, or they may elect a social work program leading to the first professional practice

degree in social work. This program has been approved by the Council on Social Work Education. Both programs require a central core of generic skills and concepts applicable in a variety of settings.

Professional roles for which community-service majors and social-work students prepare include various direct-service roles with individuals or groups, advocacy roles, and program development, managerial, and organizational roles. These roles may be performed in a wide variety of settings, such as day-care programs, community action programs, institutional or transitional facilities in corrections or mental health, children and family services such as adoptions and foster care, educational programs, drug and alcohol programs, and others.

The junior year of this two-year program allows opportunity for both general Community Service and Social Work students to take most of their core requirements. In the senior year, students may continue with a broad selection of courses, or may focus their work in relationship to a particular role or practice setting. This is generally done by selecting advanced methods courses, setting courses, and a senior-level field placement, all relating to preparation for a specified career.

Corrections is one course of study within the Community Service Division. It is a senior-year program in analysis of the system of the administration of justice and related problem-solving methodology. Field instruction in a related operation provides the essential vehicle for integration. The program focuses on preparation for careers in institutional and community-based programs. Other senior-level focus areas being developed within the Community Service Division are community mental health, children and family services, and volunteerism.

Basic requirements for community service majors appear below; they are listed both in terms of the content area to be mastered, and the course offering which fulfills this content requirement. If students can demonstrate mastery of the content area through previous course work or experiences, they are not required to take the specified CSPA course. Current basic requirements are:

Content Areas	Required Courses
Human Development and Behavior	Behavior Foundations for the Helping Professions (CSPA 315) 3 credit hours.
Analysis of Social Policy and programs	Social Welfare Institutions: Policies and Programs (CSPA 440) 3 credit hours.
Basic Skills in Analyzing and Working with Individuals, Groups, Organizations, and Communities	Strategies of Intervention (CSPA 323, 324) 5 credit hours each term.
Basic Skills in Research Design	Applied Social Research (CSPA 328) 3 credit hours.
Advanced Methods	At least three courses, to be selected from: Casework Methods (CSPA 407) 3 credit hours. Seminar: Social Work Treatment Goals (CSPA 407) 3 credit hours. Group Work Methods (CSPA 430) 3 credit hours. Communication Analysis (CSPA 431, 432, 433) 3 credit hours each term.

Application and Integration

- Developmental Counseling (CSPA 435) 3 credit hours.
- Seminar: Counseling Interview (CSPA 407) 3 credit hours.
- Correctional Systems II (CSPA 445) 3 credit hours.
- Community Organization (CSPA 447) 3 credit hours.
- Or other methods courses by arrangement.
- Field Observation (CSPA 230) 2 credit hours.
- Supervised Field Study (CSPA 409) (at least 2 placements, and 24 credit hours).
- Theory Practice Integration (CSPA 411, 412) 3 credit hours each term.
- At least two settings courses to be selected from:
- Issues in Social Work (CSPA 407) 3 credit hours.
- Child Welfare Services (CSPA 407) 3 credit hours.
- Volunteerism (CSPA 407) 3 credit hours.
- Black American Psycho-Social Perspectives (CSPA 407) 3 credit hours.
- Correctional Systems (CSPA 444) 3 credit hours.
- Community Mental Health (CSPA 448) 3 credit hours.
- Or other settings courses by arrangement.

Basic requirements for students in the social-work program are congruent with those of general community service except for the following additions, modifications, and deletions: Social Welfare Institutions, Policies and Programs (CSPA 441) 3 credit hours; Strategies of Intervention (CSPA 323) 5 credit hours; Casework Methods (CSPA 407) 3 credit hours; Group Work Methods (CSPA 430) 3 credit hours; Community Organization (CSPA 447) 3 credit hours; Advanced Social Work Practice: A Generic Model (CSPA 407) 3 credit hours; The Professional in Social Work (CSPA 442) 3 credit hours; Proseminar in Social Work (CSPA 407) 3 credit hours; Supervised Field Study (CSPA 409) and Theory Practice Integration (CSPA 411, 412) have social work content and supervision.

Degrees offered through the Community Service Division are the Bachelor of Arts or the Bachelor of Science in Community Service and Public Affairs. Students graduating from the accredited social-work program are so designated on their official transcript.

Admissions and Advising. Students interested in a community-service major may indicate CSPA as a pre-major, but they will not be admitted as majors in this program until they have been selected for CSPA through a formal admissions process. There is an additional selections process for the social-work program. Selections will be made each spring for fall-term admissions into the program. Application blanks and information about admissions criteria and deadlines may be obtained from the main CSPA office.

Students applying for admission into the Community Services Division are expected (1) to be nearing completion of their sophomore year (90 credit hours); (2) to have career goals that are consistent with the professional preparation in Community Services, and (3) to have broad background preparation in the social sciences. Social science preparation should include at least three courses in psychology, preferably in the areas of personality, learning, and social psychology; and three courses in sociology. Some coursework in economics, political science, and anthropology is also desirable. In admission selections, preference will also be given to students who have demonstrated interest in community-service work through volunteer or work experience, or who have particular life experiences which give them valuable perspectives in working in human services.

Pre-admissions advising is provided by the CSPA Head Adviser. Once a student has been formally admitted into the program, a regular CSPA faculty adviser is assigned. Social-work students are assigned to social-work faculty advisers.

CSPA 199. Special Studies: Introduction to CSPA. 1-3 credit hours.

An overview of the fields of community service and public affairs, including career linkages and related conceptual and skill areas.

CSPA 221. Social Issues and Policies. 2-3 credit hours.

Introduction to major socio-economic trends in American society, social problems associated with these trends, public policy issues, and efforts available to combat racism.

CSPA 225, 226. Career Decision-Making. 2 credit hours each term.

Examination of personal and environmental factors influencing career choice; considerations in future career planning.

CSPA 230. Field Observation. 2 credit hours.

An introduction to human service agencies in the areas of community services, public affairs, and leisure services. The student visits several agencies during the term to gain first-hand experience with a variety of agency settings and career patterns.

CSPA 242. Poverty Solutions. 3 credit hours.

Alternative strategies for the elimination of poverty; development of competence in evaluation of such strategies.

CSPA 315. Behavioral Foundations for the Helping Professions. 3 credit hours.

Human development and behavior studied from the perspective of the helping professions. Practical approaches to problem-definition and problem-solving are stressed. Students are encouraged to read from a broad range of social-science source materials.

CSPA 323, 324, 325. Strategies of Intervention. 5 credit hours each term.

Basic principles of generic problem-solving process related to individual interactions, small group, organizational, and community functioning. Study and practice in the use of skills and techniques for working with individuals, groups, organizations, and communities. CSPA majors only.

CSPA 328, 329. Applied Social Research. 3 credit hours each term.

Introduction to social research in community, agency, and governmental settings. Descriptive and experimental methods,

sampling, research design, data collection, hypothesis testing, statistical analysis, research proposal and report writing.

Upper-Division Courses Carrying Graduate Credit

CSPA 401. Research. (g)

Credit hours to be arranged.

CSPA 403. Thesis. (g)

Credit hours to be arranged.

CSPA 405. Reading and Conference. (g)

Credit hours to be arranged.

CSPA 406. Special Problems. (g)

Credit hours to be arranged.

CSPA 406. Special Problems: Field Work in Community Services. (g)

Credit hours to be arranged. Supervised field placements for non-CSPA majors in a variety of community-service agencies or projects. Formal application required at least one term in advance of placement.

CSPA 407. Seminar. (g)

Credit hours to be arranged.

CSPA 407. Seminar: Child Welfare Services. (g) 3 credit hours.

An overview of current practices and issues in the field of child welfare and social work. An historical approach will be utilized to frame issues and analyze practice trends.

CSPA 407. Seminar: Black American Psycho-Social Perspectives. (g) 3 credit hours.

The impact of racial discrimination on the personalities and social outlook of black Americans as revealed through a sampling of relevant materials analyzed with reference to general principles of human socialization. Recommended prerequisite: a course in black American history.

CSPA 407. Seminar: Issues in Social Work Practice. (g) 3 credit hours.

Seminar discussion of current issues in social work practice, as presented by a professional social worker from the community.

CSPA 407. Seminar: Casework Methods. (g) 3 credit hours.

Theory and methods in helping individuals and families. A consideration of conceptualization procedure and techniques, aims and goals. Prerequisite: CSPA 323, and CSPA 315.

CSPA 407. Seminar: A Generic Model for Advanced Social Work Practice. (g) 3 credit hours.

Preparation for Social Work Practice in various settings with individuals, groups, and the community. Nature of presenting problem, identification of treatment goals, and the determinant of intervention strategy. Prerequisite: CSPA 323; one other methods course, and senior standing in the Social-Work Program.

CSPA 407. Seminar: Counseling Interview. (g) 3 credit hours.

Experience-based skill development for counselors. Conceptual focus on how counseling is influenced by settings, roles, and goals, and how it is experienced by clients and counselors. Prerequisite: CSPA 323, CSPA 435, and senior standing.

CSPA 407. Proseminar in Social Work. (g) 2-3 credit hours.

Examination, evaluation of career-linkage, academic preparation and anticipated career expectations. Prerequisite: senior standing in the Social-Work Program.

CSPA 407. Seminar: Volunteerism. (g) 3 credit hours.

An introduction to an expanding area of human service for those who wish to explore career opportunities in volunteerism. Philosophy and historical perspective of the volunteer movement will be presented, but the emphasis will be on the practical aspects of developing and maintaining effective volunteer programs.

CSPA 408. Workshop. (g)

Credit hours to be arranged.

CSPA 409. Supervised Field Study.

Credit hours to be arranged; 30 hours maximum. An integral part of the CSPA curriculum required of all students, which is planned in relation to the student's total course of study. Field Instruction provides the opportunity for students to work in a community setting under agency and faculty supervision.

CSPA 411, 412. Theory-Practice Integration. 3 credit hours each term.

A required component accompanying field instruction which combines presentations by the faculty instructor, readings, and discussions designed to help the student integrate previous coursework and experience with the field placement.

CSPA 420. Behavioral Ecology. (g) 3 credit hours.

The study of human behavior in natural settings and the interaction between social and physical environments. Covers such topics as personal space, territoriality, spatial relations in different cultures, symbolic meaning of physical environments, behavioral results of crowding, and the implications for social institutions, buildings, and environmental planning.

CSPA 430. Group Work Methods. (g) 3 credit hours.

Theory and techniques of working with groups in a variety of community-service and public-affairs programs; emphasis on development of practical group-work skills. Prerequisite: CSPA 323.

CSPA 431, 432, 433. Communication Analysis in Social Systems. (g) 3 credit hours each term.

An analysis of interpersonal communication in organizational settings; nonverbal signals and informal channels; communications among members of organizations; communications between organizational representatives and the public.

CSPA 435. Developmental Counseling. (g) 3 credit hours.

An exploration of starting assumptions and concepts basic to the process of developmental counseling. A foundations (theory-oriented) course in professional counseling aimed at the normal individual's optimal development.

CSPA 440, 441. Social Welfare Institutions: Policies and Programs. (g) 3 credit hours each term.

The histories, structures, policies, and services of the major social welfare programs; a critical analysis of the policy-making process in social welfare services and its application to current programs and new proposals.

CSPA 442, 443. The Professional in Community Service. (g) 3 credit hours each term.

Major components in the practice of the "helping services," such as social-cultural milieu, organizational context, professional role and functions, and varied modes of providing serv-

ices. Emphasis on basic concepts and principles. Consent of instructor is required.

CSPA 444, 445. Correctional Systems. (g) 3 credit hours each term.

Role of corrections in the criminal-justice system. Examination of major components, processes and methods of adult and juvenile correctional systems, including probation, institutions, parole and related services. Some historical, but primarily contemporary focus. Modern treatment programs and techniques illustrated by readings, case studies, and field visits. Consent of instructor is required. Prerequisite: Soc 440.

CSPA 447. Community Organization and Social Planning. (g) 5 credit hours.

Theory and methods used in working with organizations and communities. Citizen participation, social action, social legislation, community relations, and other organizational techniques; social planning processes and approaches to social problems. Community projects by class members are analyzed. Prerequisite: CSPA 323, 324.

CSPA 448. Community Mental Health. (g) 3 credit hours.

Communities are studied as functional bodies. Disorganization or breakdown within the system can result in damage to any of its subcomponents; organizations, small groups, and individuals.

Division of Public Affairs and International Development

Uday Desai, M.E., Assistant Professor of Public Affairs (organizational theory, regional planning). B.E., Civil Engineering, B.V.M. College, India, 1965; M.E., Environmental Engineering, City College of New York, 1967; at Oregon since 1972.

Orval Etter, J.D., Associate Professor of Public Affairs (public law, metropolitan government). B.S., 1937, J.D., 1939, Oregon; at Oregon 1939-45, 1960-65, and since 1967.

Richard A. Fehnel, M.P.A., Assistant Professor of Public and International Affairs (organizational change, field learning, public policy analysis, comparative administration, Latin America). B.A., 1960, M.P.A., 1965, Washington; at Oregon since 1972.

John F. Gange, M.A., Professor of International and Public Affairs (U.S. foreign policy, economic assistance, Southeast Asia). B.A., 1932, M.A., 1934, History, Stanford; at Oregon since 1961.

Donald N. Johnson, B.A., Associate Professor of Public Affairs (regional planning and governmental systems, state and local government and economic development). B.A., Reed College, 1946; at Oregon since 1959.

Judson H. Jones, M.A., Visiting Lecturer in International and Public Affairs (national development and integration, public policy analysis, community development, research methods). B.A., Boston, 1961; M.A., Political Science, Oregon, 1969; at Oregon since 1970.

John Kerrigan, M.A., Associate Professor of Public Affairs (public finance and budgeting, state and local government, city managership). B.A., Loras College, Iowa, 1956; B.S., 1958, M.A., 1960, Political Science, Iowa; at Oregon since 1971.

Bruce McKinlay, Ph.D., Associate Professor of Public Affairs (employment information systems, labor and manpower economics). B.S., 1958, M.A., 1967, Ph.D., 1971, Economics, Oregon; at Oregon since 1968.

James McNamara, Ph.D., Associate Professor of Public and International Affairs (manpower planning, operations research). B.S., St. Joseph's College, Philadelphia, 1962; M.E., 1966, Ph.D., 1970, Ed. Admin., Pennsylvania; at Oregon since 1970.

Shirley Terreberry, Ph.D., Associate Professor of Public Affairs (living systems, organization and social change). B.A., 1951, M.A., 1954, Wayne State; M.S.W., 1966, Ph.D., 1968, Sociology, Psychology, and Social Work, Michigan; at Oregon since 1968. Resigned, effective June 1973.

Clarence E. Thurber, Ph.D., Professor of International and Public Affairs (comparative administration, administration of U.S. foreign policy, Latin America). B.A., 1943, Ph.D., 1961, Political Science, Stanford; at Oregon since 1966.

Kenneth Tollenaar, M.A., Professor of Public Affairs (state and local administration, personnel administration). B.A., Reed, 1950; M.A., Public Administration, Minnesota, 1953; at Oregon since 1966.

THE Public Affairs and International Development division offers two undergraduate majors. Preference for admission to the division is given students with a year of political science and one or more courses in economics and sociology. Additional work in anthropology and history is desirable.

The first major is in public affairs and administration. It requires work in the following areas: processes of public policymaking; public organization and organizational theory; methodologies and techniques of data gathering and processing; administrative structure and processes; social issues, policy, and programs; principal staff areas of effective administration; professional and organizational responsibility and ethics; basic concepts of individual psychological development and small-group processes; Supervised Field Study (CSPA 409) and the accompanying Theory-Practice Integration Seminar (CSPA 411, 412); demonstrated ability to use government and legal documents.

The second major is in international development, for the public administrator who wishes to work abroad. Preference for admission to the major is given students with at least a year of work in political science. Some additional work in sociology, economics, anthropology, and history is desirable.

The major requires work in the following areas: public administration concepts, social issues and policies, quantitative analysis and research methodology, international relations, cross-cultural understanding and comparative ideology, Supervised Field Study (CSPA 409) and the accompanying Theory-Practice Integration (CSPA 411, 412). Additional work is required in area studies, e.g., Latin American affairs, community development, or national development.

Interdisciplinary Master Programs. Two master programs are administered by the division as a part of the interdisciplinary studies program of the University.

Public Affairs. The degrees offered are Master of Arts and Master of Science. A total of 45 credit hours of graduate work is required,

including 36 hours of coursework and 9 hours of thesis. Each candidate, with the aid and approval of an interdisciplinary committee, plans a program of study with a personal career objective in public affairs providing the central focus. Opportunities for special research training in the Bureau of Governmental Research and Service are available. Inquiries about this program should be directed to Clarence E. Thurber, Chairman, Interdisciplinary Master Degree Program in Public Affairs.

International Studies. This is a two-year Master of Arts program offered for students who contemplate careers in foreign affairs or in international organizations. An interdisciplinary studies program is developed by the student in consultation with an adviser, including 9 credit hours for the thesis. Proficiency in a major foreign language must be demonstrated. Foreign area studies (e.g., Far East, Latin America) and functional studies (e.g., public administration in developing countries, international trade and development) are encouraged. Inquiries should be directed to John F. Gange, Chairman, Interdisciplinary Master Degree in International Studies.

CSPA 321, 322. Public Administration Concepts. 3 credit hours each term.

Introduction to concepts, processes, and methods involved in the administration of public agencies and institutions.

CSPA 328, 329. Applied Social Research. 3 credit hours each term.

Introduction to social research in community, agency, and governmental settings. Descriptive and experimental methods, sampling, research design, data collection, hypothesis testing, statistical analysis, research proposal, and report writing.

CSPA 340, 341. Violence and Nonviolence in Society. 3 credit hours each term.

Ideological bases of violence and nonviolence in society; violent and nonviolent policies and practices in law enforcement, corrections, custody and therapy of the mentally ill, rearing and education of children, labor-management relations, racial relations, social and political reform, national defense.

CSPA 370. National Development. 3 credit hours fall.

This course is designed to introduce the student to the political, economic, and social problems of the new nation states. Since the primary aims of these new states are economic, social and political development, the course focuses on some of the primary factors affecting this development.

CSPA 371, 372. International Community Development. 3 credit hours each term, winter and spring.

Introduction to basic theories of communities and their development. Examination of the critical skills needed for effective community development work with a focus on the particular problems encountered in cross-cultural settings. Supervised participation in a community development project in the field.

Upper-Division Courses Carrying Graduate Credit

CSPA 401. Research. (G)

Credit hours to be arranged.

CSPA 403. Thesis. (G)

Credit hours to be arranged.

CSPA 405. Reading and Conference. (G)

Credit hours to be arranged.

CSPA 406. Special Problems. (G)

Credit hours to be arranged.

CSPA 407. Seminar. (G)

Credit hours to be arranged.

Theory of Public Organization.

Living Systems.

Social Program Administration.

Organizational Theory-Change.

Institutional Budgets and Financing.

Administrative Powers and Procedures.

Family-Planning Programs.

Population Issues and Programs.

Urban Planning in Developing Countries.

Problems of Development in Africa.

Problems of Chinese Development.

Public-Policy Analysis.

Manpower Aspects of Program-Planning.

Evaluation of Planning.

The Citizen and Practical Politics.

CSPA 408. Workshop. (G)

Credit hours to be arranged.

CSPA 409. Supervised Field Study. (G)

Credit hours to be arranged; 30 hours maximum. Participation in the activities of community, social, and administrative agencies and institutions, under close supervision; coordinated instruction. Consent of instructor is required.

CSPA 411, 412. Theory-Practice Integration. 1-3 credit hours each term.

Introduction to the organization, character, and conduct of community and public agency programs as a link between theoretical concepts and participation in supervised field study. Consent of instructor is required.

CSPA 450. Public Financial Administration. (G) 3 credit hours.

Budgetary decision and control processes in a variety of public organizations; their relationship to allocation of public resources to accomplish public purposes; problems of planning, budgeting, controlling and evaluating government activities.

CSPA 455. Theory of Public Organization. (G) 3 credit hours.

Exposes students in public affairs and administration to a variety of models and theories—both empirical and normative—of the organization of public affairs and policy-making structures in the contemporary American polity. Theories to be examined are: the classical democratic model of the body politic and its relation to contemporary bureaucratic forms of decision-making; the pluralist or polyarchal model of the organization of public affairs; and contemporary futuristic and reform-oriented models.

CSPA 460. Public Personnel Administration. (G) 3 credit hours.

Basic principles, practices, and issues of public personnel administration. The merit system, staffing, compensation, motivation, and ethics in public service. Special attention to public management, and public-employee collective bargaining.

CSPA 463. Metropolitan Government. (G) 3 credit hours.

Historical and current problems of governmental organization in metropolitan areas, proposals and operations for solutions

in the past, solutions for contemporary problems. Consent of instructor is required.

CSPA 465, 466. Administration of State and Local Government. (G) 3 credit hours each term.

Policy-making and policy-administering process within American states. Intergovernmental relationships, federal, state and local; state political processes, program responsibilities, organizational features, and administrative problems.

CSPA 467. Federal Public Administration: The Presidency. (G) 3 credit hours.

The origin and basic characteristics of the Presidency in all its parts; the contribution to its development made by particular presidents, with a comparison of the administrations; the importance of certain national events and developments in strengthening the role of the President. (No credit if credit received for PS 467.)

CSPA 468. Federal Public Administration: Departments and Agencies. (G) 3 credit hours.

The structure, features, and relationships of the major federal departments and agencies analyzed in terms of major policy implications and power relationships. (No credit if credit received for PS 468.)

CSPA 469. Federal Public Administration: Intergovernmental Relations and the Regulatory Process. (G) 3 credit hours.

The major administrative features of grants-in-aids, federal assistance, and relations with state and local governments, particularly in social policy areas; also considers selected aspects of the regulatory process at the federal level with emphasis on programs affecting consumers, environmental policy and civil rights. (No credit if credit received for PS 469.)

CSPA 470. Comparative Bureaucracy in Developing Countries. (G) 3 credit hours fall.

Study of bureaucratic institutions and functions in developing countries. Western bureaucratic models are examined: The Weberian "ideal type," the Anglo-American, the Latin, and the Soviet. Their transfer and transformation through colonialism and technical assistance to Asia, Africa, and Latin America is detailed. Bureaucracy is viewed both as a goal-setter (above or to one side of politics) and as a contender for power, with uncertain results for development programs.

CSPA 472. National Planning. (G) 3 credit hours winter.

Cultural setting, and political, economic, and social institutions of India examined to see how they are being transformed. The government's planning commission and the planning process evaluated as major agents of change. The problems of development in various sectors (agriculture and community development, industrialization, urbanization, education) analyzed. A "planning exercise" is undertaken in which students act as substantive experts on the Indian Planning Commission and compete for budgetary resources.

CSPA 474. Aid to Developing Countries. (G) 3 credit hours spring.

Origins and growth of bilateral and multilateral aid programs to the developing countries examined, with special attention to the United States program of aid, with supplementary attention to the United Nations and other programs. Cross-cultural political and administrative problems of aid programs stressed. A simulated international negotiation of next year's aid program to India concludes the course.

Graduate Courses

CSPA 501. Research.

Credit hours to be arranged. No-grade course.

CSPA 503. Thesis.

Credit hours to be arranged. No-grade course.

CSPA 505. Reading and Conference.

Credit hours to be arranged.

CSPA 507. Seminar.

Credit hours to be arranged.

Division of Leisure and Cultural Services

Mary Dale Blanton, M.S., Instructor in Recreation Management (recreation programs). B.A., Georgia, 1963; M.S., Oregon, 1970; at Oregon since 1970. Resigned, effective September 1973.

Effie L. Fairchild, M.S., Assistant Professor of Recreation Management (leadership). B.A., Florida Southern, 1955; M.S., Springfield College, 1958; at Oregon since 1970.

Phyllis M. Ford, Re.D., Professor of Recreation Management (community recreation). B.S., Massachusetts, 1949; M.A., Arizona State, 1955; Re.D., Indiana, 1962; at Oregon since 1961.

Lynn S. Rodney, Ph.D., Professor of Recreation Management (administration). B.A., 1936, M.A., 1938, Washington State; Ph.D., Michigan, 1955; at Oregon since 1955.

Leisure and Cultural Services. The division offers a major in leisure and cultural services with an emphasis in community recreation, programs in youth work, or cultural arts administration. Upon request, a special program in college-union programming can be arranged by the student's adviser. A major in leisure and cultural services encompasses course work in the School of Community Service and Public Affairs and in the Department of Recreation and Park Management of the College of Health, Physical Education and Recreation. Preference for admission to the division is given students with a year of sociology and a year of either political science, economics, anthropology, or psychology.

The major requires work in the following areas: measurement and evaluation; leisure in society; administration of leisure services; programs in leisure and cultural services; human development; strategies of intervention; group process and leadership, Supervised Field Study (CSPA 409) and the accompanying Theory-Practice Integration (CSPA 411, 412).

CSPA 382. Foundations of Leisure Programs. 3 credit hours.

Community programs related to leisure and cultural services; evaluative criteria for leisure and cultural programs; considerations in future program-planning.

Upper-Division Courses Carrying Graduate Credit

CSPA 401. Research. (g)

Credit hours to be arranged.

CSPA 403. Thesis. (g)

Credit hours to be arranged.

CSPA 405. Reading and Conference. (g)

Credit hours to be arranged.

CSPA 406. Special Problems. (G)

Credit hours to be arranged.

CSPA 407. Seminar. (G)

Credit hours to be arranged.

CSPA 408. Workshop. (G)

Credit hours to be arranged.

CSPA 409. Supervised Field Study. (G)

Credit hours to be arranged. An integral part of the CSPA curriculum required of all students, which is planned in relation to the student's total course of study. Field instruction provides the opportunity for students to work in a community setting under agency and faculty supervision.

CSPA 411, 412. Theory-Practice Integration Seminar. 3 credit hours each term.

A required component accompanying Field Instruction which combines presentations by the faculty instructor, readings and discussions designed to help the student integrate previous course work and experience with the field placements.

CSPA 480. Organization of Leisure Services. (g) 3 credit hours winter.

Organizational problems; board powers, duties, roles, issues; organizing leisure services; community relations.

Program Evaluation and Development

Michael G. Saslow, Ph.D., Associate Research Professor (evaluation of training, research, action projects). Project Director. A.B., Harvard, 1960; Ph.D., University of California, Berkeley, 1966; at Oregon since 1971.

James Marshall, M.B.A., Instructor (systems analysis, management science, statistics). Associate Project Director. B.A., 1968, M.B.A., 1969, Colorado; at Oregon since 1972.

D. Lynn McDonald, M.Ed., Assistant Professor (evaluation, program development). B.A., Stanford, 1966; M.Ed., Oregon State, 1970; at Oregon since 1972.

The PED Program is a senior-year program which prepares students to function as evaluators and planners within their chosen careers. The program attracts people from all divisions of CSPA who want additional training, and a year-long (two days a week) field placement in evaluation and planning skills. Students may enter the program with a wide variety of experiences and academic majors. The PED Program is a special program within CSPA funded by the National Institute of Mental Health.

Instructional goals and content are described by the following points:

(a) Field experiences are the program's primary focus and have a significant impact on the seminar content.

(b) Student criticism on instruction and staff performance is sought and used.

(c) Field experiences are developed around specific tasks and products.

(d) The choice of a field placement, and specification of the field products are the results of negotiations between the students, the agency, and the program field instructor. The negotiated product reflects the interests of each party.

(e) The instructional goals of the program are to enable students to gain competence in five areas: (1) entry; (2) problem identification; (3) planning and implementing evaluation programs; (4) planning and implementing development programs; (5) implementing program change.

The PED Program requires the student's full participation for the senior year; 12 credit hours consisting of field (6 credits), theory-practice integration (3 credits), and seminar (3 credits) are required for each of the three terms. Additional coursework is not recommended.

Admission. Priority is given to CSPA students who are fulfilling the requirements within one of its divisions. Application to the program should be made in summer 1973. Students must have senior standing at the beginning of fall term 1973.

Requirements. The courses listed are required each term of the 1973-74 academic year.

CSPA 409. Supervised Field Study. 6 credit hours.

The field study is the major learning experience. A minimum of two days a week is spent at the placement performing specific negotiated tasks.

CSPA 411, 412. Theory-Practice Integration. 3 credit hours.

Individual or small group sessions during which the student's field instructor may be consulted on problems encountered in the field. Sessions are designed to help integrate seminar content with performance in the field and to provide comment for seminar planners.

CSPA 407. Seminar: Evaluation, Planning, and Program Development. 3 credit hours.

Theories, models, and concepts are illustrated, demonstrated, and practiced; focus is on concepts of high utility in the field.

Career Information System

Director, Bruce McKinlay, Ph.D., Research Associate and Adjunct Associate Professor of Public Affairs (manpower economics). B.S., 1958, M.A., 1967, Ph.D., 1971, Oregon; at Oregon since 1968.

John S. Clyde, M.S., Research Associate (school psychological services). B.S., South Dakota, 1969; M.S., Oregon, 1963; at Oregon since 1972.

Joi E. Kather, M.S., Research Assistant (occupational information, counseling psychology), B.A., Purdue, 1970; M.S., Indiana, 1972; at Oregon since 1972.

Richard T. Klotz, M.S., Research Assistant (industrial and labor relations). B.S., Colorado State, 1964; M.S., Oregon, 1971; at Oregon since 1972.

Michael J. Shadboldt, B.S., Research Assistant (occupational information). B.S., Oregon, 1966; at Oregon since 1971.

Jerome T. Weick, B.A., Research Assistant (public administration). B.A., University of Portland, 1962; at Oregon since 1972.

The Career Information System (CIS), a unique statewide inter-agency consortium, provides current labor market information in usable forms to individuals, schools, and social agencies in Oregon. The purpose is to improve career choices and training opportunities.

CIS enhances the efforts of agencies and schools involved in occupational counseling and education by collecting current labor market information and developing it into usable forms; developing and managing delivery systems; consulting with user agencies on use of career information in counseling and instructional programs.

Oregon Project NewGate

V. Lee Layman, M.A., Adjunct Associate Professor; Director. B.A., Walla Walla, 1960; M.A., Andrews (Mich.), 1961; at Oregon since 1970.

David Allen, M.A., Instructor. B.S., Southern Oregon College, 1966; M.A., Missouri, 1970; at Oregon since 1971.

Dennis Crawford, M.E.D., Instructor. B.A., Linfield, 1955; B.D., Colgate Rochester Divinity School, 1958; M.E.D., Oregon State, 1971; at Oregon since 1971.

Howard Cox, S.E.D., Adjunct Instructor; Assistant Director. B.S.E.D., Westminster College, 1957; S.E.D., Utah State, 1970; at Oregon since 1973.

Richard Frey, L.L.B., Instructor. B.A., Cornell, 1962; L.L.B., Texas, 1966; at Oregon since 1972.

John Knittel, M.S., Instructor. B.S.E.D., 1964, M.S., 1966, Kansas State; at Oregon since 1971.

Nancy Lindburg, M.F.A., Instructor. B.A., Mills, 1956; M.F.A., Cranbrook Academy of Arts, 1968; at Oregon since 1970.

Tom Masters, M.S., Instructor. B.S., 1968, M.S., 1972, Nebraska; at Oregon since 1972.

Ruth Perkins, M.A., Instructor. B.A., Northwest Missouri State, 1963; M.A., Colorado State, 1965; at Oregon since 1972.

Stephen Perry, M.S., Instructor. B.S., 1968, M.S., 1970, Oregon College of Education; at Oregon since 1970.

Karl Smith, M.S., Instructor. B.A., Northwest Christian College, 1962; B.D., Pacific School of Religion, 1968; M.S., Oregon College of Education, 1971; at Oregon since 1971.

Oregon Project NewGate is a demonstration project created by the Office of Economic Opportunity in cooperation with the Division of Corrections. Inside the prison, students may move through a college preparatory program to a regular college curriculum experience. When readiness for the outside phase is determined, the student moves from the prison to a regular university campus on school release status. Such students at the University of Oregon live at a special campus center where they receive help in preparing them for the next phase, parole and independent living. Throughout the program, intensive counseling and other supportive services are provided.

College of Education

Dean, Robert D. Gilberts, Professor of Educational Administration (problems of urban schools, conflict management). B.S., Wisconsin State University at Eau Claire, 1950; M.S., 1955, Ph.D., 1961, Wisconsin, Madison; at Oregon since 1970.

Robert H. Mattson, Professor of Education (special education). Associate Dean. B.A., Montana, 1949; M.A., Iowa, 1950; D.Ed., Oregon, 1959; at Oregon since 1957.

Clarence W. Schminke, Professor of Education (elementary teacher education). Associate Dean, Director of Teacher Education, Director of University Summer Session. B.A., 1950, M.A., 1954, Iowa State Teachers College; Ph.D., Iowa, 1960; at Oregon since 1960.

Kenneth A. Erickson, Professor of Education (personnel administration, school surveys, superintendency). Director of Field Training and Service Bureau. B.S., Oregon, 1941; M.A., 1948, Ed.D., 1953, Washington State; at Oregon since 1967.

Steven M. Goldschmidt, Assistant Professor of Education (law and education; juvenile delinquency). Assistant to Dean. B.A., Oregon, 1966; J.D., California, Berkeley, 1969; M.A., Oregon, 1972; at Oregon since 1969.

Ruth P. Waugh, Assistant Professor, Special Education (learning disabilities). Director of DeBusk Memorial Center. B.A., Southern Oregon College, 1957; M.A., 1963, Ph.D., 1971, Oregon; at Oregon since 1963.

THE College of Education was established in 1910 as a School of Education. The change to a college with departmental organization became effective in 1968.

The college offers undergraduate programs for elementary-school and junior high-school teachers, and teachers of the mentally retarded and physically handicapped.

Graduate programs are offered in the areas listed above as well as for teachers of secondary schools, children with extreme learning problems, gifted children, children with socio-emotional problems, and disadvantaged children.

The college also offers graduate programs for school service personnel including school superintendents, elementary- and secondary-school principals, supervisors, guidance counselors, school psychologists, and administrators of special education programs.

Graduate work in education leads to the following degrees: Master of Arts, Master of Science, Master of Education, Doctor of Education, and Doctor of Philosophy.

Information about specific programs is included in the appropriate departmental section. Information concerning requirements for admission to graduate programs is available from the College of Education Graduate Personnel Office.

The University of Oregon is accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary-, junior high-, and senior high-school teachers, school administrators, and school personnel specialists. The graduate programs in these fields, leading to master and doctor degrees, are also accredited by the National Council.

The following education honorary societies have active chapters at the University: Pi Lambda Theta for women, and Phi Delta Kappa for men.

Field Training and Service Bureau

The Field Training and Service Bureau provides consultant and field services aimed at solving problems related to the administration, organization, financing, and operation of educational programs as well as the construction or evaluation of educational facilities. To do this, the bureau (1) provides professional growth opportunities for school districts, professional organizations and individuals through workshops, conferences, or training programs; (2) provides laboratory experiences for graduate research assistants through internships in a variety of field experiences; (3) disseminates helpful information concerning exemplary practices and new developments in education; (4) expands communications systems between the College of Education and the field wherever needed, e.g., coordinates service requests from outside the university with appropriate university resource personnel.

Affiliated with the bureau is the Oregon School Study Council, which draws upon resources provided by the bureau. The OSSC is financed by its member school districts.

Oregon School Study Council

The Oregon School Study Council is a division of the Field Training and Service Bureau, and operates on a membership basis. To serve its school district members, the Oregon School Study Council (1) publishes monthly and special bulletins as well as quarterly reports dealing with important and current educational developments; (2) carries out requested research on special educational problems; (3) arranges for conferences in which member schools may discuss and work toward solving pertinent problems; (4) schedules visitation programs for member districts to exemplary educational programs or facilities; and (5) lends special library and research materials requested by administrators.

DeBusk Memorial Center

DeBusk Memorial Center is a service, training, and research facility functioning in the College of Education. Its purposes are to provide counseling to a wide range of clients from the surrounding community, and to provide evaluation and tutoring for teaching disabled children. Graduate students at the master and doctoral level in the department of counseling and special education participate with senior faculty in these programs as an integral part of their professional training and research.

Center on Human Development

Robert H. Schwarz, Professor of Education (special education). Director of the Center on Human Development. B.S., Wisconsin, 1948; M.A., Columbia, 1949; Ph.D., American, 1966; at Oregon since 1971.

- Phillip Browning, Associate Professor of Education (special education). B.A., Howard Payne, 1962; M.A., Texas Technological, 1966; Ph.D., Wisconsin, 1969; at Oregon since 1968.
- Barbara H. Colvin, Instructor in Education (special education). B.A., Oregon, 1965; M.A., Portland State, 1968; at Oregon since 1972.
- James E. Crosson, Associate Professor of Education (special education). Educational Director, Regional Resource Center. A.A., Independence Junior College, 1953; B.S., 1959, M.S., 1960, Kansas State; Ed.D., Oregon, 1966; at Oregon since 1966.
- J. C. Delquadri, Instructor in Education (special education). Master Teacher Trainer. B.A., 1964, M.Ed., 1967, Idaho State; at Oregon since 1971.
- M. Marilyn Dumaresq, Instructor in Education (special education). B.A., McGill University, 1968; M.A., British Columbia, 1972; at Oregon since 1972.
- Larry L. Dyer, Research Associate in Education (special education). B.A., Upland College, 1962; M.A., Southern Illinois at Carbondale, 1967; Ed.D., Indiana, 1970; at Oregon since 1972.
- C. R. Greenwood, Research Associate in Education (special education). B.S., 1969, M.S., 1971, Ph.D., 1972, Utah; at Oregon since 1972.
- Gregoria N. Halley, Instructor in Education (special education). B.S., 1959, M.S., 1967, Southern Connecticut State; at Oregon since 1970.
- Andrew S. Halpern, Associate Professor of Education (special education). Educational Director, Research and Training Center. B.A., Carleton College, 1961; M.A., Yale, 1963; Ph.D., Wisconsin, 1966; at Oregon since 1970.
- Hyman Hops, Research Associate in Education (special education). B.A., Sir George Williams University, 1959; M.A., Toronto, 1962; Ph.D., Oregon, 1971; at Oregon since 1971.
- Sharon B. Hutton, Instructor in Education (special education). Master Teacher Trainer. B.S., Eastern Oregon College, 1965; M.S., Oregon, 1970; at Oregon since 1971.
- Sally Johnson, Instructor in Education (special education). B.S., Northwestern, 1969; M.A., North Dakota, 1971; at Oregon since 1972.
- Dale J. Koehler, Instructor in Education (special education). B.A., 1957, M.A., 1971, Sacramento State College; at Oregon since 1970.
- Wayne D. Lance, Associate Professor of Education (special education). Director of SEIMC. B.A., 1953, M.A., 1960, Redlands; Ed.D., George Peabody College, 1964; at Oregon since 1967.
- Glen Latham, Assistant Professor of Education (special education). B.S., 1960, M.S., 1965, Utah; Ed.D., Utah State, 1971; at Oregon since 1971.
- Kathleen A. Liberty, Instructor in Education (special education). B.A., 1969, M.A., 1971, Oregon; at Oregon since 1970.
- Isabelle Littman, Research Associate in Education (special education). B.A., Hunter College, 1940; M.A., Ohio State, 1948; Ph.D., Oregon, 1971; at Oregon since 1971.
- Anderson J. Martin, Instructor in Education (special education). B.A., Brook's Institute of Photography (Santa Barbara), 1970; M.A., San Jose State College, 1972; at Oregon since 1972.
- A. Gail O'Conner, Assistant Professor of Education (special education). B.A., 1962, M.A., 1965, Ph.D., 1970, Southern California; at Oregon since 1971.
- Lou R. Osternig, Visiting Assistant Professor of Education (special education). B.S., 1965, M.S., 1967, California State at Hayward; Ph.D., Oregon, 1971; at Oregon since 1972.
- R. S. Parker, Instructor in Educational Administration (early education program). B.A., Reed, 1948; M.A., Washington, 1950; at Oregon since 1965.
- Gerald R. Patterson, Professor of Education (special education). B.S., 1949, M.S., 1951, Oregon; Ph.D., Minnesota, 1956; at Oregon since 1957.
- William R. Pellant, Assistant Professor of Education (special education). B.A., 1958, M.Ed., 1962, Montana; Ed.D., Idaho, 1971; at Oregon since 1971.
- Connie Jo Ray, Instructor in Education (special education). B.S., 1966, M.S., 1971, Oregon; at Oregon since 1971.
- Mary Margaret Rogers, Instructor in Education (special education). B.A., Western Washington College, 1955; M.S., Oregon, 1968; at Oregon since 1971.
- Bertram Romo, Research Associate in Education (special education). B.A., San Francisco State College, 1960; M.S., 1963, Ph.D., 1970, Oregon; at Oregon since 1968.
- E. G. Sitkei, Research Associate in Education (special education). B.A., 1949, M.Ed., 1952, University of California; Ed.D., Southern California, 1966; at Oregon since 1972.
- Nonda P. Stone, Senior Instructor in Education (special education). B.S., Oregon College of Education, 1945; M.Ed., 1955, D.Ed., 1971, Oregon; at Oregon since 1965.
- Hill M. Walker, Associate Professor of Education (special education). B.A., Eastern Oregon College, 1962; M.A., 1964, Ph.D., 1967, Oregon; at Oregon since 1964.
- Patricia Ann Wathen, Instructor in Education (special education). B.A., College of the Holy Names, California, 1964; M.S., Oregon, 1971; at Oregon since 1971.
- Owen Roberts White, Instructor in Education (special education). Research Director of Regional Resource Center. B.A., Willamette, 1967; M.A., 1970, Ph.D., 1971, Oregon; at Oregon since 1967.
- Richard W. Zeller, Instructor in Education (special education). B.A., Willamette, 1967; M.A., UCLA, 1968; at Oregon since 1972.

The center was organized to provide a unified approach to research and the delivery of trained manpower and services by the following federally funded projects: (1) Center at Oregon for Research in the Behavioral Education of the Handicapped (CORBEH); (2) Regional Resource Center; (3) Research and Training Center on Mental Retardation; (4) Special Education Instructional Materials Center; (5) University Affiliated Facility.

The programs include a diagnostic clinic that provides evaluations for children and young adults with unique medical-behavioral problems, classrooms for preschool, multiple-handicapped children, field services such as seminars, educational consultation to schools, the loan of a wide range of educational materials and an ongoing research project designed to facilitate the educational programming of disturbed children in a public school setting. Although the staff of the Center is involved in training and research specific to the mandates of the projects, collaborative efforts have extended the impact of the total program. Skills and techniques developed by the staff are disseminated widely and school systems and agencies are encouraged to continue and extend programs with local support.

Counseling

Faculty

Department Head, John W. Loughary, Ph.D., Professor of Education (career development, learning systems development). B.S., Oregon, 1952; M.A., 1956, Ph.D., 1958, Iowa; at Oregon 1962-64, and since 1965.

Martin H. Acker, Ph.D., Professor of Education (human sexuality, corrections). B.A., Brooklyn, 1943; M.A., 1953, Ph.D., 1963, New York University; at Oregon since 1964. (On leave, 1973-74.)

James R. Booth, M.S., Senior Instructor in Education (rehabilitation). B.S., Boston University, 1952; M.S., William and Mary, 1956; at Oregon since 1962.

Jacqueline S. Brockway, M.S., Senior Instructor in Education (marriage). B.S., Oregon State, 1940; M.S., Oregon, 1960; at Oregon since 1966. (On sabbatical leave, spring 1973-74.)

Constantine Columbus, M.S., Instructor in Education (rehabilitation). B.A., U.C.L.A., 1958; M.S., Oregon, 1972; at Oregon since 1972.

Mason R. Davis, M.S., Instructor in Education (rehabilitation). B.S., Wisconsin State at Platteville, 1964; M.S., Oregon, 1971; at Oregon since 1971.

Gordon A. Dudley, Ed.D., Associate Professor of Education (counseling theory and procedures). B.A., Kalamazoo, 1956; M.A., Colorado, 1959; Ed.D., Harvard, 1971; at Oregon since 1967.

Susan K. Gilmore, Ph.D., Associate Professor of Education; Counselor (counseling theory and procedures). B.A., Whitworth, 1956; M.S., 1962, Ph.D., 1966, Oregon; at Oregon since 1964.

Harold W. James, Ph.D., Assistant Professor of Education (rehabilitation). B.A., San Francisco State, 1956; M.S., 1970, Ph.D., 1973, Oregon; at Oregon since 1968.

Gerald D. Kranzler, Ed.D., Professor of Education (child guidance). B.S., Jamestown College, 1956; M.Ed., 1959, Ed.D., 1964, North Dakota; at Oregon since 1967. (On sabbatical leave, winter 1973-74.)

Raymond N. Lowe, Ed.D., Professor of Education (family and school counseling). B.S.Ed., Massachusetts State, Fitchburg, 1940; M.A., 1948, Ed.D., 1951, Northwestern; at Oregon since 1955. (On sabbatical leave, fall 1973-74.)

Esther E. Matthews, Ed.D., Professor of Education (human potentiality, career development). B.S., Massachusetts State, 1940; M.Ed., 1943, Ed.D., 1960, Harvard; at Oregon since 1966.

Theresa M. Ripley, Ph.D., Assistant Professor of Education (group procedures, career development). B.S. with Honors, Illinois State, 1966; M.S.Ed., Indiana, 1968; Ph.D., Oregon, 1971; at Oregon since 1971.

Ronald J. Rousseve, Ph.D., Professor of Education; Professor of Community Service Programs (values in guidance, education, black Americans). B.S., 1953, M.A., 1954, Xavier; Ph.D., Notre Dame, 1958; at Oregon since 1968.

Saul Toobert, Ph.D., Associate Professor of Education; Associate Director, University Counseling Center (group and individual counseling). B.A., California, 1947; Ph.D., Oregon, 1965; at Oregon since 1963.

THE Counseling Department offers integrated programs of classroom, practicum, and field experience leading to graduate degrees at both the master and doctoral levels.

The graduate programs offered by the department are briefly described here. Supplementary information relating to more general University policies and procedures may be obtained from the Graduate Personnel Office of the College of Education and from the Graduate School section of this catalog.

Master Degree Programs

At the master degree level, the Department offers a generic program of studies in counseling designed to prepare professional practitioners for work in schools, vocational rehabilitation agencies, community mental health centers, employment service offices, community-college counseling centers, juvenile corrections agencies, human resources development programs, pastoral counseling settings, and family counseling centers.

The program of studies leading to the master degree in counseling normally requires the accumulation of 60 term hours of credit beyond the bachelor degree, and typically involves from four to six terms of formal study. Although each student is required to master a number of understandings, knowledges, awarenesses, skills, and competence, there is a high degree of flexibility as to how these program components will be mastered. The particular program of preparation most appropriate for a given student is designed by the individual student and adviser in light of the student's background and previous experience, present professional goals, and the program components. Up to 15 credit hours of acceptable graduate credit from other universities may be transferred to a degree program.

Program Components. In order to assure the thorough preparation of the counselor, the department affords learning experiences, via its own resources and those of the University at large, which cover the following required program components.

- (1) Understanding of anthropological (cultural), psychological, and sociological foundations of human development and behavior.
- (2) Knowledge of career development and occupational choice.
- (3) Understanding and skills in appraisal and measurement.
- (4) Understanding of counseling theories and techniques.
- (5) Knowledge of research methodology and statistics.
- (6) Knowledge about schools and community social agencies in which one plans to function.
- (7) Awareness of the several aspects of counseling as a profession including philosophical foundations, ethical standards, professional practice, interprofessional relationships, and the like.
- (8) Practitioner competence in observing human behavior; interpreting human behavior; facilitating the consideration of alternative behavior; and, facilitating behavioral change.

Degrees. Upon completion of a program of studies, the student will be granted a Master of Arts (M.A.), Master of Science (M.S.), or Master of Education (M.Ed.) degree in counseling. For the M.A. degree, the candidate must demonstrate proficiency in one foreign language. For the M.Ed. degree, a candidate is required to have a valid teaching certificate and to have completed at least one year of successful classroom teaching. At the master level, the development of a research project, field study, or thesis is optional.

Previous Study. Admission to graduate study at the master level is open to persons with a variety of background experiences and academic concentrations at the undergraduate level. However, it is assumed that each applicant will have completed coursework in the basic concepts in the behavioral disciplines. Furthermore, prospective applicants wishing to pursue programs in elementary and secondary school counseling are advised that, currently, Oregon and many other states still require teacher certification and teaching experience prior to the granting of counselor certification.

Admissions Procedures. A continuous admissions policy is followed. This policy permits applicants to be admitted each term depending upon the number of student graduations the previous term. Thus, when the fall quota is filled, applicants otherwise acceptable will be notified of their acceptance for subsequent terms. When in the judgment of the department, the number of anticipated acceptances for subsequent terms has been reached, no additional applications will be received.

The department's timetable for distributing and receiving application materials begins in September and extends until any given pool is closed. It should again be noted that this is a sliding schedule, and prospective applicants should be aware that the department's admissions system permits a closing date for receipt of applications which could conceivably fall before the absolute February 1 date announced by the College of Education.

Only completed applications will be placed in the several pools and subsequently reviewed. Prospective applicants must themselves shoulder the responsibility for making sure that all necessary supporting papers are submitted with dispatch.

Prospective applicants at the master-degree level are invited to request a packet of application materials.

Selection criteria include quality of previous academic performance, quality of supporting references, pattern of either previous work or life experiences or both, cogency of the expressed rationale for seeking admittance to the department, and a judgment as to the applicant's probable professional promise.

Master Studies: Summer Sessions Only. To accommodate persons who wish to pursue a master-degree program but whose employment schedule may prevent them from enrolling for course work during the regular academic year (e.g., teachers), the department has established a "summers only" category of students. Such students typically return to the campus during successive summers until their programs of study are completed.

Doctoral Degree Programs

The program of study leading to the doctoral degree in Counseling Psychology is approved by the American Psychological Association and typically entails a minimum of four years of full-time effort beyond the bachelor degree, representing an investment of at least 135 graduate credit hours. A full academic year of intern-

ship is normally required during the course of the doctoral program. Students applying for admission to the counseling psychology program are generally expected to have a master degree and to have had some professional experience related to the field of counseling. Doctoral degrees are granted in recognition of exceptional mastery of knowledge and skills in the field of counseling.

The doctoral program in counseling psychology may lead to either the Doctor of Philosophy (Ph.D.) degree or the Doctor of Education (D.Ed.) degree. In addition to other requirements, the Ph.D. requires a thesis which indicates a high level of scholarship, including original thinking and the ability to advance knowledge. The candidate for a D.Ed. degree may submit a thesis of an expository nature involving a study in which the student uses effectively knowledge already available, and produces a constructive result of practical importance and value to counseling psychology. Further references to the doctoral program or doctoral degree requirements or both apply both to the Ph.D. and the D.Ed. degrees, unless otherwise specified.

Program Components. The purpose of the doctoral program in counseling psychology is to prepare individuals to become proficient in the following four areas:

(1) Knowledgeable Human Behavior Specialists. I.e., psychologists who possess a general knowledge of human behavior, together with special observational and information-processing skills which facilitate description, explanation, and prediction of the behavior of persons in transaction with their worlds.

(2) Competent Practitioners of Counseling Psychology. I.e., psychologists who have mastered technologies for influencing the transactions of individuals, groups and systems, e.g., career planning, interviewing, sensitivity group training, man-machine delivery of vocational information, family counseling, behavior modification, desensitization, role-playing, and social-action program development.

(3) Skillful Producers and Consumers of Human-Behavior Research. I.e., psychologists who have developed the necessary attitudes and sufficient competence to formulate useful, researchable questions, design and conduct systematic analyses, interpret and apply the results of their own and others' efforts to increase the general knowledge of human behavior and the knowledge of the means whereby it can be influenced.

(4) Active Professional, Ethical Agents. I.e., psychologists who: (a) recognize that professional credentials, by definition, include commitment to a particular view of man and a definition of the good life, as well as the acceptable means for achieving it; (b) strive to make explicit, review, and revise such commitments; and (c) actively work with individuals, groups, and systems to realize those commitments.

Program Development. In accord with our present understanding of how individuals develop and change, the training program in counseling psychology demands of all students considerable responsibility and autonomy for designing the particular pattern of educational experiences which will constitute their individual doctoral program. General categories of competence have been defined; general requirements have been established. However, the specific manner in which an individual meets these requirements is determined by the student in consultation with an adviser, and departmental evaluation.

Recent graduates with doctoral degrees from the department are now employed in the following capacities: counselors in college and university counseling centers, directors of guidance in public school districts, counseling psychologists in state and veterans,

hospitals, university level teaching and research, school psychologists, government and industrial research and consulting psychologists, program administrators.

Financial Aid. Financial assistance for doctoral students is very limited. However, in the past, most doctoral students needing financial assistance have been able to secure part-time counseling related jobs in the University or the local community.

Admission Procedures. There are two admission routes to the doctoral program: (1) a general pool, and (2) faculty sponsorship. Because of the historically large number of applications to the program, on-going associations of most faculty members with several highly qualified potential applicants, and limited clerical resources, the sponsorship route was initiated. In brief, admission procedures are as follows: Each fall, the number of vacancies in the program is projected. The number of those assigned to the general pool and the number reserved for sponsorship are determined.

Under the general-pool procedure, potential applicants should request application materials. Completed applications are evaluated by the Doctoral Program Committee which recommends to the General Staff. The pool closes on or before February 1, depending upon when a sufficient number of completed sets of application materials are received. Notices of final disposition of applications are provided by March 15.

Under the sponsorship procedure, potential applicants obtain a written statement of sponsorship from the faculty member involved. Upon receipt of this statement, the department's student-personnel secretary will provide application materials. From this point, the pool procedures are followed. Sponsorship applications are made throughout the year as vacancies occur.

Potential applicants are discouraged from seeking sponsorship from faculty with whom they have not already established a close relationship; the intent of the sponsorship policy is to accommodate associations between faculty and students which have developed over a long period of time.

Selection Criteria. Pool students are requested to submit MAT or GRE test scores. Other criteria include (1) quality of past academic performance, (2) related work experience, (3) personal reference letters, and (4) evaluation of a sample of written work.

The department has an active Affirmative Action program and encourages applications from women and minority group members. Practicum and internship opportunities are very broad and special interests are usually accommodated. An informal internship arrangement with a British university can be arranged for a small number of students.

Coun 405. Reading and Conference.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

Coun 407. Seminar. (G)

Credit hours to be arranged.

Coun 407. Seminar: Group Counseling. (G) 3 credit hours.

A semi-structured seminar designed to facilitate development

of group-leadership skills. The major topics include: group process and group objectives, factors which facilitate and burden constructive interaction, assessment of continuing process in the group and some interventions, groups, and the larger social context. Acker.

Coun 407. Seminar: Communications Laboratory. (G) 3 credit hours.

Prepracticum training: initial stages of a counseling relationship; semi-structured communication exercises; direct personal response, and small group discussion. Prerequisite for all departmental practica offerings. Brockway.

Coun 407. Seminar: Counseling Exceptional Children. (G) 3 credit hours.

Interpersonal communication skills for teachers of exceptional children, youth, and their parents. Browning.

Coun 407. Seminar: Counseling Forum. (G) 1 credit hour.

Introduction to the range of professional concerns, viewpoints, and styles of the Counseling Psychology faculty. Dudley.

Coun 407. Seminar: Counseling Procedures. (G) 3 credit hours.

Strategies for accomplishing counseling purposes of choice, change, and confusion reduction. Demonstration/discussion of individual counseling by instructor. Gilmore.

Coun 407. Seminar: Moral and Ethical Issues in Counseling. (G) 3 credit hours.

Gilmore.

Coun 407. Seminar: Community College Counseling. (G) 3 credit hours.

An overview of the community college—history, organization, and development—with particular emphasis upon student-personnel services and the counselor's role and function in the community college. Hills.

Coun 407. Seminar: Introduction to Rehabilitation. (G) 3 credit hours.

History, philosophy, structure and function of rehabilitation services. Examination of the role of the counselor in the rehabilitation setting, the needs of the socially, culturally, and physically disadvantaged and how rehabilitation services meets these needs. James.

Coun 407. Seminar: Medical Aspects of Rehabilitation. (G) 3 credit hours.

Develops an understanding of the functional impact of various disabling conditions, both physiological and psychological, upon the individual; reviews major body systems and organs; considers major disease entities and types of trauma and the types of impairments usually associated with these; and provides for integration of such data into vocational rehabilitation casework with clients for purposes of assessment and planning. James.

Coun 407. Seminar: Management and Supervision. (G) 3 credit hours.

Develops concepts to understand supervisory process so as to promote effective supervisory practices. Considers wide ranges of agency management problems and tasks. James.

Coun 407. Seminar: Classroom Guidance Techniques. (G) 3 credit hours.

A problem-solving approach to child guidance. Seminar intended for classroom teachers and school counselors. Kranzler.

Coun 407. Seminar: Patterns in Child Behavior. (G) 3 credit hours.

Designed for students who have completed the course, The

Maladjusted Child or Dreikursian Principles of Child Guidance, and wish to continue a critical examination of Dreikurs' principles. Lowe.

Coun 407. Seminar: Democratic Practices in the Classroom. (G) 3 credit hours.

An opportunity to participate in a classroom program initiated and executed upon the basis of democratic principles. Lowe.

Coun 407. Seminar: Career Guidance Education. (G) 3 credit hours.

Designed to provide elementary and secondary teachers with an overview of career-development concepts and an opportunity to learn specific classroom procedures for doing career guidance. Ripley.

Coun 407. Seminar: Foundations for Counseling Black Americans. (G) 3 credit hours.

Background perspectives on the developmental potential, socio-political stresses, and educational dilemmas of contemporary black Americans as a basis for effective counseling with them. Rousseve.

Coun 407. Seminar: Values in Counseling. (G) 3 credit hours.

Exploration of values as a dimension of the counseling process and as a component in the search for personal meaning against a background of social unrest. Rousseve.

Coun 407. Seminar: Appraisal I. (G) 3 credit hours.

Introduction to measurement principles as they apply to counseling. Topics include basic statistical concepts, the standardization of tests, theories of mental organization. Measures of reliability, factors that influence reliability, and validity. Tinsley, Kranzler.

Coun 407. Seminar: Occupational Information. (G) 3 credit hours.

Acquaints potential counselors with history of work, occupational structure in U.S., sources and use of occupational information in counseling. Matthews.

Coun 409. Practicum. (G)

Credit hours to be arranged. No-grade course. Includes supervised counseling at DeBusk Memorial Center and other facilities appropriate to student's plans.

Coun 409. Practicum: Elementary School Counseling. (G)

Credit hours to be arranged. No-grade course. Supervised counseling experience in local elementary schools.

Coun 409. Practicum: Secondary School Counseling. (G)

Credit hours to be arranged. No-grade course. Supervised counseling experience in local secondary schools.

Coun 409. Practicum: Community College Counseling. (G)

Credit hours to be arranged. No-grade course. Supervised counseling experience at Lane Community College or other community colleges.

Coun 409. Practicum: Rehabilitation Counseling. (G)

Credit hours to be arranged. No-grade course. Supervised counseling experience in local rehabilitation facilities.

Coun 409. Practicum: Procedures in Family Counseling. (G) 3 credit hours.

Students interested in pursuing the professional aspects of family counseling gain understanding and skills in counseling and administration in the Community Parent-Teacher Education Center. Intensive participation in the operation of the Center is required. A no-grade course. Consent of instructor

required. Prerequisite: Dreikursian Principles of Child Guidance, Role Playing, Patterns of Child Development. Lowe.

Coun 409. Practicum: Family Counseling. (G) 3-6 credit hours.

Designed to afford students experience in co-counseling parents and children within the scope and purposes of the Community Parent-Teacher Education Center at an introductory level. Close supervision is required. Includes leading parent-study groups, student-study groups, playroom supervision, intake interviewing, case-recording, and case-staffing. A no-grade course. Consent of instructor required. Prerequisite: Procedures in Family Counseling. Lowe.

Coun 463. Dreikursian Principles of Child Guidance. (G) 3 credit hours.

The discovery and treatment of emotionally and socially maladjusted children: the home, the school, and the community in relation to children's mental health. Opportunities for observing family-counseling techniques. Principles are based upon ideas contributed by Alfred Adler and Rudolf Dreikurs. Lowe.

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

A general overview of the guidance function in a free society; principles and procedures attendant to guidance and counseling services in American schools. Rousseve.

Coun 488. Educational and Vocational Guidance. (G) 3 credit hours.

Designed to broaden theoretical understanding of career development theory and to encourage application of theory to the practice of vocational and educational guidance within diverse settings (schools, clinics, employment centers). Matthews, Loughary.

Graduate Courses

Coun 501. Research.

Credit hours to be arranged. No-grade course.

Coun 503. Thesis.

Credit hours to be arranged. No-grade course.

Coun 505. Reading and Conference.

Credit hours to be arranged.

Coun 507. Seminar.

Credit hours to be arranged.

Coun 507. Seminar: Supervision. 3 credit hours.

Primarily for doctoral students serving as adjunct supervisors of counseling practica. Examination of theory and individual case material with focus upon style, strategies, tactics, and skills essential to effective supervision of the counseling process. Acker.

Coun 507. Seminar: Interviewing. 3 credit hours.

An examination of the extrinsic and intrinsic factors affecting the initiation and maintenance of effective interaction in counseling. Acker.

Coun 507. Seminar: Somatopsychology. 3 credit hours.

An examination of psycho-social perceptions of physical disability with particular emphasis upon the impact that the phenomena of stigmatization have upon the behavior of client and counselor. Acker.

Coun 507. Seminar: Imagination and Learning. 3 credit hours.

An exploration of "preconscious" mental processes and their influence upon the development of self-knowledge, thinking, feeling, and action. Dudley.

Coun 507. Seminar: Doctoral Proseminar. 3 credit hours.

Examination of critical issues in the profession and practice of Counseling Psychology. Dudley.

Coun 507. Seminar: Current Rehabilitation Issues. 3 credit hours.

Examines structure and function of state-federal vocational rehabilitation program in relation to the ideological base of federal legislation. James.

Coun 507. Seminar: Thesis. 3 credit hours.

Provides opportunity to review basic problems and procedures of the doctoral-dissertation project. Outcomes include idea papers and dissertation proposals. Loughary.

Coun 507. Seminar: Adlerian Theory. 3 credit hours.

An intensive consideration of Adler's "Theory of Individual Psychology." Lowe.

Coun 507. Seminar: Rational Self-Renewal. 3 credit hours.

Philosophical and psychological aspects of rational humanism as a basis for personal self-renewal and for determining developmental goals in counseling. Rousseve.

Coun 507. Seminar: Appraisal II. 3 credit hours.

Use of aptitude, ability, interest, and personality tests in counseling. Focuses upon the interpretation of widely used tests and the integration of test information into the continuous counseling process. Kranzler.

Coun 507. Seminar: Research in Counseling. 3 credit hours.

An introduction to the use of computers in analyzing data, an overview of counseling research as it appears in the leading journals, and a consideration of traditional research concerns such as research design, sampling, and questionnaire construction. Loughary.

Coun 507. Seminar: Laboratory Procedures in Counseling. 3 credit hours.

Advanced course on group procedures. The focus is on techniques of group leadership, group dynamics, measurement of small groups, and design of laboratories for human-relations training. Emphasis on learning by participating in group experience. Toobert.

Coun 507. Seminar: Developmental Counseling and the Human Career. 3 credit hours.

Designed for advanced graduate students interested in career development over the life-span as illuminated by developmental counseling philosophy. Matthews.

Coun 507. Seminar: Human Potentiality Theorists. 3 credit hours.

Application of work of such theorists as Erikson, White, Maslow, Murphy, and Fuller to changing conceptions of human potentiality. Matthews.

Coun 507. Seminar: Career Development of Girls and Women. 3 credit hours.

Life-span consideration of changing social and psychological

viewpoints regarding the career development of girls and women. Matthews.

Coun 508. Workshop.

Credit hours to be arranged. No-grade course.

Coun 508. Workshop: Role-Playing Techniques. 3 credit hours.

Designed to assist students in gaining skills in working with children and youth through the use of spontaneous dramatization. Techniques are based upon the principles discussed in Dreikursian Principles of Child Guidance. No-grade course. Consent of instructor required. Prerequisite: Dreikursian Principles of Child Guidance. Lowe.

Coun 509. Practicum.

Credit hours to be arranged. No-grade course.

Coun 509. Practicum: Elementary School Counseling.

Credit hours to be arranged. No-grade course. Supervised counseling experience in local elementary schools.

Coun 509. Practicum: Secondary School Counseling.

Credit hours to be arranged. No-grade course. Supervised counseling experience in local secondary schools.

Coun 509. Practicum: Community College Counseling.

Credit hours to be arranged. No-grade course. Supervised counseling experience at Lane Community College or other community colleges.

Coun 509. Practicum: Rehabilitation Counseling.

Credit hours to be arranged. No-grade course. Supervised counseling experience in local rehabilitation facilities.

Coun 509. Practicum: Family Counseling. 3-6 credit hours.

A continuation of experiences begun at the 409 level. Students are expected to function relatively independently of supervision but have ample time for consultation. No-grade course. Consent of instructor required. Prerequisite: Coun 409. Practicum: Family Counseling. Lowe.

Coun 526. Counseling Theories. 3 credit hours.

Survey, evaluation, and integration of philosophical and theoretical assumptions which underlie counseling procedures. Designed to assist individuals of all ages with behavior changes, personal plans, and choices. Dudley.

Coun 570. Advanced Functional Aspects of Physical Disability. 3 credit hours.

Review of the historical and contemporary structures of medical practice, and of the influence of these structures on patient-physician and physician-counselor relationships; principles of consultation, with special reference to medical consultation in counseling; application of the principles of vocational evaluation with specific emphasis on the most effective incorporation of medical data. Acker.

Coun 589. Organization and Administration of Guidance Services. 3 credit hours.

Review of principles and functions undergirding guidance activities in the schools; organizing and managing guidance services; role differentiation; procedures for improvement. Rousseve.

Curriculum and Instruction

Faculty

Department Head, Norbert W. Maertens, Ph.D., Associate Professor of Education (elementary mathematics). B.S., Mankato State, 1958; M.A., 1960, Ph.D., 1967, Minnesota; at Oregon since 1967.

Keith A. Acheson, Ed.D., Associate Professor of Education, Assistant Department Head (program development, supervision). B.S., 1948, M.Ed., 1951, Lewis & Clark; Ed.D., Stanford, 1964; at Oregon since 1967.

David O. Austin, M.A., Assistant Professor of Education (disadvantaged youth). B.A., 1968, M.A., 1970, San Jose State College; at Oregon since 1973.

Stanley N. Cohen, Ph.D., Associate Professor of Education; Director, Teacher Corps (drug education). A.B., Berkeley, 1954; M.A., 1961, Ph.D., 1970, Southern California; at Oregon since 1970.

Edna P. DeHaven, Ph.D., Associate Professor of Education (elementary reading and language arts). B.S., Oregon College of Education, 1951; M.Ed., 1962, Ph.D., 1969, Oregon; at Oregon since 1969.

Wayne M. Dotts, Ph.D., Assistant Professor of Education; Program Coordinator, Teacher Corps (disadvantaged youth). B.S., Arizona State College, 1965; M.A., Northern Arizona University, 1966; Ph.D., Oregon, 1972; at Oregon since 1969.

Gary W. Ferrington, M.S., Senior Instructor in Education (educational media). B.S., Portland State, 1964; M.S., Southern California, 1967; at Oregon since 1967.

Robert L. Hammond, Ed.D., Associate Professor of Education (education evaluation). B.A., Long Beach State College, 1953; M.A., Northern Arizona University, 1958; Ed.D., Southern California, 1962; at Oregon since 1971.

William H. Harris, D.Ed., Associate Professor of Education (social studies, inquiry, teaching strategies). B.A., Willamette, 1949; B.S., 1951, M.S., 1953, Eastern Oregon; D.Ed., Oregon, 1967; at Oregon since 1969.

Larry L. Horyna, M.A., Assistant Professor of Education (community education). B.S., Oregon, 1964; M.A., Central Michigan, 1968; at Oregon since 1970.

Ray E. Hull, D.Ed., Assistant Professor of Education (field placement, science education, supervision). B.S., 1958, M.S., 1962, Oregon State; D.Ed. Oregon, 1969; at Oregon since 1970.

Mae L. Jackson, Ed.D., Associate Professor of Education (reading, language arts). B.A., 1951, M.A., 1953, University of Michigan; Ed.D., Wayne State University, 1964; at Oregon since 1971.

Paul E. Kambly, Ph.D., Professor Emeritus of Education. B.Ed., Illinois State Normal, 1930; M.S., 1934, Ph.D., 1939, Iowa; at Oregon since 1946.

Gordon L. Kensler, Ed.D., Associate Professor of Art Education;

Associate Professor of Curriculum and Instruction, Research Associate, Institute for Community Art Studies (art education). B.F.A., 1949, M.F.A., 1951, Art Institute of Chicago; Ed.D., Stanford, 1964; at Oregon since 1966.

William E. Lamon, Ph.D., Associate Professor of Education (elementary mathematics). B.S., University of San Francisco, 1964; M.S., California State, 1965; Ph.D., Berkeley, 1968; at Oregon since 1972.

Vincent Lanier, Ed.D., Head of Department and Professor of Art Education; Professor of Curriculum and Instruction (art education). B.A., 1947, M.A., 1948, Ed.D., 1954, New York University; at Oregon since 1966.

June K. McFee, Ed.D., Professor of Art Education, Professor of Curriculum and Instruction, Director, Institute for Community Art Studies (art education). B.A., Washington, 1939; M.Ed., Central Washington, 1954; Ed.D., Stanford, 1957; at Oregon since 1965.

Susan J. Miller, M.Ed., Senior Instructor in Education (social science, questioning strategies). B.A., 1955, M.Ed., 1962, Oregon; at Oregon since 1962.

Vernice T. Nye, M.A., Associate Professor of Education (elementary language arts, social studies, early childhood). B.S., Florence State Teachers College, 1944; M.A., George Peabody, 1948; at Oregon since 1956.

Mildred C. Robeck, Ph.D., Professor of Education (elementary reading, early childhood, child development). B.A., 1951, M.Ed., 1954, Ph.D., 1958, Washington; at Oregon since 1967.

David Santellanes, M.A., Assistant Professor of Education (supervision, community education). B.A., Arizona State, 1968; M.A., Central Michigan, 1971; at Oregon since 1972.

Oscar F. Schaaf, Ph.D., Professor of Education (secondary mathematics). B.A., University of Wichita, 1942; M.A., Chicago, 1946; Ph.D., Ohio State, 1954; at Oregon since 1954.

Guy Shellenbarger, M.Ed., Professor Emeritus of Education (supervision, secondary education). B.S., 1936, M.Ed., 1953, Oregon; at Oregon since 1965.

John E. Suttle, Ed.D., Professor of Education, Director Graduate Program (curriculum, supervision). B.S., Texas, 1948; M.Ed., Colorado, 1952; Ed.D., Texas, 1960; at Oregon since 1959.

Robert A. Sylwester, Ed.D., Professor of Education (elementary science education, elementary curriculum). B.S., Concordia Teachers College, 1949; M.Ed., 1953, Ed.D., 1961, Oregon; at Oregon since 1968.

Westbrook A. Walker, Ph.D., Assistant Professor of Education (disadvantaged youth). B.A., Miles College, 1955; M.S., Central Michigan, 1967; Ph.D., Michigan State, 1973; at Oregon since 1973.

Carl J. Wallen, Ed.D., Associate Professor of Education (elementary reading, program development). B.A., Santa Barbara, 1956; M.A., San Francisco State, 1960; Ed.D., Stanford, 1962; at Oregon since 1967.

Graduate Teaching Fellows

Judith A. Coffey (ESCAPE Program). B.A., Knox College, 1963; at Oregon since 1969.

Sister Margaret M. Keily (elementary education). B.S., Mary College, 1962; M.A., Eastern Michigan University, 1968; at Oregon since 1972.

Katherine C. Kelly (secondary education, curriculum). A.B., 1955, M.A., 1959, State University of New York; at Oregon since 1972.

Ann B. Lowery (elementary education). B.S., Mississippi Valley State College, 1963; M.S., Indiana University, 1969; at Oregon since 1972.

Hasan M. Malik (disadvantaged youth). B.A., 1957, M.A., 1959, Michigan State University; at Oregon since 1971.

Emmy Lou Merriman (elementary education). B.S., 1967, M.S., 1968, Southern Oregon; at Oregon since 1972.

Lawrence S. Mithin (secondary education). B.A., Melbourne, 1964; M.A., Oregon, 1971; at Oregon since 1971.

Leslie Richards, M.Ed. (elementary education). B.Ed., 1961, B.A., 1963, M.Ed., 1970, Saskatchewan; at Oregon since 1972.

Daniel V. Roumagoux, M.S. (mathematics education). B.S., Oregon State, 1964; M.S., Oregon, 1969; at Oregon since 1972.

Susan S. Sagor (disadvantaged youth). B.A., University College, New York University, 1971; at Oregon since 1971.

Michael A. Tannenbaum (elementary education). B.S., McGill University, 1967; M.Ed., Northeastern University, 1968; at Oregon since 1972.

Abdulla Tarzaban (mathematics education). B.S., 1963, M.A., 1966, M.S., 1968, Oregon; at Oregon since 1972.

John P. Trotta (elementary education). B.A., Jersey City State College, 1962; M.Ed., Hawaii, 1970; at Oregon since 1972.

Senon M. Valadez (disadvantaged youth). A.A., Oakland City College, 1962; B.S., Hayward State, 1964; M.A., Sacramento State, 1969; at Oregon since 1972.

THE Department of Curriculum and Instruction has as its primary function provision of the broad education and understandings essential for responsible careers in education.

The basic purpose of all programs of study is to provide qualified personnel for positions in private, public, and higher education. As a direct consequence, highly individualized programs of study that may utilize the resources of the total institution are planned for selected students. This instruction affords to qualified students the opportunity of gaining new insights in previously unexplored areas of inquiry as well as gaining skills that will assure concomitant competency and leadership in fulfilling future professional roles.

In planning its teacher education program, the University recognizes three qualifications for a good teacher: (1) a broad and liberal education; (2) a mastery of subject matter; (3) a knowledge of child and adolescent psychology and an understanding of professional problems and techniques.

Admission to Elementary Education. Students wanting to enroll in a program leading to a teaching certificate in elementary education must consult the Teacher Education Office in the College of Education for appropriate materials. Application should be made in January for admission the following fall term. Applicants must have at least sophomore standing.

Admission to Secondary Education. Students wanting to enroll in a program leading to a certificate in secondary education should consult the department in the subject they want to teach. They must complete the requirements for a major in that subject-matter area as well as the requirements of the College of Education. An

adviser who is aware of the requirements for a teaching certificate will be assigned by the subject-matter department.

Admission to the Teacher Internship Program. Through the teacher internship program of the College of Education, selected and mature students may now participate in on-the-job-with-pay experience which leads to certification at either the elementary or secondary levels.

Further, many students find this a viable program to enhance skills learned in a regular certification program while they work toward an M.Ed. degree.

Important aspects of the teaching internship program include: (1) summer workshop activities, including joint planning with the intern's supervising teacher for the year ahead; (2) a full year of teaching with guidance from both the school system and the University; and (3) a post-intern summer session.

Any person with strong interest in teaching as a professional career, who has, or will have, a baccalaureate degree within the year, may apply for an internship.

An applicant for a teaching internship should obtain an application form from the office of the Coordinator of Interns, of the College of Education.

Curriculum Library. The Curriculum Library, located in the University Library, provides facilities for specialized study of the public-school curriculum and for practical research on curriculum problems. The materials of the library include: (1) recent and important courses of study, units, and other curriculum materials available in the United States; (2) a comprehensive collection of elementary- and secondary-school textbooks; (3) an extensive file of standardized tests and other instruments of pupil evaluation; (4) a large collection of free and inexpensive pamphlets, maps, exhibits, and other material suitable for use in the classroom; (5) bibliographies on various phases of the public-school curriculum.

Career Planning and Placement Service. The University maintains a central Placement Service which provides assistance to graduating students and alumni who are seeking new or better teaching and administrative positions at the elementary, secondary, and college levels.

Certification

Basic and Standard Certificates are issued to qualified applicants in Oregon who have completed an approved teacher-education program and have the recommendation of the teacher-education institution in which they completed the program.

Requirements for Basic Certificates. A Basic Teaching Certificate, valid for not more than three consecutive school years, is issued to an otherwise qualified applicant who: (a) has a bachelor degree; (b) has completed the first four years of the University's standard teacher-education program; (c) has completed one of the basic four-year general norms in an approved program; (d) is recommended by the appropriate School or Department and the College of Education as having adequate academic preparation and, in the judgment of the University of Oregon, the personal qualities to serve as a teacher.

Renewal of Basic Teaching Certificate. Teachers who have only a general elementary-teaching norm may renew the Basic Teaching Certificate by verifying one year of successful classroom teaching experience during the life of the last Basic Teaching Certificate.

A Basic Teaching Certificate for secondary-school teaching may be renewed once for an additional period of not more than three school years when the applicant presents official evidence of completion of 24 credit hours of upper-division or graduate credit, or both, applicable to the planned fifth year of the University of Oregon's five-year standard teacher education program and in excess of the requirements for the preceding Basic Teaching Certificate.

At the time the second Basic Teaching Certificate expires, the teachers must have completed the requirements for the Standard Teaching Certificate. Teachers not completing requirements for the Standard Certificate within the six-year period must qualify for Restricted Certificates until such time as they meet the Standard Certificate requirements.

Requirements for Standard Certificate. A Standard Teaching Certificate, valid for a period of not more than five school years, is issued to an otherwise qualified applicant who has:

(a) completed the University's five-year standard teacher education program, the fifth year of which is a planned program culminating either with the master degree or with the completion of 45 credit hours of upper-division or graduate study. The master degree program helps obtain a Standard Teacher's Certificate only if it includes the University's requirements for the certificate.

(b) completed either two years of successful, legal teaching experience (two periods each of eight consecutive months, full-time) on the Basic Teaching Certificate; or one year of successful teaching experience (eight consecutive months, full-time); or 12 credit hours of study in a standard teacher institution in the five-year period immediately prior to the date of application for certification.

(c) either one of the general standard five-year teaching norms as approved for the University of Oregon for elementary or secondary school teachers; or one of the Educational Specialists standard norms completed within a planned fifth year of 45 credit hours of studies subsequent to the bachelor degree.

(d) recommendation by the appropriate School or Department as having adequate academic preparation and, in the judgment of the University of Oregon, the personal qualities to serve as a teacher.

Applicants for a teaching certificate who have been convicted of a criminal offense will be asked to furnish evidence of moral fitness to teach.

Students may consult the Teacher Certification office in the College of Education for information on fees, application papers, residence requirements, acceptance of transfer credits from other institutions and from the Division of Continuing Education, programs approved for the University of Oregon and for other state institutions, and any additional information concerning the Oregon Rules for Certification.

Elementary Education

In the field of elementary education, the University offers (1) a four-year program leading to a bachelor degree and (2) a full program of graduate work leading to advanced degrees.

Undergraduate Program. The undergraduate program in elementary education includes: a broad distribution of studies in subject fields; professional courses; an additional group of advanced professional courses. The program requirements are outlined below; they are subject to change by the Department of Curriculum and Instruction, and to approval by the Oregon Board of Education:

Eighteen credit hours in arts and letters, including Wr 121, Wr 323, 3 credit hours each; Art 322 and ArE 323, 5 credit hours; Mus 321, Mus 322, 2 credit hours each.

Eighteen credit hours in social science, including United States History and consumer science, 3 credit hours each.

Eighteen credit hours in science and mathematics, including Mth 123, 3 credit hours, and environmental science, 3 credit hours. (Psychology courses do not satisfy the science requirement for the elementary education major.)

Twelve credit hours in a concentrated area, chosen from this list: art education; arts and letters; disadvantaged youth; elementary reading; mathematics; foreign languages; health education; music education; outdoor education; physical education; science; social science; special education; another area may be elected with consent of an adviser.

Three credit hours in preprofessional field experience may be either Preview of Teaching (CI 407), or ESCAPE Practicum (CI 409).

Seventeen credit hours from the allied professional schools, including PE 121-199, PE 321, PE 322, PE 323, 2 credit hours each; HE 450 (replaces HE 250) 3 credit hours; MuE 383, 3 credit hours; Children's Literature (Lib 415) 3 credit hours.

Courses in professional education, as follows: Practicum: Elementary School Instructional Assistantship (CI 409) 12 credit hours; Teaching Reading in the Elementary School (CI 335) 3 credit hours; Seminar: Instructional Assistantship (CI 407) 2 credit hours; Human Development and Education, Human Learning and Education, Psychology and Problems in Education (EPsy 321, 322, 323) 2 credit hours each; Social Foundations (EdF 327); Seminar: Problems of the Minorities in School and Society (CI 407) 3 credit hours; Seminar: Career Education (Coun 407); Audio-Visual Aids (CI 435) 4 credit hours; Elementary Level Student Teaching (CI 415) 3-15 credit hours; Seminar in Elementary Student Teaching (CI 404) 2 credit hours; prerequisite for the following courses is at least junior standing and completion of Instructional Assistantship: Seminar: Teaching Social Studies and Language Arts (CI 407) 5 credit hours; Teaching Mathematics in the Elementary School (CI 333) 3 credit hours; Seminar: Teaching Reading in Primary Grades (either grades K-3 or 4-6) (CI 407) 3 credit hours; Teaching Science in the Elementary School (CI 336) 3 credit hours.

Graduate Studies

Graduate work in the Department of Curriculum and Instruction is offered for the preparation of teachers, supervisors, and other educational specialists and leads to the Master of Arts, Master of Science, Master of Education, Doctor of Philosophy, and Doctor of Education degrees. Graduate program concentrations are offered in curriculum and supervision, education, community education, mathematics, elementary education, secondary education, disadvantaged youth, early childhood education, and reading and language arts.

Doctoral degrees emphasizing art education and music education are administered through the Department of Curriculum and Instruction. Persons wanting specific information concerning these degrees are directed to the Art Education Department of the School of Architecture and Allied Arts, or the Music Education Department of the School of Music.

Special programs of graduate study are also offered toward the satisfaction of the Oregon state requirement of a fifth year of college work for the standard secondary-school certificate and for the standard norm in school supervision.

The graduate program in the field of elementary education is designed to provide continued study opportunities for professional personnel in the field and, with the cooperation of other divisions of the University, to prepare master elementary school-teachers, elementary-school principals, supervisors, college teachers in the field of elementary education, and other specialists with responsibilities for the education of children.

Specific information concerning admission procedures and program requirements available in the Department of Curriculum and Instruction may be obtained from the Graduate Personnel Office in the College of Education.

CI 330. Field Experience. 1-3 credit hours.

Direct experience with children of all ages with location determined by student needs. September experience in a regular classroom during the first two weeks of the school year.

CI 333. Teaching Mathematics in the Elementary School. 3 credit hours.

Methods of planning and conducting lessons in mathematics; psychology of mathematics learning. Prerequisite: Mth 121, and completion of Instructional Assistantship, or consent of instructor. Lamson.

CI 334. Teaching Social Studies and Language Arts. (g) 5 credit hours.

Objectives, scope, and sequence of elementary-school social science and language arts. Language development from kindergarten through elementary school. Emphasis on language as a means of thinking and communicating. Emphasizes methods of unit teaching, development of skills in critical thinking and problem solving. Relationship of other content areas to the language arts and social studies. Includes methods and materials in the teaching of speaking, listening, handwriting, spelling, correct usage, etc. Nye, Miller.

CI 335. Teaching Reading in the Elementary School. 3 credit hours.

The nature of the reading process; development of reading readiness, word-recognition, study skills, vocabulary, comprehension, and reading interest. Methods of diagnosing difficulties; evaluation of programs; selection of materials. Wallen, DeHaven.

CI 336. Teaching Science in the Elementary School. 3 credit hours.

Emphasis on teaching the processes of science; ways of using district, state, and nationally developed programs in planning instruction for children; using instructional media, methods of presentation, appraising the attainment of objectives. Prerequisite: Instructional Assistantship, or consent of instructor. Sylwester, Hull.

CI 405. Reading and Conference.

Credit hours to be arranged.

CI 407. Seminar: Elementary Student Teaching. 2 credit hours.

No-grade course.

CI 407. Seminar: Instructional Assistantship. 2 credit hours.

Accompanies instructional assistantship. Students meet with their University supervisor.

Upper-Division Courses Carrying Graduate Credit

CI 407. Seminar: Teaching Reading in the Primary School. (g) 3 credit hours.

Observation and assessment of critical pre-reading abilities in young children. Materials and techniques of beginning reading instruction. Analysis of associative and conceptual learning assumed in different approaches, practice, and self-evaluation. Prerequisite: CI 335. Robeck.

CI 407. Seminar: Teaching Reading in the Intermediate Grades. (g) 3 credit hours.

Develops knowledge and understanding of the use of multiple materials, teaching techniques, and organizational patterns for teaching reading in intermediate grades. Training in the use of a variety of teaching materials for reading instruction; knowledge of new or unusual techniques or developments in the field of reading; interpretation of materials read by thinking at factual, interpretive, and applicative levels. Prerequisite: CI 335. DeHaven.

CI 407. Seminar: Problems of the Minorities in Schools and Society. (g) 3 credit hours.

Focus on unique needs of various minority groups in today's educational society; discussion of various cultural differences and their influence upon educational performance in the classroom; adaption of response pattern of the teacher to needs of a pluralistic society.

CI 407. Seminar: Preview to Teaching. (g) 3 credit hours.

For students contemplating entrance into the teaching profession; designed to assist in deciding upon a teaching career. Provides variety of experiences in the educational field. Weekly meetings to share experiences, problems, discuss differing philosophies of teaching, hear speakers from the profession.

CI 409. Practicum: ESCAPE Tutoring. (g) 3 credit hours.

Provides prospective teachers and other students first-hand experience as tutors of children and youth in public schools, private clinics, and specialized agencies.

CI 409. Practicum: Elementary School Instructional Assistantship. (g) 12 credit hours.

Exploratory and skill-development experience for the student enrolled in elementary-teacher education. Full-time practicum in the public school; opportunity to analyze the role of the teacher; study the organization of resources, time, materials, behavior, and learning; observe, and interact with children, parents, school staff, and the community; examine the total classroom environment. Introductory course in teaching strategies is taught concurrently. No-grade course.

CI 414. Student Teaching: Kindergarten. 3-15 credit hours.
No-grade course.

CI 415. Student Teaching Grades 1-6. 3-15 credit hours.

Opportunity to combine knowledge and theory with classroom techniques and procedures with the direction of a cooperating teacher and the university supervisor.

CI 435. Educational Media. (g) 4 credit hours.

Techniques, advantages, problems in use of instructional materials such as film, film-strips, sound recordings, and television. Production of overhead transparencies, sound tape, visual display and duplication, and copy techniques. Use of such aids in designing learning experiences. Ferrington.

CI 407. Seminar. (G)

Credit hours to be arranged.

CI 409. Practicum. (G)

Credit hours to be arranged. No-grade course.

Graduate Courses**CI 501. Research.**

Credit hours to be arranged. No-grade course.

CI 503. Thesis.

Credit hours to be arranged. No-grade course.

CI 505. Reading and Conference.

Credit hours to be arranged. Independent study for graduate students interested in special problems or topics in elementary education.

CI 507. Seminar.

Credit hours to be arranged.

Advanced Study of Reading.

Evaluation of Elementary-School Programs.

Advanced Study of Elementary-School Mathematics.

Advanced Study of Elementary School Social Studies.

Analysis of Teaching.

Advanced Study of Elementary Language Arts.

Supervision of Laboratory Practice.

CI 508. Workshop.

Credit hours to be arranged. Opportunity for group work on special problems. No-grade course.

CI 509. Practicum.

Credit hours to be arranged. No-grade course.

College Teaching.

CI 534. Science in the Elementary School. 3 credit 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. Sylwester.

CI 535. Social Studies in the Elementary School. 3 credit 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. Miller.

CI 536. Language Arts in the Elementary School. 3 credit hours.

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

CI 537. Reading in the Elementary School. 3 credit 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. Wallen.

CI 538. Mathematics in the Elementary School. 3 credit hours.

Number abilities needed by children; research findings in mathematics education; designing number experiences; theo-

ries of teaching, desirable teaching procedures, selection and use of materials. Lamon.

Secondary Education

Before assignment to student teaching, students must obtain the recommendation of their major school or department.

Subject Preparation. Under regulations adopted by the Oregon Board of Education, new teachers employed in approved high schools may be assigned to teach only in those subject fields in which they have been recommended by the University as having adequate preparation.

One of the student's subject fields must be a field in which the University offers supervised teaching (art, biology, drama, earth science, educational media, French, German, health education, integrated science, journalism, language arts, Latin, mathematics, music, physical education, physical science, social studies, Spanish, or speech). For specific requirements in these fields the student should consult the special adviser for teacher education in each field. Names of advisers are available upon inquiry at the Teacher Certification office in the College of Education.

The University also has a secondary-teacher education program that includes a period of internship. Details of this program appear on pages 271-272.

CI 330. Field Experience. 1-3 credit hours.**CI 408. Special Secondary Methods. 3 credit hours.**

Prerequisite: EPsy 321, 322, 323.

CI 409. Practicum.

Credit hours to be arranged. No-grade course.

CI 416. Student Teaching: Junior High School. 3-15 credit hours.

Maximum credit is 15 hours for CI 416 or CI 417 or any combination of these courses. Prerequisite: EPsy 321, 322, 323. No-grade course.

CI 417. Student Teaching: Senior High School. 3-15 credit hours.

Same as for CI 416.

Upper-Division Courses Carrying Graduate Credit**CI 407. Seminar. (G)**

Credit hours to be arranged.

CI 407. Seminar: Teaching Strategies. (g) 2 credit hours.

Overview of contemporary approaches to teaching; analysis of instructional strategies, including questioning strategies and inquiry training. Extensive use of training in group processes, and discovery-oriented skills.

CI 407. Seminar: Secondary Educational Media. (g) 2 credit hours.

Techniques in developing and using instructional materials such as sound film, film strips, and television; production of materials for instruction in the secondary school; preparation of clear objectives and program design.

CI 420. The Student Council in the Secondary School. (G) 3 credit hours.

Aims and objectives of the student council movement; types of organization; leadership development; council relationship problems; evaluation of the student council program.

CI 427. School Activities. (G) 3 credit hours.

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

CI 484. The Junior High School. (G) 3 credit hours.

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

Graduate Courses

CI 501. Research.

Credit hours to be arranged. No-grade course.

CI 503. Thesis.

Credit hours to be arranged. No-grade course.

CI 505. Reading and Conference.

Credit hours to be arranged.

CI 507. Seminar.

Credit hours to be arranged.

CI 507. Teaching Reading and Writing in the Secondary School. (g) 3 credit hours.

Advanced topics in developmental and corrective reading programs; emphasis on methods, materials, and organization, with applications to writing skills.

CI 508. Workshop.

Credit hours to be arranged. Opportunity for group work on special problems. No-grade course.

CI 593. Methods in Secondary-School Language Arts. 3 credit hours.

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

CI 594. Methods in Secondary-School Mathematics. 3 credit hours.

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

CI 595. Methods in Secondary-School Science. 3 credit hours.

Selection of materials for secondary-school science teaching, demonstrations, science-test construction, instructional devices; use and care of microscopes, meters, and other equipment. Prerequisite: teaching experience, or consent of instructor. Hull.

CI 596. Methods in Secondary-School Social Studies. 3 credit hours.

Facilitating learning in social studies classrooms; review of recent developments in curriculum materials and teaching;

teaching which promotes inquiry is discussed, illustrated, and practiced. Students may work on problems of individual interest, and prepare materials for use in junior and senior high-school classes. Prerequisite: teaching experience, or consent of instructor.

Community Education

The need for professional leadership in the rapidly growing field of Community Education has prompted the development of a program which meets the needs of new and experienced community-school personnel. The program of study consists of academic and practicum experiences specifically designed to provide students with the necessary skills to assume entry level and management placements within community schools. Community Education coursework will be integrated with other academic programs to comprise an area of special emphasis in Community Education.

Upper-Division Courses Carrying Graduate Credit

CI 405. Reading and Conference. (G) 3 credit hours.**CI 407. Seminar. (G) 3 credit hours.**

Survey of Community Education. Horyna.

Problems and Issues in Community Education. Santellanes.

Organization and Operation of the Community School. Horyna.

The Role of the Teacher in the Community School. Santellanes.

CI 409. Practicum. (G)

Credit hours to be arranged. No-grade course.

Graduate Courses

CI 505. Reading and Conference. 3 credit hours.**CI 507. Advanced Seminar in Community Education. 3 credit hours.****CI 508. Workshop.**

Credit hours to be arranged. No-grade course.

CI 509. Internship in Community Education.

Credit hours to be arranged.

Early Childhood Education

The Department of Curriculum and Instruction offers the following programs in early childhood education: (1) area of concentration for elementary teacher certification; (2) master degree in early childhood education; (3) doctoral degree with specialization in the development and training of the child from birth through the primary school years. Graduate programs are individually planned with a departmental adviser to meet the professional goals of the student and the requirements of the College of Education and the Graduate School. Potential interdisciplinary studies include those courses in the college and across campus which focus on early development and the learning environment.

Early childhood education incorporates theory, practice, and research that emphasizes the pre-school and primary years. Courses

and seminars cover the relationship of affective and cognitive learning, physical and intellectual characteristics of the child, acculturation and socialization, school and home environments, and curricula for nursery and primary schools.

Upper-Division Courses Carrying Graduate Credit

CI 407. Seminar: Teaching in the Kindergarten. (G) 3 credit hours.

Students will identify pre-reading and pre-mathematics skills in children four to six years old; will develop objectives for the pre-school, determined by referred criteria; will design curricula consistent with the developmental and individual characteristics of kindergarten children.

CI 407. Seminar: Reading in the Primary Grades (K-3). (G) 3 credit hours.

Observation and assessment of critical pre-reading abilities in young children; materials and techniques of beginning reading instruction; analysis of associative and conceptual learning assumed in different approaches; practice and self-evaluation.

CI 451. Early Childhood Education. (G) 3 credit hours.

Relationship of the development of young children to the educational program provided for them. Program planning; group behavior; individual behavior; the place of the teacher; equipment; activities; books and music for young children.

Graduate Courses

CI 507. Seminar: Primary Education. 3 credit hours.

Psychological and epistemological bases of representative primary education programs (e.g., Kibbutz, Montessori Method, British Infant Schools, and Soviet early education). Students will design a primary school.

CI 507. Seminar: Early Childhood Learning and Teaching. 3 credit hours.

Students will implement research on child development to design an environment for the nurture and training of children from birth through the primary school years. Theoretical applications will include association learning as the basis for conceptualization; self-concept as the basis for motivation; creative self-direction and the issues of play. Observation of educational programs.

CI 541. Cognitive Development of the Child. 3 credit hours.

Review studies on conceptualization in children; Piaget's theory of cognitive development; practice in Piaget-Inhelder interview techniques; design of learning strategies for early childhood education.

CI 542. Affective Development of the Child. 3 credit hours.

Emotional and social growth from infancy through the latency period; implications for family and school education in early childhood. Erik Erikson's stages of affective development are traced to contemporary theories of motivation, acculturation, and social interaction.

Reading and Language Arts

The department offers graduate reading and language arts courses in elementary and secondary reading instruction, and in diagnosis and correction of reading disabilities. The program of studies prepares: (1) reading and language arts consultants and supervisors at the elementary and secondary levels; (2) elementary classroom teachers; (3) secondary reading teachers; and (4) reading specialists in the diagnosis and correction of extreme learning problems.

For a master degree in the field, 12 credit hours in foundation courses are required, plus 30 credit hours in reading and language arts courses relating to the particular emphasis the student chooses.

CI 405. Reading and Conference.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

CI 407. Seminar. (G)

Credit hours to be arranged.
Individualized Reading Instruction.

CI 409. Practicum. (G)

Credit hours to be arranged. No-grade course.

CI 428. Psychology of Reading Instruction. (G) 3 credit hours.

Nature of the reading process; factors of learning and development related to reading achievement; psychological foundations of methods and materials of reading instruction; nature and treatment of reading disability. Robeck.

CI 469. Reading and Writing in the Secondary School. (G) 3 credit hours.

Nature and scope of the developmental and corrective reading program in all the content areas (e.g., English, social studies, science, and mathematics) with an emphasis on methods, materials, and organization.

Graduate Courses

CI 501. Research.

Credit hours to be arranged. No-grade course.

CI 503. Thesis.

Credit hours to be arranged. No-grade course.

CI 505. Reading and Conference.

Credit hours to be arranged.

CI 507. Seminar.

Credit hours to be arranged.

CI 508. Workshop.

Credit hours to be arranged. No-grade course.

CI 509. Practicum.

Credit hours to be arranged. No-grade course.

Curriculum and Supervision

The graduate program in curriculum and supervision provides continued opportunities for professional personnel in the field. Programs may be developed which lead to Oregon certification for positions as supervisors and curriculum consultants and to a doctoral degree. Programs of study emphasize theory, research, and skill development. Opportunities for observation and field experiences are available in the public schools.

Upper-Division Courses Carrying Graduate Credit

CI 435. Educational Media. (G) 4 credit hours.

Techniques, advantages, problems in use of instructional materials such as film, filmstrips, sound recordings, and television. Production of overhead transparencies, sound tape, visual display and duplication, and copy techniques. Use of such aids in designing learning experiences. Ferrington.

CI 407. Seminar. (G)

Credit hours to be arranged.
Analysis of Instruction. Acheson.
Community Education. Horyna.
Techniques of Evaluation. Hammond.

Graduate Courses

CI 501. Research.

Credit hours to be arranged. No-grade course.

CI 503. Thesis.

Credit hours to be arranged. No-grade course.

CI 505. Reading and Conference.

Credit hours to be arranged.

CI 507. Seminar.

Credit hours to be arranged.
Advanced Curriculum and Supervision. Suttle.
Mass Media and Curriculum. Sylvester.
Systematic Procedures of Classroom Observation. Hull.
Elementary School Models. Sandin.
Educational Development. Acheson.
Administration of Educational Development. Acheson.

CI 508. Workshop.

Credit hours to be arranged.

CI 522. Secondary-School Curriculum. 3 credit hours.

Overview of the secondary-school curriculum, with emphasis on the various subject fields; organization of the school for curriculum development; educational objectives; the course of study; evaluation of the secondary-school curriculum. Hearn.

EdAd 527. Secondary-School Administration and Supervision. 3 credit hours.

Secondary-school principalship; principles of administration, staff relationships, public relations, and professional growth; business administration; administration of guidance services, curriculum, and school activities; evaluation of the secondary school. Hearn.

CI 553. Elementary-School Curriculum. 4 credit hours.

Alternative functions of the elementary school; systematic examination of modern curriculum components; newer developments and trends associated with each instructional area such as curriculum project materials, teaching strategies, and criteria for appraisal; some current curriculum issues and challenges. Sandin.

EdAd 559. Evaluation of Secondary-School Programs. 3 credit hours.

Appraisal of secondary schools on the basis of evaluative criteria, with special attention to the work of the National Study of Secondary School Evaluation. Hearn.

EdAd 560. Secondary-School Problems. 3 credit hours.

Emphasis upon leadership responsibility for the improvement of the secondary-school instructional program with particular attention to the needs of the student. Implementation of basic principles through the use of such materials as study-habits inventories, time-distribution sheets, quintile classifications, interest inventories, and cumulative personnel records. Hearn.

CI 565. Curriculum Foundations. 4 credit hours.

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

CI 566. Curriculum Construction. 4 credit hours.

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

CI 567. Curriculum Materials. 4 credit hours.

Effective use and organization of curriculum materials; text and reference books, supplementary pamphlet materials, films and slides; records and recordings, pictures, radio; programmed learning; techniques of unit construction.

CI 571. Junior High-School Curriculum. 3 credit hours.

Instructional programs appropriate for the early adolescent years; with emphasis upon the various subject fields.

CI 574. School Supervision. 3 credit hours.

Role of the supervisor in keeping education geared to the changing demands of society; theories of leadership; group processes and individual conference techniques; action research and related approaches to curriculum change; analysis of concrete supervisory problems. Prerequisite: teaching or administrative experience or consent of instructor. Suttle.

Disadvantaged Youth

The program for training teachers to work with disadvantaged youth is an integrated set of experiences acquainting teachers with specific problems of urban youth with curricula specifically designed for such youth, and with the influences of race and class bias in education programs. The program includes extensive practicum experiences with disadvantaged youth. Students of the program are prepared to teach, administer, or develop programs for the disadvantaged from preschool through high school.

CI 199. Special Study Skills. 1-3 credit hours.

Independent study and field work. Student and instructor determine specific purpose, content, and requirements of the course.

CI 340. Life Styles of the Poor. 3 credit hours.

Various theories accounting for distinctive behavior of the poor, with emphasis on school performance. Evaluation of these theories on the basis of empirical evidence and logical consistency.

CI 341. Alienated-Youth Education. 3 credit hours.

Schools in a changing society, with special attention to attributes of schools which tend to disengage the student from the learning process. Consideration of needed changes.

CI 342. Poverty Solutions. 3 credit hours.

The nature of intervention systems designed to eliminate poverty. Consideration is given to solutions which have a likelihood of success.

CI 405. Reading and Conference.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

CI 407. Seminar. (G)

Credit hours to be arranged.

Ecology of Struggle.

Social Science and the Poor.

Education of Urban Youth.

Theory and Research of the Poor.

Alienation of Youth from Education.

Advanced Curriculum Development for Correctional Institutions and Secondary Schools.

Analysis of the Educational Process.

Leadership Training.

CI 409. Practicum. (G)

Credit hours to be arranged.

CI 407. Seminar: ESCAPE I. Tutoring. 1 credit hour.

Sharing experiences, solving problems, exploring new resources, and questioning in a group setting. No-grade course.

CI 407. Seminar: ESCAPE II. Research and Design Team. 4-5 credit hours.

Concentrated work for twelve hours each week to plan and write sessions in preparation for following three terms. Prerequisite: ESCAPE I, IV.

CI 407. Seminar: ESCAPE III. Leadership Training. 4 credit hours.

Training and course credit for all ESCAPE leaders in the program. Prerequisite: ESCAPE I, IV.

CI 409. Practicum: ESCAPE IV. Tutor. 1-9 credit hours.

Course credit for all tutoring work in the field. Includes required attendance at opening workshop, three reports to leaders, an individual field project, regular attendance in the field. More than 5 hours credit must be petitioned. No-grade course.

Teacher Internship Program

Purpose. (1) The primary purpose of this program is to provide experience and training to prepare highly qualified teachers in both elementary and secondary schools. (2) The program leads to certification at either an elementary or secondary teaching level. In general, because of reciprocal agreements with twenty-

eight states, Oregon teaching certificates are nationally accepted. (3) A master of education (M.Ed.) degree is possible. Attainment of this degree at the termination of the five-term intern program depends primarily upon previous education courses, certification needs, and professional expectations. Most noneducation majors will need at least one more term beyond their internship to complete a master degree.

Participants. The intern program has been planned for two types of participants: (1) The student who has a degree, or will graduate within the school year, and wants to teach, but has little or no course work in education. (2) The student who has completed all or part of a teacher-education program, and sees the intern program as the best way to develop teaching skills and to continue professional growth. (All applicants must be able to qualify as graduate students beginning with the initial summer term. Secondary applicants must also meet subject-area requirements in a teaching field.)

Program. Some important aspects of the intern program include: (1) Pre-intern observation and participation in a classroom setting during the first summer. (2) Summer workshop activities, including joint planning with the intern's supervising teacher for the year ahead. (3) A full year of teaching with guidance from both the school system and the University. Seminars, and practicum work which includes new innovations and advanced methods. (4) A post-intern summer session. (5) Interns enter into contracts with specific districts on the basis of one school year (nine months of teaching) for which the intern is paid a stipend generally computed on two-thirds of the regular beginning salary; work is full-time. Districts consider interns to be regular staff members, not student teachers. Contracts in Portland district differ somewhat.

Students are responsible for their own tuition and textbooks, and are expected to pay tuition and fees for the five terms.

Typical Programs

(1) Elementary Intern Courses for those with a liberal arts degree and few or no education courses:

First Summer

All courses after this term will carry graduate credit. All campus work and 15 credits of D.C.E. work (work taken during fall, winter, and spring terms will be applicable in a master-degree program.) Total program is 61 credit hours.

Student teaching, 5 weeks (undergraduate credit) 4 credit hours
Classroom procedures, 3 weeks, after student teaching (undergraduate) 3 credit hours
Elementary methods (undergraduate) 6 credit hours
Workshop, tenth week (graduate) 3 credit hours

Fall Term

Teaching Strategies I (at present, includes questioning strategies, inquiry process, special methods) 4 credit hours
Practicum: Intern Elementary School, 5 credit hours

Winter Term

Teaching Strategies II, 4 credit hours
Practicum: Intern Elementary School, 5 credit hours

Spring Term

Elementary Curriculum, 4 credit hours
Practicum: Intern Elementary School, 5 credit hours

Second Summer

Elementary Methods (any four graduate courses chosen from health, art, social studies, language arts or science) 12 credit hours

Any two of the following three courses plus Human Development and Learning; if needed; 6 credit hours (If the student has not taken a course in human development and learning or the equivalent of a sequence in child, adolescent, and educational psychology at the undergraduate level, it will be necessary to do so at some period in the program. This applies to interns at both the elementary and secondary levels.):

History of Education

Philosophy of Education

Social Foundations of Education (Interns must take a social foundations course if they have not done so previously.)

(2) Elementary Intern Courses for teacher-education graduates with no teaching experience. Total program is 51-69 credit hours:

First and Second Summer Sessions

Reading, 3-6 credit hours

Methods (graduate only) any two, 6 credit hours

One foundations course chosen from: History of Education, Philosophy of Education, 3 credit hours

In-depth study in any area related to the elementary school, courses to be arranged with coordinator, 9-12 credit hours

Additional methods, 3-12 credit hours

Workshop, 3 credit hours

Fall, Winter and Spring Terms

Same courses as under (1) above, 27 credit hours

(3) Secondary Intern Courses for those with a liberal arts degree and few or no education courses. Total program is 67 credit hours.

First Summer

*Student teaching, 5-8 weeks (undergraduate) 7 credit hours

*Principles of Secondary Teaching, 3 credit hours

*Human Development and Learning (if needed) 3 credit hours

Workshop (tenth week) 3 credit hours

Fall Term

Special Methods (subject area) 4 credit hours

Practicum: Intern Secondary School, 5 credit hours

Winter Term

Secondary Teaching Strategies, 4 credit hours

Practicum: Intern Secondary School, 5 credit hours

Spring Term

Seminar, 4 credit hours

Practicum: Intern Secondary School, 5 credit hours

Second Summer

*Reading in High School and College, 3 credit hours

Workshop (tenth week) 3 credit hours

*JHS and SHS curriculum, 3 credit hours

Foundations: History of Education or Philosophy of Education, 3 credit hours

Work in teaching area, 12 credit hours

(4) Secondary Intern Courses for those with a liberal arts degree who have completed a teacher-education program. Total credit hours 52-54:

First or Second Summer

Junior or senior high school curriculum course, 3 credit hours

Foundations (History or Philosophy of Education) 3 credit hours

Reading in High School and College, 3 credit hours

Work in subject area, 13-15 credit hours

Workshop, 3 credit hours

Fall, Winter, Spring Terms

Requirements same as under (3) above, 27 credit hours

These programs conform to certification requirements in effect during the 1972-73 school year. Recent changes in these requirements will require some modification of the programs for 1973-74 and subsequent years. For further information, students may consult the Coordinator of Interns.

Note: Work already completed may substitute for the requirements marked with an asterisk (*)

Educational Administration and Higher Education

Faculty

- Department Head, Richard O. Carlson, Ed.D., Professor of Education; Member, Center for the Advanced Study of Educational Administration (organizational change). B.S., 1951, M.S., 1955, Utah; Ed.D., California, Berkeley, 1957; at Oregon since 1963.
- Max G. Abbott, Ph.D., Professor of Education; Director, Center for the Advanced Study of Educational Administration (identification and development of administrator skills, administrative theory). B.S., 1949, M.S., 1951, Utah State; Ph.D., Chicago, 1960; at Oregon since 1966.
- Gerald K. Bogen, D.Ed., Vice-President for Student Services; Associate Professor of Education (college student-personnel administration). B.A., Western Washington, 1959; M.S., 1961, D.Ed., 1963, Oregon; at Oregon since 1961.
- Robert L. Bowlin, Ed.D., Dean of Student Personnel Services, with rank of Professor; Associate Professor of Education (college student-personnel administration). B.S., 1953, M.A., 1958, California State Polytechnic; D.Ed., Oregon, 1964; at Oregon since 1961.
- David Brinks, Ed.D., Director, University Counseling Center, with rank of Professor, Associate Professor of Education (college student-personnel administration). B.S., Portland State, 1957; M.Ed., Lady of the Lake, 1960; Ed.D., Utah State, 1963; at Oregon since 1963.
- Werrett W. Charters, Jr., Ph.D., Professor of Education; Member, Center for the Advanced Study of Educational Administration (research on schools and school administration). B.A., DePauw, 1944; Ph.D., Michigan, 1952; at Oregon since 1966. (On sabbatical leave, 1973-74.)
- Thomas L. Dahle, Ph.D., Director, Program in Higher Education, Director, Continuing Education, Adjunct Professor of Speech (adult education). B.S., 1938, M.S., 1949, Wisconsin; Ph.D., Purdue, 1954; at Oregon since 1963.
- Kenneth A. Erickson, Ed.D., Professor of Education; Director, Field Training and Service Bureau (personnel administration, school surveys, in-service education, superintendency). B.S., Oregon, 1941; M.A., 1948, Ed.D., 1953, Washington State; at Oregon since 1967.
- Robert D. Gilberts, Ph.D., Dean of the College of Education; Professor of Education (problems of urban schools, conflict management). B.S., Wisconsin State, 1950; M.S. 1955, Ph.D., 1961, Wisconsin; at Oregon since 1970.
- Steven Goldschmidt, J.D., Assistant Professor of Education (law and education, juvenile delinquency); Assistant to Dean. B.A., Oregon, 1966; J.D., California, Berkeley, 1969; M.A., Oregon, 1972; at Oregon since 1969.
- Ray Hawk, D.Ed., Vice-President for Administration and Finance; Professor of Education (higher education). B.S., 1947, M.S., 1948, D.Ed., 1949, Oregon; at Oregon since 1950.
- Arthur C. Hearn, Ed.D., Professor of Education (secondary schools, principalship, student activities). A.B., 1934, M.A., 1937, Ed.D., 1949, Stanford; at Oregon since 1950.
- Clarence A. Hines, D.Ed., Professor Emeritus of Education (school buildings, general administration). B.A., Drury College, 1925; M.A., Missouri, 1929; D.Ed., Oregon, 1950; at Oregon 1958-69, and since 1970.
- Paul B. Jacobson, Ph.D., Professor and Dean Emeritus of Education (current trends, issues, problems in education). B.A., Luther, 1922; M.A., 1928, Ph.D., 1931, Iowa; at Oregon since 1947.
- John E. Lallas, Ed.D., Executive Dean, Professor of Education (higher education). B.A., Washington, 1947; B.A., Western Washington, 1952; Ed.D., Stanford, 1956; at Oregon since 1957.
- John M. Nagle, Ph.D., Assistant Professor of Education; Research Associate, Center for the Advanced Study of Educational Administration (educational organizations, program planning and evaluation, general systems theory). A.B., Hamilton College, 1962; M.A.T., Harvard, 1963; Ph.D., University of Pittsburgh, 1969; at Oregon since 1969.
- Henry Osibov, D.Ed., Associate Professor of Education; Assistant to the Dean of Faculties (school finance, school law). B.A., Western Washington, 1939; M.Ed., 1950, D.Ed., 1961, Oregon; at Oregon since 1965.
- Philip K. Piele, Ph.D., Associate Professor of Education; Director, ERIC Clearinghouse on Educational Management (facilities, information systems, conflict management). B.A., Washington State, 1957; M.S., 1963, Ph.D., 1968, Oregon; at Oregon since 1967.
- Donald E. Rhoades, M.A., Dean of Student Administrative Services, with rank of Professor (college student-personnel administration). B.A., Morningside College, Iowa, 1947; M.A., Iowa, 1950; at Oregon since 1969.
- Adolph A. Sandin, Ph.D., Professor of Education (elementary education, curriculum, organization). B.A., Central Washington College of Education, 1933; M.A., Washington, 1938; Ph.D., Columbia, 1943; at Oregon since 1950.
- Francis C. Thiemann, Ph.D., Associate Professor of Education; Member, Center for the Advanced Study of Educational Administration (communications, instructional teams, community college). B.A., Seattle, 1950; M.Ed., Washington, 1963; Ph.D., Oregon, 1968; at Oregon since 1970.
- Hugh B. Wood, Ed.D., Professor of Education (international education). B.S., Toledo, 1931; M.A., Colorado, 1935; Ed.D., Columbia, 1937; at Oregon since 1939.

Program in Educational Administration

THE Program in Educational Administration offers comprehensive graduate programs. These include (1) specialized preparation for those who wish to become certificated as principals or

superintendents of schools in Oregon, (2) a "sixth-year" program in educational administration, and (3) a doctoral program leading to either the Doctor of Philosophy or the Doctor of Education in educational administration. Specific information regarding admission to any of these programs may be obtained from the office of the department chairman.

By act of the Oregon Legislature, all persons employed in the Oregon public schools in administrative positions must hold an Oregon administrative certificate. The University of Oregon and Portland State University currently offer the only approved programs for the preparation of elementary and secondary-school principals, and the University of Oregon offers the only approved program for the preparation of school superintendents in Oregon. These programs, requiring a minimum of 33 credit hours for school principals and 45 credit hours for school superintendents, include upper division and graduate courses in appropriate combination to meet the approved programs of the department.

Requirements for a Basic Administrative Certificate (Two-Year). A basic administrative certificate valid for a period of two years is issued to an otherwise qualified applicant who: (1) holds a valid basic teaching certificate; (2) has completed a five-year general teaching norm at the level to be administered; (3) verifies three years of legal, successful teaching experience at the level to be administered; (4) verifies completion of 9 credit hours of upper-division or graduate study in or accepted by a college or university approved by the Oregon Board of Education for the preparation of school administrators; this preparation is applicable to a planned sixth-year program in the preparation of administrators.

Requirements for a Standard Administrative Certificate (Five-Year). A standard administrative certificate, valid for a period of five years, is issued to an otherwise qualified applicant who: (1) holds a valid Oregon standard teacher's certificate or a five-year regular Oregon teacher's certificate; (2) verifies five years of successful teaching and administrative experience, at least two years of which was in some supervisory or administrative capacity; (3) is recommended by the approved college or university in which the applicant completed a graduate program in preparation for school administration as having the qualifications essential for a school administrator; (4) verifies completion of the specialized professional requirements in the norm for school administration as determined by the Oregon Board of Education.

The department's sixth-year program in educational administration calls for a total of 60 credit hours of upper-division and graduate study beyond the master degree. Those who complete this 60-credit-hour program earn a Sixth-Year Certificate from the College of Education.

Sixth-Year Certificates may be earned by superintendents, principals, or any other professional-school employees upon completing the 60-credit-hour planned program. This certificate will, in most cases, meet any membership requirements in state or national organizations of principals, superintendents, supervisors, or other educational specialists. The candidate and adviser may always arrange programs to cover special needs and interests.

Both Ph.D., and D.Ed. degrees are offered, and through flexible programming and individualized advisement, a wide variety of specializations relevant to educational administration, research, and development may be obtained. Requirements for admission to the department's doctoral programs include those imposed by the Graduate School and other evidence of academic ability such as an acceptable score on the Miller Analogies Test, and recommendations by professional colleagues. More complete information regarding programs, requirements, and admission may be obtained from the office of the department chairman.

Upper-Division Courses Carrying Graduate Credit

EdAd 407. Seminar: Law and Education. (G) 3 credit hours.

Provides the foundation for the study of student and teacher rights by examining the social functions of law, the legal method of research and analysis, and the legal framework in which public education operates. Considered will be: separation of powers; organization and jurisdiction of federal and state courts; legal relationships in education between local, state, and federal governments. Freedom of religion and racial desegregation are discussed as part of intergovernmental relationships in education. Goldschmidt.

EdAd 407. Seminar: Teacher Rights. (G) 3 credit hours.

Teacher rights with respect to certification, contracts, personal liability, and conditions of employment. Issues related to conditions of employment will include teacher salaries, assignment and transfer, discharge, retirement, loyalty, and collective negotiations. Rights of student teachers and interns also considered. Prerequisite: EdAd 407: Law and Education, or consent of instructor. Goldschmidt.

EdAd 407. Seminar: Student Rights. (G) 3 credit hours.

Rights of elementary and secondary students; discussion of equal educational opportunity and right to education; issues related to First Amendment freedom of expression; student dress codes; search and seizure; student records and counselor communications; rights of married students and mothers; due process relating to suspensions and expulsions, use of corporal punishment. The rights of minors under the juvenile justice system will be compared with the rights of minors in school. Prerequisite: EdAd 407: Law and Education, or consent of instructor. Goldschmidt.

Graduate Courses

EdAd 501. Research.

Credit hours to be arranged. No-grade course.

EdAd 503. Thesis.

Credit hours to be arranged. No-grade course.

EdAd 505. Reading and Conference.

Credit hours to be arranged.

EdAd 507. Seminar: Internship. 1-6 credit hours.

Relevant experiences in administration of schools or in educational research and development will be arranged on an individualized basis. Details may be obtained from the department chairman.

EdAd 507. Seminar: Practicum for Interns. 2 credit hours.

Continuing assessment and discussion regarding internship experiences will be conducted for interns by appropriate faculty.

EdAd 507. Seminar: Values in Administration. 1 credit hour.

Interrelationship between values and behavior in the administration of social organizations with emphasis upon education. Instructor's consent, three consecutive terms required. Thiemann.

EdAd 507. Seminar: Foundations of Educational Research. 3 credit hours.

A two-quarter sequence for students in educational administration covering the logic of hypothesis-testing research, in-

cluding theory, research design, measurement, and data analysis. Students carry out a minor research project. Statistics is not a prerequisite. Instructor's consent is required. Charters.

EdAd 507. Seminar: Current Issues in Education. 1 credit hour.

A series of lectures on pertinent topics of concern to administrators today. Jacobson, others.

EdAd 507. Seminar: Innovative Practices in Education. 2 credit hours.

On-site observation and analysis of significant developments and innovations in elementary and secondary schools and other institutions including central school district administrations. Erickson, Hearn, Sandin.

EdAd 507. Seminar: Management of Educational Institutions. 3 credit hours.

Presents a variety of perspectives for viewing administration as a field of study. Includes administrative task areas, the administrative process, bureaucratic management, leadership, and administration as a social role. Abbott.

EdAd 507. Seminar: Educational Institutions as Social Organizations. 3 credit hours.

The seminar examines the organizational structure and the social organization of educational institutions and their interaction. Carlson.

EdAd 507. Seminar: Simulation in Decision-Making. 3 credit hours.

Uses simulated situations for skill development in decision-making. Emphasizes adequate use of information, anticipating consequences, and accurate analysis of problems. Instructor's consent is required. Abbott, Sandin, Thiemann.

EdAd 507. Seminar: Change in Educational Organizations. 3 credit hours.

Consideration of both evolutionary and planned change in educational organizations; purpose is to organize existing knowledge through the utilization of propositional inventories. Carlson.

EdAd 507. Seminar: Conflict Management in Education. 3 credit hours.

Interdisciplinary study of community conflict and human aggression theories; application to analysis and management of both inter- and intra-organizational conflict in education. Instructor's consent is required. Piele, Gilberts.

EdAd 507. Seminar: Evaluation of the School Program. 3 credit hours.

Appraisal of educational programs on the basis of the school's philosophy and the characteristics of the community to be served. Instruments developed by the National Study of School Evaluation, as well as other recent appraisal materials, will be studied. Hearn.

EdAd 507. Seminar: Thesis. 2 credit hours.

Carlson, others.

EdAd 507. Seminar: Model Elementary Schools. 3 credit hours.

Designed to enable students to examine diverse models of elementary schools—graded, nongraded, multi-unit, free school, open area, and others; the central mission(s) of the school, support systems and critical questions relevant for their analysis and evaluation. Sandin.

EdAd 507. Seminar: Advanced School Law. 3 credit hours.

Major goals will be to develop: knowledge of legal terminol-

ogy, ability to identify legal aspects of a problem or issue, ability to locate relevant legal information, ability to apply legal information to a problem, sensitivity to the legal implications of all acts and situations at all times, increased knowledge of many aspects of school law. Osibov.

EdAd 507. Seminar: The Nongraded Elementary School. 3 credit hours.

Beliefs, objectives, curricular and organizational plans, policies, teaching practices including resources for individualizing instruction, research findings, issues, and other matters associated with the nongraded movement in America. Sandin.

EdAd 508. Workshop.

Credit hours to be arranged.

EdAd 527. Secondary-School Administration and Supervision. 3 credit hours.

Secondary-school principalship; principles of administration, staff relationships, public relations, and professional growth; business administration; administration of guidance services, curriculum, and school activities; evaluation of the secondary school. Hearn.

EdAd 552. Elementary-School Problems. 4 credit hours.

Examination of current criticisms and controversies associated with the education of children such as conformity versus freedom, vocational versus humanistic emphasis, lack of relevance to out-of-school life; associated conditions and forces; potential resolutions. Sandin.

EdAd 554. Elementary-School Administration and Supervision. 4 credit hours.

Legal status, role expectations, and broad responsibilities associated with principalship positions; theories and models of elementary school organization; common administrative processes and their application; model pupil personnel policies; teacher-administrator relations, professional negotiations and professional organizations; critical factors in school-community relations. Sandin.

EdAd 559. Evaluation of Secondary-School Programs. 3 credit hours.

Appraisal of secondary schools on the basis of evaluative criteria, with special attention to the work of the National Study of Secondary School Evaluation. Hearn.

EdAd 560. Secondary-School Problems. 3 credit hours.

Emphasis upon leadership responsibility for the improvement of the secondary-school instructional program with particular attention to the needs of the student. Implementation of basic principles through the use of such materials as study-habits inventories, time-distribution sheets, quintile classifications, interest inventories, and cumulative personnel records. Hearn.

EdAd 572. Public School Administration. 3 credit hours.

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

EdAd 573. Public School Organization. 3 credit hours.

The school in relation to state and federal agencies; the intermediate unit, its purposes, organization, trends; local school districts—problems of organization, plant-planning and management, school business administration, transportation, school finance, textbooks and supplies; extralegal agencies affecting education.

EdAd 575. School Finance. 3 credit hours.

Fiscal management of the schools; legal and political aspects of school finance; economics of education; taxation, local and state procurement and distribution of funds; performance budgeting and accounting. Prerequisite: work in supervision and administration, or consent of instructor. Osibov.

EdAd 576. School Buildings. 3 credit hours.

Critical survey and study of current trends in school buildings field: systems building, fast-tracking, open space design; alternatives to building: renovation and modernization, relocatables, year-round schools; the learning environment; legal and financial considerations; bond elections; maintenance, furniture and equipment, security. Piele.

EdAd 580. School-Personnel Administration. 3 credit hours.

An investigation of consideration of the best principles and practices in school-personnel administration and determining its role in facilitating the educational process.

EdAd 585. Instructional Practices in Secondary Schools. 3 credit hours.

Study, observation, and evaluation of innovative practices in junior and senior high schools; special attention to provisions for gifted and slow learners, flexible scheduling, large and small group instruction, independent study, the house plan, and instructional materials centers. Instructor's consent is required. Hearn.

EdAd 599. Administrative and Curricular Practices in Elementary Schools. 3 credit hours.

Study, observation, and evaluation of current developments in elementary education; special attention to such innovations as nongrading, multigrading, flexible grouping, computerized curriculum planning, instructional materials centers, special programs for the culturally deprived and for gifted children, and middle schools. Instructor's consent is required.

Program in Higher Education

THE Program in Higher Education offers a doctoral program with emphasis in Higher Education Administration, College Student Personnel Administration, Community College, and Adult Education.

The applicant for a doctoral degree in Higher Education must have completed a master degree prior to admission. The degree may have been received in education, or another professional school, or in an academic discipline.

Persons who are already established in a college career and who are interested in continuing study in an area related to their specialization, or those who aspire to such a career in higher education, may enroll in courses even though they do not want to complete a doctorate. Advisers are available to assist them in designing programs to meet their interests and needs.

Because of the need to accommodate varying student interests in the broad fields of higher education and because of the benefits of utilizing the many resources of the University, considerable flexibility exists in the development of each student's program of study.

A candidate who completes a program for a doctoral degree will be expected to have:

- (1) A general core directed toward the study of Higher Education *per se*.
- (2) Study in the historical, philosophical, and sociological foundations of education.
- (3) A basic core in research and statistical procedures, and substantial conduct of research in Higher Education.
- (4) Heavy emphasis in relevant aspects of educational psychology, anthropology, psychology, and sociology, with particular reference to group processes, growth and development, occupational choice, and counseling procedures.
- (5) Practica and internships.

Every doctoral candidate's program must include a minimum of 30 credit hours of interdisciplinary study; this does not include the Ph.D. language requirements. These hours may be taken from the several disciplines of the College of Liberal Arts, and in other professional schools. The doctoral candidate must meet all of the general requirements of the Graduate School and the Department.

It is suggested that candidates spend a summer in residence before seeking admission to the doctoral program. When candidates are satisfied that the University and the department have what they seek in a program, they should then apply for admission to the Graduate School and the department. Admission is granted "conditionally" for the first one or two terms before the candidate must seek formal admission to the doctoral program.

Additional information regarding the programs in Higher Education may be obtained from the department head.

Upper-Division Courses Carrying Graduate Credit

HiEd 407. Seminar. (G)

Credit hours to be arranged.

HiEd 409. Practicum. (G)

Credit hours to be arranged. No-grade course.

Graduate Courses

HiEd 501. Research.

Credit hours to be arranged. No-grade course.

HiEd 503. Thesis.

Credit hours to be arranged. No-grade course.

HiEd 505. Reading and Conference.

Credit hours to be arranged.

HiEd 507. Seminar.

Credit hours to be arranged.

HiEd 507. Seminar: Financing Higher Education.

Credit hours to be arranged. Hawk.

HiEd 508. Workshop.

Credit hours to be arranged. No-grade course.

HiEd 509. Practicum.

Credit hours to be arranged. Bowlin.

HiEd 520. Adult Education. 3 credit hours fall.

Survey of adult education. Purposes, programs, philosophy, methods, materials, agencies, organization. Consent of department is required. Dahle.

HiEd 530. Higher Education in Developing Countries. 3 credit hours winter.

Brief survey of higher education in selected developing countries; comparison with American higher education; relation to economic development, major problems. Wood.

HiEd 550. Administration of College Student Services. 3 credit hours winter.

Problems of counseling, financial assistance, housing, career planning and placement, student activities, student services and relationship to academic mission. Prerequisite: consent of department. Bowlin.

HiEd 571. Administration of the Community College. 3 credit hours.

An examination of the origin and functions of the college movement with emphasis on the problems and issues in organization and administration. Thiemann.

HiEd 572. Programs in the Community College. 3 credit hours.

A survey of the variety of programs offered in the community college and their relationship to other educational, professional, and vocational areas. Thiemann.

HiEd 590. Higher Education Survey. 3 credit hours.

Survey of present status and trends. Impact of national goals; types of institutions; governance; state and federal financing management information systems; innovation and change; higher education and the public. Lallas.

HiEd 591. Teacher-Education Survey. 3 credit hours.

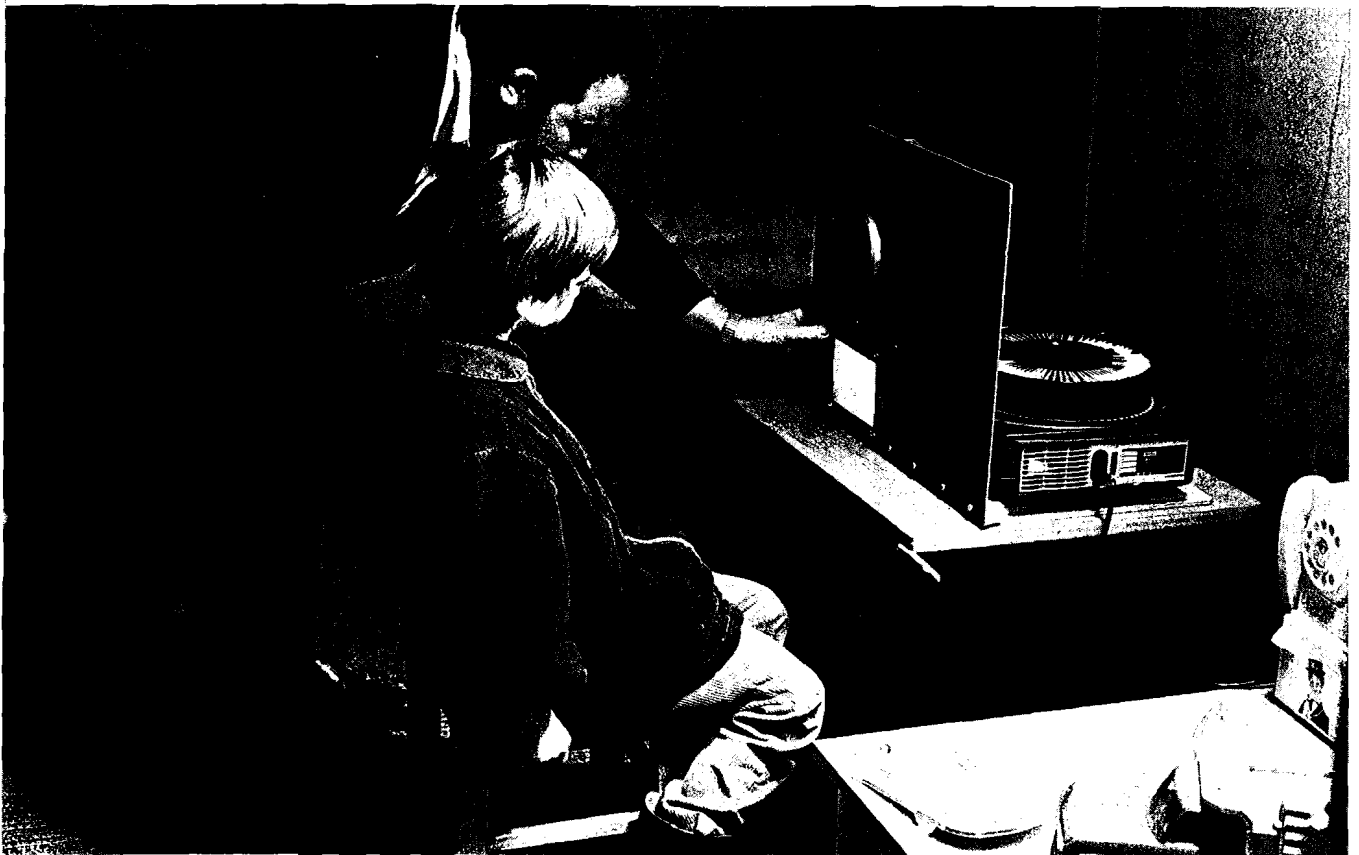
Purposes, needs, and objectives of teacher education; present facilities and types of organization; student-selection procedures; staff; curriculum. Relationships of preservice undergraduate, preservice graduate, in-service campus, and in-service field training.

HiEd 592. Administration of Colleges and Universities. 3 credit hours.

Institutional organization—case studies; institutional objectives; academic organization for instruction, research and participation in governance; changing student roles; public service; general administrative functions and activities.

HiEd 597. Methods of College Teaching. 3 credit hours.

Psychology of learning, methods and techniques of college teaching, preparation for teaching, evaluation of teaching. Wood.



Educational Foundations

Department Head, Hugh B. Wood, Professor of Education (comparative education, curriculum design). B.S., Toledo, 1931; M.A., Colorado, 1935; Ed.D., Columbia, 1937; at Oregon since 1939.

C. A. Bowers, Professor of Education (philosophy of education). B.S., Portland State University, 1958; Ph.D., University of California at Berkeley, 1962; at Oregon since 1967.

Grace Graham, Professor of Education (social foundations). B.A., 1933, M.A., 1936, South Carolina University; Ed.D., Stanford University, 1952; at Oregon since 1954. (On leave, 1973-74.)

Harry F. Wolcott, Professor of Education and Anthropology (anthropology and education). B.S., California, 1951; M.A., San Francisco State College, 1959; Ph.D., Stanford University, 1964; at Oregon since 1964.

IN addition to providing courses for students working for other degrees and certificates, the Department of Educational Foundations offers a program of advanced study leading to either the Doctor of Education or Doctor of Philosophy degrees. (The department does not offer a master degree.) The program provides study and research opportunities in the areas of history, philosophy, sociology, and anthropology of education, and comparative and international education. Flexibility in the planning of the program of study allows each student to choose either a generalist approach to the field of educational foundations or a more concentrated study in one of the foundation areas. Work in other departments of the College of Education, as well as in the College of Liberal Arts, is an integral part of the doctoral program.

Students interested in a doctorate in this department should confer or correspond with the Head of the Department of Educational Foundations. University-wide requirements for admission to the Graduate School will be found in the Graduate School section of this catalog.

EdF 324. **The School in American Life.** 3 credit hours.

Orientation to the purposes, organization, financing, and operation of the American school, and the relationship of these factors to modern educational reform. Evaluation of education as a career. Wood.

EdF 327. **Social Foundations of Teaching.** 3 credit hours.

Study of such social influences upon pupil behavior and learning as the culture of the school; the pupil's family background, peer group, the neighborhood environment; value systems; mass media. Consideration of the teacher's role in working with children of different social backgrounds.

EdF 328. **Social Foundations of Teaching.** 3 credit hours.

Study of the role of the school in the community and of the local community's influence upon school culture, practices, and curriculum; the Community School concept; community re-

sources for teaching; and pupils' out-of-school activities and learnings.

EdF 405. **Reading and Conference.**

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

EdF 407. **Seminar.** (G)

Credit hours to be arranged.

EdF 440. **History of Education.** (G) 3 credit hours.

Study of the major issues and ideas that have influenced the development of education in the West. Attention will also be given to the relationship of educational ideas to social, political, and philosophical issues. Wood.

EdF 411. **History of American Education.** (G) 3 credit hours.

Study of ideas and events in American education from the Puritans to the present. Wood.

EdF 445. **Modern Philosophy of Education.** (G) 3 credit hours.

Examination of the ideas of Sartre, Buber, and G. H. Mead as they relate to current educational issues; the nature of freedom, identity and alienation as analyzed from a phenomenological perspective; education as a process of examining cultural assumptions; the relationship between local control of education and freedom of inquiry; education and Berger's theory of the social construction of reality. Bowers.

EdF 491. **Social Education.** (G) 3 credit hours.

Examines the effects of the interrelationships of education and other social institutions in society in an effort to understand and deal with cultural change, the variety of special demands upon the schools, and contemporary issues and problems.

Graduate Courses

EdF 501. **Research.**

Credit hours to be arranged. No-grade course.

EdF 503. **Thesis.**

Credit hours to be arranged. No-grade course.

EdF 505. **Reading and Conference.**

Credit hours to be arranged.

EdF 507. **Seminar.**

Credit hours to be arranged.

Anthropology in Educational Administration. Wolcott.

Cultural Perspectives in Education. Wolcott.

Education for Community. Bowers.

Educational and Social Ideas of John Dewey. Bowers.

Ethnographic Method in Education Research. Wolcott.

Existentialism and Education. Bowers.

International Education. Wood.

Political Socialization.

EdF 508. Workshop.

Credit hours to be arranged. No-grade course.

EdF 542. Urbanization, the Pupil, and the School. 3 credit hours.

Prevailing social patterns in urban society that are pertinent to an understanding of what pupils learn and study, pupil behavior, and school problems; impact of urbanization on the changing American family, teenage culture, and the school. Emphasis on effects on children.

EdF 545. School and Society in the Recent Past. 3 credit hours.

Examination of the issues that have arisen in education as a result of recent social, political, and intellectual developments. Analysis of the issues presented in the writings of Ortega, Marcuse, Ellul, Freud, and Skinner, among others, will be a major part of the course work. Prerequisite: EdF 445, or consent of instructor. Bowers.

EdF 571. Anthropology and Education. 3 credit hours.

Education viewed as cultural process. The anthropology of teaching; review of cultural anthropology for its relevance to educating; analysis of formal education from an anthropological perspective; education in cross-cultural settings. The teaching of anthropology; anthropology in the curriculum. Formal

and informal modes of enculturation. Prerequisite: graduate standing in anthropology, or classroom teaching experience. Wolcott.

EdF 572. Anthropology and Education. 3 credit hours.

Exploration in depth of some problem or issue central to the field of anthropology and education; topic announced in advance. Prerequisite: EdF 571 or Anth 415, or consent of instructor. Wolcott.

EdF 590. Economics of Education. 3 credit hours.

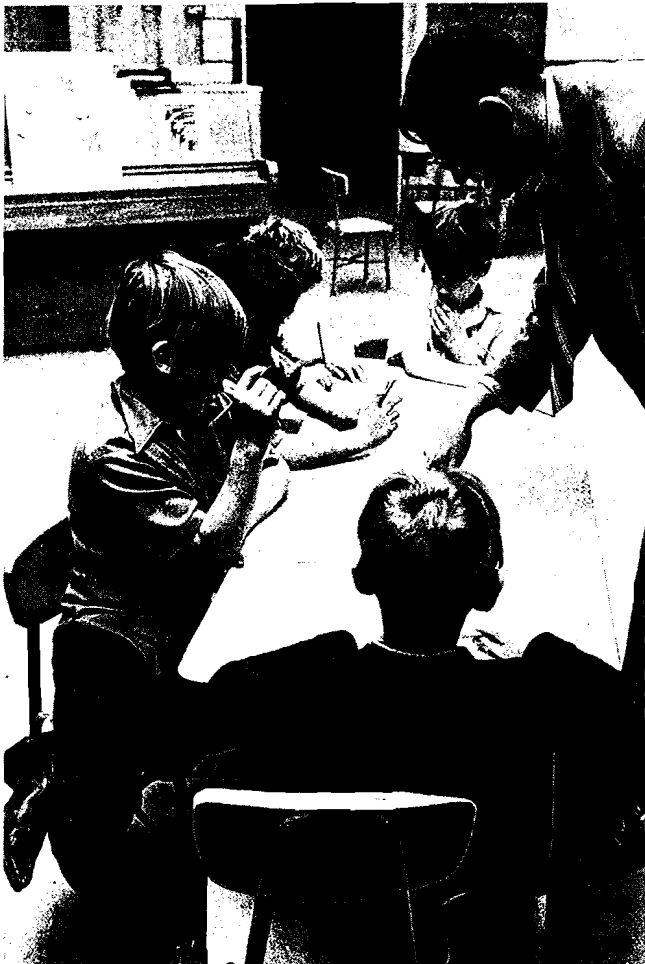
Study and application of basic underlying principles and techniques. Education as investment; wastage, systems analysis, costing, general planning. Wood.

EdF 591. Educational Planning in Developing Countries. 3 credit hours.

Characteristics of developing countries, nature of education in developing countries and relations to economic development; principles, and applications of educational planning. Wood.

EdF 598. Comparative Education. 3 credit hours.

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



Educational Psychology

Department Head, Arthur Mittman, Ph.D., Professor of Education (measurement and research, psychometrics). B.A., 1947, M.S., 1950, Ph.D., 1958, Iowa; at Oregon since 1963.

Ruth M. Brewer, M.S., Instructor in Education (gerontology, librarianship). B.S., Washington, 1941; M.S., Oregon, 1968; at Oregon since 1968.

Henry F. Dizney, Ph.D., Professor of Education (measurement and research, educational evaluation). B.S., Southeast Missouri State, 1954; M.Ed., Wayne State, 1955; Ph.D., Iowa, 1959; at Oregon since 1967.

John Ewing, M.S., Visiting Assistant Professor of Education and CSPA (gerontology, counseling of students, community service organization). B.A., George Peabody College, 1953; M.Div., McCormack Theological Seminary, 1956; M.S., Oregon, 1972; at Oregon since 1972.

A. J. H. Gaite, Ph.D., Assistant Professor of Education (human development, teacher education, sex-stereotyping). B.A., Hull University, 1958; M.A., McGill University, 1966; Ph.D., University of Toronto, 1968; at Oregon since 1972.

Jean R. Leppaluoto, Ph.D., Associate Professor of Education (school psychology, social psychology: attitude change, group processes). B.A., Oregon, 1961; M.A., 1966, Ph.D., 1970, Berkeley; at Oregon since 1970.

Lloyd L. Lovell, Ph.D., Professor of Education (human development, giftedness, philosophy of science, perception). B.A., Lawrence, 1947; M.S., Minnesota, 1951; Ph.D., Cornell, 1955; at Oregon since 1959.

Donna M. McKenzie, B.S., Acting Instructor in Education (gerontology, adult education). B.S., Oregon, 1969; at Oregon since 1969.

Richard J. Rankin, Ph.D., Professor of Education (psychometrics, learning and motivation, human development). B.A., 1953, M.A., 1954, Ph.D., 1957, California; at Oregon since 1966.

Richard A. Schmuck, Ph.D., Professor of Education; Research Associate, Center for the Advanced Study of Educational Administration (social psychology, group processes, organization development). B.A., 1958, M.A., 1959, Ph.D., 1962, Michigan; at Oregon since 1967.

Frances G. Scott, Ph.D., Professor of Education; Director, Center for Gerontology; Professor of Community Service and Public Affairs (gerontology, administration, research and adult development). B.A., 1953, M.A., 1954, Texas; Ph.D., California at Los Angeles, 1960; at Oregon since 1962.

THE Department of Educational Psychology serves a dual role: (1) it provides instruction in the elements of learning, motivation, perception, and measurement as they apply to classroom situations for undergraduates preparing to teach, and service courses in these areas for graduate students training for any of the educational specialties, e.g., remedial education, early childhood education, counseling psychology, and special education. (2) The department

offers intensive programs at the graduate level for persons interested in (a) the discipline of educational psychology, (b) human development, (c) school psychology, and (d) measurement and research.

Graduate study in the four areas listed above is supported by a qualified faculty representing each of the specialties. Programs are designed for each student individually, to remedy initial weaknesses in the student's previous background and experience and at the same time provide a program of study compatible with future professional goals.

Admission to all programs follows the usual procedure for admission to the Graduate School at the University of Oregon. Formal admission to the Department of Educational Psychology is also required.

General Educational Psychology. Programs leading to the Master of Arts, Master of Science, Master of Education, Doctor of Philosophy, and Doctor of Education degrees are offered in general educational psychology. In general, the purpose of each of these programs is to produce graduates capable of functioning as college teachers and researchers in the areas of educational psychology. Each program varies in level and emphasis, but all are planned to provide a sound foundation in the content and methodology of the discipline. Human learning and behavior is stressed. Instructional support is found in many departments of the University, but especially in Curriculum and Instruction, Psychology, Anthropology, Sociology, and Special Education. The system of advising allows flexibility in each student's program in terms of individual needs, strengths, and prior experience.

Human Development. The human-development program is broadly based and designed to prepare the student to work in a large number of areas associated with the discipline. A strong background in statistics, research design, and measurement is required, and a sequence in human development combined with the educational psychology sequence is considered essential. Twenty-seven credit hours of work outside the College of Education are required. Choices are offered among anthropology, biology, psychology, and sociology courses.

Measurement and Research. A graduate student in educational psychology may elect to concentrate in the area of measurement and research. In addition to advanced courses in the department, the student is required to take work in probability, statistics, and computing and related courses in psychology. Undergraduate mathematics training through calculus is desirable.

School Psychology. Master and doctoral programs of study are offered. Admission requirements are similar to those of the general educational psychology programs. The school-psychology programs prepare students to function as professional psychologists in educational systems and to teach at the college level. Emphasis is on the application of general principles of psychology to the learning and developmental processes within the education system.

EPsy 326. Human Development and Learning. 5 credit hours.

Learning principles and theories and their applications to classroom practice. Some theories and principles of human develop-

ment. Basic concepts of measurement and testing. Separate sections for prospective elementary and secondary teachers.

EPsy 321, 322, and 323, below, have been given emergency approval to be offered in place of EPsy 326 for the academic year 1973-74 only. The courses are experimental; they may be substantially changed another year, or may be withdrawn. Students wanting basic courses in educational psychology to meet requirements should consult with advisers or the department for current status of these courses.

EPsy 321. Human Development and Education. 2 credit hours.

Examination and study of human development through conception, infancy, childhood, adolescence, and early adulthood; consideration of relationship between developmental processes and educational experience in the United States today. Offered with emergency approval only, 1973-74.

EPsy 322. Human Learning and Education. 2 credit hours.

Examination and study of human learning in children, adolescents, and adults. Consideration of theories of learning and theories of instruction, and their relevance to human learning in individual, group, and school situations. Prerequisite: EPsy 321, or an approved equivalent. Offered with emergency approval only, 1973-74.

EPsy 323. Psychology and Problems in Education. 2 credit hours.

Study of role of psychology in a number of contemporary problems and issues in education. Knowledge of human learning, developmental processes, and group behavior will be related to particular current issues in education, e.g., the use of intelligence tests and testing programs in schools. Prerequisite: EPsy 321 and 322, or an approved equivalent, and practical experience approved by department. Offered with emergency approval only, 1973-74.

EPsy 405. Reading and Conference.

Credit hours to be arranged.

Upper-Division Courses Carrying Graduate Credit

EPsy 407. Seminar. (G)

Credit hours to be arranged.

Developmental Psychology: Child. Lovell.
Developmental Psychology: Adolescent. Lovell.
Developmental Psychology: Adult. Scott.
Human Development and Learning. Becker.
Research Strategies in Gerontology. Scott.

EPsy 409. Practicum. (G)

Credit hours to be arranged.

Test Binet. Rankin
Test WISC/WAIS. Rankin.
Special Tests. Rankin.
School Psychology. Leppaluoto.
Human Aging. Ewing.

EPsy 424. Measurement in Education. (G) 3 credit 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. The course includes simple statistics of test interpretation. Dizney.

EPsy 439. The Gifted Child. (G) 3 credit hours.

The psychology, education, and guidance of the mentally superior and the extraordinarily gifted child. Lovell.

Graduate Courses

EPsy 501. Research.

Credit hours to be arranged. No-grade course.

EPsy 503. Thesis.

Credit hours to be arranged. No-grade course.

EPsy 505. Reading and Conference.

EPsy 507. Seminar.

Credit hours to be arranged.

Learning I, II, III. Rankin.

Motivation.

Design and Analysis of Experiments I, II. Mittman.

Correlation Methods. Mittman.

Topics in Statistics. Mittman.

Advanced Topics in Measurement. Mittman.

Advanced Educational Psychology I, II, III.

Theories of Interpersonal Relations. Leppaluoto, Schmuck.

Planned Change in Schools. Leppaluoto, Schmuck.

Research Strategies in Gerontology. Scott.

Philosophy of Science. Lovell.

Group and Individual Differences. Rankin.

Thesis.

Personality and Aging. Sundberg.

Theories and Practices of School Psychology in Oregon. Leppaluoto.

Developmental Psychology: Adult. Scott.

Analysis of Published Research. Rankin.

Evaluation of School Programs. Dizney, Rankin.

Advanced Topics in Developmental Psychology. Lovell.

Unobtrusive Measurement in Education. Dizney.

Principles and Practices of School Psychology I, II, III. Leppaluoto.

Group Processes in Education. Leppaluoto.

EPsy 508. Workshop.

Credit hours to be arranged.

EPsy 509. Practicum.

Credit hours to be arranged.

Human Aging. Ewing.

EPsy 512. Introduction to Research Procedures in Education. 3 credit hours.

Serves as an introduction to the scientific methodology essential to carrying out a research study. Particular attention is given to statement of the problem, formulation of hypotheses, and design of experiment. Prerequisite: EPsy 424, 515, 516, or their equivalents. Dizney, Mittman.

EPsy 515, 516. Educational Statistics. 3 credit hours each term.

A basic sequence in statistical analyses: presentation of data, probability, sampling theory, hypotheses testing, regression and correlation, analysis of variance. Mittman.

EPsy 517. Advanced Educational Statistics. 3 credit hours.

The study of probability theory, sampling theory, and sampling distributions of greatest use in educational research on experi-

mental design. Prerequisite: EPsy 515, 516 or equivalent. Mittman.

EPsy 525. Theory and Technique of Educational Measurement. 3 credit hours.

A study of the development of measurement theory from different postulations and the relationship of this theory to tests and scales in the practical setting. Prerequisite: EPsy 424, 515, 516, or equivalent. Mittman.

EPsy 529. Advanced Educational Psychology I. 2 credit hours.

Learning. Review of theories and variables with emphasis on implications for teaching methodology and classroom management. Prerequisite: background in educational or general psychology. Rankin.

EPsy 530. Advanced Educational Psychology II. 2 credit hours.

Motivation related to human learning. Review of major theories of motivation. Research and demonstration. Prerequisite: EPsy 529. Lovell.

EPsy 531. Advanced Educational Psychology III. 2 credit hours.

Perception and social psychology. Review of theories of perception and perceptual learning; applications to the educational process. Theories and literature of group dynamics especially as applicable to educational settings. Prerequisite: EPsy 529, 530. Leppaluoto.

EPsy 549. Principles and Practices in School Psychology. 3 credit hours.

The theory and function of school psychology in its relation to the learning function. Required of all school psychology majors. Leppaluoto.

EPsy 564. Mental Tests. 4 credit hours.

An investigation is pursued into the rationale underlying modern ability tests. Factorial and G factor models are described with the intent of building a conception of the nature of ability. Literature is reviewed showing how tests in general contribute to psycho-educational theory. Attention is paid to practical psychometric problems. Prerequisite: Consent of instructor. Rankin.

Oregon Center for Gerontology

Staff

Frances G. Scott, Ph.D., Director
 Ruth M. Brewer, M.S., Librarian
 John Ewing, M.S., Field Instruction Supervisor
 Donna M. McKenzie, B.S., Instructor

Executive Committee

Carl Carmichael, A. M. Hanhardt, R. E. Kime, T. W. Kleinsasser, Richard Littman, Walter Martin, Robert Raus, A. L. Soderwall, Clarence Thurber, E. F. Scoles, Paul Swadener.

THE Oregon Center for Gerontology, a division of the Department of Educational Psychology, is a multidisciplinary training program currently funded by a training grant from the Federal Administration on Aging. Gerontology is considered a supporting area for majors in several University schools and departments. Both graduate and undergraduate traineeships are available.

An interdisciplinary core curriculum in gerontology, including either field placement or research experience or both, is required of students electing gerontology as a supporting area. The core curriculum introduces the student to problems of the aging process and permits scholarly development of special interests through research or field placement.

Following are the fourteen courses and seminars, and the three field-study courses offered during the regular academic year at the University of Oregon. Course descriptions appear in the sections for the appropriate schools and departments elsewhere in this catalog.

Perspectives in Aging (RPM 407) 3 credit hours; Psychology of Aging (CSPA 407) 3 credit hours; The Politics of Aging (PS 407) 3 credit hours; Confrontations of Death (CSPA 407) 3 credit hours; Potentialities of the Physical Environment (Arch 407) 3 credit hours; Financial Security in Aging (FBE 407) 3 credit hours; Supervised Field Study (CSPA 409) 3-12 credit hours; Field Theory Integration (CSPA 411, 412) 3 credit hours; Developmental Psychology of Adulthood and Middle Age (EPsy 407) 3 credit hours; Health-Related Aspects of Aging (HE 407) 3 credit hours; Administration of Senior Centers (RPM 407) 3 credit hours; Social Dimensions of Leisure and Retirement (RPM 407) 3 credit hours; Media Laboratory in Gerontology (BC 407) 3 credit hours; Biological Theories of Aging (Bi 407) (not offered academic year 1973-74) 3 credit hours; Practicum: Human Aging (EPsy 409) 3-12 credit hours; Strategies of Research in Gerontology (EPsy 507) 3 credit hours; Personality and Aging (EPsy 507) (not offered academic year 1973-74).

Two workshops are scheduled during the Summer Session: Life Planning for Mature Women (CSPA 408) 2 credit hours; and Education for the Retirement Years (CSPA 408, EPsy 508) 12 credit hours.

In addition to work on the University's Eugene campus, the Oregon Center for Gerontology conducts training programs at the University of Oregon Dental School, Oregon State University, and the Division of Continuing Education.

Special Education, Speech Pathology, and Audiology

Department Head, Herbert J. Prehm, Ph.D., Professor of Education (mental retardation). B.S., Concordia Teacher's College, 1959; M.S., 1962, Ph.D., 1964, Wisconsin; at Oregon since 1965.

Barbara D. Bateman, Ph.D., Professor of Education (learning disabilities). B.S., Washington, 1954; M.A., San Francisco State, 1958; Ph.D., Illinois, 1962; at Oregon since 1966.

Wesley C. Becker, Ph.D., Professor of Education (culturally disadvantaged). B.A., 1951, M.A., 1953, Ph.D., 1955, Stanford; at Oregon since 1970.

Douglas Carnine, B.S., Instructor of Special Education (culturally disadvantaged). B.S., Illinois, 1969; at Oregon since 1970.

Ned J. Christensen, Ph.D., Director, Speech and Hearing Center; Associate Professor of Speech (speech pathology and audiology). B.A., 1954, M.A., 1955, Brigham Young; Ph.D., Pennsylvania State, 1959; at Oregon since 1962.

John E. deJung, Ed.D., Professor of Education (mental retardation). B.A., Montana, 1951; M.A., 1954, Ed.D., 1957, Syracuse; at Oregon since 1964.

Siegfried E. Engelmann, B.A., Associate Professor of Education (culturally disadvantaged). B.A., Illinois, 1955; at Oregon since 1970.

V. Knute Espeseth, Ph.D., Associate Professor of Education, Director of Student Services (crippled and other health-impaired). B.S., North Dakota State Teacher's, 1955; M.S., North Dakota, 1961; Ph.D., Wisconsin, 1965; at Oregon since 1964.

Lew B. Myers, M.D., Assistant Professor of Education (neurologically impaired). B.S., Oregon State, 1955; M.S., 1960, M.D., 1960, Oregon; at Oregon since 1966.

George Sheperd, Ed.D., Associate Professor of Education (mental retardation). B.S., 1955, M.A., 1958, Colorado State College; Ed.D., Illinois, 1965; at Oregon since 1965.

John M. Stamm, Ph.D., Assistant Professor of Education (mental retardation). B.S., Concordia Teacher's College, 1965; M.S., 1967, Ph.D., 1970, Wisconsin; at Oregon since 1970.

Ruth Waugh, Ph.D., Assistant Professor of Education, Coordinator, DeBusk Memorial Center (learning disabilities). B.S., Southern Oregon, 1957; M.S., 1963, Ph.D., 1972, Oregon; at Oregon since 1963.

Kenneth S. Wood, Ph.D., Professor Emeritus of Speech (speech pathology and audiology). B.S., Oregon State, 1935; M.A., Michigan, 1938; Ph.D., Southern California, 1946; at Oregon since 1942.

Objectives of the Program. The objectives of the program in this area of Special Education are: (1) to provide students with a knowledge of the scientific aspects of speech and hearing as related to speech and language—normal and disordered; (2) to provide basic training concerning symptoms, diagnosis, and treatment of the various types of communication disorders in children and adults; (3) to provide, along with study courses, the opportunity for extensive and varied supervised clinical practicum in on-campus and off-campus facilities; (4) to give the student an understanding of linguistic functions as a form of human behavior; (5) to relate study and practice in communication handicaps to the study of other areas of handicaps; (6) to provide as a foundation a strong undergraduate training program in order that the student may eventually qualify professionally as a speech pathologist.

Undergraduate work in Speech Pathology and Audiology is not intended as a terminal training program even though the student receives the Bachelor of Science or Bachelor of Arts degree. Those completing the undergraduate degree program may be recommended by the department for Oregon state certification and be permitted to work as speech therapists in public-school settings, but such employment will be for a limited period until completion of a fifth-year program leading to a master degree.

General Requirements for the Bachelor Degree. The student may work toward either the B.A. or the B.S. degree. The B.A. requires a total of 36 credit hours in courses classified as Language and Literature; the B.S. degree requires a total of 36 credit hours of courses classified as Social Science or a total of 36 credit hours classified as Science. (Social Science and Science cannot be combined in order to satisfy this requirement for the B.S. degree). In either case, the 36 credit hours are not in addition to the group requirements, but may be included in the total cumulative count of 186 credit hours.

Since Speech Pathology and Audiology is in the College of Education, the Group Requirements are those given for Professional Schools: three courses of at least 3 credit-hours each in Arts and Letters, for a minimum total of 9 credit-hours; three courses of at least 3 credit-hours each in Social Science, for a minimum total of 9 credit hours; three courses of at least 3 credit hours each in Science, for a minimum total of 9 credit hours; and three courses of at least 3 credit hours each in any of the groups; none of the foregoing courses need be a sequence. The following is a summary of the minimum group requirements, totaling 36 credit hours, for the College of Education: Group I, Arts and Letters, 9 credit hours; Group II, Social Science, 9 credit hours; Group III, Science, 9 credit hours; electives from Groups I, II, III, 9 credit hours.

Departmental Requirements. In addition to the general bachelor degree requirements of the University such as Writing, Health, Physical Education, and the Group Requirements, the following minimum requirements are specified for students majoring in Speech Pathology and Audiology.

(A) Core Courses	Hours	Prerequisites
SPA 370 Phonetics	3	None
SPA 371 Speech Science	3	None
SPA 472 Advanced Speech Science	3	SPA 370, 371

Undergraduate Studies

THE Department of Special Education, Speech Pathology, and Audiology offers an undergraduate degree only in the area of Speech Pathology and Audiology.

SPA 481	Functional Speech Disorders	3	SPA 370, 371 (may be taken concurrently)
SPA 482	Organic Speech Disorders	3	SPA 370, 371 (may be taken concurrently)
SPA 483	Speech Therapy Procedures	3	SPA 481, 482
SPA 487	Fundamentals of Audiology	3	SPA 370, 371 (may be taken concurrently)
SPA 488	Audiological Assessment	3	SPA 487
SPA 489	Audiological Rehabilitation	3	SPA 487, 488
SPA 473	Visual Language and Lip-Reading	3	None
SPA 474	Methods in Public School Speech Therapy	3	SPA 370, 371, 481, 482, 483, 409 (2 terms)
SPA 409	Clinical Practicum (2 credit hours per term)	6	Application, staff approval

Total, 39 credit hours.

(B) General Psychology. The student must have 9 credit hours of General Psychology. Those courses listed in either the Social Science Group or the Science Group will fulfill this requirement. It is suggested that the student choose from the following: Psy 211, 212, 213, 214, 215, 426, 435, 451, 460, 461, 462, 465, 492, 496.

(C) Upper-Division Credit. The student must have 18 credit hours in upper-division courses outside of Speech Pathology and Audiology which are substantially related to or complementary to the major program. These should be selected from other areas of Special Education, from the several areas of Education, and from psychology, sociology, or anthropology. The 18 upper-division credit hours need not be from any one department or field. Courses in human development and learning, audio-visual aids or practicum in public-school speech therapy will not satisfy this requirement.

State Certification in Speech Therapy. The following are additional requirements for basic state certification as a speech therapist in the public schools of Oregon. None of these are required for the bachelor degree in Speech Pathology and Audiology, but without them one cannot work in the public schools or in any agency where state certification is required: Human Development and Learning (EPsy 326 or the equivalent), 5 credit hours; Social Foundations of Teaching (EdF 327); 3 credit hours, or Educational Media (CI 435) 4 credit hours; Practicum in Public-School Speech, Correction (CI 409) 10 credit hours.

Registration in CI 409 must be approved by the Special Education staff, and applied for in the College of Education. Prerequisites are SPA 370, 371, 481, 482, 483, 474, 487, 488, 489, and 2 terms of SPA 409. It consists of one full term of supervised speech therapy in an assigned public school for one-half a day, five days per week.

Most undergraduate students plan their programs in order to qualify for Basic Oregon State Certification upon graduation. At the present time, the Basic Certificate is granted for a three-year period. It can be renewed for another three-year period if the holder of the Basic Certificate has earned at least 24 credit hours of graduate work which the Department of Special Education, Speech Pathology, and Audiology at the University of Oregon will accept as applicable toward a planned fifth-year of training in Speech Pathology and Audiology. If at all possible, the student should plan to enter graduate school immediately after completing undergraduate training, and complete the fifth year, possibly with a master degree. Certification requirements in Oregon, as well as in other states, are under constant review and may be changed from time to time.

In order to receive Basic Oregon State Certification as a speech therapist, the student must complete all requirements for the SPA major, must complete the requirements for the Basic Certificate as specified by the Oregon Board of Education, and must be recommended by the institution.

Grade Options. All courses for which any student receives graduate credit are pass-differentiated (A, B, C, or No-Pass). SPA 370 and SPA 371 may be taken by any student with a pass-no pass grade option. All students majoring in Speech Pathology and Audiology must take all other SPA courses on a pass-differentiated basis.

Personal Qualifications. Students without adequate speech ability may not major in SPA unless there is good reason to expect that they can achieve normal speech before attempting to engage in the required Clinical-Practicum courses. In general, the student must have the same capacity for self-adjustment and emotional stability for admission to the Clinical-Practicum courses that would be required in professional employment. Supervised clinical practicum involves both training for the student and service to the cases referred to the Speech and Hearing Center; and before students can be admitted to the clinical practicum they must have demonstrated that they are responsible, mature, and well-organized persons.

Students may not register for Clinical Practicum (SPA 409) until they make formal application stating what preparation they have had, and until applications are reviewed and approved by the SPA staff.

Admission as an Official Undergraduate Major. Students intending to major in Speech Pathology and Audiology will be accepted only as premajors until they are accepted into Clinical Practicum (SPA 409); they then will be officially recognized as majors. For admission to SPA 409, students must have a cumulative GPA of 3.00, and a 3.00 in all previously completed courses in Speech Pathology and Audiology including Phonetics and Speech Science. The faculty may wish to interview the student before consent to enroll in Clinical Practicum is given.

Those who are not accepted as majors may take basic courses as electives but may not enroll in any Practicum course or in courses for which Practicum is a prerequisite.

Students who have a cumulative GPA of 3.00 usually may become an official major by admission to Clinical Practicum after having earned a 3.00 average in Phonetics (SPA 370); Speech Science (SPA 371); and Functional Speech Disorders (SPA 481). In the event that enrollment in Clinical Practicum must be limited for any term, students with the best course-preparation will be given priority. Those with lesser preparation may have to delay their beginning practicum work.

Graduate Studies

Master Degree in Special Education

The major thrust of the master program in Special Education is to train direct-service personnel who are able to manage effectively the teaching-learning process with handicapped children. Such graduates should be competent to serve as master teachers whether it be direct instruction, in-service training, or program consultant-teachers for maintenance of children in the regular classroom.

The department is committed to a philosophy of de-emphasizing categorical boundaries for exceptional children. Therefore, master candidates will acquire competence in working with a wide range of children who exhibit either learning problems or behavioral deviancy or both. The department is moving towards a competency-based program so that each graduate will have been trained to meet a given set of objectives and will be capable of performing certain skills which are deemed essential for effective teachers of the handicapped.

As a result of this philosophy, it is strongly recommended that all master-degree candidates should complete a common core of courses to gain a basic set of skills and knowledge. The remainder of a student's course work and experiences should be planned carefully by the student in consultation with his or her adviser to provide the emphasis wanted in the degree. Although the department is committed to a noncategorical approach, students should have an emphasis in at least one area (e.g., mental retardation, behavioral disorders, learning disabilities, crippled and other health-impaired, speech pathology and audiology, or administration of special education) as many state departments of education have categorical requirements for certification.

Master Degree Options. Master-degree candidates have the option of working towards one of three master degrees. For the Master of Arts degree, the candidate must demonstrate proficiency in one foreign language in addition to all other requirements. There is no language requirement for the Master of Science or Master of Education degrees. However, for the M.Ed. degree, a candidate is required to have a valid teaching certificate and to have completed at least one year of successful classroom teaching.

Program Planning for the Master Degree. (1) It is recommended that master-degree programs in special education should include a minimum of 60 credit hours of post-baccalaureate study or equivalent.

(a) Master-degree candidates who have completed 12 or more credit hours in special education as undergraduates may be able to complete a minimum master-degree program in special education within a 48 credit-hour program.

(b) Master-degree candidates who have taught handicapped children may, with the advice and consent of their adviser, plan a complete master-degree program of 48 credit hours.

(c) Master-degree candidates who have the skills, competence, and knowledge generally expected for the master-degree level may challenge course and hour requirements by writing a satisfactory examination paper on the coursework without the necessity of enrolling in the course.

(d) Applicants may be admitted without having completed a teaching certificate. However, if they want to obtain a certificate to teach and a master-degree concurrently, without previous education background, students should plan on approximately two calendar years of full-time study.

(2) The master-degree program in special education should include some work in social, psychological, philosophical, and historical foundations of education as well as measurement and research. It is recommended that master degree in special education include a minimum of 9 credit hours, or their equivalent, in general foundation courses. It is recommended that at least one course should be selected from each of the following areas: (a) 3 hours Social or Psychological Foundation; (b) 3 hours Philosophical or Historical Foundations (c) 3 hours Measurement, Statistics, or Research.

A variety of courses may be elected from the psychology, anthro-

polo, educational psychology, sociology, and educational foundations departments to fulfill this requirement.

(3) It is recommended that all master-degree candidates in special education complete a common core of special education requirements. The recommended core program in special education includes: (a) Psychology of Exceptional Children (SpEd 462) 3 credit hours; (b) Dreikursian Child Guidance (Coun 463) 3 credit hours; (c) Scientific Writing (SpEd 507) 2 credit hours; (d) Behavior Management Exceptional Children (SpEd 407) or Behaviorism Special Education (SpEd 407) or Precision Teaching Practicum (SpEd 509) 3-6 credit hours. (e) Design of Instruction Exceptional Children (SpEd 407), Communication/Counseling Exceptional Children (SpEd 407), Historical and Legal Basis Special Education (SpEd 507) 9 credit hours.

(4) Master-degree programs in special education are planned by the candidate with the assistance of the candidate's adviser. Candidates admitted to the master program will be assigned a temporary adviser to assist in the initial planning of a program. A planned program leading to completion of the master degree must be filed in the Graduate Personnel Office, College of Education, and in the Department of Special Education. It is recommended that this be done before completion of 24 hours of the planned program.

(5) When the master-degree candidate intends to complete State of Oregon certification requirements in one or more areas of exceptionality, the candidate should discuss these requirements with faculty in the appropriate area: (a) Extreme Learning Problems, Ruth Waugh; (b) Mental Retardation, George Sheperd, John Stamm; (c) Crippled and Other Health-Impaired, V. Knute Espeseth; (d) Behavior Disorders, Joyce Spence; (e) Administration and Supervision of Special Education, Herbert Prehm; (f) Speech Pathology and Audiology, Ned Christensen, Wes Hervey.

(6) The procedures outlined below are designed to provide qualified students an opportunity to pursue these several programs in an orderly and professional manner. The necessity to follow these procedures should not deter otherwise uniquely qualified applicants, whose background may not meet stated minimum standards, from seeking exceptions.

(a) Filing Application. Students interested in pursuing one of the master-degree programs in the Department of Special Education must submit one completed copy of the Application for Graduate Admission. The green copy of the application, accompanied by one official copy of all previous college or university transcripts, and a \$10.00 filing fee must be submitted to the Director of Admissions, University of Oregon (Emerald Hall). The remaining copies of the application and two copies of all college and university transcripts must be submitted to the Department of Special Education, Speech Pathology, and Audiology, Trailer 29-C, University of Oregon. Additional materials to be filed only with the department include at least three recommendations and the completed Personnel Record Form. The recommendations may be obtained from appropriate professional sources; the Personnel Record form is completed by the applicant. Recommendations from University of Oregon faculty members should be included, if possible. All the necessary forms are available from the Department of Special Education, Speech Pathology, and Audiology.

(b) Obtaining Conditional Admission. To be considered for Conditional Admission, a prospective student's dossier must be completed and on file in the Department according to the following schedule: Summer Session, April 1; Fall Term, March 1; Winter Term, November 1; Spring Term, February 1.

The general variables considered by the Departmental Admissions Committee, for Conditional Admission, include: (1) past academic record (normally undergraduate GPA of 2.75 or above, or completion of 12 hours of successful (3.00) graduate work is expected); (2) prior professional experience; and (3) professional and personal recommendations. Subsequent to each of the filing deadlines, applications will be evaluated by a departmental Master-Degree Admissions Committee. At this time an applicant will either receive Conditional Admission (Class 3) or be denied admission. It is important to note that no master-program applicant will receive Full Graduate Admission (Class 8) upon original application for study. Each student will receive departmental notification of committee action. Upon receiving Conditional Admission, a preliminary program adviser will be made available to assist the student with initial planning and the securing of a permanent adviser. The adviser will assist in professional decisions regarding general foundations courses, specific program planning, equivalency of courses taken under differing titles, as well as substitutions and electives. The primary responsibility of securing a permanent adviser, developing, filing, and fulfilling a program remains with the student.

(c) Full Graduate Admission. After gaining Conditional Admission it is assumed the student will work with an adviser in developing and filing a program of studies.

Upon successful completion of 12 credit hours, and prior to completing 36 credit hours, of a planned program, the student must request change from Conditional to Full Graduate Admission. Except in unusual circumstances, the Admission Committee will award Full Graduate Admission if the student has an adviser, an approved program filed with the Graduate Personnel Office and the Department of Special Education, Speech Pathology, and Audiology, and has successfully completed 12 credit hours of graded, graduate study on the campus of the University of Oregon.

Minimum Requirements for Master-Degree Programs. (1) Total Credit. A planned program having a minimum of 48 credit hours is required. All work applicable to a program of studies must be concluded within seven years. Twenty-four credit hours of study on campus must be graded. A minimum of nine credit hours must be 500-level courses. A minimum cumulative GPA of 3.00 is required for graduation. Not more than 12 credit hours of Workshop (Ed 508) are acceptable toward a degree program.

(2) Transfer. Not more than 15 credit hours of graduate work taken elsewhere may be applied to a degree program. Study completed through the Division of Continuing Education is considered transfer work. Correspondence study is not applicable to a master degree.

(3) Residence. Thirty credit hours of graduate work are required to be completed in residence on campus. If less than 12 credit hours are transferred, three terms must be on campus; if 12-13 credit hours are transferred, two terms must be completed in residence on campus.

(4) Continuous Enrollment. A graduate student who has been admitted for work toward a graduate degree is required to enroll in the University each term during the regular academic year from the time of first enrollment until the completion of all degree requirements, including the awarding of the degree. In any term in which students are using University services and facilities, they must enroll in a minimum of three credit hours of course work. Ordinarily, this work will be done in residence, but students may register by proxy for course work when, for example, they are living elsewhere while writing a thesis and sending chapters of it to an adviser for criticism.

A student may register for on-leave status when not using University facilities or placing any demands upon the faculty; there are no fees for on-leave status. Leave is granted for a predetermined period of time, usually not to exceed one calendar year. An exception is made for students who are able to pursue their master-degree work only in the summer term; these students must apply for leave for the ensuing school year. They may request extensions of leave up to but not beyond the seven-year limitation on credit earned toward a master degree.

Failure to maintain continuous enrollment is considered evidence that the student has withdrawn from the University. Students wanting to resume study must formally apply for readmission, and must satisfy the requirements for admission in effect at the time of reaplication.

(5) Evaluation of Master Candidates. (a) The procedures outlined below do not apply to students who are majors in Speech Pathology and Audiology. (b) The procedures apply to master students admitted to the Special Education program after March 27, 1972. (c) The final examination for the master degree in special education (M.A., M.S., M.Ed.) is in three parts: a written comprehensive examination; a demonstration of teaching or clinical competence; and either an individual teaching project (field study) or a thesis.

The written comprehensive examination over special education will be prepared in the department by core instructors and volunteer faculty. The meeting time and place for preparation will be publicly announced by the Department Head at least two weeks in advance. The Department Head will appoint three members of the faculty in addition to the major adviser as readers for each examination. The papers will be read anonymously and independently; a rating scale will be used to report to students. Ratings will be compiled by a department secretary, and the report given to the student by the adviser. The College of Education will specify all examination schedules.

The individual teaching project or field study will be approved by the adviser, and a contract placed on file in the department; this is not a part of the regular course-work requirements; demonstrations before faculty and students will be scheduled. The contract should include (1) specific objectives, (2) how the objectives will be met, (3) criteria for assessment, and (4) projected time-line.

The demonstration of teaching or clinical competence will be evaluated by a demonstration evaluation prepared in the department. The evaluation will be supervised by a committee of practical supervisors.

At least two members of the Department of Special Education, Speech Pathology, and Audiology will serve on the candidate's thesis committee. The defense of the thesis takes place in an open departmental meeting; thesis committee members will attend the meeting.

(6) Application for Degree. An *Application for Degree* card must be secured from and filed with the Registrar within the first three weeks of the term in which the candidate expects to receive the degree.

(7) Review and Appeal Procedure. The Department of Special Education has a standing committee on student personnel. The committee includes elected student and faculty representatives; subcommittees handle a variety of matters pertaining to student enrollment in the department. The entire committee has responsibility for review and disposition of matters related to all student personnel questions, i.e., admission, transfer of credit, residence, enrollment status, comprehensive examinations.

The status of a student may be reviewed at any time in response to request by the student or by a faculty member. Requests should be directed to the Department Head for transmittal to the committee. A written brief describing the particulars of the matter to be reviewed must be included with the request.

The committee, upon receipt of a request for review and a brief, will review the brief and advise regarding need for additional information, if necessary. Additional information may in some instances require verbal presentation before the committee.

Master Degree in Speech Pathology and Audiology. The department offers work leading to either the Master of Arts or Master of Science degrees. For those wanting to apply for a master degree in the area of Speech Pathology and Audiology, the following procedures apply.

Requirements for Graduate Admission. No student will be admitted to this field of study who does not have the equivalent of an undergraduate major in either Speech Pathology or Audiology or both. A cumulative undergraduate GPA of 3.00 is required for admission to the master degree program. The applicant must take the *Miller Analogy Test* and direct that the score be sent to this department.

Admission to the University's Graduate School is made on the basis of the department's recommendation. Students who apply for admission must submit complete transcripts to the Office of Graduate Admissions, and complete transcripts to the Coordinator of Speech Pathology and Audiology.

Degree Requirements. (1) A minimum of 51 credit hours of graduate courses, at least 12 of which must be in other areas of study of the handicapped or in courses outside the department which are relevant to the program. (2) A grade average of B for each term. (3) A qualifying examination at the end of the student's first term, which is both written and oral. (4) A comprehensive examination, both written and oral, during the last term of the student's program. (5) All graduate students must be enrolled in Clinical Practicum (SPA 509 (2 credit hours) each term. The academic credits for this course are not part of the 51-hour requirement. (6) No thesis is required. (7) For the M.A. degree, the student must have an undergraduate record of two years of a foreign language. This is not required for the M.S. degree.

Clinical Practicum Facilities. Opportunity for supervised clinical experience are provided for graduate and undergraduate students in the following facilities:

(1) The University Speech and Hearing Center, housed in the new multi-million dollar Clinical Services Building on campus. Children and adults are accepted for evaluation, consultation, and treatment on a scheduled basis. Practicum students are assigned a variety of cases for individual therapy. They may also participate in diagnostic sessions available at least three times each week, hearing screening programs, and hearing-aid evaluations.

(2) The Eugene Hearing and Speech Center, a well-equipped community facility two miles from the University. This center arranges practicum experience for graduate students only. Undergraduate students may do observations here.

(3) The Pearl Buck Center for Mentally Retarded is a private facility in which selected, educable mentally retarded children are given intensive language and speech programs in relation to their total program of education.

(4) The Children's Hospital School, an Easter Seal facility for the neurologically impaired and in many cases nonambulatory children. Opportunities here are mostly related to speech therapy with cerebral-palsy children and intensive language programs.

(5) The Crippled Children's Division, Cerebral Palsy Clinic, an agency of the University of Oregon Medical School, a multi-disciplinary diagnostic clinic which evaluates and staffs neurologically impaired children on a monthly basis. From ten to fifteen children are evaluated and staffed each month.

(6) The Crippled Children's Division, Cleft Palate Clinic is a multi-disciplinary diagnostic clinic for children with oral-facial abnormalities. Students are permitted to participate on an observational basis, and may at times assist in diagnostic evaluation and staffing.

(7) Crippled Children's Core Clinic is a multidisciplinary clinic designed to staff children with suspected minimal neurological impairment.

(8) A cooperative arrangement with the Eugene School District enables undergraduates and graduate students to do practicum work in public schools. The school population is approximately 22,000 students. At the present time, public school practicum experience is limited somewhat by quotas and availability of practicum openings in the schools.

(9) A similar arrangement exists with the Springfield School District, a public school system three miles from the University. The school population here is approximately 5,000 students.

(10) Other off-campus facilities are used, such as selected parochial schools where practicum students are given the opportunities of designing public-school programs and performing the screening, follow-up, consultation, and other activities related to the establishment of school speech-therapy programs. Also, there are at times opportunities to participate on a limited basis in such programs as Head Start, Child-Care Centers, pre-school kindergarten programs, and other specific programs.

ASHA Accreditation. The department offers all the necessary courses required by students who want to qualify for the American Speech and Hearing Association *Certificate of Clinical Competence in Speech Pathology*. The department will apply for full accreditation in the near future.

Doctoral Programs

The primary mission of the Department of Special Education, Speech Pathology, and Audiology at the University of Oregon is the improvement of educational services delivered to the handicapped. As part of its attempt to fulfill this mission, the department prepares scholars who are capable of assuming positions of leadership in college and university programs in special education, and federal, state, and local education-agency programs for handicapped children. This preparation may lead to either the Doctor of Philosophy or the Doctor of Education degree. Departmental programs assume that (a) the trend within regular education of providing individualized instruction for all children will accelerate; (b) the trend toward providing a wider range of educational options for mildly handicapped children will continue; and (c) the more severely handicapped child will continue to be educated in some form of highly specialized programs.

Doctoral degrees are awarded in recognition of the attainment of advanced knowledge, scholarship, and practical competence in special fields. Individual programs are planned by students with the help of faculty advisers and may provide for specialization in administration and supervision of special education programs, behavior disorders, crippling and other health-impairing conditions, learning disabilities, mental retardation, and speech pathology and audiology. In addition, generalized programs in special education

may be planned for the purpose of meeting a student's individual intent and interest. The responsibility of the department, and of individual faculty members, is generally that of selecting students, evaluating their progress through the program, and regulating the use of learning resources.

The most important instructional resource is the departmental faculty. Faculty are selected on the basis of individual competence in applying knowledge from a wide variety of disciplines to the practice of special education, and on technical competence in special areas. Departmental organization is maintained not on the basis of definitive, disciplinary orientation, but to facilitate the integration of knowledge and skills from a variety of disciplines.

Selection of students is based on formal application which provides information on a number of variables. Selection is based on criteria approved by faculty and students in the department. No single variable, whether a strength or weakness, is a sole determinant for admission. Decisions to accept or reject are made after a full review and discussion of all available information.

Individual doctoral programs are designed to develop high levels of knowledge and skills related to instructional, interpersonal, evaluation, and research processes. First-year doctoral students are required to successfully complete an 18-hour core program which focuses on exceptional children across categories with emphasis on deviant development rather than the traditional categories of handicapped. Beyond the core and adherence to minimal college and University requirements, program content is flexible and individually planned. A supporting area is not required, but students may elect to pursue either a minor or supportive work in psychology, anthropology, sociology, and other departments.

Application for Admission. Students interested in pursuing a doctoral program in the Department of Special Education, Speech Pathology, and Audiology must submit to the Director of Admissions, University of Oregon (Emerald Hall), one copy of the *Application for Graduate Admission*, one official copy of all previous college or university transcripts, and a \$10.00 application fee. In addition, the applicant must also file with the Department of Special Education:

- (a) All remaining copies of the Application for Graduate Admission.
- (b) One official transcript of all college work taken prior to application for admission.
- (c) A brief description of background experience, including unrelated positions and those directly related to special education.
- (d) A minimum of three and a maximum of five letters of recommendation, including a letter from both the last academic adviser and the last, or current, employer.
- (e) The applicant's Miller Analogies Test and Graduate Record Examination (Verbal and Quantitative) scores.
- (f) A statement by the applicant relative to professional objectives (i.e., why the advanced degree is wanted; career plans upon completion of the doctorate).
- (g) Any material (e.g., master thesis, field project, published articles, etc.) that demonstrate the applicant's contribution to education and writing ability.
- (h) A statement concerning goals for personal growth and development goals.
- (i) Application for Admission to Doctoral Program, Department of Special Education, Speech Pathology, and Audiology.

Conditional Admission. To be considered for conditional admission, a prospective student's dossier must be completed and on

file in the Department of Special Education. It is the student's responsibility to ensure that the dossier is complete according to the following schedule:

(a) Summer Session Admission, February 1; Fall Term Admission, March 1; Winter Term Admission, October 1; Spring Term Admission, January 1. Mid-year admissions are limited to openings which occur when a student leaves the program and is no longer considered a doctoral candidate.

(b) Applications will be evaluated by a departmental doctoral-admissions committee as openings become available. An applicant may either receive Conditional Admission (Class 4), be denied admission, or be asked for further information. It is important to note that no doctoral-program applicant will receive Full Graduate Admission (Class 9) upon original application for study. Each student will receive departmental notification of committee action.

(c) The general factors considered by the departmental admissions committee, for conditional admission, include: (1) past academic record including both undergraduate and graduate course work (normally, the minimum expected is either an undergraduate GPA of 2.75 or a graduate GPA of 3.0, on a four-point scale; (2) prior professional experience; (3) professional and personal recommendations; (4) Miller Analogy Test score; (5) Graduate Record Examination (verbal and quantitative) scores; (6) the applicant's writing ability; (7) statement of the applicant's personal and professional goals.

Planning the Program. The relationship between the adviser and doctoral student is viewed as the primary relationship for planning, problem detection, and evaluation. Upon receiving conditional admission a student is assigned a temporary adviser who will assist the student with initial course-planning. The candidate is expected, during the first term on campus, to secure a permanent adviser who assists in making professional decisions. The program plan of an individual student is viewed as the responsibility of the student. The adviser, in relating to the student, commits departmental and University resources to the student's program. Aided by the permanent adviser, the student prepares a plan of study which includes a detailed description of an academic program and related activity. Preliminary thinking regarding dissertation intentions should also be articulated at this time, and the entire program supported by a detailed rationale including statements regarding the student's goals and intentions, reasons for pursuing them, and beliefs regarding relationships between such goals and the proposed academic program.

Doctoral students are required to include in their program at least one basic course in each of the following areas:

(a) Psychological theories and processes in education, selected from the following: Developmental Psychology (Psy 475); Advanced Educational Psychology (EPsy 529, 530, 531); Psychology of Exceptional Children (SpEd 462); Group and Individual Differences (Psy 465).

(b) Social foundations, selected from: Social Education (Ed 491); Sociology of Education (Soc 491); Race and Culture (Anth 414).

(c) Philosophical and historical foundations, selected from: Modern Philosophies of Education (EdF 445); History of American Education (EdF 441), History of American Thought and Culture (Hst 460, 461, 462).

All other courses taken for graduate credit since completion of the baccalaureate degree should be listed on the graduate program sheet in addition to those included in the four areas above.

It is expected that a student's program will incorporate 20 to 40

graduate credit hours in cognate areas from the natural sciences, humanities, or social sciences, or from a related professional school. The purpose of these courses is to provide a breadth of knowledge and understanding in areas related to the student's major and supporting studies. It is expected that the student will make full use of the resources of the University in the selection of these noneducation courses.

Credits from other approved institutions may be transferred to the student's doctoral program at the University of Oregon under the following conditions: (a) the courses must be relevant to the degree program as a whole; (b) the courses must be approved by the department; (c) the grades earned must be A or B or equivalent; (d) no more than two-thirds of the required credit in any primary or supporting area may be applied toward the degree requirements.

After a student has been admitted to the degree program, no work that is to be applied toward the doctoral program may be taken off-campus except with the approval of the candidate's adviser.

Advisory Committee. Upon completion of initial program-planning, the adviser and candidate nominate an advisory committee to be appointed by the department head; membership includes the student's adviser and two additional faculty members from within the College of Education.

Full Admission. The student's program to be filed in the departmental offices and in the College of Education Graduate Personnel Office must be signed as approved by the adviser (and supporting area adviser for those students electing to pursue a supporting area) and signed as reviewed by members of the advisory committee. At this time, the student requests a change in status from conditional to full admission. Upon review and approval of the program by the departmental admissions and awards committee, certifications that all requirements will be met, and upon the recommendations of the adviser, the student is notified of full admission by the department head. Changes in the program following official filing require that a memorandum outlining the changes be filed with the Graduate Personnel Office. The memorandum is to be signed by the student, the adviser, and the chairman of the admission and awards committee.

Comprehensive Examinations. Doctoral candidates in the Department of Special Education, Speech Pathology, and Audiology are required to complete a preliminary examination, a research and statistics examination, and a comprehensive examination.

The preliminary examination is an eight-hour written examination designed to provide candidates the opportunity to demonstrate their synthesis and integration of a core of knowledge basic to special education. It is usually scheduled for late spring. The examination is evaluated by five members of the faculty. If a student's performance is unsatisfactory, different forms of the examination may be retaken until performance is satisfactory.

The research and statistics examination include two broad take-home questions on research design and one proctored critique of a research article prepared by a research-competence examination committee of three faculty members (appointed for one year by department head). The examinations are read and graded independently by all committee members. Differences in grading will be resolved in full committee meeting according to predetermined guides for achieving consensus. Students who do not pass will be advised by the committee of their deficiencies and further preparation for re-examination. No penalty will be attached to repeat examinations.

The comprehensive examination is designed to provide the student an opportunity to demonstrate depth of knowledge and scholarship

in a personal area of emphasis within special education and in basic foundations. The examination is taken following completion of course work; it may be taken earlier if deemed appropriate by the student's program-advisory committee. The content and requirements for the examination are negotiated between the candidate and program advisory committee prior to meeting the requirements. The procedure agreed upon is submitted, prior to meeting the requirement, to the curriculum committee for review.

Residence at the University of Oregon. The three-term consecutive residence requirement can be met only subsequent to the development of the program for the doctorate, the approval of this program by the adviser, and the formal submission of the program to the Graduate Personnel Office. The term in which the program is submitted is counted. To satisfy this requirement, a student must be enrolled for at least 9 credit hours per term. It is desirable that the last year before receiving the degree be spent on campus. This enables the student to be on campus with ready access to the library, the adviser, and dissertation advisory committee during the writing of the dissertation.

Dissertation. Planning a dissertation should begin as early as possible and certainly no later than the filing of the program. An official prospectus must be approved by the adviser and the dissertation committee, which is, usually, an enlarged advisory committee including a minimum of four members with one member from outside of the College of Education faculty. Five committee members are recommended. The dissertation proposal must be approved by the enlarged advisory committee prior to the time the student begins to engage in dissertation research.

The dissertation for the Ph.D. program may carry from 18 to 30 credit hours. The dissertation for all doctoral programs must carry a minimum of 18 credit hours.

A majority of the members of the dissertation committee must sign that they have read and approved the final version of the thesis before it is submitted in three copies to the Graduate School. Subsequent to the approval of the thesis, a formal oral presentation of the results of the student's research will be scheduled. The presentation usually takes place during the term in which the degree is awarded. The presentation will be open to the public; it must be attended by the dissertation committee. The Graduate Personnel Office requires two copies of the dissertation abstract and the proposed time and date of the final presentation of the thesis four weeks prior to the scheduled time.

SPA 370. Phonetics. 3 credit 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.

SPA 371. Speech Science. 3 credit hours.

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

SPA 405. Reading and Conference. 1-3 credit hours.

Limited to seniors who have demonstrated superior ability.

SPA 407. Seminar.

Credit hours to be arranged. Topics to be announced.

General Special Education

Upper-Division Courses Carrying Graduate Credit

SpEd 407. Seminar: Direct Instruction, Reading. (G) 3 credit hours.

Engelmann's approach to teaching reading, including decoding and comprehension skills. Emphasis on the first-level program; outlines of levels two and three presented.

SpEd 407. Seminar: Programming. (G) 2 credit hours.

Preparation of all students to teach motor skills, concepts, operations, and complex behaviors.

SpEd 407. Seminar: Education of Exceptional Child. (G) 3 credit hours.

Interdisciplinary approach to meeting the needs of the handicapped. Presentations by representatives of various disciplines.

SpEd 407. Seminar: Direct Instruction, Language. (G) 3 credit hours.

Analysis of Engelmann's approach to teaching language to children who have not been taught basic language skills necessary for academic success in school. Also, advanced language skills (levels two and three) will be outlined and analyzed.

SpEd 407. Seminar: Direct Instruction, Arithmetic. (G) 3 credit hours.

Engelmann's approach to teaching arithmetic skills to children. Emphasis is on the first-level program; outlines of levels two and three will be presented.

SpEd 407. Seminar: Counseling-Communication for Teachers of Exceptional Children. (G) 3 credit hours.

Increase of interpersonal communication skills in order to facilitate one's role as a charge agent, and to increase one's knowledge of the role of effective communication and group processes.

SpEd 407. Seminar: Precision Teaching. (G) 3 credit hours.

Procedures are based on the traditional concept of measuring and recording behavior. Specific procedures are designed to enable the teacher to discover the abilities of each student, plan an individual program according to objective daily data, and assess the merits of the teaching program according to pupil progress.

SpEd 409. Practicum. (G)

Credit hours to be arranged.

SpEd 409. Practicum: Administration of Special Education. (G) 3 credit hours.

Assignment to one or more programs for practical experience in one or more aspects of administration-supervision. This may be working with a project, supervising student teachers, or working in a district.

SpEd 409. Practicum: Direct Instruction. (G) 4 credit hours.

Teaching one of the DISTAR programs: reading, language, or arithmetic; students required to teach at least three hours a day from these materials, and to know the format for presentation of materials, correction procedures, and procedures for teaching to criteria.

SpEd 409. Practicum: Education of Exceptional Child. (G) 1-6 credit hours.

Opportunity to do practicum work in individualized settings; community-oriented.

SpEd 462. Psychology of Exceptional Child. (G) 3 credit hours.

The characteristics and problems of exceptional children, including definitions, classification, psycho-educational characteristics and adult adjustment. Special emphasis given to current controversies and future trends.

SpEd 471. Administration of Special Education. (G) 3 credit hours.

Organizing, financing, housing, equipping, staffing, and supervising the special education program; desirable educational provisions for each type of handicapped child; legal provisions for special education.

SpEd 485. Behavior Management with Exceptional Children. (G) 4 credit hours.

Introduction to the use of behavioral principles in day-to-day classroom interactions to foster a child's motivation, positive attitudes, academic achievement, and social development. Study of the varieties of problem behaviors and ways to reduce them. Examination of methods of effective large-group management to facilitate each child's progress.

SpEd 486. Design of Instruction for the Handicapped. (G) 3 credit hours.

Design, development, and evaluation of instructional conditions for handicapped children. Emphasis is on behavioral definition of instructional objectives, analysis of learning tasks into instructional hierarchies, selection of appropriate media and materials, individualization of instruction, and objective-based evaluation of instructional outcomes.

Graduate Courses

SpEd 501. Research.

Credit hours to be arranged. No-grade course.

SpEd 503. Thesis.

Credit hours to be arranged. No-grade course.

SpEd 505. Reading and Conference.

Credit hours to be arranged.

SpEd 507. Seminar: Historical and Legislative Bases for Special Education. 3 credit hours.

Major historical and philosophical contributions to special education; national, state, and local legislative and financial basis of special education; the rationale for all types of special-education services; comparison of objectives of regular and special education; personal philosophies of special education.

SpEd 507. Seminar: Administration of Pupil Personnel. 3 credit hours.

Mutual development of a concept of pupil-personnel services based on interpersonal and group processes. Emphasis on development of services oriented to pupil needs rather than generalized professional roles. Consideration of various types of administrative structures for managing and applying supportive resources.

SpEd 507. Seminar: Learning Performance of the Developmentally Deviant. 3 credit hours.

Advanced review of current knowledge about the major categories of human learning, and survey of the research literature within categories of handicapped in each area of learning. Emphasis on integrating the research of various categories of handicapped children; identifying knowledge gaps; drawing implications for instructional programs.

SpEd 507. Seminar: Social-Cultural Aspects of Deviant Development. 3 credit hours.

Advanced study of relationship between genetics and environmental variables and the intellectual, linguistic, and personality development of handicapped children. Emphasis on relating current research to theoretical positions.

SpEd 507. Seminar: Neurological Aspects of the Developmentally Deviant. 3 credit hours.

Review of basic neuroanatomy, development of the central nervous systems, and the relationship between deviant neurological development and deviant behavior.

SpEd 507. Seminar: Scientific Writing. 2 credit hours.

Designed to introduce the major primary and secondary information sources; to assist the student in developing the ability to write concisely and in professional style; to provide the student with opportunity to learn the proper use of the APA publication manual.

SpEd 507. Seminar: Diagnosis of Developmentally Deviant. 3 credit hours.

Advanced study of several thousand pages of reading on theory, research, and practice related to the diagnosis of deviant development in these domains; psycho-motor, brain function, cognition, language, achievement, cognitive-style, attitudes, and self-concept. The diagnosis of deviance in each major domain—psycho-motor, cognitive, and affective—is treated from three different views: paramedical or etiological; normative, psychometric, or developmental; and behavioral or task analytic.

SpEd 507. Seminar: Problems in Administration of Special Education Grants. 3 credit hours.

A study of various funding agencies in UOSE with emphasis on BEH. (Private organizations will be discussed if time permits.) The writing of various grants and projects.

SpEd 507. Seminar: Education of the Developmentally Deviant. 3 credit hours.

Study of those modifications of educational materials, methods, and procedures called Special Education. General principles of pedagogical science are presented and Special-Education techniques treated as extensions, refinements, or modifications presumably derived from them on the basis of developmentally-deviant learner characteristics. The efficacy of Special Education's procedures receives special emphasis, as does the recognition, evaluation, and prognostication of trends in Special-Education practices.

SpEd 507. Seminar: Rehabilitation Aspects of Developmentally Deviant. 3 credit hours.

Extensive and comprehensive review of the rehabilitation field; historical origin and development, national, regional, and state programs, and current issues and trends; adult status of the handicapped given special emphasis; rehabilitation-related theory and research especially as it pertains to disability and work.

SpEd 509. Practicum: Administration of Special Education. 3-15 credit hours.

Assignment to one or more programs for practical experience in one or more aspects of administration and supervision. This may be working with a project, supervising student teachers, or working in a district.

SpEd 509. Practicum. 3-15 credit hours.**SpEd 509. Practicum: College Teaching. 3 credit hours.**

Examination of various methods of college-classroom organi-

zation and instruction. Evaluation of texts relevant to practices in college teaching. Presentation of minimum of three organized lectures, critiques by instructor, and other college staff.

SpEd 509. Practicum: Evaluation Instructional Materials. 3 credit hours.

Procedures and techniques for evaluating the instructional materials now available in special education.

Behavior Disorders

Upper-Division Courses Carrying Graduate Credit

SpEd 463. Introduction to Behavior Disorders. (G) 3 credit hours.

Overview of behavioral disorders observed in children. Primary emphasis is on school children who experience adjustment and behavior problems. Introduces behavioral, dynamic, sociological, and psychoeducational points of view and a functional use of theory in daily classroom practice.

SpEd 409. Practicum: Behavior Disorders. (G) 3 credit hours.

Introductory experience for beginning students in behavior disorders and others with interest in the area. Students survey, by personal visits and interviews, eleven service agencies, schools, or institutions for behaviorally disordered children. Students are required to write a proposal for a model treatment agency or school for disordered children in Oregon.

Graduate Courses

SpEd 507. Seminar: Education Interventions with Behaviorally Disordered Children. 3 credit hours.

Study and analysis of intervention models and procedures with behaviorally disordered children. Students will critically examine literature on efficacy of treatment approaches, teacher competence, and integration of behavioral management techniques into existing classroom situations. Consideration of questions of mental health facilitation in classroom situations.

SpEd 509. Practicum: Behavior Disorders. 3-15 credit hours.

Introductory practicum in behavior disorders, and a prerequisite to advanced practicum in behavior disorders. Emphasis on providing a framework of services and treatment programs for disturbed children. Experiences, through video tapes and direct observation, in pinpointing, monitoring, and evaluating services. Some initial contact with disturbed children under supervision.

Crippled and Other Health-Impaired

Upper-Division Courses Carrying Graduate Credit

SpEd 467. The Physically Handicapped. (G) 3 credit hours.

An introduction to the etiology, incidence, and prevalence of major physically handicapped conditions, and their psycho-

logical, emotional, social, and vocational implications. Basic terminology needed to read medical records presented. Psychosomatic and somatopsychological reactions discussed.

SpEd 407. Seminar: Education of Physically Handicapped. (G) 3 credit hours.

Study of the historical and philosophical bases for educating crippled and other health impaired children; funding agencies, multidisciplinary approach to diagnosis, prescription, and evaluation; facilities and services provided for physically disabled children; early education and language-development programs; prevocational and vocational planning, programs and opportunities; adaptive equipment and instructional materials; current trends in education of the physically handicapped; architectural barriers and adaptations.

SpEd 409. Practicum: Physically Handicapped. (G) 3-15 credit hours.

Introductory experience with the physically handicapped child. For the beginning student, or those without experience working with physically handicapped children. Opportunity for observation of the interaction with physically disabled children in the classroom, adaptive physical education, and swimming. Basic consideration of task analysis, behavior modification, and specifying instructional objectives in relation to the physically handicapped child.

Graduate Courses

SpEd 507. Seminar: Neurological Basis of Behavior. 3 credit hours.

Presentation of basic neuroanatomy and neurophysiology designed for education students and others without a strong science background. Ground work for further discussion of various types of neurological impairment as are seen in organic behavioral disorders and cerebral palsy. Emphasis on familiarization with terminology and building up a basis for communication with medical and paramedical coworkers.

SpEd 507. Seminar: Neurologically Impaired. 3 credit hours.

Study of the individual who has involvement of behavior on the basis of organic neurological impairment of both a mild degree and gross manifestations of neurological impairment. The basis for these types of impairments, associated neurological features and the educational, psychological, and social aspects of children and adults with these problems are discussed, as are various therapeutic approaches.

SpEd 509. Practicum: Physically Handicapped. 3-15 credit hours.

Independent projects involving various aspects of education, diagnosis, and prescription to be arranged with the instructor, or, for the advanced student, extensive planning and implementation of educational programs with physically handicapped children in the classroom.

Learning Disabilities

Upper-Division Courses Carrying Graduate Credit

SpEd 466. Introduction to Learning Disabilities. (G) 3 credit hours.

Introduces the history and current practices in the diagnosis

and remediation of learning disabilities. Presents major theories of etiology, commonly used assessment instruments, and remedial materials and methods. Introduces issues and controversies in the field. Major focus is on learning disabilities related to academic achievement, language, and perceptual disorders. Approximately equal emphasis is given to etiological, diagnostic-remedial, and task analytic views of learning problems.

SpEd 409. Practicum: Learning Disabilities. (G) 3-15 credit hours.

Diagnostic and prescriptive teaching with children who have learning disabilities. A laboratory course.

SpEd 465. Diagnosis Basic Skills. (G) 3 credit hours.

Comparison of various methods used in the diagnosis of reading problems. Development of a task analysis of the reading process from recent research data. Selection, administration, and analysis of criterion and norm-referenced tests. Utilization of criterion-referenced tests in simulated diagnostic sessions. Study of characteristics of reading methods used in classroom instruction. Adaptation of these methods for the learning disabled child.

SpEd 468. Remediation of Basic Skills. (G) 3 credit hours.

Focus is on methods of instruction for children with extreme learning problems including diagnostic and prescriptive teaching, multisensory systems, phonic systems, language development systems. Case study approach is used.

Graduate Courses

SpEd 509. Practicum: Learning Disabilities. 3-15 credit hours.

Consultation with teachers of children with learning disabilities. Extension and improvement of skills required for instruction of children with severe learning disabilities.

SpEd 562. Issues in Extreme Learning Disorders. 3 credit hours.

Current issues in the field of learning disorders: definitional problems surrounding the relationships among mental retardation, emotional disturbance, cultural factors and learning problems; the issue of whether learning disabilities are inherent within the child or within the environment; the extent to which learning disorders, primarily reading problems, can be prevented by specific training; the evaluation of new approaches and materials; the efficacy of predicting learning disorders; the role of the learning disabilities teacher; the accountability of remedial programs.

Mental Retardation

Upper-Division Courses Carrying Graduate Credit

SpEd 407. Seminar: Curriculum for the Trainable Mentally Retarded. (G) 3 credit hours.

Nine units include resources for teachers of the moderately and severely retarded: educationally relevant characteristics; curriculum development and planning; classroom methodology; sensory-motor training and physical education; self-help skills; language development, concept formation, and academic

skills; social perceptual training; vocational training; and creative arts, leisure and recreation. Observation and practicum experiences required.

SpEd 407. Seminar: Extended Curriculum. (G) 3 credit hours.

Development of skills and knowledges that enable the student to teach, coordinate, and integrate such skills as arts, crafts, music, recreation, physical education, prevocational, and work-study as part of the extended curriculum (nonacademic activities) for mentally retarded students. A "learn-by-doing" approach emphasized.

SpEd 409. Practicum: Teaching the Mentally Retarded. (G) 3-15 credit hours.

Attention focused upon extent to which the student is able to contribute to enrichment of the educational program for either EMR or TMR children through application of pupil data, teaching strategies, and teacher planning.

SpEd 464. Introduction to Mental Retardation. (G) 3 credit hours.

Provides students with an overview of problems, issues, and concepts related to the definition and measurement of mental retardation; the bio-medical and socio-cultural causes of mental retardation; the psychological and educational performance of the retarded; and the social-vocational adaptation of retarded individuals.

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

Provides students with a working knowledge of (1) learning characteristics of the mentally retarded and their implication in selection of various teaching methods; (2) examination of efficacy studies; (3) classroom management and instructional planning for the mentally retarded including resource and teaching units, daily planning, grouping and seatwork; (4) in-depth consideration of specific curriculum areas; (5) philosophic bases for special classes for the mentally retarded; (6) the role of teachers and administrators; (7) legal bases for educational programs for the mentally retarded; and (8) review of instructional materials.

Graduate Courses

SpEd 507. Seminar: Advanced Curriculum for the Retarded. 3 credit hours.

In-depth study of current curriculum theory, teaching methodology, instructional materials, and administrative grouping procedures. Critical issues in the teaching of the mentally retarded will be examined. Restricted to experienced teachers.

SpEd 509. Practicum: Teaching the Mentally Retarded. 3-15 credit hours.

Designed for experienced teachers or those who have completed SpEd 409 Practicum: Teaching the MR. Focuses on role of supervising teachers, general teacher-administrative functions, and evaluation of recent trends in teaching methodology and instructional materials.

SpEd 563. Diagnosis of Mental Retardation. 3 credit hours.

Reviews past and current trends in diagnosis and classification of mental retardation. Emphasized differential diagnosis as it relates to placement. Evaluates traditional as well as emerging diagnostic techniques. Student either observes or participates or both in clinical conference on case study.

Speech Pathology and Audiology

Upper-Division Courses Carrying Graduate Credit

SPA 409. Practicum: Clinical. (G) 2 credit hours.

Supervised clinical work with children and adults enrolled for counseling, testing, and treatment in the Speech and Hearing Clinic or other campus and community centers where work can be supervised. Attendance at weekly 409 staff meeting required.

SPA 472. Advanced Speech Science. (G) 3 credit hours.

Experimental methods in voice and phonetics; analysis and measurement of variables in the production of speech.

SPA 473. Visual Language and Lip Reading. (G) 3 credit hours.

Methods of teaching lip-reading to the deaf and hard of hearing; the nature of visual communication; teaching approaches at the pre-school, school, and adult levels; research studies concerning lip reading; and relationships of lip reading to other aspects of audiological rehabilitation and training.

SPA 474. Methods in Public School Speech Therapy. (G) 3 credit hours.

Study of public school speech therapy and speech improvement programs, their organization, administration, and techniques at various grade levels; surveying needs; referrals and selection of cases; integration of speech therapy with classroom work; interprofessional relationships; equipment and space planning; case reports and record keeping; cooperation with other agencies in the community.

SPA 481. Functional Speech Disorders. (G) 3 credit hours.

The nature of articulatory disorders, stuttering, and speech defects associated with emotional disturbances.

SPA 482. Organic Speech and Language Disorders. (G) 3 credit hours.

Overview of language difficulties related to cerebral palsy, oro-facial abnormalities, laryngeal pathologies, mental retardation and CVA's.

SPA 483. Speech Therapy Procedures. (G) 3 credit hours.

Methods and procedures basic to the correction of the various types of speech and language disorders; individual and group techniques; methods of motivating revision of deviant speech behavior.

SPA 487. Fundamentals of Audiology. (G) 3 credit hours.

Basic neurology and anatomy of the ear; psychophysics of hearing; causes, types, and symptomatology of hearing impairments.

SPA 488. Audiological Assessment. (G) 3 credit hours.

Basic pure tone, air and bone-conduction audiometry; interpretation of audiograms; and introduction to speech audiometry.

SPA 489. Audiological Rehabilitation. (G) 3 credit hours.

Rehabilitation of hearing impairments; use of amplification, auditory training; psychology of deafness.

Graduate Courses

SPA 501. Research.

Credit hours to be arranged. No-grade course.

SPA 503. Thesis.

Credit hours to be arranged. No-grade course.

SPA 505. Reading and Conference.

Credit hours to be arranged.

SPA 507. Seminar.

Credit hours to be arranged.

SPA 509. Practicum: Clinical. 2 credit hours.

Supervised clinical work with children and adults enrolled for counseling, testing, and treatment in the Speech and Hearing Clinic or other campus and community centers where work can be supervised. Attendance at weekly 509 staff meetings required.

SPA 570. Psychology of Speech. 3 credit hours.

Study of speech and language in relationship to other aspects of individual behavior; contributions from various disciplines for the understanding of speech behavior.

SPA 571. Auditory Disorders. 3 credit hours.

Advanced study of the etiology, symptomatology, audiometric findings and rehabilitation of hearing loss caused by peripheral, central, and functional impairments; differential diagnosis of auditory disorders in children.

SPA 572. Disorders of Articulation. 3 credit hours.

Advanced study of the nature of articulation and articulatory problems in children and adults including delayed speech development; evaluation of techniques in testing; evaluation of materials and procedures used in therapy; study of current research findings; demonstration with clinical cases.

SPA 573. Speech and Language Development. 3 credit hours.

Emergence and development of normal speech and language in the individual; acquisition of phonetic and grammatical elements; tests of psycholinguistic abilities; factors which facilitate and those which retard speech and language development; research methods.

SPA 574. Adult Aphasia. 3 credit hours.

The nature of aphasic disturbance; diagnosis and treatment of the impairment of motor and auditory speech as a result of cerebrovascular accident; language assessment in aphasic cases; family counseling; methods of therapy; case demonstrations and studies.

SPA 575. Stuttering. 3 credit hours.

The etiology, symptomatology, diagnosis, and treatment of stuttering behavior.

SPA 576. Voice Disorders. 3 credit hours.

Functional and organic disorders of the voice; examination techniques available to the speech pathologist; rehabilitation of laryngectomized patients; corrections of problems in pitch, quality, and intensity.

SPA 577. Cleft-Palate Speech. 3 credit hours.

Congenital cleft palate and cleft lip; implications for speech therapy; related oro-facial abnormalities.

SPA 578. Diagnostic Procedures in Speech Pathology. 3 credit hours.

Rationale and use of the major instruments, procedures, and materials used in conducting diagnostic work in cases of speech disorders; organizing diagnostic data and writing the clinical report.



College of Health, Physical Education, and Recreation

Dean, Lynn S. Rodney, Ph.D., Professor of Recreation and Park Management (administration). B.A., 1936, M.A., 1938, Washington State; Ph.D., Michigan, 1955; at Oregon since 1955.

Betty F. McCue, Ph.D., Associate Dean; Professor of Physical Education (history and philosophy). B.S., Pittsburgh, 1945; M.S., MacMurray, 1948; Ph.D., Iowa, 1952; at Oregon since 1968.

William P. Rhoda, D.Ed., Associate Dean; Professor of Physical Education (administration). B.S., Pennsylvania State, 1939; M.S., 1947, D.Ed., Oregon, 1951; at Oregon since 1948.

THE College of Health, Physical Education, and Recreation is responsible for three programs: the service courses in health education and physical education which meet the University's graduation requirements; intramural sports for both men and women; and professional study, both undergraduate and graduate, in dance, health education, physical education, and recreation and park management.

Undergraduate major programs are offered in the fields of health education, physical education, dance, and recreation and park management. Graduates of the school hold positions as: high-school teachers of physical education and health education; athletic coaches; directors of high-school athletics; supervisors of health and physical education; community recreation and playground directors; leaders in YMCA, YWCA, and other youth-organization work; directors of restricted and corrective physical education; workers in the field of physical therapy; college and university teachers and research workers in child growth, health education, physical education, and dance.

Dance

Faculty

Department Head, M. Frances Dougherty, Ph.D., Professor of Dance (philosophy, aesthetics, history). B.A., 1935, M.A., 1940, University of Northern Colorado; Ph.D., New York University, 1959; at Oregon since 1959.

Janet W. Descutner, M.A., Assistant Professor of Dance (modern, notation, composition). B.A., 1963, M.A., 1965, Ohio State University; at Oregon since 1971.

Linda S. Hearn, M.A., Assistant Professor of Dance (folk, ballroom). B.S., 1962, M.A., 1965, Texas Woman's University; at Oregon since 1965.

Bruno V. Madrid, M.Mus., Senior Instructor of Dance (accompaniment, composition). B.Mus., Santo Tomas, 1955; M.Mus., Oregon, 1963; at Oregon since 1965.

Terrie C. Reeves, M.A., Assistant Professor of Dance (modern, jazz, production). B.A., Colorado College, 1966; M.A., Oregon, 1969; at Oregon since 1969.

Petrus van Muyden, Certified as Pedagogue and Balletmaster by the Government of the Netherlands (equivalent of the M.A.) (ballet, history); at Oregon since 1971.

CURRICULA in dance leading to the Bachelor of Arts or Bachelor of Science degrees provide theoretical and technical preparation in ballet, folk, and modern dance forms. Through course offerings within the Department of Dance and selected curricula in related fields of study, specialization may be directed toward performance, choreography, teaching, therapy, recreation, notation, or ethnology.

A program of dance concentration may be elected by students whose major is in another field. This program includes the study of dance as an art form, a social form, and a theater form. Requirements are met by the election of a minimum of 12 credit hours of professional dance theory courses, 10 credit hours in dance laboratories, and two 9-credit hour sequences in related disciplines.

Entering freshmen students who want to declare dance as their major field of study must meet the University entrance requirements and should have a basic knowledge in music as well as experience in either ballet, folk, or modern dance techniques or all three. In addition, two-year college transfers must have a 2.5 cumulative GPA, should have met the University's English Composition and Health Education requirements, and have completed a majority of the University's group requirements. Any deficiencies in Fundamentals of Rhythm, Movement Notation, and movement techniques must be removed either by proficiency examination or by completion of the specific courses listed below. A student majoring in dance may graduate from the University of Oregon with a Bachelor of Science or Bachelor of Arts degree.

An Interdisciplinary Master-Degree Program is available to graduate students wishing to obtain an advanced degree (Master of Science or Master of Arts) in dance and related arts. For specific information on the Interdisciplinary program, see the Graduate School section of this catalog.

Requirements for the Bachelor Degree. Candidates for the bachelor degree with a major in dance must satisfy all general requirements of the University, elect appropriate courses in related areas, and complete the professional requirements of the Department of Dance. Departmental requirements are 67 credit hours in lower-division courses, and 51 credit hours in upper-division courses, as follows: Introduction to the Dance (D 251) 2 credit hours; Fundamentals of Rhythm (D 252) 2 credit hours; Movement Notation (D 253) 3 credit hours; Intermediate Movement Notation (D 254) 3 credit hours; Dance Laboratory (D 192, D 292) 12 credit hours; Foreign Language or Science, 24 credit hours; Personal Health (HE 250) 3 credit hours; courses in art, drama, literature, music, philosophy, or anthropology, 18 credit hours.

Elementary Dance Composition (D 351) 3 credit hours; Advanced Dance Composition (D 352) 3 credit hours; Dance Accompaniment (D 353) 3 credit hours; Dance Laboratory (D 392) 6 credit hours; Practicum in Dance Demonstration, Choreography, or

Notation, 9 credit hours; Dance Production (D 451) 3 credit hours; Dance History to 1000 A.D. (D 452) 3 credit hours; Dance History 1000-1900 A.D. (D 453) 3 credit hours; History of the Dance since 1900 A.D. (D 454) 3 credit hours; Dance Apprenticeship (D 492) 6 credit hours; courses in anthropology, philosophy, religion, theater, or art, 9 credit hours.

D 192. Dance Laboratory. 2 credit hours any term.

For professional students. Techniques in folk, ballet, and modern dance.

D 251. Introduction to the Dance. 2 credit hours fall.

An overview of professional and educational aspects of dance, the function of dance in society, and the significance of dance as an art form in contemporary culture.

D 252. Fundamentals of Rhythm. 2 credit hours fall.

Rhythm as a basic factor for movement. Rhythmic devices used in the dance notation and rhythmic analysis.

D 253. Movement Notation. 3 credit hours winter.

A study of the process of recording movement graphically; the conversion of the effort and shape of motion into symbols from which original movement patterns can be reconstructed. Prerequisite: D 252, or consent of instructor.

D 254. Intermediate Movement Notation. 3 credit hours spring.

Theory and application of intermediate principles of Labanotation. Prerequisite: D 252.

D 292. Dance Laboratory. 2 credit hours any term.

For professional students. Movement theory in folk, ballet, and modern dance. Prerequisite: D 192 or equivalent.

D 351. Elementary Dance Composition. 3 credit hours fall.

Analysis of the dance medium, and the relationship of the aspects of time, space, and force to that medium. Principles of form basic to dance composition. Prerequisite: D 252.

D 352. Advanced Dance Composition. 3 credit hours spring.

Compositional forms and styles in dance. Preclassic and modern dance forms. Prerequisite: D 351.

D 353. Dance Accompaniment. 3 credit hours winter.

Function of accompaniment for dance skills and composition. Types of accompaniment—instrumental, electronic, percussion, voice. Prerequisite: D 351, or D 352.

D 354, 355, 356. Theoretical Foundations of Modern Dance. 3 credit hours each term.

A comparative study of modern dance to include analysis of theoretical framework, stylistic emphasis, and aesthetic significance of that style in technique and composed works. Prerequisite: D 292-392, or consent of instructor.

D 392. Dance Laboratory. 2 credit hours any term.

For professional students. Elements of performance for folk ballet, or modern dance. Prerequisite: D 192 or D 292, or consent of instructor.

D 403. Thesis.

Credit hours to be arranged.

D 405. Reading and Conference.

Credit hours to be arranged.

D 406. Special Problems.

Credit hours to be arranged.

D 407. Seminar.

Credit hours to be arranged.

D 408. Workshop.

Credit hours to be arranged.

D 451. Dance Programs and Production. 3 credit hours fall, with a 1-credit hour laboratory winter or spring.

Production problems of staging, lighting, and costuming for the dance; dance demonstration and concert. Laboratory consists of a minimum of thirty class hours of practical application winter or spring terms.

D 492. Dance Apprenticeship. 2 credit hours any term.

For professional students. Directed activities related to the teaching of dance; selection of materials, class organization and management; student teaching. Prerequisite: minimum of two courses or their equivalent in the area of apprenticeship.

Upper-Division Courses Carrying Graduate Credit

D 409. Practicum. (G)

Credit hours to be arranged:

D 452. Dance History to 1000 A.D. (G) 3 credit hours fall.

Historical survey of the dance and its relationships to other arts through the early Middle Ages. Prerequisite: cultural anthropology, 3 credit hours, or fine arts, 3 credit hours.

D 453. Dance History 1000-1900 A.D. (G) 3 credit hours winter.

Social and theater dance forms of Western cultures from the period of the Crusades through the Golden Age of the ballet.

D 454. History of the Dance since 1900. (G) 3 credit hours spring.

Influences of leading dance artists; dance in education; dance in psychotherapy; new directions in concert and theater forms; emphasis on the dance in the United States.

Graduate Courses

D 501. Research.

Credit hours to be arranged. No-grade course.

D 503. Thesis.

Credit hours to be arranged. No-grade course.

D 505. Reading and Conference.

Credit hours to be arranged.

D 506. Special Problems.

Credit hours to be arranged. Study of selected problems in the field of the dance. Consent of the Dean is required.

D 507. Seminar.

Credit hours to be arranged.

D 508. Workshop.

Credit hours to be arranged.

D 509. Practicum.

Credit hours to be arranged.

D 593. Aesthetic Bases for Dance in Art and Education. 3 credit hours.

Dance as an art form; function of the dance in the changing social milieu.

Service Courses in Dance

CPE (co-ed physical education) classes offered by the Department of Dance may serve to meet the University's five-term physical education requirement for graduation. The CPE service classes in dance are instructional in nature with emphasis on the theoretical and practical techniques of the various forms of dance. The lower-division courses are generally beginning or elementary instruction and the upper-division courses are the intermediate and advanced levels of instruction. A student may elect to satisfy all five terms of the University requirement through enrollment in the various CPE dance classes.

Lower Division CPE Dance Courses: Modern Dance, Ballet, Jazz, Movement for Actors, Ballroom Dance, Folk Dances of Central Europe, Folk Dances of Scandinavia, Folk Dances of the Balkans, Folk Dances of the Near East, Folk Dances of North and South America.

Upper Division CPE Dance Courses: Modern Dance, Ballet, Jazz, Ballroom Dance, Folk Dance, Square Dance.



Health Education

Faculty

Department Head, Warren E. Smith, Ed.D., Professor of Health Education (school health, safety). B.S., Oregon 1941; M.A., Michigan, 1947; Ed.D., Stanford, 1957; at Oregon since 1963.

Lorraine G. Davis, Ph.D., Visiting Assistant Professor of Health Education (statistics, curriculum). B.S., 1965, M.S., 1967, Wisconsin-Lacrosse; Ph.D., Oregon, 1972; at Oregon since 1972.

Emil D. Furrer, M.D., Professor Emeritus of Health Education, B.A., 1926, M.D., 1929, Oregon; at Oregon since 1947.

Franklin B. Haar, Ph.D., Professor Emeritus of Health Education (public health administration). B.P.E., Springfield, 1928; M.A., 1933, Ph.D., 1946, Pittsburgh; at Oregon since 1949.

Michael C. Hosokawa, D.Ed., Associate Professor of Health Education (community health, research). B.A., Northern Colorado, 1962; M.Ed., Oregon State, 1963; D.Ed., Oregon, 1969; at Oregon 1967-68, and since 1969.

Leonard D. Jacobson, M.D., Adjunct Associate Professor of Health Education (diseases, nutrition, drugs). B.A., 1937, M.D., 1941, Oregon; at Oregon since 1962.

Robert E. Kime, Ph.D., Professor of Health Education (sex education, consumer health). B.S., 1954, M.S., 1958, Wisconsin-LaCrosse; Ph.D., Ohio State, 1963; at Oregon since 1963.

Richard G. Schlaadt, Ed.D., Associate Professor of Health Education (school health instruction, drug education, student teaching). B.S., Lewis & Clark, 1957; M.S., Illinois, 1958; Ed.D., Oregon State, 1966; at Oregon since 1967.

Undergraduate Studies

A MAJOR program of undergraduate study is offered for students who wish to specialize in health education. Either a Bachelor of Science or a Bachelor of Arts degree is obtainable. Excellent vocational opportunities are available in schools and with public and voluntary health agencies for persons with professional training in health education. The curriculum provides a strong basis for graduate work in health education, public health, physical therapy, and the health sciences.

Health education students are expected to assimilate information and obtain competence in the social sciences, physical sciences, and communication. A graduate is often called on to put the knowledge gained into practice via explanation and practical experiences with people. Graduates of the school have held positions as elementary school health educators; high school teachers of health education, coordinators of health education, community health educators, health administrators at federal, state, and local levels, and sanitarians.

Entering freshmen with strong scientific backgrounds will have a particular advantage as they enroll in courses of depth in chemis-

try and biology. Students who attend community colleges prior to entering the Department of Health Education at the University of Oregon should take as many of the basic lower-division requirements as possible. These specific courses are indicated on the respective program explanations.

The professional options available with program requirements for each preparation appear below.

Basic Certificate in Health Education

(1) Requirements for the basic norm in health education, may be partially fulfilled with selections from the following lower-division courses, a total of 53-56 credit hours: English Composition (Wr 121, 323) 6 credit hours; Literature, any three courses (Eng 104, 105, 106; Eng 107, 108, 109; Eng 204, 205, 206) 9 credit hours; Physical Education (PE 180, 190) 5 credit hours; Biology, any three courses (Bi 101, 102, 103; Bi 222; Bi 272) 10-12 credit hours; Elementary Chemistry (Ch 101, 102, 103) 12 credit hours; Psychology (Psy 214, 215, 216) 9 credit hours; First Aid (HE 252) 3 credit hours; Sociology (Soc 201) 3 credit hours; Sociology or Anthropology, any two courses (Soc 210, 211, 212, 213, 214, 215, or Anth 207, 208, 209).

The following upper-division courses are required, a total of 71-76 credit hours: Group Communication (Rht 323) 3 credit hours; Introduction to Bacteriology (Bi 381, 382) 6 credit hours; Human Physiology (Bi 312, 313) 6 credit hours; Human Anatomy (Bi 391, 392) 6 credit hours; Safety Education (HE 359) 3 credit hours; Personal Health Problems (HE 361) 3 credit hours; Community Health Problems (HE 362) 3 credit hours; Communicable and Noncommunicable Diseases (HE 363) 3 credit hours; Introduction to Public Health (HE 364, 365) 6 credit hours; Social Health (HE 463) 3 credit hours; Health Instruction (HE 464) 3 credit hours; School Health Service (HE 465) 3 credit hours; Human Development (EPsy 321, 322, 323) 6 credit hours; Supervised Teaching (CI 416, 417) 10-15 credit hours; Seminar: Teaching Health Education (CI 407) 1 credit hour; Problems in Drug Education (HE 406) 3 credit hours; Problems in Nutrition in Health and Disease (HE 406) 3 credit hours; Problems in School and Community Mental Health (HE 406) 3 credit hours.

The University requires completion of 186 credit hours for graduation.

Standard Certificate in Health Education

(2) The standard norm in health education requires a demonstrated competence, or 12 credit hours designed to develop further teaching competence. These credits are in addition to those required for the basic norm; they must include one or more of the areas in the basic norm plus school-health organization and administration. Courses required while completing a five-year program for the standard norm include: Curriculum in Health (HE 506), Consumer Health Problems (HE 406), Problems in Nutrition in Health and Disease (HE 406), Problems in School and Community Mental Health (HE 406), Problems in Diseases (HE 506), Basic Issues in Health Education (HE 542), Advanced Health Education (HE 543), Administration of School Health (HE 552).

Community Health

(3) Requirements for the community-health option may be partially fulfilled with selections from the following lower-division courses, a minimum total of 41 credit hours: English Composition (Wr 121, 323) 6 credit hours; Physical Education (PE 180, 190) 5 credit hours; First Aid (HE 252) 3 credit hours; twelve courses of at least 3 credit hours each from each of three groups; (A) Arts and Letters: Speech is recommended as one of the courses in this group; a minimum of 9 credit hours; (B) Social Science: psychology, sociology, anthropology recommended; a minimum of 9 credit hours; (C) Science: Elementary or General Chemistry and General Biology are prerequisites to upper-division sciences; a minimum of 9 credit hours.

Also required is a total of 63-72 credit hours in the following upper-division courses: Bacteriology (Bi 381, 383) 6 credit hours; Human Physiology (Bi 312, 313) 6 credit hours; Human Anatomy (Bi 392) 3 credit hours; Safety Education (HE 359) 3 credit hours; Personal Health Problems (HE 361) 3 credit hours; Communicable and Noncommunicable Diseases (HE 363) 3 credit hours; Community Health Problems (HE 362) 3 credit hours; Introduction to Public Health (HE 364, 365) 6 credit hours; Social Health (HE 463) 3 credit hours; Health Instruction (HE 464) 3 credit hours; School Health Service (HE 465); 3 credit hours; Nutrition in Health and Disease (HE 406) 3 credit hours; School and Community Mental Health (HE 406) 3 credit hours; Problems in Drug Education (HE 406) 3 credit hours; Consumer Health (HE 406) 3 credit hours; Biological and Health-Related Aspects of Aging (HE 406) 3 credit hours; Community Health Field Experience (HE 409) 6-15 credit hours.

In addition, students should select upper-division courses from Biology, Chemistry, Community Service and Public Affairs, Sociology, Psychology, and Business Administration; these electives may be chosen according to individual interest.

School and Community Health

(4) A student may become qualified to teach either in the public schools or function as a community-health educator or both by meeting the requirements of both options. This is very feasible with proper planning.

Driver Education

(5) The safety-education and driver-education option for undergraduates and graduate-support areas is designed to prepare students for careers as safety and driver-education instructors for schools, communities, public and private agencies, and institutions. Emphasis is on the development of competence in organization, administration, and supervision for classroom and laboratory experience. The student may elect this option in consultation with the Department of Health Education and an academic adviser. Classes are offered in a structured sequence, with the following courses recommended to satisfy requirements, a total of 12-25 credit hours for the undergraduate option: Personal Health (HE 250, or HE 361) 3 credit hours; First Aid (HE 252) 3 credit hours; Safety Education (HE 359) 3 credit hours; Driver Education (HE 467) 4 credit hours; Psychophysical Testing in Driver Education (HE 468) 3 credit hours; Field Work or Supervised Student Teaching, 3-9 credit hours.

The graduate area of concentration includes the following courses, a total of 21-30 credit hours: Administration and Supervision of Safety Programs (HE 560) 3 credit hours; Psychology of Accident Prevention (HE 561) 3 credit hours; Administration and Supervision of Driver Education Programs (HE 562) 3 credit hours; Problems in Traffic Safety (HE 563) 3 credit hours;

Social Psychology (Psy 437G) 3 credit hours; Research (HE 501) 3-6 credit hours; Thesis (HE 503) 3-9 credit hours.

An additional number of appropriate electives are available in Education and Psychology and may be included in the option.

Dental Hygiene

Pre dental hygiene students may elect one of two options for study leading to the dental-hygiene program at the University of Oregon Dental School in Portland. A minimum of one year of college study is required before admission to the Dental School. During this one-year option, three terms of general biology, three terms of general or elementary chemistry, one term of composition, and two terms of psychology plus one term of sociology, or two terms of sociology plus one term of psychology must be taken. All pre dental hygiene students planning to transfer to the Dental School must take all courses for grade. A two-year option at the University of Oregon is also available to students wanting a Bachelor of Science degree in Dental Hygiene which is granted by the Dental School. During the two years of pre dental hygiene study, a student must complete all general University requirements for any degree.

Many pre dental hygiene students elect to undertake a program of study leading to a Bachelor of Science degree in Health Education at the University of Oregon in conjunction with dental hygiene which will broaden their career possibilities in education or community health. All pre dental hygiene advising is conducted by the Department of Health Education.

Medical Technology

(7) The University offers a four-year program in medical technology, leading to the bachelor degree. The program includes three years of work on the Eugene campus and one year at the Medical School in Portland. Minimum admission requirements to medical technology training at the Medical School are three years of college work including 24 credit hours of biology including a course in bacteriology or microbiology, 24 credit hours of chemistry including one full year of a general college chemistry course with lectures and laboratory, and one term of college mathematics; a course in physics is strongly recommended.

During the three years on the Eugene campus, the student must satisfy (1) all general University degree requirements for majors in professional schools that cannot be satisfied with work taken at the Medical School, and (2) the special science requirements for admission to the fourth-year program at the Medical School. The following recommended courses satisfy the science requirements: Mathematics (above Mth 95) 12 credit hours; Cell Biology (Bi 301, 302, 303) or General Biology (Bi 101, 102, 103) 12-15 credit hours; General Chemistry (Ch 104, 105, 106) 9 credit hours; Introductory Chemistry Laboratory (Ch 107) 2 credit hours; Introductory Analytical Chemistry I (Ch 108) 2 credit hours; Introductory Analytical Chemistry II (Ch 109) 2 credit hours; Organic Chemistry (Ch 331, 332, Ch 337, 338) 10 credit hours; Quantitative Analysis (Ch 324) 4 credit hours; Essentials of Physics (Ph 101, 102, 103) 9 credit hours; Introduction to Bacteriology (Bi 381, 382) 6 credit hours; upper-division biology, 3 credit hours.

The curriculum for the fourth-year program at the Medical School is as follows:

Fall Term (17 credit hours): Clinical Bacteriology (MT 410) 4 credit hours; Laboratory Orientation (MT 413) 2 credit hours; Clinical Biochemistry (MT 424) 5 credit hours; Principles of Hematology (MT 430) 5 credit hours; Radioisotope Techniques (MT 520) 1 credit hour.

Winter Term (16 credit hours): Clinical Bacteriology (MT 411) 6 credit hours; Clinical Biochemistry (MT 425) 6 credit hours; Special Hematology (MT 431) 3 credit hours; Radioisotope Techniques (MT 521) 1 credit hour.

Spring Term (17 credit hours): Urinalysis (MT 414) 4 credit hours; Historical Technique (MT 420) 2 credit hours; Immunohematology (MT 432) 3 credit hours; Applied Serology (MT 436) 4 credit hours; Clinical Parasitology (MT 437) 3 credit hours; Radioisotope Laboratory (MT 522) 1 credit hour.

Physical Therapy

In addition to the basic health-education requirements, a student seeking entrance to a school of physical therapy is required to take physics courses.

Graduate Studies

Graduate degrees available to advanced students through the Department of Health Education are the Master of Science, Master of Arts, Doctor of Education, and Doctor of Philosophy.

Although graduate students may follow similar programs of study, students, in cooperation with their advisory committees, will have their studies directed toward meeting individual needs and goals.

Admission requirements for degree programs in the Department of Health Education are the same as the general requirements for the college with the exception that two years of practical salaried work experience (other than student teaching, graduate assistantships, or similar supervised experiences) are mandatory before entering the doctoral program.

Service Courses

HE 150. Health Education. 1 credit hours any term.

Study of personal health problems which confront the college student; the basic scientific principles of healthful living. Meets the health education requirement for men and women.

HE 199. Special Studies: Personal Health and Human Sexuality. 3 credit hours.

Satisfies University health-education requirement.

HE 199. Special Studies: Consumer Health. 3 credit hours.

Satisfies University health-education requirement.

HE 199. Special Studies: Environmental Health. 3 credit hours.

Satisfies University health-education requirement.

HE 250. Personal Health. 3 credit hours any term.

Study of the personal health problems of university men and women, with emphasis on implications for family life. Mental health, communicable diseases, degenerative diseases, nutrition. Satisfies the University requirement in health education for men or women.

HE 251. Community Health. 3 credit hours any term.

Methods of handling health and sanitation problems in the community, with special reference to water supply, food and

milk sanitation, sewage disposal, insect and rodent control; state and county health departments.

HE 252. First Aid. 3 credit hours any term.

Immediate and temporary care for a wide variety of injuries or illnesses; control of bleeding, care of poisoning, and proper methods of transportation, splinting and bandaging. Successful completion of course leads to Red Cross standard, advanced, and instructor's certificates.

Professional Courses

HE 359. Safety Education. 3 credit hours winter, spring.

Analysis of accident cause and prevention; epidemiology; principles and instruction of accident loss reduction; problems and psychology of accident behavior and prevention.

HE 361. Personal Health Problems. 3 credit hours fall.

An in-depth study of personal health problems; current health topics; extensive reading and reporting in selected health areas.

HE 362. Community Health Problems. 3 credit hours spring

Exploration and examination of the agencies and programs involved in community health, basic community-health problems, the problems and issues involved, and how these problems can be solved.

HE 363. Communicable and Noncommunicable Diseases. 3 credit hours winter.

Nature, prevention, and control of common communicable and noncommunicable diseases.

HE 364, 365, 366. Introduction to Public Health. 3 credit hours each term.

Functions and organization of public health; vital statistics; consumer health problems, and functions of voluntary and governmental health organizations.

HE 405. Reading and Conference.

Credit hours to be arranged.

HE 409. Practicum.

Credit hours to be arranged.

Comprehensive Health Planning.

County Health Department.

HE 467. Driver Education. 4 credit hours spring.

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

Upper-Division Courses Carrying Graduate Credit

HE 406. Special Problems. (G) 3 credit hours any term.

Problems in Drug Education.

Health Related Aspects of Aging.

Consumer Health Problems.

Nutrition in Health and Disease.

Community Health Problems.

Problems in School and Community Mental Health.

HE 408. Workshop. (G)

Credit hours to be arranged.

Diseases and Environment.

Smoking and Disease.

School and Community Health.
Sex Education and Materials.
Environmental Health.
Drug Abuse.
Health Careers.
Mental Health.

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

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

HE 463. Social Health. (G) 3 credit hours winter, spring.

Physical, mental, emotional, and social phases of human relations as they are affected by male and female sexuality. Implications for sex education programs in schools and communities.

HE 464. Health Instruction. (G) 3 credit hours any term.

Content, procedures, methods, and organization for health instruction in junior and senior high schools. Utilization of community resources in health education.

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

Concentrated study of provisions for health services in both school and community settings; school health programs; administration and implementation of services examining the role of the schools and health agencies.

HE 466. Evaluation of School Health Education. (G) 3 credit hours.

An introduction to fundamental procedures in collection, summarization, presentation and basic analysis of health data. Test construction and techniques of evaluation are included.

HE 468. Psychophysical Testing Equipment in Driver Education. (G) 3 credit hours.

Instruction for driver-education teachers in the use of driver simulation, psychophysical testing, and multi-media equipment.

Graduate Courses

HE 501. Research.

Credit hours to be arranged. No-grade course.

HE 503. Thesis.

Credit hours to be arranged. No-grade course.

HE 505. Reading and Conference.

Credit hours to be arranged.

HE 506. Special Problems.

Credit hours to be arranged.
Curriculum Design in Health.
Recent Progress in Disease Control.
Research Methods in Health Education.
Research Design and Statistics I, II.

HE 507. Seminar. 3 credit hours any term.

Drugs.
Public Health Administration.
Advanced Research Design.
World Health.
Philosophical Foundations of Health Education.

HE 509. Practicum.

Credit hours, time, and place to be arranged.
Health Teaching, College-Level.
Comprehensive Health Planning.
County Health Department.

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

Current basic issues and problems in health education; economic and social forces affecting health education; implications for programs.

HE 543. Advanced Health Instruction. 3 credit hours.

Basic steps in planning programs for public and school-health education. Consideration of the organization of in-service programs, determination of priorities, and interpretation of roles of school-health coordinators.

HE 552. Administration of School-Health Education. 3 credit hours.

Analysis of organizational patterns, planning procedures, fiscal management, personnel management, public relations, and other administrative concerns.

HE 560. Administration and Supervision of Safety Programs. 3 credit hours.

The organization, development, and implementation of safety programs in schools, communities, and industries.

HE 561. Psychology and Accident Prevention. 3 credit hours.

Characteristics of problem drivers, teenage behavior, related to accidents and accident prevention, effective methods in safety education programs.

HE 562. Administration and Supervision of Driver-Education Programs. 3 credit hours.

Budgeting, selection and placement of teachers, curriculum development, public relations. Schlaadt.

HE 563. Problems in Traffic Safety. 3 credit hours.

Factors in the traffic safety problem; law enforcement, engineering problems, health and medical factors, use of alcohol and drugs by drivers, driver licensing.

Physical Education

Faculty

- Department Head, Vernon S. Sprague, Ph.D., Professor of Physical Education (professional preparation). B.S., Oregon, 1937; M.A., 1942, Ph.D., 1951, Michigan; at Oregon since 1946.
- Jack D. Adler, D.Ed., Associate Professor of Physical Education (motor learning). B.A., 1951, M.S., 1960, Washington; D.Ed., Oregon, 1967; at Oregon since 1966.
- Virginia A. Arvidson, M.A., Instructor in Physical Education (aquatics). B.A., 1962, M.A., 1969, Oregon; at Oregon since 1969.
- William Ballester, M.S., Assistant Professor of Physical Education (gymnastics). B.S., Southern Illinois, 1962; M.S., Roosevelt, 1966; at Oregon since 1971.
- Z. Diane Baxter, M.A., Senior Instructor in Physical Education (golf). B.S., Western Illinois, 1956; M.A., Colorado State, 1960; at Oregon since 1967.
- Jeanine Bennett, M.S., Instructor in Physical Education (bowling). B.A., 1963, M.S., 1968, Washington; at Oregon since 1972.
- John W. Borchardt, Ph.D., Associate Professor of Physical Education (intramurals). Director of Intramural Sports. B.S., LaCrosse Teachers, 1940; M.A., 1951, Ph.D., 1966, Iowa; at Oregon since 1948.
- William J. Bowerman, M.S., Professor of Physical Education; Assistant Athletic Director. B.S., 1933, M.S., 1951, Oregon; at Oregon since 1948.
- H. Harrison Clarke, Ed.D., Research Professor Emeritus of Physical Education (research). B.S., Springfield, 1925; M.S., 1931, Ed.D., 1940, Syracuse; at Oregon since 1953.
- William S. Dellinger, M.S., Assistant Professor of Physical Education; Track Coach (track coaching). M.S., 1956, M.S., 1961, Oregon; at Oregon since 1967.
- Richard M. Enright, B.S., Football Coach with the Rank of Associate Professor (football coaching). B.S., Southern California, 1957; at Oregon since 1970.
- Arthur A. Esslinger, Ph.D., Professor Emeritus of Physical Education (administration). B.S., 1931, M.S., 1932, Illinois; Ph.D., Iowa; at Oregon since 1953. College Dean, 1953-1972.
- Eugene Evonuk, Ph.D., Professor of Physical Education (exercise physiology). B.S., 1952, M.S., 1953, Oregon; Ph.D., Iowa, 1960; at Oregon since 1967.
- Ronald L. Finley, M.Ed., Assistant Professor of Physical Education; Wrestling Coach (wrestling coaching). B.S., 1964, M.Ed., 1967, Oregon State; at Oregon since 1970.
- Marilyn L. Fitch, M.P.E., Instructor in Physical Education (gymnastics). B.S., Massachusetts, 1964; M.P.E., Idaho State, 1968; at Oregon since 1969.
- L. Richard Geser, Ph.D., Associate Professor of Physical Education (research). B.S., 1951, M.S., Springfield, 1952; Ph.D., Oregon, 1965; at Oregon since 1967.
- Elizabeth G. Glover, M.S., Assistant Professor of Physical Education (aquatics). B.S., Tufts, 1959; M.S., Woman's College, North Carolina, 1963; at Oregon since 1964.
- Richard Harter, B.S., Basketball Coach with rank of Associate Professor (basketball coaching). B.S., Pennsylvania, 1953; at Oregon since 1971.
- Melvin A. Krause, M.S., Assistant Professor of Physical Education; Head Baseball Coach (baseball coaching). B.S., 1951, M.S., 1958, Oregon; at Oregon since 1970.
- Betty F. McCue, Ph.D., Associate Dean, Professor of Physical Education (history and philosophy). B.S., Pittsburgh, 1945; M.S., MacMurray, 1948; Ph.D., Iowa, 1952; at Oregon since 1968.
- Donald F. McGavern, M.S., Assistant Professor of Physical Education; Diving Coach (diving). B.A., Oklahoma Baptist, 1964; M.S., Oregon, 1966; at Oregon since 1967.
- Corlee Munson, Ph.D., Associate Professor of Physical Education (elementary education). B.A., Colorado State College, 1948; M.S., Washington, 1956; Ph.D., Iowa, 1966; at Oregon since 1959.
- Glenn L. Norris, M.S., Assistant Professor of Physical Education (elementary education). B.S., 1962, M.S., 1964, Oklahoma State; at Oregon since 1968.
- Lou Osternig, Ph.D., Visiting Assistant Professor of Physical Education (exceptional child). B.S., 1965, M.S., 1967, California State, Hayward; Ph.D., Oregon, 1971; at Oregon since 1971.
- Jessie L. Puckett, M.S., Professor of Physical Education (professional preparation). B.S., 1931, M.S., 1937, Oregon; at Oregon since 1952.
- Edward R. Reuter, Ph.D., Associate Professor of Physical Education (service program). B.S., Washington State, 1948; M.S., 1949, Ph.D., 1957, Illinois; at Oregon since 1958.
- William P. Rhoda, D.Ed., Associate Dean, Professor of Physical Education (administration). B.S., Pennsylvania State, 1939; M.S., 1947, D.Ed., 1951, Oregon; at Oregon since 1948.
- Karla S. Rice, M.A., Senior Instructor in Physical Education (recreational programs). B.S., Central Michigan, 1962; M.A., Michigan State, 1965; at Oregon since 1967.
- Peter O. Sigerseth, D.Ed., Ph.D., Professor Emeritus of Physical Education (anatomy). B.A., Minot State Teachers, 1928; M.A., North Dakota, 1936; D.Ed., Oregon, 1944; Ph.D., Iowa, 1955; at Oregon since 1941.
- Becky L. Sisley, M.S.P.E., Assistant Professor of Physical Education (women's athletics). B.A., Washington, 1961; M.S.P.E., North Carolina, 1964; at Oregon since 1965.
- Richard J. Smith, Ph.D., Associate Professor of Physical Education (professional preparation). B.S., 1949, M.Ed., 1953, Springfield; Ph.D., Oregon, 1968; at Oregon since 1962.
- Larry W. Standifer, B.A., Instructor in Physical Education; Athletic Trainer; Physical Therapist (athletic injuries). B.A., Willamette, 1955; at Oregon since 1968.
- Emory F. Summers, M.A., Assistant Professor of Physical Education (tennis). B.A., California, 1957; M.A., University of the Pacific, 1963; at Oregon since 1967.
- Donald P. Van Rossen, Ph.D., Associate Professor of Physical Education, Swimming Coach (sports psychology). B.S., 1953, M.Ed., 1954, Ph.D., 1968, Illinois; at Oregon since 1958.
- Paul R. Washke, Ph.D., Professor Emeritus of Physical Education, A.B., Western State Teachers, Michigan, 1927; A.M.,

Michigan, 1929; Ph.D., New York University; at Oregon since 1930.

Edna P. Wooten, Ph.D., Professor of Physical Educational (exceptional child). B.S., 1945, M.A., 1946, Ph.D., 1961, Ohio State; at Oregon since 1965.

Lois J. Youngen, Ph.D., Associate Professor of Physical Education (service program). B.S., Kent, 1955; M.A., Michigan State, 1957; Ph.D., Ohio State, 1971; at Oregon since 1960.

THE Department of Physical Education is responsible for service courses in physical education for men and women; intramural sports for men and women; professional study, both undergraduate and graduate in physical education.

Service Courses in Physical Education

These courses are normally taken to meet the five-term University requirement for graduation, although more than five courses may be taken and the credit applied toward the bachelor degree. Emphasis in all classes is on learning recreational skills while contributing to the physical, mental, and social development of the individual. Beginning classes are numbered at the 100-level; intermediate and advanced courses are numbered at the 300-level; either level may be used to satisfy the University requirement. Most classes meet two or three times per week for one credit hour. Students are normally limited to one Physical Education service class per term because of enrollment limitations; one additional class may be added during late registration.

One or more terms of the requirement may be waived on the basis of proficiency examinations. Students who have completed six months of active military service in the Armed Forces are exempt from three terms of the requirement. Medical waivers must be approved by the University Health Service. Petitions for waivers on the basis of age may be submitted to the Department of Physical Education.

Fees

Payment of regular University registration fees entitles every student to the use of gymnasium, pools, and showers, to the use of gymnasium and swimming suits and towels, and to laundry service, whether or not they are registered for physical-education courses. Students are urged to make full use of the gymnasium facilities for exercise and recreation.

Facilities

The University's buildings and playfields devoted to physical-education instruction and recreation occupy a 42-acre tract at the southeast corner of the campus. The Physical Education Building provides offices, classrooms, study halls, and research laboratories for the school and gymnasium facilities for men. The building is planned especially for professional preparation in physical education, as well as for the recreational needs of students. The men's swimming pool is adjacent to the Physical Education Building.

The women's gymnasium and the women's swimming pool are in Gerlinger Hall, west of the Physical Education Building across University Street. There are playing fields for women south and west of Gerlinger. A new women's gymnasium has just been completed southwest of Gerlinger Hall.

Adjoining the Physical Education Building to the south is McArthur Court, basketball pavilion and athletic center of the Associated Students. McArthur Court seats more than 10,000 spectators.

Playing fields located east and south of the Physical Education Building provide excellent facilities for outdoor class instruction and for intramural and intercollegiate sports. Hayward Stadium, Associated Students athletic field, has seats for 23,000 spectators. There are six standard concrete tennis courts north of Hayward Stadium, eight additional courts south of the Education Building, and nine covered courts east of Leighton Pool. Autzen Stadium, a 41,000-seat football stadium, was dedicated in the fall of 1967. It is located across the Willamette River from the main University campus.

All facilities are available to both men and women, frequently in co-educational classes and activities.

Intramural Sports and Women's Recreation Association

The department of Physical Education sponsors a comprehensive Intramural Sports Program for Men, Women's Recreation Association activities, Co-Recreational activities, and Open Recreation Sports programs. One of the primary purposes of these programs is to afford an opportunity for all students and faculty to participate in available competitive sports and recreational pursuits. The programs are designed to encourage sportsmanship and friendly relationships among the student of the University through athletic competition.

Intramural Sports for Men

The program provides formal competition in basketball, bowling, cross-country, golf, handball, swimming, softball, tennis, touch football, track, volleyball, weight-lifting, and wrestling.

Women's Recreation Association

The department in cooperation with the association provides a wide variety of sports participation opportunities to fit the recreation needs of all women. Included are intramurals, interest groups, and intercollegiate athletic competition for women. Student leadership for women athletes is furnished by the Women's Recreation Association.

Intramurals. The women's intramural program offers a formal structure for sports competition in badminton, basketball, flag football, inner-tube water polo, softball, and volleyball.

Interest Groups. These meet informally once a week to concentrate on a particular activity. Present groups include archery, fun and fitness, trampoline and amphibians (synchronized swimming).

Intercollegiate Athletic Competition for Women. This competitive program is for the student who is interested in competing with other collegiate teams in Oregon and the Northwest. Women's teams include: basketball, bowling, field hockey, golf, gymnastics, softball, swimming, tennis, track and field, volleyball.

Co-Recreational Activities

Sports activities are sponsored jointly by the Intramural Sports Program for Men and Women's Recreation Association.

Open Recreation Sports

All the facilities of the College of Health, Physical Education, and Recreation are available for open recreation when not scheduled for class use. This includes all field spaces, tennis courts, the Physical Education Building, Gerlinger Hall and Gerlinger Annex. Gymnasiums, courts, and equipment are available.

Undergraduate Studies

The basic undergraduate curriculum in physical education, leading to the Bachelor of Science degree, provides a strong program of professional work. During the freshman and sophomore years, the student obtains a sound foundation in the sciences basic to professional studies and the liberal arts. This is supplemented by a broad emphasis on physical education activities and introductory instruction in physical education theory. The upper-division program is devoted principally to professional studies.

Admission. Students eligible for admission to the University of Oregon may be admitted to professional courses in physical education on a pre-major basis. Prospective physical educators will be admitted to the major program after successful completion of the following requirements: 12 credit hours of professional activity laboratories; all prerequisites to professional physical education courses; a practicum experience; completion of at least one full term of work at the University of Oregon. Upon completion of the above, students will make application for admission to the major program, and these applications will be reviewed by the department. Decisions will be based on satisfactory progress in the program as evidenced by a quality academic record and demonstrated professional potential.

Program. The basic program is planned to satisfy the needs of the student planning either to teach physical education or to coach or to do both in the public schools. In addition, the program offers the students a number of options for supplementary work to qualify them for additional responsibilities in the school or the community. These options are explained fully below. Students may also select a minor in a field other than physical education, in which case they will complete an approved program in the second field including 21 credit hours of work beyond the introductory sequence in the field.

Physical-education majors may also select a program of studies which will prepare them to teach at any grade level, kindergarten through high school. This program includes professional activities and theory courses dealing with the instructional program at both the elementary and the secondary level.

Superior students who are interested in preparing for courses in the scientific and research aspect of physical education may arrange a program in which greater concentration in biology, physiology, chemistry, and mathematics is substituted for certain courses directly related to preparation for secondary or elementary school teaching.

The basic program requires the following lower-division courses, totaling 41 credit hours: General Biology, 12 credit hours; Elementary Chemistry, 12 credit hours; Introduction to Health and Physical Education (PE 131) 2 credit hours; First Aid (HE 252) 3 credit hours; Professional Activities, 12 credit hours.

The following upper-division courses, totaling 48 credit hours, are required: Human Anatomy (Bi 391, 392) 6 credit hours; Human Physiology (Bi 321, 322) 6 credit hours; Educational Domains of Physical Education (PE 341) 3 credit hours; Class Techniques in Physical Education (PE 342) 3 credit hours; Organization and Administration of Physical Education (PE 343) 3 credit hours; Physical Education for the Exceptional Student (PE 444) 3 credit hours; School Program (PE 445) 3 credit hours; Tests and Measurements in Physical Education (PE 446) 3 credit hours; Kinesiology (PE 472) 3 credit hours; Physiology of Exercise (PE 473) 3 credit hours; Professional Activities, 12 credit hours.

Secondary-School Teaching of Physical Education

For certification as a teacher of physical education in Oregon secondary schools, the Oregon Board of Education requires (1) the satisfaction of certain minimum standards of subject preparation and (2) the recommendation of the institution at which the student completes the subject preparation. The following program meets state standards and the requirements for recommendation by the University of Oregon. Also included are courses required for permanent certification after a fifth year of preparation:

Undergraduate work: Educational Domains of Physical Education (PE 341) 3 credit hours; Class Techniques in Physical Education (PE 342) 3 credit hours; Organization and Administration of Physical Education (PE 343) 3 credit hours; School Program (PE 445) 3 credit hours; First Aid (HE 252) 3 credit hours; Care and Prevention of Athletic Injuries (PE 361) 3 credit hours; Motor Skill Development (PE 423) 3 credit hours; Human Anatomy (Bi 391, 392) 6 credit hours; Human Physiology (Bi 321, 322) 6 credit hours.

Professional Activities (Men): Fundamentals of Body Movement and Games, Elementary Aquatics, Elementary Gymnastics, 6 credit hours; Individual Sports, Team Sports, 4 credit hours; Folk, Square, Social Dance, Volleyball, Training and Conditioning, 4 credit hours.

Professional Activities (Women): Aquatics, 2 credit hours; Badminton-Tennis, Gymnastics, Basketball, Track and Field, Volleyball, and Training and Conditioning, 8 credit hours; Contemporary Dance, 2 credit hours.

Fifth Year: Physical Education for the Exceptional Student (PE 444) 3 credit hours; Tests and Measurements in Physical Education (PE 446) 3 credit hours; Kinesiology (PE 472) 3 credit hours; Physiology of Exercise (PE 473) 3 credit hours; Seminar: Physical Education Teaching Strategies (PE 507) 6 credit hours.

Fifth-Year Certification Requirements. Students transferring from other institutions who wish to enroll in a fifth-year program leading to a standard certificate in health education or physical education must meet the University of Oregon requirements for the basic certificate in these fields before final acceptance in the program.

Social Science Option

Majors in physical education who wish to place an emphasis on the social sciences in their studies in the liberal arts may substitute selected social science courses for a portion of the science requirement in the basic undergraduate curriculum. This option provides latitude in selecting general education courses and a second teaching field.

Dance Option

The dance option combines professional work in physical education with special instruction in dance and related arts. There are excellent vocational opportunities in the fields of physical education and recreation for persons whose professional training includes this instruction.

Pre-Physical-Therapy Option

Standard schools of physical therapy, which are usually operated in conjunction with medical schools, have admission requirements with strong emphasis on foundation work in the basic sciences. The sciences included in the basic curriculum in physical education, together with the understanding of body movement and exercise activities gained in professional physical-education courses, pro-

vide excellent preparation for physical-therapy training. Students interested in this work may arrange a special program, within the general framework of the physical-education major, but excluding courses especially designed to meet the requirement for a teacher's certificate.

Athletic Trainer Option

Physical education majors who intend to become certified teachers may also arrange their program to fit the approved academic curriculum of the National Athletic Trainer Association. Certified physical education teachers who have completed the athletic training curriculum are eligible to become certified athletic trainers by successfully passing the National Athletic Trainers Association certification examination after graduation.

Aquatic Option

This option is intended to prepare students for careers as aquatic specialists in schools, communities, public and private agencies, and institutions. Emphasis is on the development of competence in administration and in conduct of instructional and recreational aquatic programs, in facility design, and in operation and maintenance. The student may elect this option in consultation with the aquatic supervisor and with an adviser. Classes are offered in a structured sequence, with requirements, totaling 26-32 credit hours, listed below.

Lower Division: Life Saving in Aquatic Programs (PE 291) 2 credit hours; Swimming and Water Safety Instruction (PE 292) 2 credit hours; Aquatic Sports (MPE 132 or WPE 132) 1 credit hour; Skin Diving and Scuba Diving (MPE 133 or WPE 133) 1 credit hour; First Aid (HE 252) 3 credit hours; Community Health (HE 251) 3 credit hours.

Upper Division: Administration of Aquatic Programs (PE 344) 3 credit hours; Advanced Aquatics (PE 494, PE 495) 2 credit hours; Recreation Leadership (RM 352) 3 credit hours; Organization and Administration of Recreation (RM 370) 3 credit hours; Supervised Field Study (RM 415), or Student Teaching; Senior High School (Ed 417) (maximum, 9 credit hours).

Minor for Elementary Teachers

Majors in elementary education may, in consultation with advisers in the School of Health, Physical Education, and Recreation, arrange a minor in physical education, including selected theory and activities courses in addition to work required for elementary-teacher certification.

Graduate Studies

The Graduate School of the University of Oregon offers the Master of Science, Master of Arts, Doctor of Education, and Doctor of Philosophy degrees in Physical Education through the College of Health, Physical Education and Recreation.

Programs of Study for Master Degrees

Admission. A student seeking admission to the master-degree program should write to the Graduate Coordinator requesting an application. The Department of Physical Education requires a cumulative undergraduate grade point average of at least 2.75. A

student who has a GPA of less than 2.75 may be admitted upon review of credentials if the student submits evidence of scoring at least 35 on the Miller Analogies Test or at least 470 on the verbal portion of the Graduate Record Examination.

Prerequisites. A master candidate must have had at least the following undergraduate work: two terms or one semester in physiology; two terms or one semester in anatomy; and one term each in kinesiology, physiology of exercise, organization and administration of physical education, and methods in physical education. In addition, students should have had at least one term of work in the following undergraduate courses: principles and history of physical education, adapted physical education, the physical education curriculum, and tests and measurements in physical education. These latter courses may carry graduate credit.

A candidate is expected to be reasonably skilled in a wide variety of physical education activities and to know the specific methods for teaching them. These skills and methods may have been acquired formally through activity courses or informally through playing and teaching experience. Deficiencies may be removed either by taking an appropriate course or by independent work followed by passing a proficiency examination.

Program of Study. The master degree requires 45 credit hours of graduate work and may be taken with or without thesis. If the nonthesis program is pursued, three 9-credit hour concentrations of courses must be completed within the offerings of the College and elected from the following areas (two of the areas must be in the Department of Physical Education): (1) Administration, (2) Advanced Physiology of Exercise, (3) Applied Research, (4) Child Growth and Development, (5) History, Principles and Philosophy, (6) Motor Learning, (7) Physical Education for Exceptional Students, (8) Scientific Bases, (9) Dance, (10) Health Education, (11) Recreation Management, (12) Safety and Driver Education.

All master-degree candidates are required to take Statistical Methods (PE 540) and Critique and Interpretation of Research (PE 544), except those persons working on a master degree with emphasis in teaching. This latter group may substitute advanced Tests and Measurements (PE 507) for the statistics course, and are permitted to work on a sequence of physical education teaching strategies courses within their total program.

A minimum of thirty credit hours must be earned on the Eugene campus with a maximum of fifteen credit hours of A, B or Pass-graded work accepted as transfer credit from other accredited colleges or universities.

All work for the master degree must be completed within a period of seven years. This includes work for which credit is transferred from another institution, thesis, and the final examination.

Final Examination. Final examinations are required for both the thesis and nonthesis candidates. The final exam for the thesis candidate is oral in nature and attended by at least three faculty members. The final exam for nonthesis candidates is written and includes the broad range of course work taken in the master program.

Programs of Study for Doctoral Degree

Admission. To be admissible, a candidate must pass, with a qualifying score, either the Miller Analogies Test or the Aptitude Phase of the Graduate Record Examination. The qualifying score on the MAT is 50, or a 525 verbal score on the Aptitude Phase of the GRE.

Doctoral degrees are granted primarily for attainments and proven ability. The Graduate School requires at least three years of full-time study beyond the bachelor degree, of which at least one academic year (three consecutive terms) must be spent in continuous residence on the Eugene campus. Graduate credits from other approved institutions may be transferred to the doctoral program if they are relevant to the doctoral program as a whole and if they are of A or B grade.

Every candidate must complete a dissertation. A master-degree thesis or a study in lieu of thesis must be completed prior to taking the comprehensive examination. A minimum of 40 credits of research courses for the master thesis and dissertation is usually expected.

Several options are available to meet the language requirement for the Ph.D. degree. Languages allowed include German, French, Russian, Japanese, and Spanish. Twelve credit hours of computer-science courses or nine credit hours of advanced statistical design may be substituted for the language requirement.

Area of Specialization. Each doctoral candidate must have an area of specialization with a minimum of 30 credit hours, as well as a supporting area. The areas of specialization offered by the department include: (1) Administration of Physical Education, (2) Physical Education for Exceptional Student, (3) Growth and Development Bases of Physical Education, (4) Anatomical and Kinesiological Bases of Physical Education, (5) Physiological Bases of Physical Education, (6) Motor Learning in Physical Education, (7) Physical Education in the Social Sciences. As a supporting area, the doctoral candidate may select any of the above areas in addition to Health Education, Recreation and Park Management, or an area outside the College of Health, Physical Education and Recreation.

Qualifying and Final Examinations. Prior to or during the first two terms of study, a written doctoral-qualifying examination is taken. A student is expected to exhibit knowledge and communication skills equivalent to a high quality master-degree graduate.

The written doctoral comprehensive examination is taken after completion of substantially all the doctoral course work, master thesis, and language requirements. Passing of this examination advances the student to full doctoral degree candidacy. Included in this examination are comprehensive essay questions on the areas of concentration, the supporting area, and research.

A final oral examination is taken after completion of the dissertation and of all degree requirements. This examination must be taken no later than three calendar years after advancement to candidacy.

Service Courses

CPE 101-199. Service Courses for Men and Women. 1 credit hour, each section.

MPE 101-199. Service Courses for Men. 1 credit hour, each section.

WPE 101-199. Service Courses for Women. 1 credit hour, each section.

Adapted PE (corrective), Archery, Badminton, Basketball, Bicycle-Touring, Body-Building, Bowling, Canoeing, Conditioning, Exercise and Posture, Fencing, Flag Football, Golf, Gymnastics, Handball, Horseback-Riding, Jogging, Judo, Karate, Mountaineering, Mountain-Hiking, Personal Defense,

Racquet Ball, Rock-Climbing, Rowing, Rugby, Sailing, Skiing, Soccer, Softball, Squash, Swimming, Table Tennis, Tennis, Touch Football, Trampoline, Training for Sky-Diving, Track and Field, Tumbling and Trampoline, Wrestling, Yoga.

CPE 301-399. Service Courses for Men and Women. 1 credit hour, each section.

MPE 301-399. Service Courses for Men. 1 credit hour, each section.

WPE 301-399. Service Courses for Women. 1 credit hour, each section.

Archery, Badminton, Basketball, Body-Building, Bowling, Competitive Swimming, Fencing, Field Hockey, Golf, Gymnastics, Handball, Horseback-Riding, Horseback-Jumping, Skiing, Skin Diving, Ski Touring, Softball, Springboard Diving, Swimming, Synchronized Swimming, Tennis, Trampoline, Volleyball, Wrestling.

CPE Dance classes may also be taken to satisfy the physical education requirement.

Professional Courses

PE 131. Introduction to Health and Physical Education. 2 credit hours fall or spring.

Professional orientation; basic philosophy and objectives; professional opportunities and qualifications. Puckett.

PE 194. Professional Activities (Women). 1-2 credit hours each term, three terms.

For professional students. Instruction and practice. Fall: basic fundamentals, sports. Winter: tumbling, aquatics. Spring: tennis.

PE 195. Professional Activities (Men). 2 credit hours each term, three terms.

For professional students. Methods, teaching techniques, and basic skills. Fall: fundamentals of body movement and games. Winter: elementary aquatics. Spring: track and field.

PE 291. Lifesaving in Aquatic Programs. 2 credit hours.

Basic skills of lifesaving in aquatic programs; leads to American Red Cross Certification in senior lifesaving. Open to men and women students who pass qualifying tests in swimming.

PE 292. Swimming and Water-Safety Instruction. 2 credit hours.

Analysis, methods of instruction, and evaluation at all age levels; leads to American Red Cross certification in water-safety instruction. Open to men and women students who pass qualifying tests in swimming and lifesaving.

PE 294. Professional Activities (Women). 1-2 credit hours each term, three terms.

For professional students. Instruction and practice. Fall: gymnastics, tennis, badminton. Winter: gymnastics II, dance. Spring: track and field, golf, archery, court sports.

PE 295. Professional Activities (Men). 2 credit hours each term, three terms.

For professional students. Methods, teaching techniques, and basic skills. Fall: badminton, tennis. Winter: elementary gymnastics. Spring: golf, archery, court sports.

PE 321. Games and Sports Skills. 2 credit hours.

Values, purposes, and uses of creative games, games of low organization, basic skills and lead-up activities for children. General information, methods of instruction, and time allotments appropriate for elementary-school program.

PE 322. Posture and Developmental Activities. 2 credit hours.

Values, purposes and uses of mechanics of movement, posture screening, and developmental activities for children. General information, methods of instruction; and time allotments appropriate for elementary-school program.

PE 323. Rhythms and Dance. 2 credit hours.

Dance program for children in the elementary school. Basic movement activities including locomotor and nonlocomotor movement, original dance patterns. General information, methods of instruction, and time allotments appropriate for elementary-school program.

PE 341. Educational Domains of Physical Education. 3 credit hours fall.

Study, analysis, and interpretation of the psychomotor, cognitive, and effective behavioral objectives of physical education through their historical and scientific source. Current application and significance in student learning and development. Sprague.

PE 342. Class Techniques in Physical Education. 3 credit hours winter.

Psychological and physiological bases for the life-time development of motor skills. Analysis, practice, and evaluation of teaching procedures and techniques appropriate to this goal. Adler and Puckett.

PE 343. Organization and Administration of Physical Education. 3 credit hours spring.

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

PE 344. Administration of Aquatic Programs. 3 credit hours spring.

Organization and administration of aquatic programs. Open to men and women majors, and to others with consent of instructor. Van Rossen.

PE 361. Care and Prevention of Injuries. 3 credit hours winter.

Bandaging, massage, and other specialized mechanical aids for the prevention of injuries. Analysis of types of injuries; emergency procedures. Prerequisite: Bi 391, 392. Standifer.

PE 394. Professional Activities (Women). 1-2 credit hours each term, three terms.

For professional students. Advanced practice and teaching techniques. Fall: field sports, apprentice and folk and square dancing or volleyball, conditioning and training. Winter: apprentice, basketball. Spring: softball, track, folk and square dancing or volleyball, conditioning and training.

PE 395. Professional Activities (Men). 2 credit hours each term, three terms.

For professional students. Methods, teaching techniques and basic skills. Fall: volleyball, conditioning and training or folk and square dancing. Winter: wrestling. Spring: volleyball, conditioning and training or folk and square dancing.

PE 403. Thesis.

Credit hours to be arranged.

PE 405. Reading and Conference.

Credit hours to be arranged. Reading and assignments in connection with other courses for extra credit. Honors readings. Consent of instructor, and approval of the department head required.

PE 406. Special Problems.

Credit hours to be arranged. Approval of the department head is required.

PE 409. Practicum.

Credit hours to be arranged.

PE 445. The School Program. 3 credit hours winter.

Construction of physical-education and intramural programs, on the basis of accepted principles, criteria, functions, and evaluations; emphasis on integration with the total school program. Prerequisite: PE 341, PE 342. Sprague.

PE 465. Football-Coaching. 3 credit hours winter.

Systems of play, strategy, responsibilities of the coach, public relations, conference organization. Enright and staff.

PE 466. Basketball-Coaching. 2 credit hours winter.

Coaching methods and problems. Fundamentals of team play; comparison of systems; strategy; training, conditioning; selection of men for positions. Harter and staff.

PE 467. Baseball-Coaching. 2 credit hours spring.

Review of fundamentals, with emphasis on methods of instruction; problems and duties of the baseball coach, including baseball strategy, baseball psychology, training, conditioning. Krause.

PE 468. Track-Coaching. 2 credit hours spring.

Principles of training; development of performance for each track event; selection of men for different events; conducting meets. Laboratory experience in PE 195. Dellinger.

PE 472. Kinesiology. 3 credit hours spring.

Action of muscles involved in fundamental movements, calisthenics, gymnastics, and athletics. Prerequisite: Bi 391, 392.

PE 473. Physiology of Exercise. 3 credit hours spring.

Physiological effects of muscular exercise, physical conditioning, and training; significance of these effects for health and for performance in activity programs. Prerequisite: Bi 312, 313. Evonuk.

PE 494. Professional Activities (Women). 1-2 credit hours each term, three terms.

For professional students. Advanced practice and teaching techniques. Fall: personal defense. Winter: contemporary dance, advanced gymnastics. Spring: personal defense or advanced aquatics.

PE 495. Professional Activities (Men). 2 credit hours each term, three terms.

For professional students. Methods, teaching techniques, and basic skills. Fall: basketball and soccer. Winter: advanced gymnastics. Spring: advanced aquatics.

Upper-Division Courses Carrying Graduate Credit

PE 408. Workshop. (g)

Credit hours to be arranged.

PE 421, 422, 423. Scientific Foundations of Physical Education. (g) 4 credit hours each term.

Anatomical, physiological, growth and motor skill development, factors basic to allied health fields, physical education, recreation, dance, and athletic programs.

PE 424. Administration of Elementary-School Physical Education. (G) 3 credit hours.

Modern trends in elementary-school physical education; duties of the physical-education specialist; organization and administration at the primary, intermediate, and upper-grade levels; evaluative procedures and techniques; the role of elementary physical education in outdoor education. Prerequisite: PE 321, PE 322, PE 323, or consent of instructor. Munson.

PE 444. Physical Education for the Exceptional Student. (G) 3 credit hours.

Survey of common deviations of posture and feet, functional disturbances, and crippling conditions found in school children. Consideration of the extent and limitations of the teacher's responsibility for their amelioration or improvement. Prerequisite: Bi 391, 392; PE 472. Wooten.

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

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

Graduate Courses

PE 501. Research.

Credit hours to be arranged. No-grade course.

PE 503. Thesis.

Credit hours to be arranged. No-grade course.

PE 505. Reading and Conference.

Credit hours to be arranged. Approval of the department head is required.

PE 506. Special Problems.

Credit hours to be arranged. Study of selected problems in the field of physical education. Approval of the department head is required.

PE 507. Seminar.

Credit hours to be arranged.

Anatomical, Physiological, and Kinesiological Bases of Physical Education.

Body Growth and Development through Physical Education.
Administration of Physical Education Service Programs.
Current Literature in Physical Education.

PE 508. Workshop.

Credit hours to be arranged.

PE 509. Practicum.

Credit hours to be arranged.

PE 511. Philosophy of Physical Education. 3 credit hours spring.

The philosophic foundations underlying the principles and practices of physical education as a part of the total educational program in the Western world.

PE 515, 516. History of Physical Education. 3 credit hours each term.

A history of physical education from its earliest development up to the eighteenth century, followed by consideration of the various physical education systems in Europe and their transfer and adaptation to the United States. McCue.

PE 518. Current Movements in Physical Education. 3 credit 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 physical-education programs.

PE 520. Developmental Program in Physical Education. 3 credit hours.

Programs to meet individual physical-fitness and social needs through physical-education activities; case-study techniques, developmental programs, development of social traits; administrative problems. Prerequisite: PE 444, PE 446. Reuter.

PE 521. Body Mechanics and Correctives. 3 credit hours.

Common postural deviations; causes; basic principles underlying the prescription of exercise for those conditions; organization of the corrective physical education program in schools and colleges. Wooten.

PE 522. Orthopedics and Therapeutics. 3 credit hours.

Survey of orthopedic conditions and procedures associated with the role of the physical educator in providing adequate programs in schools and colleges. Prerequisite: Bi 391, 392. Wooten.

PE 523. Individual and Adapted Physical Education. 3 credit hours.

The metabolic, neurologic, cardiac and respiratory conditions, and planning physical education programs for student with these conditions. Wooten.

PE 527. Techniques of Relaxation. 3 credit hours.

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

PE 531. Muscle Testing and Therapeutic Exercise. 3 credit hours.

Fundamentals of muscle re-education. Methods of determining specific muscle weaknesses; restoration of normal function following injury. Wooten.

PE 532. Heat Therapy and Massage. 3 credit hours.

The theory and technique of the use of heat and cold as first-aid measures and as adjuncts to rehabilitative procedures practiced by physical educators. The commonly used techniques of massage, their physiological and mechanical effect, and their application by physical educators. Wooten.

PE 533. Motor Skill Learning. 3 credit hours.

Review of the psychology of learning as it pertains to motor skills; research bearing upon the teaching and learning of gross motor skills. Prerequisite: PE 517, PE 540, at least one year's teaching experience. Adler.

PE 537. Sports Psychology. 3 credit hours.

Analysis of psychological factors and principles affecting physical performance, behavior, and emotions in sports; differences between individuals and between teams.

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

Elementary statistics applied to research, including central tendency, variability, normal probability curve, reliability and correlation. Prerequisite: graduate standing.

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

Advanced statistics applied to research, including variance analysis, co-variance analysis, partial and multiple correlation, regression equations, chi-square, special correlational techniques, and nonparametric processes. Prerequisite: PE 540.

PE 544. Critique and Interpretation of Research. 3 credit hours.

Examination of completed research in health, physical education, and recreation; exercises in applying research results to practical situations. Geser.

PE 545. Experimental Design in Physical-Education Research. 4 credit hours.

Techniques and procedures of laboratory research in physical education; construction of tests; technical laboratory tests and their use; design of experiments; application of advanced quantitative methods. Prerequisite: PE 446, PE 540, 541.

PE 550, 551, 552. Administration of Physical Education. 3 credit hours each term.

Administration of physical education in colleges and universities and city systems. Historical background, administrative theory; organizational purposes, organizational climate, leadership behavior, human relations, processes of administration.

PE 554. Administration of Athletics. 3 credit hours.

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

PE 555. Intramural Organization and Management. 3 credit hours.

Nature and purposes of intramural programs; history of their development. Departmental organization. Relationship of the program to physical-education instruction. Administrative problems. Borchardt.

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

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

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

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

PE 558. Curriculum Construction in Physical Education. 3 credit hours.

Basic elements and procedures of curriculum construction in physical education; special application at the city, county, and state levels. For supervisors and administrators of physical-education programs. Sprague.

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

Historical development of professional preparation in the field of physical education; curriculum, evaluation, and recruitment

in the development and conduct of teacher-education programs in physical education. Sprague.

PE 561, 562, 563. Physical Growth and Development. 3 credit hours each term.

Emphasis upon changes that occur in the neuro-muscular skeletal systems, classifications for activity and contact sports during growth development and different maturation periods. Not a sequence. Fall: embryonic, fetal, neonatal, and early childhood. Winter: late childhood and adolescence. Spring: adulthood and aging periods. Prerequisite: Bi 391, 392. Wooten.

PE 564. Morphologic and Physiologic Appraisalment of School Children. 3 credit hours.

Critical examination of various proposals for evaluating individual status and progress; emphasis on measurement proposals suitable for use in school health and physical-education programs. Prerequisite: PE 446 or HE 465.

PE 566. Research Methodology for Child Growth. 3 credit hours.

Anthropometric instruments, landmarks, and methods; reliability of measurements and ratings; application of biometric procedures.

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

Study of the acquisition of motor skills during the first decade of life. Prerequisite: PE 446 or Psy 460, or consent of instructor. Adler.

PE 572, 573. Gross Anatomy. 3 credit hours each term.

Principles and facts in the fields of myology, osteology, arthrology, neurology, and angiology of importance to college teachers of physical education who give instruction in anatomy, kinesiology, and physiology of exercise. Application to body movement and performance. Prerequisite: Bi 391, 392, or equivalent.

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

Physiological principles and facts upon which conditioning for competition in athletic activities and physical performances should be based. Direct application to training for competition in major sports and individual activities. Prerequisite: Bi 321, 322; PE 473.

PE 575. Mechanical Analysis of Motor Skills. 3 credit hours.

Analysis of various physical-education activities to determine their relation to laws of physics concerning motion, force, inertia, levers, etc. Prerequisite: Bi 391, 392, PE 472, or equivalent.

PE 576, 577, 578. Advanced Physiology of Exercise. 3 credit hours each term.

The physical and chemical mechanisms underlying the major functions of the body. Evonuk.

Recreation and Park Management

Faculty

Department Head, Phyllis M. Ford, Re.D., Professor of Recreation and Park Management (outdoor recreation, outdoor education). B.S., Massachusetts, 1949; M.A., Arizona, 1955; Re.D., Indiana University, 1962; at Oregon since 1961.

Mary Dale Blanton, M.S., Instructor of Recreation and Park Management (recreation programs, recreation for special groups). B.S., Georgia, 1963; M.S., Oregon, 1970; at Oregon since 1970.

Effie L. Fairchild, M.S., Assistant Professor of Recreation and Park Management (leadership, recreation programs). B.S., Florida Southern College, 1955; M.S., Springfield, 1958; at Oregon since 1970.

William Havens, M.L.A., Associate Professor of Recreation and Park Management (park planning). B.L.A., Berkeley, 1962; M.L.A., Harvard, 1965; at Oregon since 1967.

Larry L. Neal, D.Ed., Associate Professor of Recreation and Park Management (Director, Project Extend-Ed, administration, supervision). B.S., 1961, M.S., 1962, D.Ed., 1969, Oregon; at Oregon since 1969.

Robert P. Raus, Re.D., Assistant Professor of Recreation and Park Management (Department Graduate Coordinator, youth agencies, outdoor recreation). B.A., Baylor, 1957; M.S., 1964, Re.D., 1967, Indiana; at Oregon since 1969.

Charles M. Reich, Ph.D., Associate Professor of Recreation and Park Management (research, park planning). B.S., Lock Haven State, 1952; M.S., 1958, Ph.D., 1965, Pennsylvania State; at Oregon since 1967.

Lynn S. Rodney, Ph.D., Professor of Recreation and Park Management (administration). B.A., 1936, M.A., 1938, Washington State; Ph.D., Michigan, 1955; at Oregon since 1955.

Special Staff

Ernest F. Drapela, M.S., Visiting Lecturer in Recreation and Park Management (municipal recreation). B.S., Oregon College of Education, 1958; B.S., 1960, M.S., 1969, Oregon; at Oregon since 1970.

James Gary Walker, M.S., Visiting Lecturer in Recreation and Park Management (municipal recreation). B.S., 1961, M.S., 1966, Oregon; at Oregon 1967-68, and since 1969.

THE Department of Recreation and Park Management has as its major function in the University the preparation of students for broad and inclusive professional careers in leadership, supervision, administration, and planning of recreation, park, and leisure services.

Institute of Recreation Research and Service. The Institute of Recreation Research and Service, maintained by the College of Health, Physical Education, and Recreation in conjunction with its instructional program in recreation and park management, assists communities in the development of recreation, park, and youth-service resources, conducts research in various aspects of recreation development, and provides information on research findings and nation-wide community experience as a basis for the solution of recreation problems. Through the Center of Leisure Studies, the institute sponsors conferences and workshops, and welcomes requests for information and assistance from public and private recreation agencies.

Project Extend-Ed. Project Extend-Ed is an interdisciplinary master-degree program, the purpose of which is to prepare professionals to work with the handicapped in programs related to recreation, physical education, and special education. The program is sponsored and administered by the Department of Recreation and Park Management and offered in conjunction with the Department of Physical Education and the College of Education.

Undergraduate Studies

The Department of Recreation and Park Management offers major curricula leading to the Bachelor of Science or Bachelor of Arts degree and provides a foundation for graduate work leading to the Master of Science, Master of Arts, and doctoral degrees. The department places a strong emphasis on courses that provide a broad liberal education as well as courses that have a professional focus.

Graduates in recreation and park management become recreation directors in community centers, playgrounds, the armed forces, industries, hospitals, churches, and institutions; directors, supervisors and administrators in youth-serving agencies; superintendents and managers of park departments and districts; administrators of recreation in cities, counties, and state agencies; directors of camping and outdoor recreation programs and centers; resource planners; and supervisors in colleges and universities.

Admission. Any University of Oregon student in good standing may become a major in the Department of Recreation and Park Management. Students transferring from other departments or other institutions follow the procedures of the Office of Student Services. Each prospective major must see the department chairman for preliminary advising, and for assignment to an academic adviser in an area of interest. Prior to acceptance into the program, each student must complete a department enrollment form and present an up-to-date transcript.

Entering freshmen may prepare for this curriculum by involving themselves in extra-curricular activities while in high school; developing skills in leisure activities such as arts and crafts, music, dance, dramatics, cultural events, sports and games, and outdoor recreation; and serving as volunteers or leaders with municipal recreation departments or youth agencies.

Students attending two-year colleges before entering the University of Oregon and the Department of Recreation and Park Man-

agement should plan to take courses in sociology, psychology, English composition, and science. A first-aid course is also recommended.

Requirements for the Bachelor Degree. The major professional program in recreation and park management is organized primarily on an upper-division basis. During the freshman and sophomore years, a student intending to major in this area of service pursues a pre-professional program of study at the lower-division level. Some professional courses are open to freshmen and sophomores. Freshmen and sophomore students are advised to complete as many as possible of the courses in the College of Liberal Arts that are required and recommended by the department and to engage in school and community activities.

To qualify for a bachelor degree, Recreation and Park Management majors must complete the following work which meets both University and Department requirements. A total of 186 credit hours, including: two terms of English Composition (Wr 121, 323) (unless waived by the English Department); five terms of Physical Education; one term of Health Education; three terms of Science; three terms of Arts and Letters; three terms of Sociology; one term of Psychology; a minimum of 36 hours in either science or social science for a B.S. degree, or 36 hours of language and literature for a B.A. degree. A minimum of 45 credit hours in the Department of Recreation and Park Management including: History and Theory of Recreation (RPM 251) 3 credit hours; Recreation Leadership (RPM 352) 3 credit hours; Organization and Administration of Recreation (RPM 370) 3 credit hours; Recreation Programs (RPM 396) 3 credit hours; Evaluation of Recreation Services (RPM 407) 3 credit hours; Areas and Facilities (RPM 496) 3 credit hours; Supervised Field Study in Area of Emphasis (RPM 415) 12 credit hours. (Note: A maximum of 3 hours credit in Practicum (RPM 409) may count toward the 45 hours of RPM courses required for graduation. Additional hours of Practicum may be taken beyond the 45 required hours.)

All RPM courses except Practicum and Supervised Field Study must be taken for a grade.

Courses Recommended for All Recreation and Park Management Majors. Certain courses offered in other departments are of particular value to persons preparing for careers in recreation and park management. Competence in materials offered in these courses will serve to help the student acquire a professional position and will enhance his chances for success. Courses recommended for all Recreation and Park Management majors are: First Aid (or a current ARC first aid instructor's certificate) (HE 252); Business and Professional Correspondence (Wr 224) or Scientific and Technical Writing (Wr 227); Fundamentals of Speech (Rht 121); Strategies of Intervention (CSPA 342); Audio-Visual Aids (CI 435); one or more courses selected from: State and Local Governments (PS 203); Public Administration Concepts (CSPA 321, 322); Administration of State and Local Governments (CSPA 465, 466); Metropolitan Government (CSPA 463).

Areas of Emphasis. Each undergraduate student majoring in Recreation and Park Management selects an area of emphasis providing specialization in a specific branch of his or her chosen profession. The area may be selected from: (1) Recreation and Park Administration; (2) Community Youth Services; (3) Outdoor Education/Recreation; (4) Recreation for Special Groups; (5) Program Supervision; (6) Park and Resource Planning.

In addition to the core courses, each major fulfills an area of emphasis by completing required and elective courses within one of the areas of emphasis. All students work closely with their advisers in developing their academic programs.

A list of recommended electives for each area of emphasis is available in the Department of Recreation and Park Management office.

Recreation and Park Administration. This emphasis is designed to provide preparation for careers in the management of public and private recreation departments. Stress is placed on management techniques, managerial problems, recreation organizations, operation, and service. In addition to the professional core, the following courses are required: Organization and Administration of Recreation (RPM 371) 3 credit hours; Budget and Finance (RPM 407) 3 credit hours; Public Relations (RPM 407) 3 credit hours; Recreation and Natural Resources (RPM 492) 3 credit hours; Operation and Design of Recreation and Park Facilities (RPM 497) 3 credit hours; two courses in government (approved by the adviser) 6 credit hours.

Community Youth Services. This emphasis provides preparation for students wanting to work with youth at the direct leadership level and at the administrative levels. Emphasis is placed on work with normal youth, focusing on group work, camping, and volunteer administration. Through the careful selection of selected electives, a focus may be gained relative to the program and organization for youth with special needs. Career positions might include: community youth specialists, youth agency staff, institutional youth program coordination. Required courses, 3 credit hours each: Youth Agencies I (RPM 394); Youth Agencies II (RPM 395); Camp Administration (RPM 391); Camp Counseling (RPM 290); Practicum in Youth Agencies (RPM 409); Recreation Leadership II (RPM 353).

Outdoor Education/Recreation. This area of emphasis is designed to prepare students for careers related to environmental interpretation, outdoor education, and outdoor programming. Typical career positions include interpretive naturalists, outdoor-education coordinators, elementary-school teachers, and outdoor-recreation supervisors.

Students in this area should plan to earn a B.S. degree with 36 credit hours in science. Students in the outdoor-education emphasis may complete the requirements for elementary certification in the College of Education. For students combining this area with a certificate in Elementary Education, the supervised field study requirement is lowered to 3 credit hours. Required Courses: Camp Counseling (RPM 290) 3 credit hours; Camp Administration (RPM 391) 3 credit hours; Seminar: Environmental Interpretation I & II (RPM 407) 6 credit hours; Practicum in Recreation (RPM 409) 3 credit hours; Principles of Outdoor Education (RPM 490) 3 credit hours; Recreation and Natural Resources (RPM 492) 3 credit hours; plus College of Education required courses if certification is wanted.

Recreation for Special Groups. This area of emphasis provides both conceptual and practical training for those interested in working with special groups (e.g., ill, handicapped, disabled, institutionalized, aged). Leadership, supervisory, and administrative positions are available for graduates. Required Courses, 3 credit hours each: Recreation Leadership II (RPM 353); Youth Agencies I (RPM 394); Seminar: Survey of Therapeutic Recreation (RPM 407); Seminar: Recreation for Special Groups (RPM 461); Seminar: Community Organization for Special Groups (RPM 407); Practicum: Recreation for Special Groups (RPM 409).

Program Supervision. The option in program supervision is designed to prepare for programming and skill competence in such areas as: music, drama, dance, aquatics, arts and crafts, lifetime sports, and general community recreation programming. Emphasis is placed on the development of a high degree of competence

in at least two areas of specialization. The student elects 24-35 credit hours in courses in a field of specialization, as approved by an adviser. Required Courses, 3 credit hours each: Camp Counseling, or approved elective (RPM 290); Recreation Leadership II (RPM 353); Public Relations (RPM 407); Practicum: Recreation Programs (RPM 409); Foundations of Leisure Programs (CSPA 382).

Park Management and Resource Planning. This emphasis focuses on the competence needed for acquisition, planning, development, and maintenance of park and recreation areas and facilities. Typical career positions include park superintendent, maintenance and planning director, resort or special facility manager, coordinators of federal grant programs, and the like. Required Courses, 3 credit hours each: Budget and Finance (RPM 407); Surveys and Studies (RPM 407); Recreation and Natural Resources (RPM 492); Operation and Design of Recreation and Park Facilities (RPM 497); Park Planning Systems (RPM 498); Survey of Urban Planning (UP 350); 9 credit hours in Landscape Architecture approved courses.

Graduate Studies

The Graduate School of the University of Oregon offers the Master of Science, Master of Arts, Doctor of Education, and Doctor of Philosophy degrees in Recreation and Park Management through the College of Health, Physical Education, and Recreation. For information on University-wide regulations governing graduate admission, refer to the Graduate School section of this catalog.

The master programs are designed to prepare graduates for administrative, supervisory, planning, and teaching positions in public, private, and other types of recreation and park agencies. Both thesis and nonthesis options are available.

The doctoral programs endeavor to give concentrated study for top-level executive positions, planning, research, and teaching at the advanced undergraduate and graduate levels.

Admission. A student seeking admission to the graduate program should write to the department Graduate Coordinator requesting an application and three recommendation forms.

A committee of graduate faculty members of the Department of Recreation and Park Management will review all applications for graduate study. Graduation from an accredited college or university and a total cumulative undergraduate grade point average of 2.75 or higher is required. Students with a GPA lower than 2.75 may perhaps qualify if they score satisfactorily on the Miller's Analogies Test or the verbal portion of the Graduate Record Examination. Each student is asked to write either of these tests as part of the application procedures. Three letters of recommendation from people who know of the applicant's academic or professional work experience are also required.

A doctoral applicant should have a master degree with a grade point average of 3.5 and at least two year's professional full-time work experience in either recreation or park management or both. The minimum acceptable scores for a doctoral candidate are 50 on the MAT or 500 on the verbal portion of the GRE.

Approximately six weeks is necessary for an application to be processed. If notification of action on the application is not received within eight weeks, a follow-up should be initiated by the applicant.

Master Programs of Study. The College of Health, Physical Education, and Recreation offers programs leading to the Master of Science and Master of Arts in Recreation and Park Management.

Degree Requirements. Master-degree candidates who have not completed an undergraduate degree in Recreation and Park Management are required to complete the following undergraduate core requirements prior to or during their graduate study; 3 credit hours each: History and Theory of Recreation (RPM 251) may be taken as an undergraduate reading course (RPM 405) or may be waived upon satisfactory completion of a written examination); Recreation Leadership (RPM 352); Organization and Administration of Recreation (RPM 370); Recreation Programs (RPM 396); Recreation Areas and Facilities (RPM 496).

A minimum of 45 credit hours of graduate credit must be completed for the master degree. Thirty credit hours must be earned on the Eugene campus. A maximum of 15 credit hours may be transferred from other colleges and universities upon approval by the Graduate School.

At least 27 of the 45 credit hours for the degree must be selected from courses offered by the Department of Recreation and Park Management. At least 9 credit hours must be from courses offered by other departments. The courses selected must make up concentrations designed to strengthen the student's major areas of interest.

Graduate Core Courses. All individuals engaged professionally in the field of recreation and parks have a common concern—recreation as it affects individuals, land resources, and society. It is deemed appropriate, therefore, that all students pursuing a graduate-degree program have a common core of courses. The following core of 9 credit hours is required for all graduate degree candidates: Philosophical Foundations of Recreation (RPM 511); Social Statistics (RPM 507); Methods of Social Research (RPM 507). (Note: Graduate credit courses in social science or education statistics and research methods may be elected in option depending upon the student's selected area of specialization and research. Consent of the faculty adviser is required.)

Final Examinations. Final examinations are required for both the thesis and non-thesis programs of study. The final examination for the thesis program is oral in nature and is administered by the student's thesis committee. For the nonthesis program, the final examination is written. The examination includes two comprehensive essay questions for each of the three areas of concentration selected by the student in his or her program of studies and from Research Statistics and Professional Foundations.

All work for the master degree must be completed within a period of seven years. This includes work for which credit is transferred from another institution, the thesis, and the final examination.

Doctoral Programs of Study. The College of Health, Physical Education and Recreation offers programs leading to the Doctor of Philosophy and Doctor of Education in Recreation and Park Management.

Degree Requirements. Doctoral degrees are granted primarily for attainment and proven ability. The specific number of credits and courses are determined by the candidate's doctoral committee and are flexible to meet the particular needs and interests of the candidate. The Graduate School requires at least three years of full-time study beyond the bachelor degree, of which at least one academic year (three consecutive terms) must be spent in continuous residence on the Eugene campus. One should not plan to transfer more than 65 to 70 credit hours (including the 45 credits

for the master degree), because of the nature of the degree requirements.

The doctoral student should attain a greater depth of knowledge in the selected area of specialization than does the master-degree student. A minimum of 30 credit hours in courses offered by the Department of Recreation and Park Management is usually required.

A broad understanding of research methodology and application of techniques for evaluation of recreation and park services is considered essential in the doctoral program. Four or five courses in statistics and research methods are usually required.

Every candidate for the doctoral degree must complete a dissertation. A master-degree thesis or a study in lieu of thesis must be completed before the undertaking of a doctoral dissertation. A minimum of 27 credit hours of research for the thesis and dissertation is usually expected.

A minimum of 20 credit hours (for the Ph.D. degree) or 30 credit hours (for the D.Ed. degree) is required for a supporting area in a related discipline such as sociology, political science, landscape architecture, regional planning, and education.

Several options are available to meet the language requirement for the Ph.D. degree. Languages allowed include German, French, Russian, Japanese, and Spanish. Twelve hours of computer-science courses or nine credit hours of advanced statistical design may be substituted for the language requirement.

Qualifying and Final Examinations. Prior to or during the first two terms of study, a doctoral qualifying examination is written. A student is expected to exhibit knowledge and communication skills equivalent to a high quality master-degree graduate. Any weaknesses are generally strengthened through course work during the program of studies.

The written doctoral comprehensive examination is taken after completion of substantially all the doctoral course work, master thesis, and language requirements. Passing of this examination advances the student to full doctoral-degree candidacy. Included in this examination are comprehensive essay questions on the Recreation and Park Management area of concentration, the supporting area, research, and professional foundations.

A final oral examination is taken after completion of the dissertation and all degree requirements.

Areas of Specialization. Six areas of specialization are available allowing considerable flexibility to design program requirements specific to the professional interests and needs of the individual graduate student:

- (1) Recreation and Park Administration which focuses upon competence needed for executive positions in recreation and park systems.
- (2) Recreation Program Supervision-Administration which emphasizes the development and administration of programs in various settings such as in local government, voluntary agencies, industrial recreation, hospitals, and the armed forces.
- (3) Research and Planning which provides experience in research and planning techniques, and understanding of the measurement and evaluation functions as related to the recreation and parks field.
- (4) Professional Education which establishes a foundation for the teaching of recreation and park courses in institutions of higher learning.
- (5) Outdoor Education and Recreation which is directed toward

the development and administration of school outdoor-education programs, resident and day-camp programs, and naturalist interpretive programs.

(6) Recreation for Special Groups which is designed toward the development and administration of programs for the ill, handicapped, and special groups.

Graduate Assistants and Trainees. Teaching and administrative assistantships are available primarily to full-time students who have completed several years of teaching or other full-time professional field experience. Stipends include a salary for nine months plus a reduction in tuition each term. Applications may be obtained from the Graduate Coordinator, Department of Recreation and Park Management.

Traineeships are available either through the Center for Gerontology, 1597 Agate Street, or Project Extend-Ed, 1587 Agate Street, University of Oregon. Stipends vary depending upon the student's program of studies, but commonly include full tuition and living allowances. Applications and related information may be obtained by writing directly.

A list of local employment opportunities is available by request from the Department of Recreation and Park Management office.

RPM 150. Recreation in Society. 3 credit hours.

Concept of community recreation; scope of recreation in American life; the role of recreation, parks, and sports in human experience and in the structure of community living. Offered each term to nonmajors. May be taken for a grade, or for the pass-no pass option.

RPM 251. History and Theory of Recreation. 3 credit hours.

Introduction to the basic historical and philosophical foundations of leisure and recreation. Offered each term.

RPM 290. Camp Counseling. 3 credit hours.

Orientation to youth in camps; examination of the values and objectives of organized camps; understanding campers, camp programs, and staff responsibilities. Offered winter term.

RPM 352. Recreation Leadership I. 3 credit hours.

Methods and techniques of group and individual leadership in recreation activities. Leadership experience in various recreational settings. Offered each term.

RPM 353. Recreation Leadership II. 3 credit hours.

Different forms of recreational activities as they apply to a variety of participants and to basic areas of recreation. Planning, organizing, executing and evaluating quality recreation activities and programs for the community. Analysis of social recreation programs.

RPM 370. Organization and Administration of Recreation I. 3 credit hours.

Administration of public recreation and park services provided by municipal, district, county, state, and federal departments; legal provisions; organization; finance; public relations. Prerequisite: RPM 251 and 352. Offered fall and spring terms.

RPM 371. Organization and Administration of Recreation II. 3 credit hours.

Supervision of personnel in public recreation and park services provided by municipal, district, county, state, and federal recreation and park departments. Prerequisite: RPM 370.

RPM 391. Camp Administration. 3 credit hours.

Selected organizational and administrative aspects of organ-

ized camping including: site development, personnel, health, safety, sanitation, programs, finance, and public relations; emphasis on national standards and local regulations. Offered fall term.

RPM 392. Camp Administration II. 3 credit hours.

Application of standards and principles of camp administration to existing situations. Consent of instructor. Prerequisite: RPM 370, 391, and 492. Offered spring term.

RPM 394. Youth Agencies I. 3 credit hours.

Critical analysis of national youth-serving organizations as they relate to the characteristics and normal needs of the youth they serve. Prerequisite: Junior standing in RPM. Offered twice each year.

RPM 395. Youth Agencies II. 3 credit hours.

In-depth investigation of administrative and leadership considerations of youth-service organizations. Includes direct contact with leaders of and participation in local youth service organizations. Prerequisite: RPM 394.

RPM 396. Recreation Programs. 3 credit hours.

Development, analysis, and evaluation of content, public relations, funding, facilities and leadership of leisure programs for municipal, voluntary, private, church, and commercial agencies. Prerequisite: RPM 370. Offered each term.

RPM 405. Reading and Conference.

Credit hours to be arranged. Approval of department head is required.

RPM 406. Special Problems.

Credit hours to be arranged. Approval of department head is required.

RPM 407. Seminar: Evaluation of Recreation Services. 3 credit hours.

Methods, techniques, and application of evaluation in a wide variety of functions normally found in recreation and park services including: clientele, programs, personnel, facilities, and organization. Prerequisite: RPM 370. Offered twice each year.

RPM 407. Seminar: Basic Issues in Recreation and Parks. 3 credit hours.

Current basic issues confronting the park and recreation field.

RPM 407. Seminar: Budget and Finance. 3 credit hours.

Basic types and sources of funds for the operation and capital financing of park, recreation, and leisure services. Budget and accounting procedures common to municipal recreation services.

RPM 407. Seminar: Public Relations. 3 credit hours.

Elements of public communications as components of the administrative framework utilized to fulfill park and recreation services within the resources unique to public agencies.

RPM 408. Workshop.

Credit hours to be arranged.

RPM 409. Practicum: Special Groups. 3-12 credit hours.

RPM 409. Practicum: Recreation Programs. 3-12 credit hours.

RPM 409. Practicum: Youth Agencies. 3-12 credit hours.

RPM 409. Practicum: Outdoor Education. 3-12 credit hours.

RPM 409. Practicum: Park Planning. 3-12 credit hours.

RPM 409. Practicum: Agency Analysis. 3 credit hours.

A linkage course designed to analyze the relationships of theory to the practical aspects of RPM 415.

RPM 415. Supervised Field Study. 3-12 credit hours.

RPM 496. Recreation Areas and Facilities. 3 credit hours.

Basic considerations in the planning, construction, and operation of recreation areas, facilities, and buildings. Required for all departmental majors.

Upper-Division Courses Carrying Graduate Credit

RPM 407. Seminar. (G) 3 credit hours.

Administration of Senior Centers.
Community Organization for Special Groups.
Environmental Interpretation I, II.
Outdoor Recreation Programs.
Perspectives of Aging.
Social Dimensions of Leisure and Retirement.
Survey of Therapeutic Recreation.
Park-Planning Systems.

RPM 461. Recreation for Special Groups. (G) 3 credit hours.

A leadership course in the use of recreation activities with handicapped persons. Techniques in programming and adaptation to meet the leisure needs of special groups in today's society.

RPM 490. Principles of Outdoor Education. (G) 3 credit hours.

Development of outdoor education and school camping; theories, practices, educational significance; organization, administration, and program planning. Offered winter term.

RPM 492. Recreation and Natural Resources. (G) 3 credit hours.

Administration of natural resources at the national, state, local, and private levels, with emphasis on the understanding of how outdoor recreation affects and is affected by the resources and the management philosophy and policies of the management agencies.

RPM 497. Operation and Design of Recreation and Parks. (G) 3 credit hours.

Design analysis and maintenance in line with programming concepts; operation and management procedures for specialized facilities as tennis courts, golf courses, swimming pools, ice rinks, etc. Prerequisite: RPM 496, or equivalent.

RPM 499. School and Community Recreation Programs. (G) 3 credit hours.

Principles of program planning for school and community; types of programs considered in relation to sex and age and individual interests, needs, and capacities.

Graduate Courses

RPM 501. Research.

Credit hours to be arranged. No-grade course.

RPM 503. Thesis.

Credit hours to be arranged. No-grade course.

RPM 505. Reading and Conference.

Credit hours to be arranged. Approval of department head is required.

RPM 506. Special Problems.

Credit hours to be arranged. Study of selected problems in recreation. Approval of department head is required.

RPM 507. Seminar. 3 credit hours.

Basic Issues in Recreation, Parks, and Leisure.
Community Studies and Surveys.

RPM 507. Seminar: Methods of Social Research. 3 credit hours.

Application of social research methods to community settings; procedures in study design, methods of data collection, interpretation and presentation.

RPM 507. Seminar: Social Statistics. 3 credit hours.

Theory and application of sociological statistical data to administration, research and planning models; the use and limitations of descriptive and inductive statistics to recreation and other community settings. Application of graphic and table presentations; practice in calculator and computer data processing.

RPM 508. Workshop.

Credit hours to be arranged.

RPM 509. Practicum. 3-12 credit hours.**RPM 511. Philosophical Foundations of Recreation. 3 credit hours.**

An examination of historical theories of play and leisure, an analysis of fundamental philosophical concepts as they relate to principles and practices of the conduct of programs for leisure, and a critical overview of current literature on the challenges of leisure.

RPM 552. Problems of Recreation Supervision. 3 credit hours.

The purpose of supervision; principles and techniques of supervision in a modern program of recreation; staff relationships; departmental organization; policies, regulations, problems.

RPM 553. Administration of Recreation. 3 credit hours.

Organization and administration of park and recreation programs in districts, communities, and municipalities; legal aspects, source of funds, types of programs.

RPM 554. Problems of Camp Managements. 3 credit hours.

Analysis of problems under various types of camp sponsorship; principles, techniques, resources, administrative practices; principles and problems of leadership and group behavior.



School of Journalism

Faculty

- Dean, John W. Crawford, M.A., Professor of Journalism (advertising). B.A., Northwestern, 1935; M.A., Michigan State University, 1958; at Oregon since 1969.
- Lee P. Bishop, Lecturer in Journalism (broadcasting); at Oregon since 1969.
- Charles T. Duncan, M.A., Professor of Journalism (news-editorial). A.B., 1936, M.A., 1946, Minnesota; at Oregon 1950-62, and since 1965.
- Jack D. Ewan, M.S.J., Associate Professor of Journalism (advertising and public relations). B.S.J., 1948, M.S.J., 1964, Northwestern; at Oregon since 1964.
- Bernard L. Freemesser, M.S., Professor of Journalism (visual communication). B.A., San Diego State, 1950; M.S., Oregon, 1952; at Oregon since 1955.
- Robert C. Hall, Associate Professor Emeritus of Journalism; at Oregon since 1917.
- Roy K. Halverson, Ph.D., Associate Professor of Journalism (news-editorial). B.S., 1957, M.S., 1963, Wisconsin; Ph.D., Illinois, 1970; at Oregon since 1966.
- John L. Hulteng, M.S., Professor of Journalism (news-editorial). Ph.B., North Dakota, 1943; M.S., Columbia, 1947; at Oregon since 1955.
- James B. Lemert, Ph.D., Associate Professor of Journalism (communications research). A.B., 1957, M.J., 1959, California, Berkeley; Ph.D., Michigan State, 1964; at Oregon since 1967.
- Kenneth T. Metzler, M.S.J., Associate Professor of Journalism (news-editorial). B.S., Oregon, 1956; M.S.J., Northwestern, 1967; at Oregon since 1960.
- Roy Paul Nelson, M.S., Professor of Journalism (news-editorial, advertising). B.S., 1947, M.S., 1955, Oregon; at Oregon since 1955.
- Karl J. Nestvold, Ph.D., Associate Professor of Journalism (broadcasting). B.S., Wyoming, 1954; M.S., Oregon, 1960; Ph.D., Texas, 1972; at Oregon since 1961.
- Dean F. Rea, M.A., Associate Professor of Journalism (news-editorial). B.A., Southwest Missouri State, 1949; B.J., 1950, M.A., 1951, Missouri; at Oregon since 1966.
- Alyce R. Sheetz, M.S., Assistant Professor of Journalism (news-editorial); Editor of University of Oregon alumni publications. B.S., 1940, M.S., 1963, Oregon; at Oregon since 1969.
- George S. Turnbull, M.A., Professor Emeritus of Journalism (news-editorial). A.B., 1915, M.A., 1932, Washington; at Oregon since 1917.
- R. Max Wales, M.A., Professor of Journalism (advertising, public relations). B.A., Washburn, 1933; M.A., Iowa, 1956; at Oregon since 1957.
- Carl C. Webb, M.A., Associate Professor Emeritus of Journalism (news-editorial). B.S., 1932, M.A., 1950, Oregon; at Oregon since 1943.
- Willis L. Winter, Jr., Ph.D., Associate Professor of Journalism (advertising). B.S., California, Berkeley, 1950; M.S., Oregon, 1957; Ph.D., Illinois, 1968; at Oregon since 1968.

A DEPARTMENT of journalism was organized at the University of Oregon in 1912, and became one of the University's professional schools in 1916. The sequences in advertising, news-editorial, and radio-television journalism are accredited by the American Council on Education for Journalism.

Students who major in journalism are preparing for careers in a variety of fields: newspaper reporting and editing, magazine writing and editing, advertising, public relations, photo-journalism and visual communications, radio-television news and management, and journalism teaching.

In addition, they have a common concern with the basic problems and techniques of communicating information and ideas to large and varied audiences. They study the role of the mass media in society; the history of journalism; the structure of law affecting the press, broadcasting, and advertising; and ethics and responsibilities of writers, editors, and other communicators.

Because their work will touch every aspect of life, journalism majors need as broad a liberal education as possible. At Oregon, journalism students spend about one-fourth of their time in courses in the School of Journalism (a maximum of 46 of the 186 credit hours required for a bachelor degree). Most of the remainder of their course work is chosen from the liberal arts departments, particularly literature, history, economics, political science, psychology, and sociology.

This pattern is the standard for all programs accredited by the American Council on Education for Journalism. Oregon is one of fewer than seventy schools with accredited programs. It is the only school on the West Coast and one of only nine in the United States with accreditation in all three programs related to the mass media (news-editorial, advertising, and radio-television news). The School of Journalism is one of the oldest in the country and one of the dozen largest.

Faculty members are former professionals who combine academic background with practical experience in their special fields. They include advertising-agency people, newspaper editors, public-relations executives, magazine writers, researchers, photographers, graphic artists, and broadcasters. In Eric Allen Hall, named for the first dean of the school, faculty and students have a modern instructional center in which to work and study.

Many journalism majors obtain practical experience on their own while in school. Some work on the student newspaper, the *Oregon Daily Emerald*. Others are announcers, writers, or directors at the student radio station, KWAX, or the educational TV-channel on campus. Internships for summer employment are often available at newspapers, broadcasting stations, advertising agencies, and public relations departments. The School works with the University's Placement Bureau in helping students find part-time employment while they are in school and full-time employment upon graduation.

The best pre-college preparation for journalism majors is a broad college-preparatory program in high school, with emphasis on English, literature, speech, and history. Foreign languages are not required but are strongly recommended. Students at junior and community colleges who plan to transfer to the University to study journalism are advised to take liberal-arts courses fulfilling the University and the School of Journalism degree requirements

during their first two years of college work, reserving professional course work in journalism for the final two years at the School of Journalism.

Each journalism major is advised by a faculty member in planning a program of courses individually based on the student's background and career interests.

The program for students designated as majors in Journalism is organized on an upper-division and graduate basis.

Undergraduate Studies

Requirements for Admission. Freshmen and sophomores who plan to become journalism majors and who meet the admission requirements of the University are admitted by the Office of Admissions. Such students may stipulate "pre-journalism" as their major without special screening by the School of Journalism or compliance with specific requirements.

Each student must see the Chief Adviser of the School of Journalism for assignment to an academic adviser in the student's area of subject-matter interest. In fall term of each year, these assignments are made at the meeting of all new undergraduate students during the Orientation Program. At other times, students are to see the Chief Adviser during his scheduled office hours.

Pre-journalism students who want to change areas of interest and academic advisers within the School of Journalism during their freshman or sophomore years must see the Chief Adviser for reassignment.

Students in other departments in the University who wish to become pre-journalism students during their freshman or sophomore years will apply through the Office of Admissions.

Transfer students from other institutions who want to become pre-journalism students with less than 90 credit hours will also apply through the Office of Admissions. Admissions officers, counselors, and transfer students will be guided by the *Transfer Credit Policy* statement of the School of Journalism (below). This policy statement is furnished to all institutions in Oregon as part of the *Transfer Curricula Recommended by the State System Committee on Community Colleges for Oregon Community Colleges*, issued by the Office of Academic Affairs, Oregon State System of Higher Education.

PROFICIENCY IN THE USE OF THE TYPEWRITER IS ESSENTIAL TO SUCCESS AS A JOURNALISM STUDENT.

The following courses are open to pre-journalism majors: Mass Media and Society (J 224); Journalistic Writing (J 250); Principles of Advertising (J 341).

Pre-journalism students are advised to complete as many as possible of the courses in Liberal Arts which meet the Group Requirements of the University and, in addition, which are required and recommended by the School of Journalism; students are also advised to participate in extracurricular journalistic activities.

Juniors and seniors are accepted as majors in Journalism. All students who want to become journalism majors, including pre-journalism students, who have completed the sophomore year (90 credit hours), must apply for admission to the School of Journalism on special forms obtainable from the school office. Applications, including transcripts, must be submitted not later than one month prior to the beginning of the term for which ad-

mission is sought. In order to be eligible for admission as a major, the student must have: (1) completed 90 or more credit hours of work; (2) substantially satisfied the lower-division requirements of the University; and (3) attained a 2.50 cumulative grade point average and no more than 13 credit hours of unsatisfactory work (Ds, Fs, or Ns). (4) In each of the last two terms prior to application, the student must have satisfactorily completed eighty per cent of all work attempted. Where suitable evidence is available, aptitude for successful performance in the field will be considered in lieu of requirements (2) and (3). (5) Before admission the student must have completed, with credit, Journalistic Writing (J 250) (formerly J 407 and J 199), or equivalent, or have passed the school's waiver examination for this course. Since students transferring from other colleges will not have had the opportunity to fulfill requirement (5), they begin their professional studies as pre-journalism students. When admitted to the University as pre-journalism students by the Office of Admissions, they should see the School of Journalism for adviser assignment.

The School of Journalism supports the *Transfer Curricula Recommended by the State System Committee on Community Colleges for Oregon Community Colleges*, issued by the Office of Academic Affairs, Oregon State System of Higher Education, and calls specific attention to the transfer curriculum for journalism as listed in that document.

With the number of courses labeled "journalism" increasing in community colleges and with the increasing number of students wanting to transfer into the School of Journalism, general policies on acceptance of transfer credit are needed. These are:

(A) The School of Journalism will accept for credit and for the fulfillment of its course requirements courses taken and satisfactorily completed at other schools of journalism offering sequences accredited by ACEJ. However, this acceptance does not waive the requirement of the credit hours to be earned at the University of Oregon School of Journalism.

(B) The School of Journalism will accept for "general journalism credit" courses taken and satisfactorily completed at institutions whose sequences are *not* accredited by ACEJ; such "general journalism credit" will be included in the 46-credit-hour total, but no "general journalism credit" may be used to meet specific course requirements. Students who want to use course work taken at another institution to meet prerequisites for School of Journalism courses may apply to take waiver examinations.

(C) The School of Journalism will accept for "general journalism credit" courses taken for credit at other institutions for work on student publications, student radio and television stations, student magazines, or for commercial, nonacademic media, but such credit may not be used to meet specific course requirements of the School of Journalism and no more than three such credits may be counted in the requirement of 33 upper-division hours. Transfer students who present such credits may find themselves disadvantaged in the number of hours they are permitted to take in the School of Journalism to keep within the 46-hour total.

(D) The School of Journalism will accept for credit, and for meeting specific course requirements, and for meeting requirements for certification for secondary-school teaching, courses taken through the Division of Continuing Education when the faculty member teaching such courses is a member of the faculty of the School of Journalism or whose appointment as instructor of the DCE courses has been approved by the faculty of the School of Journalism.

Students who want advice on admission to the School of Journalism will see the Chairman of the Undergraduate Admissions Committee.

Summary of Admission Requirements. Freshmen and Sophomores: No special requirements. Students should be advised that proficiency in the use of the typewriter is **ESSENTIAL**.

Juniors and Seniors: All students must submit a special application form with transcript to the Office of Admissions. All students must have: (1) completed 90 credit hours of work; (2) substantially satisfied the lower-division requirements of the University; (3) attained a cumulative GPA of 2.5 or above with no more than 13 credit hours of unsatisfactory work (Ds, Fs, or Ns); (4) satisfactorily completed eighty per cent of all work attempted in the last two terms prior to application; and (5) have completed with credit Journalistic Writing (J 250) or equivalent, or have passed the waiver examination.

Requirements for Graduation. In addition to meeting the University requirements for the degrees of Bachelor of Arts or Bachelor of Science, students seeking these degrees with a major in journalism must: (1) complete a minimum of 36 credit hours of professional courses in the journalism curriculum. Of these, at least 33 credit hours must be upper-division professional courses; (2) earn at least 24 credit hours in the University of Oregon School of Journalism curriculum; (3) limit the total number of upper and lower-division professional hours combined to 46 credit hours in professional courses within the first 186 hours of an undergraduate program (140 of the first 186 credit hours must be earned in liberal arts or other non-journalism courses); (4) complete at least two courses involving writing under supervision as specified by the Journalism faculty (Group A) and at least two courses chosen from Law of the Press (J 485), History of Journalism (J 487), Journalism and Public Opinion (J 494) (Group B); (5) earn a cumulative grade point average in all courses of at least 2.5, and a cumulative grade point average in journalism courses of at least 2.5. The student must not have accumulated more than 21 hours of unsatisfactory work (Ds, Fs, or Ns) in all courses and cannot have received unsatisfactory grades in more than two upper-division journalism courses.

In its requirements for an undergraduate major, the School of Journalism places strong emphasis on courses which will provide a broad liberal education. Each student majoring in the School of Journalism must also complete the following work in the liberal arts (most of which may also be used to satisfy the University's general and group requirements): (6) two terms of English Composition (unless exempted by examination); (7) two years of literature: English, American, or world literature (not a foreign-language literature course); (8) one year of history; (9) one year of economics and one year of political science; or one year of either economics or political science and one year in one of the following: anthropology, geography, philosophy, psychology, or sociology; (10) two additional blocks of at least 9 related credit hours each in liberal arts courses; (11) at least two of the year's work or 9-hour blocks completed to satisfy (7), (8), (9), and (10) must be at the upper-division level.

In consultation with an adviser, a journalism major selects professional courses which will provide a measure of concentration in a special field of journalism.

Advertising. Principles of Advertising (J 341); Advertising Copy Writing (J 446); Media of Advertising: Print (J 441); Media of Advertising: Broadcast (J 442); Advertising Problems (J 444); Advertising Layout (J 447); Law of the Press (J 485); courses selected from the following: Seminar: Advertising Research (J 407), Advertising Agencies and Departments (J 445), Production for Publication (J 321), Marketing Systems (MIT 311), Television Workshop (BC 344), Photographic Seeing (J 335), Principles of Public Relations (J 459).

News-Editorial. Reporting I (J 361); Newspaper Editing (J 371); Reporting II (J 462); Law of the Press (J 485); History of Journalism (J 487); courses selected from the following: Production for Publication (J 321), Magazine Article Writing I and II (J 468, 469), The Community Newspaper (J 424), Photographic Seeing (J 335), Journalism and Contemporary Affairs (J 495), Current Issues: Journalistic Approaches (J 496).

Newspaper Management. Production for Publication (J 321); Principles of Advertising (J 341); Reporting I (J 361); Newspaper Editing (J 371); The Community Newspaper (J 424); Newspaper Management (J 421); Law of the Press (J 485); courses selected from the following: Reporting II (J 462), Photographic Seeing (J 335), Advertising Copy Writing (J 446), Advertising Layout (J 447).

Radio-Television Journalism. Radio-Television News I and II (J 431, 432); Radio-Television News Workshop (J 434); Seminar: Documentary Film (J 407); courses selected from the following: Seminar: Radio-Television Station Management (J 435), Radio-Television Problems (J 407), Reporting II (J 462), Principles of Advertising (J 341), Media of Advertising: Broadcast (J 442), Radio and Television Workshop (BC 341), Radio and Television Script Writing (BC 347), Television Workshop (BC 344), Radio-Television Production (BC 444), Radio-Television Programming (BC 446).

Magazine Journalism. Magazine Article Writing I and II (J 468, 469); Magazine Editing (J 470); Magazine Design and Production (J 471); courses selected from the following: Production for Publication (J 321), Principles of Advertising (J 341), Principles of Public Relations (J 459), Newspaper Editing (J 371), Seminar: Institutional Communications (J 407), Advertising Copy-Writing (J 446), Advertising Layout (J 447), Law of the Press (J 485).

Public Relations. Principles of Public Relations (J 459); Public Relations Writing (J 465); Public Relations Problems (J 483); Reporting I (J 361); Law of the Press (J 485); Institutional Communications (J 407); courses selected from the following: Production for Publication (J 321), Principles of Advertising (J 341), Magazine Article Writing I (J 468), Magazine Editing (J 470), Photographic Seeing (J 335), Advertising Copy Writing (J 446), Journalism and Public Opinion (J 494), Seminar: Documentary Film (J 407), Television Workshop (BC 344), Seminar: Photography in the Print Media (J 407).

Visual Communications. Photographic Seeing (J 335); Photojournalism (J 336); Seminar: Photography in the Print Media (J 407); courses selected from the following: Basic Design (Art 295), Production for Publication (J 321), Television Workshop (BC 344), Principles of Advertising (J 341), Reporting I (J 361), Seminar: Documentary Film (J 407), Seminar: History of Photography (J 407), Principles of Public Relations (J 459), Radio-Television Production (BC 444), Radio-Television Direction (BC 445), Radio-Television Programming (BC 446), Magazine Editing (J 470), Law of the Press (J 485), Visual Continuity (Art 493), Journalism and Public Opinion (J 494).

Policy on Grade Option. (1) All courses regularly offered in the School will be available on a graded or a pass-no-pass basis, except those specifically designed in the catalog and the time schedules as "graded only" or "nongraded only."

(2) For courses taken for undergraduate credit a grade of "pass" is understood to mean work performed at the "C" level or better. For courses taken for graduate credit, "pass" means work at the level of "B" or better.

(3) Undergraduate majors will receive credit toward the satis-

faction of degree requirements for no more than nine hours of nongraded course work in journalism. Graduate majors will receive no credit toward satisfaction of degree requirements for courses carrying journalism credit taken on a nongraded basis where the basis of grading is optional. Graduate majors will receive credit toward satisfaction of degree requirements for no more than six hours of nongraded work in any other University courses where the basis of grading is optional.

Secondary-School Teaching of Journalism. For certification as a teacher of journalism in Oregon high schools, the Oregon State Department of Education requires (1) the satisfaction of certain minimum standards of subject preparation, and (2) the recommendation of the institution at which the student completes the subject preparation.

State standards for certification are established for a basic (four-year) norm and for a standard (five-year) norm. Students are encouraged to meet the five-year norm during their undergraduate study.

To meet the state standards in journalism and the requirements for recommendation by the University of Oregon School of Journalism, the student should complete the following program:

(1) Basic Norm. Demonstrated competence or 42 credit hours designed to demonstrate competence in language arts to include:

(a) 15 credit hours of journalism including work in news-writing, copy editing and high school publications. The University of Oregon School of Journalism requires the following 17 credit hours of course work, or the equivalent areas of demonstrated competence, to meet certification standards: Journalistic Writing (J 250) 3 credit hours; Mass Media and Society (J 224) 3 credit hours; Principles of Advertising (J 341) 3 credit hours; Reporting I (J 361) 4 credit hours; Newspaper Editing (J 371) 4 credit hours.

(b) Methods of Teaching Journalism (J 455) is required before permission is granted for student teaching or before certification is granted by the School of Journalism.

(c) A core of 27 credit hours distributed in literature and communication as indicated in the basic language arts norm. The University of Oregon School of Journalism requires the following course work or equivalent course work to meet certification standards in language arts: Literature (15 credit hours). This work may be in American literature, world literature, or English literature, but may not duplicate work credited in meeting the communications requirement below. Communication (12 credit hours to include each of the three categories below). (i) Written Expression: Short Story Writing (Wr 326); Reporting II (J 462); Magazine Writing I (J 468). (ii) Oral Expression: Fundamentals of Speech (Rht 121); Radio-TV Production (BC 444). (iii) Cultural Linguistics: Journalism and Public Opinion (J 494); History of English Language (Eng 491); Modern English Grammar (Eng 492).

(2) Standard Norm. Demonstrated competence or 12 credit hours designed to develop further teaching competence in language arts in addition to those required for the basic norm, including nine credit hours of journalism. The University of Oregon School of Journalism requirements for completing the Standard Norm and the five-year program: Journalism and Public Opinion (J 494) or an equivalent public opinion or theory course must either have been completed as a part of the basic norm class work or must be included as part of the nine credit hours of journalism work in the standard norm. Students may elect the remaining hours from any upper division or graduate level course in journalism.

Graduate Studies

The School of Journalism offers work leading to the Master of Arts or Master of Science degree. Programs in news-editorial journalism, advertising and public relations, broadcasting, visual communication, and communications research are provided for candidates with undergraduate majors in journalism or considerable journalistic experience and for those who do not have an undergraduate major in journalism or journalistic experience.

(Plan A) Thesis required. Designed for students with an extensive background in journalism. The candidate may satisfy the major requirements with 30 credit hours of work in journalism, nine of which are awarded for the thesis. The minimum number of graduate credit hours is 45.

(Plan B) Terminal project required. Designed for students with little or no journalistic background. The candidate may take a maximum of 45 credit hours in journalism, four of which are awarded for the terminal project. Plan B students, in addition to completing the 45 hours of graduate credit required for the master degree, may be required to enroll in two basic professional courses which do not carry graduate credit.

Requirements for Admission. Candidates for admission to graduate study at the School of Journalism must be graduates of a four-year accredited college or university, must have a grade point average of at least 3.00 (B) in their undergraduate study, and must submit scores on the Graduate Record Examination.

Students may be conditionally admitted for graduate study if they can offer evidence that a graduate course of study will be pursued successfully. Such evidence may be either (1) the Graduate Record Examination or other examination to be determined by the School or (2) a grade point average exceeding 3.00 earned during the last two years of undergraduate studies. Men or women who have substantial experience in any of the fields of journalism may offer such experience, with the approval of the faculty, in lieu of (1) or (2) for conditional admittance. The student who is not admitted under (1) or (2) above may request a review of his or her application by the faculty.

Advising. An adviser will be appointed for all graduate students in the School by the Dean upon recommendation of the Faculty Committee on Graduate Study. Each student will also be assigned to a faculty member who will supervise the research and writing phases of the thesis or terminal project. A topic must be approved by the Dean and the assigned faculty member before work is undertaken. Students should register for credit in the appropriate courses (J 503 for thesis or J 506 for terminal project) during the terms in which they are doing the actual research and writing.

Requirements for Graduation. Candidates for the master degree must complete at least 45 hours of course work carrying graduate credit, with a cumulative grade point average of above 3.0. Courses that do not carry graduate credit are not considered in determining the graduate student's grade point average.

Students whose undergraduate program did not include the following courses or their equivalent must take them, either before taking graduate courses or concurrently with graduate courses: Principles of Advertising (J 341) 3 credit hours; Reporting I (J 361) 4 credit hours, or Journalistic Writing (J 250) 3 credit hours. These are not graduate level courses, and therefore do not provide credits toward the 45 credit hours required for the master degree. Thus, the total degree program for students with limited undergraduate work in the field may include up to 52 credit hours, and typically may require four or five terms for completion.

All graduate students should expect to be assigned extra work in any undergraduate course they may take. This will usually take the form of a term paper not required of undergraduates in the course.

Of the 45 graduate-level credit hours required for completion of degree requirements, at least 30 should be in journalism courses. Students who have not taken undergraduate programs in journalism, and who do not have professional experience in the field, may elect to take up to 45 credits in graduate-level journalism courses.

Nonjournalism courses taken must constitute an integrated program of work in a single area or in closely-related areas. Scattered work in a variety of areas will not be acceptable.

Graduate students will receive no credit toward satisfaction of degree requirements for courses carrying journalism credit taken on a nongraded basis when the basis of grading is optional. Graduate students will receive credit toward satisfaction of degree requirements for no more than six hours of nongraded work in any other University courses where the basis of grading is optional.

Course programs for graduate students are usually planned individually, on the basis of consultation with the student's adviser. It is expected, however, that students intending to complete requirements for an advanced degree will include the following courses in their program (or present evidence that they have previously completed such courses or their equivalent): Law of the Press (J 485) 3 credit hours; History of Journalism (J 487) 3 credit hours; Public Opinion and Propaganda (J 514) 3 credit hours; Communication Theories (J 513) 3 credit hours.

All master-degree programs must include the following: (a) Three journalism courses or seminars numbered at the 500 level; (b) at least one graduate-credit course in journalistic writing from the following group: Reporting II (J 462) 4 credit hours; Magazine Article Writing I or II (J 468, 469) 3 credit hours; Editorial Writing (J 564) 3 credit hours; Advertising Message Strategy (J 546) 3 credit hours; Public Relations Writing (J 465) 3 credit hours; Seminar: Visual Criticism (J 507) 3 credit hours; Seminar: Writing the Nonfiction Book (J 507) 3 credit hours.

Degree candidates who are preparing theses should obtain from the Graduate School office a pamphlet describing the appropriate form and style of the thesis.

Students nearing the completion of their programs should obtain from their advisers a copy of a check list of steps to be taken and examinations to be passed immediately prior to the awarding of the degree. EACH STUDENT IS RESPONSIBLE FOR COMPLETING ALL FORMALITIES SUFFICIENTLY IN ADVANCE OF THE DEADLINE.

Special Examinations. All applicants seeking admission should make arrangements to take the Graduate Record Examination at a location convenient to them. Upon receipt of the results of this examination and of transcripts covering all previous academic work, the committee on graduate study will notify the candidate.

All graduate students' programs are examined by the faculty of the school during progress toward the master degree:

(1) Each graduate student in journalism is automatically considered for advancement to candidacy in the term following the completion of 12 credit hours of graduate study. Advancement to candidacy is necessary for both conditionally admitted students and students admitted on an unqualified basis.

(2) The student not advanced to candidacy at this evaluation will be given written notice but may be allowed to continue course work until the completion of 24 credit hours of graduate study.

At that time a final decision regarding advancement to candidacy will be made.

(3) Advancement to candidacy will not be granted to students unless they have a graduate GPA of better than 3.00. Advancement to candidacy evaluation is not based upon the GPA alone, but involves additional evidence of the student's performance and promise.

(4) When students have completed all other requirements including the thesis or terminal project for the degree, they are scheduled for the final oral examination.

Candidates for the M.A. degree must have completed work in a foreign language through the second year of college, or must pass an examination demonstrating equivalent mastery. Candidates for the M.S. degree need not fulfill this requirement.

Foreign Students. Foreign students beginning graduate work at the School of Journalism should plan to spend some time (at least a full term, in most cases) taking basic courses that do not carry graduate credit, before embarking on graduate level courses.

A firm mastery of English, including American mass-communications idiom, is necessary to success in professional courses at the graduate level. Foreign students who lack such a mastery find themselves severely handicapped, and may find it wise to pursue a program of course work leading to a second bachelor degree, and not attempt to complete master-degree requirements. Foreign students who decide to undertake to complete a degree program should plan to spend five or more terms in residence. Foreign students who decide to complete requirements for a second bachelor degree rather than a master degree should expect to spend three or four terms in residence.

Facilities. The School of Journalism is housed in Eric W. Allen Hall, named in memory of the first dean of the School of Journalism. Fully equipped laboratories are provided for newswriting, editing, advertising, radio-television news, and photography. Current files of newspapers and trade publications are maintained in the Journalism Reading Room; the University Library has an excellent collection of the literature of mass communications. The School of Journalism receives the regular newspaper teletypewriter monitor services of the Associated Press. Offices of the *Oregon Daily Emerald*, the University student newspaper, are located on the third floor of Allen Hall. The Eric W. Allen Seminar Room, furnished by contributions from friends and alumni of the school, is a center for meetings of journalism seminars and student groups.

The Oregon Newspaper Publishers Association and the Oregon Association of Broadcasters cooperate with the school and the University Placement Service in providing placement services for journalism graduates. The Oregon Scholastic Press also has its headquarters in Allen Hall.

Student Loan Funds. The interest from a \$15,000 endowment fund, bequeathed to the University by the late Mrs. C. S. Jackson, widow of the founder of the *Oregon Journal*, provides no-interest loans to men students majoring in journalism.

The Arthur and Marian Rudd Loan Fund, established by a gift to the school from an alumnus, provides no-interest loans to men or women students majoring in journalism.

A fund established by Zeta chapter of Gamma Alpha Chi, professional society for women in advertising, provides loans for women students majoring in journalism. A fund established and administered by the Oregon Press Women provides loans for senior women majoring in journalism.

Scholarships and Fellowships. A number of scholarships, ranging from \$1,200 to \$200, are available to journalism students. Details are available from the dean or the chairman of the school's scholarship committee.

A limited number of graduate teaching fellowships, carrying stipends of \$1,250 and \$2,500 are also available. Graduate teaching fellows also receive waivers of tuition in accordance with the regulations of the Graduate School. Details are available from the dean or the chairman of the school's graduate committee.

News-Editorial

J 224. **The Mass Media and Society. 3 credit hours.**

Recommended for prejournalism majors; open to nonmajors. Description and analysis of the various media of mass communication and their effects on society. Nelson, Hulteng.

J 250. **Journalistic Writing. 3 credit hours.**

Introduction to journalistic practices associated with gathering information, taking notes, interviewing, writing for various mass media audiences. Review of grammar, spelling, sentence structure, punctuation. Lectures and laboratories. Students must pass a typing proficiency exercise during the first laboratory session. Required for admission to School of Journalism with major standing; open to nonmajors. Rea, Halverson, and staff.

J 321. **Production for Publication. 3 credit hours.**

The production of news-editorial and advertising material into publications. Printing processes and machinery; typography and composition methods; technical aspects of letterpress printing and photo-engraving, photo-offset, gravure, and silk-screen process; paper, ink, and color. Metzler.

J 361. **Reporting I. 4 credit hours.**

Basic training in news-gathering. Extensive writing under time pressure, including a variety of assignments—straight news, features, interviews, speeches. Typing ability required. Lectures, conferences, laboratory. Prerequisite: J 250. Duncan, Halverson, Hulteng, Metzler, Rea.

J 371. **Newspaper Editing. 4 credit hours.**

Instruction and practice in copy-editing and headline-writing for the newspaper; emphasis on grammar and style. Instruction and practice in problems involved in evaluation, display, make-up and processing of written and pictorial news matter under time pressure. Lectures and laboratory. Prerequisite: J 361. Halverson, Rea.

J 401. **Research.**

Credit hours to be arranged.

J 403. **Thesis.**

Credit hours to be arranged.

J 405. **Reading and Conference.**

Credit hours to be arranged.

J 495. **Journalism and Contemporary Affairs. 3 credit hours.**

Examination of current problems in journalism; evaluation of governmental and other public policies affecting the mass media; trends in mass communications. Prerequisite: senior standing. Hulteng.

J 496. **Current Issues: Journalistic Approaches. 3 credit hours.**

Methods and techniques employed in dealing journalistically

with complex, controversial issues of the day. Each student will write one or more major interpretive articles (or a series) on selected topics following preparation through research, discussion, and interviewing. Concurrent examination of major public-affairs journals. Prerequisite: J 361, senior standing. Duncan.

Upper-Division Courses Carrying Graduate Credit

J 407. **Seminar. (G)**

Credit hours to be arranged.

Institutional Communications.

The Journalistic Interview.

Reporting of Urban Affairs.

Writing the Nonfiction Book.

Science Writing.

Reporting of Public Affairs.

J 421. **Newspaper Management. (G) 3 credit hours.**

Management problems of the newspaper; plant and equipment; personnel; administration and coordination of editorial, advertising; and mechanical departments; business office operations. Halverson.

J 424. **The Community Newspaper. (G) 3 credit hours.**

The weekly, semiweekly, and small daily newspaper in America: historical development and social role, past and present; problems of news and editorial policy peculiar to this distinctive form of journalism. Rea.

J 455. **Methods of Teaching Journalism. (G) 2-3 credit hours.**

The teacher's role in guiding student publications in secondary schools; methods of teaching of journalism. Sheetz.

J 462. **Reporting II. (G) 4 credit hours.**

Newspaper reporting of legislative and executive governmental bodies; political news and other special news areas; civil and criminal courts and appellate procedure. Prerequisite: J 361. Halverson, Rea.

J 468. **Magazine-Article Writing I. (G) 3 credit hours.**

Writing magazine feature articles; book and movie reviewing for the mass media; study of the problems of marketing magazine manuscripts. Prerequisite: J 250. Metzler, Nelson.

J 469. **Magazine-Article Writing II. (G) 3 credit hours.**

Writing and marketing magazine articles. Individual conferences. Prerequisite: J 468. Metzler, Nelson.

J 470. **Magazine Editing. (G) 4 credit hours.**

Survey and history of magazines; principles and problems of magazine editing; planning, content selection, manuscript revision, copy editing, caption and title writing; editorial responsibility. Lectures, exercises, and project; laboratory. Metzler, Nelson.

J 471. **Magazine Design and Production. (G) 3 credit hours.**

Role of the magazine editor in working with art directors in publication work. Survey of problems in designing covers, pages, and spreads for magazines; selecting type faces; using display typography and art to increase the effectiveness of the written word; preparing copy and art for publication. Consent of instructor is required. Nelson.

J 472. **Caricature and Graphic Humor. (G) 3 credit hours.**

Appreciation and criticism of cartoons and comics used in the mass media; discussion of historical aspects; reviewing cartoon

literature and collections; developing ideas for editorial cartoons, gag cartoons, comic strips and panels, illustrative cartoons. Drawing ability is useful but not vital to complete some of the assignments. Nelson.

J 485. Law of the Press. (G) 3 credit hours.

The constitutional guarantee of freedom of the press; principal Supreme Court decisions; legal status of the press as a private business and as a public utility; governmental activity toward improving the press; legal controls of publication; libel, right of privacy, copyright, contempt of court, censorship, and regulation of broadcasting. Rea.

J 487. History of Journalism. (G) 3 credit hours.

Study of the changing character of the mass media in the United States since colonial times. Emphasis on theories of the press and the relationship of the mass media to the society they have served. Halverson.

J 491. International Journalism. (G) 3 credit hours.

A survey of media of mass communication (press and broadcast systems) throughout the world: their structure, chief characteristics; historical background; differing fundamental concepts of their role and conflicting theories of control; international news services and foreign correspondence; major newspapers of the world; growth and attendant problems in the developing nations. Duncan.

J 494. Journalism and Public Opinion. (g) 3 credit hours.

The formation, reinforcement, and change of opinions. The role of major social and political institutions, with emphasis upon the mass media of communication. Lemert.

Graduate Courses

J 501. Research in Journalism.

Credit hours to be arranged. No-grade course.

J 503. Thesis.

Credit hours to be arranged. No-grade course.

J 505. Reading and Conference.

Credit hours to be arranged.

J 506. Terminal Projects.

Credit hours to be arranged.

J 507. Seminar.

Credit hours to be arranged.
Public Opinion Measurement.
Economics of the Newspaper.
Literature of Journalism.
History of Journalism.
Law of the Press.
Methodology of Communication.
Writing the Nonfiction Book.

J 514. Public Opinion and Propaganda. 3 credit hours.

Analysis of research literature, with emphasis upon finding analogues for research findings in decisions and choices made by mass media decision-makers. Research in attitude change processes, and source, message, channel, and receiver variables in the mass communication process. Lemert.

J 564. Editorial Writing. 3 credit hours.

Writing of analysis and opinion for the media of mass communication; examination of methods of formulating editorial policy; operation of editorial pages and editorial sections; trends in the use of opinion function. Hulteng.

J 589. Problems in International Journalism. 3 credit hours.

Individualized studies of current issues in press and broadcast media operations throughout the world. Prerequisite: J 491; graduate or advanced senior standing. Duncan.

Advertising and Public Relations

J 341. Principles of Advertising. 3 credit hours.

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

J 401. Research.

Credit hours to be arranged.

J 403. Thesis.

Credit hours to be arranged.

J 405. Reading and Conference.

Credit hours to be arranged.

J 459. Principles of Public Relations. 3 credit hours.

Theory and practice of public relations as viewed by business, government, and civic and public service organizations; study of mass media as publicity channels; role of the public relations practitioner; public relations departments and agencies. Open to nonmajors. Ewan, Wales.

Upper-Division Courses Carrying Graduate Credit

J 441. Media of Advertising: Print. (G) 3 credit hours.

Examination and evaluation of newspapers, magazines, outdoor, direct mail, and point-of-purchase displays as media for advertising; includes media buying procedures and philosophy, media research, media planning, and agency media department organization. Ewan, Wales, Winter.

J 442. Media of Advertising: Broadcast. (G) 3 credit hours.

Examination and evaluation of television and radio as media for advertising; includes media planning, broadcast rate structures, program and audience measurements, network and spot-buying procedures, applicable federal regulations and self-regulatory practices. Ewan, Nestvold.

J 444. Advertising Campaigns. (G) 4 credit hours.

Students have opportunity to cultivate judgment through consideration of actual marketing and merchandising problems, in the solution of which advertising may be a factor. Prerequisite: J 341, J 441, J 442, J 446, J 447; senior standing. Wales, Winter.

J 445. Advertising Agencies and Departments. (G) 3 credit hours.

Role of the advertising agency in the creation of advertising materials, marketing plans, and research; structure and function of the agency; client relations; merchandising; personnel; financial operations; legal problems. The company advertising department. Ewan, Wales.

J 446. Advertising Copy Writing. (G) 3 credit hours.

Theory and practice in writing advertising copy. Study of

style and structure, with emphasis on persuasive writing. Lectures and laboratory. Prerequisite: J 250, J 341. Ewan, Wales, Winter.

J 447. Advertising Layout. (G) 3 credit hours.

Instruction and practice in graphic design for advertising. Work with type and illustrations. Consideration given to all media. Prerequisite: J 341. Ewan, Nelson.

J 448. Advertising Research. (G) 3 credit hours.

Application of standard survey methodology and behavioral science techniques to the determination of the effectiveness of print and broadcast advertising. Emphasis on means of determining the accomplishment of stated communications objectives in terms of pre- and post-testing advertising copy and in terms of measuring media efficiency. Special attention is afforded secondary research sources. Prerequisite: J 341, consent of instructor. Winter.

J 449. Advertising and Society. (G) 3 credit hours.

Detailed discussion and reading in the socio-economics of advertising. Opportunity to survey the literature of advertising and treat the legal, ethical, and moral considerations incumbent in an advertising career. Prerequisite: senior or graduate standing, consent of instructor. Winter.

J 465. Public Relations Writing. (G) 3 credit hours.

Preparation of press conferences, press kits, and news releases; institutional advertising copy, executive speeches, dissemination of publicity material through the broadcasting media. Prerequisite: J 250, J 361, J 459. Ewan, Nelson.

J 483. Public Relations Problems. (G) 3 credit hours.

Use of research, decision processes, and program design in the solution of public-relations problems. Application of principles and techniques in the public relations programs of profit and nonprofit institutions. Role of the mass media of communication in such programs. Ethics of public relations. Prerequisite: J 459. Ewan, Wales.

Graduate Courses

J 501. Research in Journalism.

Credit hours to be arranged. No-grade course.

J 503. Thesis.

Credit hours to be arranged. No-grade course.

J 505. Reading and Conference.

Credit hours to be arranged.

J 506. Terminal Projects.

Credit hours to be arranged. No-grade course.

J 520. Public Relations Planning and Administration. 3 credit hours.

Intended for graduate students in business, education, public affairs, recreation management, etc., as well as journalism majors. Each student constructs a comprehensive public relations plan in his or her field of study. Course assumes no previous academic work in public relations. Ewan, Wales.

J 507. Seminar: Public Relations in Higher Education. 2-3 credit hours.

Theory and techniques in achieving appropriate relationships with the various publics of institutions of higher education through interpersonal and mass communications. Primarily designed for advanced degree candidates interested in college

and university communications. Open to nonmajors with instructor's consent. A no-grade course. Ewan.

J 546. Advertising Message Strategy. 3 credit hours.

Advanced theory and practice in concepts of advertising copy. Emphasis on the search for advertising ideas and their development into message strategy, visual and verbal, for a variety of advertising media. Lectures and laboratory develop variety in writing style for varied audiences. Prerequisite: J 446, J 447, or equivalent, consent of instructor. Crawford.

Broadcasting

J 401. Research.

Credit hours to be arranged.

J 403. Thesis.

Credit hours to be arranged.

J 405. Reading and Conference.

Credit hours to be arranged.

J 408. Workshop: Radio-Television News. (G) 3 credit hours.

Special problems and opportunities for gathering and reporting, editing and writing, production, and presentation of news for broadcast. Opportunities for media experience with campus radio and television facilities and with local commercial radio and television stations. Consent of instructor is required. Nestvold.

J 431. Radio-Television News I. 3 credit hours.

Gathering and writing news for broadcast media. Emphasis on broadcast style, basic aspects of radio-television news-writing, and radio-news operation. Lectures, individual conferences, and laboratory. Prerequisite: J 250. Nestvold.

BC 341. Radio-Television Workshop. 2 credit hours.

Broadcast performance techniques; physical, acoustic, and mechanical theory and its application; interpretative theory and its application.

BC 347. Radio-Television Script-Writing. 2 credit hours each term.

Radio and television writing techniques; theory and practice in the writing of all major continuity types. Prerequisite: junior standing.

Upper-Division Courses Carrying Graduate Credit

J 407. Seminar: Radio and Television Management. (G) 3 credit hours.

Basic problems of managing radio and television stations, including management attitudes toward audiences, programming, pressure groups, the FCC and its regulations, CATV. Social, economic, and legal responsibilities of a broadcasting operation. Consent of instructor is required. Bishop.

J 407. Seminar: Radio-Television Problems. (G) 3 credit hours.

Current problems, issues, and controversies in radio and television in the United States, including CATV, program origination, public-access channels; responsibility of broadcast news;

political broadcasting and government regulation; fairness doctrine and broadcast editorializing; diversity theory; ratings and research. Consent of instructor is required. Nestvold.

J 432. Radio-Television News II. (G) 3 credit hours.

Advanced aspects of the preparation, reporting, and broadcasting of radio-television news. Emphasis on television news-writing and reporting, the broadcast documentary, and radio-television news interviewing. Lectures and laboratory. Prerequisite: J 431. Nestvold.

BC 444. Television Production. (G) 3 credit hours.

The study of the processes by which ideas are transformed into visual language, through an analysis of various forms of visual representation. Prerequisite: BC 345, or equivalent.

BC 445. Television Direction. (G) 3 credit hours.

Theory and technique of television direction explored through group exercises and individual projects. Prerequisite: BC 345.

BC 446. Television Programming. (G) 3 credit hours.

Analysis of values, trends, and procedures in broadcast programming schedules; problems in planning program structure to meet community and public service needs.

Visual Communications: Photography and Film

J 335. Photographic Seeing. 3 credit hours.

Photographic imagery and visual communication. Basic principles of processing, content, and composition of photographs, including form and design. Lectures and laboratory, including review and criticism of student work.

J 336. Photojournalism. 3 credit hours.

Documentary and informational aspects of photography. Creation and editing of a photographic essay, trends in pictorial journalism.

J 401. Research.

Credit hours to be arranged.

J 403. Thesis.

Credit hours to be arranged.

J 405. Reading and Conference.

Credit hours to be arranged.

J 409. Practicum: Teaching Methods, Photography. 3 credit hours.

Active participation in teaching program under supervision in a laboratory situation. Consent of instructor is required. May be repeated for credit.

Upper-Division Courses Carrying Graduate Credit

J 407. Seminar. (G)

Credit hours to be arranged.

Photographic Perception.
Photography in the Print Media.
Advanced Photography.
Documentary Film.
Film: Editing.

Film: Making.

History of Photography.

Film and Reality: Survey of the Nonfiction Film.

Graduate Courses

J 501. Research.

Credit hours to be arranged. No-grade course.

J 503. Thesis.

Credit hours to be arranged. No-grade course.

J 505. Reading and Conference.

Credit hours to be arranged.

J 506. Terminal Projects.

Credit hours to be arranged. No-grade course.

J 507. Seminar.

Credit hours to be arranged.

Film: Making.

Visual Criticism: Film.

Visual Criticism: Photography.

Philosophy of Photography.

J 509. Practicum: Teaching Methods, Photography. 3 credit hours.

Preparation and leadership of criticism discussions in teaching program under supervision. Consent of instructor is required. May be repeated for credit.

Communication Research Graduate Courses

J 501. Research in Journalism.

Credit hours to be arranged. No-grade course.

J 503. Thesis.

Credit hours to be arranged. No-grade course.

J 505. Reading and Conference.

Credit hours to be arranged.

J 506. Terminal Projects.

Credit hours to be arranged. No-grade course.

J 507. Seminar.

Credit hours to be arranged.

Public Opinion Measurement.

J 512. Communication-Research Methods. 3 credit hours.

Selection of research problems; planning the study; field research methods; experimental research methods; content analysis; basic statistical analysis. Lemert.

J 513. Theories of Mass Communication. 3 credit hours.

The communication process; audiences of the mass media; media competition; attitudes of communicators; functions and dysfunctions of media activities. Lemert.

J 514. Public Opinion and Propaganda. 3 credit hours.

Analysis of research literature, with emphasis upon finding analogues for research findings in decisions and choices made by mass media decision-makers. Research in attitude change processes, and source, message, channel, and receiver variables in the mass-communication process. Lemert.

School of Law

Faculty

Dean, Eugene F. Scoles, J.S.D., Professor (conflict of laws, trusts and estates). A.B., 1943, J.D., 1945, Iowa (Coif); LL.M., Harvard, 1949; J.S.D., Columbia, 1955; at Oregon since 1968. Admitted to Iowa bar, 1945, Illinois bar, 1946.

Barbara Bader Aldave, J.D., Assistant Professor (constitutional law, partnerships and corporations, securities regulation). B.S., Stanford, 1960; J.D., University of California, Berkeley, (Coif) 1966; at Oregon since 1970. (On leave of absence, 1973-74.) Oregon bar, 1966.

Frank J. Barry, LL.B., Professor (administrative law, criminal law and procedure, environmental quality, Indian law, natural resources, property). A.B., University of California, Los Angeles, 1934; LL.B., Loyola University, Los Angeles, 1941; at Oregon since 1969. Arizona bar, 1946.

Wendell M. Basye, LL.B., Professor (business planning and advanced taxation, estate planning and succession taxes, federal income tax, partnerships and corporations). A.B., Nebraska, 1941; LL.B., Virginia, 1947; at Oregon since 1957. West Virginia bar, 1948.

Donald W. Brodie, LL.B., Associate Professor (administrative law, family law, labor law, legislation). B.A., Washington, 1958; LL.B., New York University, 1961; at Oregon since 1967. Washington bar, 1961.

Mildred Carmack, J.D., Assistant Professor (advanced appellate advocacy, criminal law clinic, moot court workshop, partnerships and corporations). B.A., 1967, J.D., 1969, Oregon (Coif); at Oregon since 1973. Oregon bar, 1969.

Ronald L. Cherry, LL.B., M.L.L., Associate Professor and Law Librarian (legal bibliography). B.A., 1959, LL.B., 1961, Iowa; M.L.L., Washington, 1967; at Oregon since 1969. Iowa bar, 1961.

Chapin D. Clark, LL.M., Professor (water resources law, legal professions, property). A.B., 1952, LL.B., 1954, Kansas; LL.M., Columbia, 1959; at Oregon since 1962. Kansas bar, 1954, Oregon bar, 1965.

Anthony A. D'Amato, J.D., Visiting Professor (international institutions, jurisprudence). A.B., Cornell, 1958; J.D., Harvard, 1961; Ph.D., Columbia, 1968; Visiting at Oregon Spring Semester, 1974. New York bar, 1963.

George L. Dawson, J.D., Assistant Professor and Assistant Dean (commercial law, trusts and estates). A.B., Princeton, 1966; J.D., University of Chicago, 1969; at Oregon since 1970. Colorado bar, 1970.

David B. Frohnmayer, J.D., Associate Professor (jurisprudence, legislative and administrative process, torts). B.A., Harvard, 1962; B.A., 1964, M.A., 1971, Oxford; J.D., University of California, Berkeley, (Coif) 1967; at Oregon since 1970. California bar, 1967, Oregon bar, 1971.

Orlando John Hollis, J.D., Distinguished Professor (civil procedure, legal profession, trial practice). B.S., 1926, J.D., 1928, Oregon; at Oregon since 1931. Acting President, University of Oregon, 1944-45, Dean, School of Law, 1945-1967. Oregon bar, 1928.

Jon L. Jacobson, J.D., Associate Professor (contracts, international law, ocean resources). B.A., 1961, J.D., 1963, Iowa (Coif); at Oregon since 1968. California bar, 1964.

Frank R. Lacy, J.S.D., Professor (civil procedure, creditors rights, evidence, Oregon practice and procedure, restitution). A.B., Harvard, 1946; J.D., Iowa, (Coif) 1948; LL.M., 1958, J.S.D., 1971, New York University; at Oregon since 1957. Iowa bar, 1948, Oregon bar, 1949.

Hans A. Linde, J.D., Professor (administrative law, constitutional law, legislative and administrative process). B.A., Reed, 1947; J.D., University of California, Berkeley, 1950 (Coif); at Oregon 1954, and since 1959. Oregon bar, 1951.

Fredric R. Merrill, J.D., Associate Professor and Assistant Dean (civil procedure, criminal law clinic, federal courts). B.A., 1959, J.D., 1961, Michigan; at Oregon since 1970. Oregon bar, 1962.

Ralph James Mooney, J.D., Assistant Professor (commercial law, contracts). B.A., Harvard, 1965; J.D., Michigan, (Coif) 1968; at Oregon since 1972. California bar, 1968.

George M. Platt, LL.B., Professor (criminal law and procedure, secured land transactions, land-use law, urban development problems). B.S., 1948, LL.B., 1956, Illinois; at Oregon since 1966. Illinois bar, 1956.

Milton L. Ray, J.D., Professor (business planning and advanced taxation, estate planning and succession taxes, accounting, federal income tax, legal issues in taxation). B.A., Rochester, 1947; J.D., University of Chicago, (Coif) 1950; at Oregon since 1971. Illinois bar, 1950, California bar, 1964. CPA (Oregon).

Alfred P. Rubin, J.D., Professor (antitrust law, contracts, international business transactions, international law). B.A., 1952, J.D., 1957, Columbia; M.Litt., Cambridge, 1963; at Oregon since 1967. (On leave of absence, 1973-74.) New York bar, 1960.

John W. Strong, LL.B., Professor and Associate Dean (evidence, Law Review, property, secured land transactions). A.B., Yale, 1957; LL.B., Illinois (Coif) 1962; at Oregon since 1969, Illinois bar, 1963.

Peter N. Swan, LL.B., Professor (admiralty, conflict of laws, law and social science, torts). B.S., 1958, LL.B., 1961, Stanford; at Oregon since 1970. California bar, 1962, United States Supreme Court bar, 1967.

Herbert W. Titus, LL.B., Professor (administration of criminal justice, constitutional law, criminal law and procedure). B.A., Oregon, 1959; LL.B., Harvard, 1962; at Oregon since 1966. Oregon bar, 1962.

Dominick R. Vetri, J.D., Associate Professor (civil practice clinic, federal courts, torts). B.S.M.E., Newark College of Engineering, 1960; J.D., Pennsylvania, (Coif) 1964; at Oregon since 1967. New Jersey bar, 1965.

THE University of Oregon School of Law, established in 1884 in Portland, was moved to Eugene in 1915 and reorganized as a regular division of the University. The School of Law was admitted to the Association of American Law Schools in 1919, and the standards of the school were approved by the American Bar Association in 1923.

The Law Library has shelf space for 120,000 books and is designed

to permit expansion. Spacious reading rooms and numerous individual study carrels are available for student use. The holdings of the Law Library exceed 77,000 volumes, including complete case reports of the National Reporter System, complete state reports from colonial times to the establishment of the Reporter System, a substantial collection of English and Canadian case law, codes and compilations of state and federal statute law, and standard legal digests and encyclopedias. The periodical collection includes approximately 366 legal journals. An excellent collection of publications relating to Oregon territorial and state law includes an extensive file of Oregon Supreme Court briefs.

The three-story Law Center building, which was completed in September, 1970, houses the School of Law. The Law Center will accommodate 500 students and thirty faculty members. Modern classrooms, seminar rooms, a mock law office (with videotape facilities for use in teaching interviewing and negotiating skills), and a courtroom are provided and the student facilities include a student bar association office, lounge, typing room, locker room, and offices for the editorial board of the *Oregon Law Review*.

Degrees and Curriculum

The School of Law offers a professional curriculum leading to the Doctor of Jurisprudence degree.

Students who have met the requirements for admission to the School of Law, who have completed courses in law aggregating 82 semester hours of satisfactory credit, and who have otherwise satisfied the requirements of the University and the School of Law, will be granted the degree of Doctor of Jurisprudence (J.D.), provided that they: (1) obtain (at least two years before completing work for the J.D. degree) the Bachelor of Arts, Bachelor of Science, or an equivalent degree from this University or some other institution of recognized collegiate rank; (2) have been a full-time student for at least 90 weeks or the equivalent; (3) comply with such other requirements as may from time to time be imposed.

A total of three years of full-time resident professional study in the University of Oregon School of Law or another law school of recognized standing is required for the J.D. degree. Except in unusual circumstances, the last two years must be in residence at the University of Oregon School of Law.

The curriculum of the School of Law provides a thorough preparation for the practice of law in any state. The School of Law seeks to have the student acquire knowledge not only of legal doctrine, but also of the judicial process and of the social, economic, and political problems with which lawyers must deal. The method of instruction requires an intensive exercise of analytical skills.

Because the curriculum is arranged to present the fundamental topics of the law during the first year, the first-year program is prescribed. In order to stimulate involvement in classroom discussion, every effort is made to assure first-year students of at least one class with an enrollment limit of twenty-five students.

All second- and third-year courses are elective except The Legal Profession (L 549), which is required. Counseling and information are available to assist students in selecting those courses most closely related to their professional goals. The scope of the curriculum has been progressively enriched in recent years by the addition of courses, seminars, and research and writing programs which explore the role of law in new areas of social and economic importance, and which stress a close student-faculty relationship.

A clinical-experience program is also available to second- and third-year students.

Substantial participation in classroom discussion is an essential factor in legal education. Credit for any course may be denied for irregular attendance. Classes are regularly scheduled Monday through Friday and some classes may be scheduled on Saturday. The School of Law does not offer an evening program.

Research and Writing Requirements. During the second year of study in the School of Law, each student must complete a writing assignment designed to improve legal writing skills and the ability to critically analyze legal problems. This assignment must be completed before a student may begin the third year of study in the School of Law.

During the third year of study in the School of Law, each student must complete a research and writing assignment designed to test analytical and creative ability to consider and develop solutions in depth for one or more legal problems. This assignment must be completed before a student will be granted a professional law degree.

Students may satisfy the foregoing requirements by electing from the following alternatives: (1) Seminar: Advanced Appellate Advocacy. (Satisfies second-year requirement only.) (2) Any faculty-supervised writing assignment whether or not undertaken in connection with a course or seminar. (Satisfies second-year requirement only.) (3) Any faculty-supervised research paper whether or not undertaken in connection with a course or seminar. (Satisfies either requirement.)

Summer Session. The School of Law offers an eight-week summer session which is open to law students who have completed at least one year of law work and who are in good standing at an accredited law school. Students may earn up to eight semester hours of law-school credit. **Summer session is not open to beginning law students.**

Students not currently enrolled at the University of Oregon School of Law do not become degree candidates at the School of Law by attending summer session, but remain candidates at the law school in which they are currently enrolled.

Direct inquiries concerning summer session courses of instruction and admission to the Director, School of Law Summer Session.

Programs and Activities

The *Oregon Law Review* has been in continuous publication since 1921, and enjoys a reputation for sound scholarship. Preparation of each issue is the responsibility of the student editorial staff, with assistance from a faculty editorial adviser. The *Review* not only serves the legal profession, but also provides students with a stimulus to legal research and productive scholarship.

Moot Court. The School of Law participates in the National Moot Court Competition. Two teams are entered each year; their efforts are supervised by a student Moot Court Board and a faculty adviser. In addition, a moot court tournament is conducted in the school through the Advanced Appellate Advocacy seminar, and most first-year students receive moot court experience.

The School of Law also participates in the National Mock Law Office Competition. This competition involves an interview with a "client" and the preparation of a memorandum concerning the case. Competitors are judged on interviewing techniques, legal analysis, and preparation of the memorandum.

The School of Law also takes part in the International Law Moot Court Competition.

Oral Case Analysis Contest. The Lane County Bar Association Oral Case Analysis Contest offers law students an opportunity to discuss a recent case or a legal topic of interest with an audience composed entirely of lawyers. Any registered law student may enter the contest, and each year the Lane County Bar Association offers cash prizes to the students judged to have made the best presentations at the weekly luncheon meetings of the bar association.

Clinical Experience Program. Students in the School of Law have an opportunity to participate in a variety of clinical experience programs. The civil practice program centers on the legal aid organization operated by the Lane County Legal Aid Service, Inc. The focus of the program is on law office skills: interviewing, negotiating, and case strategy. The School of Law offers two programs in the criminal law area: in one, students work on federal habeas corpus and other legal problems with inmates of Oregon prisons; in the other, students work in the Lane County district attorney's office, and appear in court as prosecutors for certain types of cases. All clinical experience programs are under the direct and continuous supervision of School of Law faculty members and include a strong academic component.

Students in the clinical programs are able to make court appearances under the Third-Year Student Practice Rule which has been adopted by the Oregon Supreme Court.

Student Bar Association. The Student Bar Association represents the student body of the School of Law in matters of particular concern to students. Through such means as representation on student-faculty committees, the Student Bar Association participates in the development of law school policy. In addition, the Student Bar Association meets the needs of a diverse student body by sponsoring a spectrum of activities ranging from intramural athletics to a law-student newspaper.

Organizations. There are a number of extracurricular student organizations at the School of Law, including chapters of the Law Students Civil Rights Research Council, the American Civil Liberties Union, the International Law Society, Women's Law Forum, Phi Alpha Delta, and Phi Delta Phi.

Order of the Coif. The Order of the Coif, the national law school honor society, maintains a chapter at the University of Oregon School of Law. The Order of the Coif encourages high scholarship and advances the ethical standards of the legal profession. Members are selected by the faculty from among those students in each third-year class who rank in the highest ten per cent of the class in scholarship. Character, as well as scholarship, is considered in selecting members.

Placement. The School of Law maintains its own placement service. Employers interested in hiring graduating students for permanent positions or first- and second-year students for summer clerkships consult the Placement Office. Students are informed of job opportunities and the Placement Office arranges for many employers to come to the School of Law to conduct interviews. The School of Law Placement Office also solicits job inquiries from employers, provides assistance in the preparation of personal resumé's, and offers advice on meeting prospective employers and interviewing.

Admission

The School of Law does not prescribe any particular form of prelegal education. Intellectual maturity and breadth of educa-

tional background are considered more important than particular subject matter.

In general, the Committee on Admissions prefers a liberal undergraduate background to one which is narrowly specialized, and a thorough training in some broad cultural field such as history, economics, government, literature, or classics is usually favored. In addition, the School of Law emphasizes the importance of well-developed writing skills. Concentration in courses given primarily as vocational training ordinarily reduces a student's chances for admission.

Applicants will also be expected to have undertaken an academically challenging course of study. In addition, students with a large number of ungraded or pass-undifferentiated hours are at a distinct disadvantage with regard to selection for admission to the School of Law.

Basic Admission Requirements. Applicants must have a baccalaureate degree from an accredited college or university prior to enrolling in the School of Law. Because of the large volume of applications for admission to the School of Law in recent years—approximately 1,700 students applied for the 165 openings for the fall of 1973—and because of enrollment restrictions, only those applicants who, in terms of their overall records, appear to be most qualified for legal studies can be admitted. Although the admissions requirements of the School of Law are flexible and factors such as grade trends, quality of undergraduate education, military and work experience, maturity, extracurricular activities, personal statements, and letters of reference are considered, experience indicates that it is extremely unlikely that a candidate with a score of less than 600 on the Law School Admission Test and an undergraduate grade average of less than 3.00 on a four-point scale will have a reasonable chance for admission, unless one of these two figures is sufficiently high to compensate for the other. Since the number of students who can be accepted is limited, admissions are competitive, and the fact that an applicant may meet the above standards is no guarantee of admission.

Applications from Disadvantaged Groups. The School of Law, which was the host school for the 1972 Northwest Regional Council on Legal Education Opportunity Summer Institute, welcomes applications from persons from economically and culturally disadvantaged backgrounds. It participates with such organizations as the Council on Legal Education Opportunity and the American Indian Law Center to increase the representation of persons from economically and culturally disadvantaged backgrounds in law school and in the legal profession. For further information, direct inquiries to the School of Law Office of Admissions.

Admissions Correspondence. Specific inquiries, applications, fees, Law School Data Assembly Service reports, transcripts, and all supporting documents should be forwarded to the school of Law, University of Oregon, Eugene, Oregon 97403. Unless the applicant specifies the SCHOOL OF LAW, documents may be sent to the central University Admissions Office, seriously delaying action on the application.

Application. Applications and supporting documents should be filed with the School of Law after October 1 of the academic year preceding that for which admission is sought; applications are not accepted before that date. The Committee on Admissions begins acting on completed applications during January, although most applicants are not notified of a decision until after March 1. Applications, together with all supporting documents, must be filed with the School of Law before March 15 in order to be considered.

Application Fee. Application must be accompanied by a check

for \$10.00 payable to the University of Oregon, unless the applicant has been registered previously for a regular session at the University. Students who have registered previously at the University for a regular session need not submit an application fee. An applicant who has been admitted previously but did not register at the University must submit the \$10.00 application fee with the reapplication. This fee is neither refunded nor credited toward tuition and fees, regardless of the disposition of the application.

Law School Admission Test. Applicants must take the Law School Admission Test and have an official report of the test scores sent to the School of Law through the Law School Data Assembly Service. Inquiries concerning the dates, places, and fee for the Law School Admission Test should be sent directly to the Educational Testing Service, Box 944, Princeton, New Jersey 08540. The Committee on Admissions will not act on an application until the official report of the test scores has been received.

Applicants who have not previously taken the Law School Admission Test should plan to take it in either October or December of the academic year preceding that for which admission is sought. In any event, an applicant must take the test no later than February of the academic year preceding that for which admission is sought in order to receive consideration for admission. Law School Admission Test results are normally considered to be valid for a period of four years.

Law School Data Assembly Service: Transcripts. The Committee on Admissions cannot act on an application until transcripts are furnished to the School of Law showing academic work completed at each undergraduate, graduate, or professional school attended. In order for an applicant to be considered for admission, these transcripts must show completion of at least three years of undergraduate work.

The School of Law participates in the Law School Data Assembly Service. TRANSCRIPTS SHOULD BE SENT TO THE LAW SCHOOL DATA ASSEMBLY SERVICE FOR FORWARDING AND NOT MAILED DIRECTLY TO THE SCHOOL OF LAW. For further information concerning the Law School Data Assembly Service, applicants should direct inquiries to the Educational Testing Service, Box 944, Princeton, New Jersey 08540.

Applicants who have applied for admission to the School of Law in prior years must have a new Law School Data Assembly Service report forwarded to the School of Law at the time of reapplication, even though prior applications may have been accompanied by transcripts or earlier Law School Data Assembly Service reports.

Transcripts forwarded to the School of Law by the Law School Data Assembly Service are not official. Therefore, after receiving notice of admission, applicants must submit to the School of Law official transcripts showing receipt of a baccalaureate degree before they will be permitted to enroll.

If the applicant is currently enrolled in an undergraduate school, favorable action by the Committee on Admissions will be a conditional admission. Final admission cannot be granted until transcripts are furnished to the Committee on Admissions showing that a baccalaureate degree has been conferred.

Personal Interviews. Although members of the law faculty are willing to discuss legal education at the School of Law with prospective applicants, personal interviews are neither required nor encouraged as part of the admission process.

Advance Registration Deposit. Upon receiving notice of admission, an applicant must make a nonrefundable deposit of \$75.00 to be credited toward tuition and fees for the fall semester.

Validity of Admission. An admission to the School of Law is valid only for the fall semester stated in the notice of admission. An admitted applicant, except an applicant who is prevented from registering because of required military or alternative service, who does not register in the School of Law for that semester must reapply by filing a formal application to be admitted for a subsequent fall semester. A student who reapplies is considered with other students who are applying for the subsequent fall semester, so that admission for a prior year does not assure admission for a subsequent year.

An admitted applicant who is prevented, because of required military or alternative service, from registering in the fall semester stated in the notice of admission will be readmitted without being considered with other students who are applying in a subsequent year, provided: (1) the applicant notifies the School of Law prior to the time of registration for the fall semester stated in the notice of admission of such required military or alternative service and furnishes documents or other evidence substantiating the requirement of service; (2) the applicant seeks readmission at the earliest possible opportunity after completion of the period of required service; and, (3) the applicant files a formal application for readmission and, where applicable, furnishes transcripts of any undergraduate, graduate, or professional school coursework taken during the period of required service.

Time of Enrollment. First-year students may begin studies at the School of Law only at the beginning of the fall semester of each academic year. No part-time program is offered by the School of Law.

Photographs. University of Oregon Student Identification cards include a photograph which is taken at the time that a student initially registers for classes. Applicants to the School of Law are not required to submit a photograph at the time of application but, in the case of students who are admitted and register, duplicates of the photographs taken for Student Identification cards will be retained as a part of the records of the School of Law.

Previous Law School Study. An applicant who has attended another law school must have the dean of that law school send a letter to the Committee on Admissions stating that the applicant is in good standing and eligible to return to that school without condition. This statement is required even if the applicant does not seek advanced standing.

Transferred Credit. An applicant may transfer, except in unusual cases, no more than one year of credit earned in another law school of recognized standing, if, at the time the student was admitted to the law school from which credit is to be transferred, the admission requirements then existing at the School of Law could also have been met. In exceptional cases only, an applicant may be permitted to transfer not to exceed two years of credit. The right to reject any and all such credit is reserved.

Application for transfer by an applicant who has attended another law school will not be considered unless: (1) the school from which transfer is sought is on the list of schools approved by the American Bar Association and is a member of the Association of American Law Schools; (2) the applicant is eligible to return in good standing to the school previously attended; and (3) the applicant's progress toward the degree is satisfactory to the School of Law. Transferred credit will be accepted, however, only if the applicant's professional law school record is of high quality. As a general rule, few transfer students are admitted.

The Committee on Admissions cannot act on an application from an applicant seeking to transfer credit earned at another law school until transcripts showing all work for which credit is sought

are filed with the committee. Transfer applicants are not required to forward transcripts to the School of Law through the Law School Data Assembly Service. Two transcripts of prelegal coursework at each undergraduate, graduate, or professional school attended and two transcripts of all law school coursework should be sent directly to the SCHOOL OF LAW, University of Oregon, Eugene, Oregon 97403. In addition, transfer applicants should have Law School Admission Test scores forwarded to the School of Law by Educational Testing Service.

Health Requirements for Admission. All students are required to present records of a physical examination, a tuberculin test, and diphtheria-tetanus immunization.

Costs and Student Financial Aid

Law students, whether residents of Oregon or not, who hold a baccalaureate degree from an accredited college or university are classified as graduate students and paid fees totaling \$754.50 for the 1972-73 academic year. Fee schedules are subject to revision.

Regular fees are payable in full at the time of registration. Payment of the stipulated fees entitles all students enrolled for academic credit (undergraduate and graduate, full-time and part-time) to all services maintained by the University for the benefit of students. These services include: use of the University Library; use of laboratory and course equipment and materials in connection with courses for which the student is registered; medical attention at the Student Health Center; use of gymnasium equipment (including gymnasium suits and laundry service); a subscription to the student newspaper, *The Oregon Daily Emerald*; admission to concert and lecture series sponsored by the University. No reduction in fees is made to students who may not wish to use these services.

Deposits and Application Fee. All persons who enroll for academic credit (except staff members) must make a deposit of \$25.00, payable once each year at the time of first registration. This is required to protect the University against loss or damage of institutional property, library books, and against failure to pay promptly nominal fines and assessments, such as library fines, campus traffic fines, and Student Health Center charges. If at any time charges against this deposit become excessive, the student may be called upon to re-establish the original amount. The deposit, less any deductions which may have been made, is refunded about six weeks following the close of the academic year.

The School of Law application fee is \$10.00. The advance-registration deposit is \$75.00.

Student Aid Funds. Limited assistance is available through emergency loans to help students meet short-term University-related expenses for a period of not more than ninety days. The maximum assistance covers tuition and other fees. Inquiries concerning emergency short-term loans should be directed to the University of Oregon Business Office, Eugene, Oregon 97403.

National Direct Student Loans. Under the National Defense Education Act of 1958, long-term postgraduate repayment loans are available to qualified students. The amount of the award is determined by individual need, but will not exceed \$1,000 for an academic year. Repayment begins ten months after termination of full-time enrollment. Three per cent interest is charged.

Guaranteed Student Loans. Banks and other lenders provide low-cost long-term loans to students through a system of reserve funds held by state agencies or by private nonprofit agencies for

the guarantee of such loans against loss by the lender. The interest rate on these loans is seven per cent. Borrowers who qualify may apply to have the interest paid by the federal government until principal repayment begins.

Inquiries about financial assistance through loans, and application for loans should be directed to the University of Oregon Office of Student Financial Aid, Eugene, Oregon 97403.

College Work-Study Program. A limited amount of federal funds are provided to the University under the College Work-Study Program to promote part-time employment for students from low-income families who need earnings from such employment to continue their education. Direct inquiries to the University of Oregon Office of Student Financial Aid, Eugene, Oregon 97403.

Student Employment. Many students earn a large part of their expenses by work in the summers and during the academic year. The University offers assistance to those seeking part-time and vacation jobs through its Student Employment Service; most employment opportunities depend upon personal interviews after the student arrives on campus. Please see, also, School of Law Placement Service.

Lane County Lawyers' Wives Association Emergency Loan Fund. A fund established by gifts from the Lane County Lawyers' Wives Association and administered by the School of Law to provide short-term loans to students who encounter unforeseen, emergency expenses during a period of enrollment in the School of Law. The amount of loan assistance available is limited.

Scholarships and Fellowships

When funds are available, limited stipends are granted to advanced law students to support research on particular projects.

American College of Trial Lawyers Scholarship. A \$500 scholarship is provided annually by the Oregon members of the American College of Trial Lawyers for a law student who shows promise of becoming a competent advocate after admission to the bar.

James D. Barnett Scholarships. One or more scholarships are awarded annually by the faculty of the School of Law to needy and worthy students. The scholarships are supported through the income of an endowment fund, established by Mrs. Winifred Barnett Allendoerfer and Professor Carl Allendoerfer, in memory of Dr. James D. Barnett, member of the University faculty from 1908 until his death in 1957.

Henry E. Collier Law Scholarships. Several scholarships are awarded annually on the basis of financial need and good moral character to worthy students in the School of Law who intend to make the practice of law their life work. No recipient may be awarded more than \$500 in any one year. The scholarships are supported by the income of a \$50,000 trust fund established under the will of the late Henry E. Collier, Portland attorney.

Lorienne Conlee Fowler Law Scholarship. The Lorienne Conlee Fowler Scholarship is awarded on the basis of need and scholastic record to a student in the School of Law. The award consists of the income of a \$5,000 trust fund established by Dr. Frank E. Fowler, in memory of his wife, Mrs. Lorienne Conlee Fowler.

Herbert B. Galton Scholarship. A \$300 scholarship, for use during the third year in the School of Law, is provided annually by Herbert B. Galton, a Portland attorney and a member of the Class of 1938, to be awarded to a second-year student on the basis of interest in the field of labor law or problems of employed persons, as demonstrated by writings.

Charles G. Howard Law Scholarships. Several scholarships of varying amounts are awarded annually to students in the School of Law on the basis of satisfactory academic progress, financial need, and the applicant's effort to solve his or her own financial problems. The scholarships are supported through a trust fund established by members of Phi Alpha Delta legal fraternity and are named in honor of the late Charles G. Howard, professor emeritus of law, and a member of the faculty of the School of Law from 1928 to 1971.

Jackson Scholarship. The trustees of the Jackson Foundation, a trust established by the late Maria C. Jackson, widow of C. S. Jackson, the founder of the *Oregon Journal*, offer annually a substantial scholarship to a needy law student of high ability who is a graduate of a secondary school in Oregon. Other things being equal, preference is given to a child of any present or former employee of the *Oregon Journal*. The recipient is nominated by the School of Law faculty.

James T. Landye Scholarships. One or more scholarships are awarded annually by the faculty of the School of Law to scholastically superior students who are in need of financial assistance. The scholarships are financed through the income from a fund contributed by the friends of the late James T. Landye, a Portland lawyer and a member of the Class of 1934.

Law School Alumni Scholarships. Several tuition scholarships are awarded by the Law School Alumni Association to members of the entering class of the School of Law on the basis of financial need and academic achievement. The latter criterion requires an outstanding prelegal academic record based on information available to the Committee on Admissions at the time of conditional or final admission. The recipients of these scholarships are selected by the president of the association and the dean of the school. Applicants eligible for consideration for one of these scholarships will be provided an application form with their conditional or final notice of admission to the School of Law.

Kathryn Fenning Owens Memorial Fund. One or more scholarships are awarded annually by the School of Law to superior students who are in need of financial assistance. The scholarships are financed from a fund established by the parents of Kathryn Fenning Owens, whose untimely death occurred shortly before she was to enroll in the School of Law.

Paul Patterson Memorial Fellowship. A fellowship of approximately \$1,000 is awarded annually to a student completing the second year in the School of Law who best exemplifies the high qualities of integrity, leadership, and dedication to public service which characterized the late governor of Oregon, Paul L. Patterson, Class of 1926. The fellowship is financed from the income of a fund supported by gifts from alumni and friends of the University.

School of Law Scholarships. A number of scholarships of varying amounts are awarded annually by the School of Law to students who demonstrate academic achievement and financial need. The scholarships are financed through gifts from alumni and friends of the School of Law.

Women's Association of the Multnomah County Bar Scholarships. Annual scholarships of \$500 are provided on the basis of financial need and academic achievement each year by the Women's Association of the Multnomah County Bar for award to third-year law students enrolled in law schools in Oregon.

Academic Calendar for Students of Law

Beginning in the 1973-74 academic year, the School of Law will convert to an early semester calendar. Under this calendar, registration for fall semester, 1973, will take place on August 23 and 24, classes will begin August 27, fall semester examinations will be given before Christmas vacation, and the spring semester will end in mid-May, 1974. For additional information concerning calendar dates, consult the School of Law.

General Education Courses

L 430. Law, Its Processes and Functions. (g) 3 credit hours.

An introduction to the legal system for nonlaw students. Law is presented not as a body of rules, but as a humanistic and liberal subject. Various sources, both legal and nonlegal, are used to demonstrate how the legal system operates and what its main social functions are. The course does not focus on any particular subject matter, but presents an overview of the legal system with an emphasis upon those features common throughout the system.

L 504. Law Courses for Nonlaw Students.

Credit hours to be determined. Open-ended course number under which semester credit may be corrected to term credit on the transcripts of nonlaw students who take School of Law courses (500 series) on a semester basis.

Required First-Year Courses

L 507. Freshman Seminar Elective. 2 credit hours spring semester.

A variety of seminar offerings from which first year students may select one; varied substantive law coverage, but Oral Advocacy and Brief Writing will be available each year; legal research and writing in a form appropriate to the particular seminar will be emphasized.

L 511, 512. Contracts. 3 credit hours each semester, fall and spring.

The formation of simple contracts; consideration and other formalities; performance and breach; remedies, including specific performance; third-party beneficiary contracts; assignments; problems of agency; illegality; sales of goods under Article 2 of the Uniform Commercial Code.

L 513, 514. Torts. 3 credit hours fall semester, 2 credit hours spring semester.

Liability for intentional and negligently caused injuries to person and property; strict liability; vicarious liability; ultrahazardous activities; nuisance; invasions of privacy; the impact of insurance and risk distribution upon liability; accident compensation plans; defenses and immunities; damages, including economic losses.

L 515. Civil Procedure. 4 credit hours fall semester.

A survey of state and federal court organization and jurisdiction and of systems of civil procedure, intended to identify the goals and methods of litigation, enhance comprehension of substantive law, and provide a foundation for advanced procedure courses.

L 516. Legislative and Administrative Processes. 2 credit hours fall semester.

An introduction to the nature of and distinctions between the development and the application of law; the interrelationship of legislative, executive and judicial powers; legislative considerations may also include the committee system, regulation of lobbying, and appropriations; the concept of delegation of authority; legislative and administrative processes in adjudicated cases as opposed to the managerial execution of governmental policy.

L 517. Property. 4 credit hours spring semester.

An introduction to the common law classification of estates in land; forms of concurrent ownership; landlord and tenant; transfers of interests in real property, including legal descriptions and recording systems; title insurance; incorporeal interests in land, easements, and covenants.

L 518. Criminal Law and Procedure. 4 credit hours spring semester.

The administration of criminal law as a technique of social order, with primary emphasis on constitutional, statutory, and other limitations on criminal law enforcement; the definition of crimes, with primary emphasis on the sources of definitions, the elements of specific crimes, the limitations on culpability, and the resulting impact of these factors on criminal law enforcement.

L 519. Legal Bibliography. 1 credit hour fall semester.

A study of the judicial, legislative, and administrative sources of Anglo-American law and of approaches to these sources through indexes, digests, tables, citators, and special services; an introduction to the techniques of legal research.

L 520. Legal Reasoning. 1 credit hour fall semester.

A methods course designed to accelerate understanding of the case method of instruction; personal property materials are utilized to illustrate reasoning by analogy and related skills, and to provide an opportunity for supervision by the instructor of the briefing of cases and the writing of practice examinations; offered in small sections.

L 521. Legal Writing. 1 credit hour fall semester.

A course in which students undertake first-year legal writing assignments under the direct supervision of faculty members; offered in small sections.

Second- and Third-Year Courses

Note: All second- and third-year courses are elective except L 549, which is required.

L 535. Secured Land Transactions. 3 credit hours.

An analysis and comparison of such land financing devices as mortgages, trust deeds, and land sale contracts; default and remedies; the development of conceptual and functional aspects of secured land transactions in the context of such modern land development devices as land subdivision and shopping centers.

L 536. Commercial Law. 4 credit hours.

The study of commercial and consumer transactions involving the use of negotiable instruments, letters of credit, documents of title, personal property security interests, or a combination of these; coverage of Articles 3, 4, 5, 7 and 9 of the Uniform Commercial Code, as well as related provisions of the federal Bankruptcy Act.

L 537. Trusts and Estates I. 3 credit hours.

Intestate succession; execution and construction of wills; creation of trusts; fiduciary administration of decedents' estates and trusts.

L 538. Trusts and Estates II. 2 credit hours.

An examination of the validity and effect of gratuitous dispositions of assets in which enjoyment is postponed or restricted, including questions and rules of construction, powers of appointment, the rule against perpetuities, and related restrictions. Prerequisite: L 537.

L 541, 542. Partnerships and Corporations. 3 or 4 credit hours each semester.

Offered in two sections: L 541 is a survey course carrying four credit hours in one semester; L 541, 542 is a six-credit hour sequence, carrying three credit hours for two semesters, for students who want an intensive study of the law of business organizations.

L 541 includes: a comparative study of partnerships, corporations, and other business associations; launching the enterprise and transactions prior to formation; management, control, and transfer of control in a going concern; managers' benefits and risks; asset distributions to members; reorganization of a solvent enterprise; solvent dissolution. Not open to students who have completed one semester or two semesters of L 541, 542.

L 541, 542, fall semester: selection of the form of business enterprise; employment of agents; formation and operation of a partnership; organization of a corporation; liability for corporate obligations; distribution of corporate powers between shareholders and management; special problems of the close corporation. Spring semester: duties of directors and controlling shareholders; development of federal corporation law; shareholders suits; issuance of securities; dividends and other corporate distributions; mergers and recapitalizations. Students must complete the fall-semester course before enrolling in the spring-semester course. Not open to students who have completed the single semester course, L 541.

L 543, 544. Constitutional Law. 3 or 4 credit hours each semester.

Offered in two sections: L 543 is a survey course carrying four credits hours in one semester; L 543, 544 is a six-credit hour sequence, carrying three credit hours for two semesters, for students who want an intensive study of constitutional law. L 543 covers the Federal System under the Constitution of the United States: the allocation of power between the federal and the state and local governments, and the separation of power among the three branches of the federal government, with emphasis on judicial review in constitutional cases; individual liberties under the Constitutions of the United States and of the States: Due Process, Equal Protection, Free Speech, Freedom of Religion, and other guarantees. Not open to students who have completed one semester or two semesters of L 543, 544.

L 543, 544 includes: the Federal System under the Constitution of the United States; judicial review in constitutional cases; national and state control of the economy under the Commerce Clause; the powers to tax and spend and other powers of Congress; national power in international relations; the separation of powers between the Congress and the President; guarantees of individual liberty through limitations on governmental power and by the exercise of federal authority over the States; constitutional issues in state courts. Not open to students who have completed the single semester course L 543.

L 545. Oregon Practice and Procedure. 3 credit hours.

An intensive study of civil procedure in Oregon state courts; comparison of Oregon civil procedure with the Federal Rules of Civil Procedure; a critical evaluation of Oregon civil procedure in light of the purposes and values of a procedural system.

L 546. Federal Courts. 3 credit hours.

A study of the role of the federal courts in the operation of the Federal System; an analysis of the constitutional and legislative bases of the judicial power of the United States; jurisdiction: diversity of citizenship, federal question, jurisdictional amount, and removal; venue; federal and state court relationships; the law applied by the federal courts; procedure in the federal district courts; appellate jurisdiction and procedure in the courts of appeals; appellate jurisdiction and procedure in the Supreme Court of the United States.

L 547. Conflict of Laws. 3 credit hours.

Theories of prediction and decision in cases involving more than one state or nation; jurisdiction; foreign judgments; choice of governing law in torts, contracts, sales, security transactions, probate, business organizations, and family law; federal-state choice of law problems.

L 548. Creditors' Rights. 3 credit hours.

Remedies of and priorities between unsecured creditors; fraudulent conveyances; validity of security interests; exemptions; protection of debtors against wrongful or oppressive collection methods; bankruptcy.

L 549. Legal Profession. 2 credit hours.

A study of the Code of Professional Responsibility; the roles and functions of lawyers in society; the organization and functions of the bar; provision of legal services; responsibilities involved in representing clients; the future of the legal profession. A required course.

L 551. Evidence. 3 or 4 credit hours.

Offered in two sections: a three-credit hour course for students expecting to emphasize office practice; a four-credit hour course for students expecting to engage in substantial courtroom practice.

The three-hour course for students expecting to emphasize office practice includes: the development of an understanding of the law of evidence adequate, and necessary, for counseling purposes; structure of the adversary system; roles of the judge, the jury, and the counsel in the fact-finding process; sufficiency of evidence; order of proof; presumptions; relevancy; judicial notice; real and documentary evidence, form and elicitation of oral testimony; impeachment and rehabilitation of witnesses; the hearsay rule and its exceptions; privilege. Not open to students who have completed the four-credit hour course.

The four-hour course for students expecting to engage in substantial courtroom practice includes: intensive treatment of the practical problems in the introduction of evidence and of trial tactics and methods; structure of the adversary system; roles of the judge, the jury and the counsel in the fact finding process; sufficiency of evidence; order of proof; presumptions; relevancy; judicial notice; real and documentary evidence; form and elicitation of oral testimony; impeachment and rehabilitation of witnesses; the hearsay rule and its exceptions; privilege. Not open to students who have completed the three-credit hour course.

L 552. Federal Income Tax. 3 credit hours.

The study of statutory, judicial, and administrative material

concerning individual income taxation, through development of the concepts of income, deductions, credits, tax accounting, income averaging, basis, and capital gains and losses; includes an overview of the taxation of trusts and estates, of the taxation of partnership and corporation income, and of problems of executive compensation, pension and profit-sharing plans, and corporate distributions to shareholders.

L 553. Estate Planning and Succession Taxes. 3 credit hours.

The study of the statutory, judicial, and administrative materials concerning federal estate and gift taxes and state inheritance tax; problems in estate analysis, planning, and execution, involving individual work in planning and probating of an estate from the interview stage to the drafting of such documents as wills, trusts, business disposition and insurance agreements, and tax returns. Prerequisite: L 538 (beginning 1974-75 academic year).

L 554. Insurance. 2 credit hours.

The insurance business; insurable interest; insurance contracts; coverage of the contract as to the event and the insured; property and liability insurance; subrogation; warranties; representation and concealment; adjustment of claims.

L 555. Family Law. 2 credit hours.

The nature of marriage and the dissolution of marriage; the status of the husband, the wife, and the child; procreation and nonprocreation; illegitimacy; adoption; support obligations; the rights of men, women, and minors in the areas of privacy.

L 556. Legislation. 2 credit hours.

Statutory drafting; canons of construction; modes of interpretation; legislative history and its uses; committee processes; chamber rules; a comparison of the roles of the courts and the legislatures; public access to the legislative process.

L 557. State and Local Taxation. 2 credit hours.

A study of the major issues arising under the principal forms of state and local taxation: corporate franchise and income taxation (with emphasis on problems of apportionment), property, personal income, sales and use, and death taxes; federal and state constitutional limitations; congressional legislation affecting state taxation of interstate commerce; the Multi-State Tax Compact; an examination of the Oregon tax system (and California sales and use tax), or an alternative system, by each student.

L 558. Local Government Law. 2 credit hours.

The nature, constitution, powers, and liabilities of municipal corporations.

L 559. Labor Law I. 3 credit hours.

An analysis of the National Labor Relations Act and the Oregon Labor Relations Act; the right of self-organization; selection of the representative by election and by other means; bargaining in good faith; remedies for unfair labor practices; unit determination; judicial review; strikes, boycotts, and lock-outs under the various labor relations acts; concerted activities; the role of the courts and the labor agencies.

L 560. Labor Law II. 3 credit hours.

A study of public-employee bargaining under local and state law, and under federal executive order; race and sex discrimination under state law, the Civil Rights Act, federal executive order, and collective bargaining agreements; the relationship of the individual and the union in representation, discipline, and membership matters; individual rights under grievance and arbitration clauses and under judicial review; considera-

tion of the roles of the courts and the agencies and of judicial review.

L 561. Restitution and Equitable Remedies. 3 credit hours.

The study of the concept of unjust enrichment as a source of liabilities in addition to those based on assent or fault; consideration of equitable remedies, with special emphasis on their utility in areas of unjust enrichment.

L 562. Jurisprudence. 3 credit hours.

A series of recurring questions in the philosophy of law: the definition of law, the relationship of legal and ethical concepts, the "morality of law," the relationships between legal concepts and political institutions, the analysis of civil disobedience, and the nature of legal argument and legal reasoning.

L 563. Antitrust Law. 3 credit hours.

A survey of the effect of the major federal legislation (the Sherman, Clayton, Robinson-Patman, and Federal Trade Commission Acts) in the antitrust and unfair competition areas.

L 564. Administrative Law. 3 credit hours.

An analysis of judicial review of administrative action, including presumptions, standing, ripeness, exhaustion, and questions of fact and law; the process of proof in adjudicatory hearings, including official notice, evidentiary considerations, and investigation; the process of decision in adjudicatory hearings, including separation of function, bias, and ex parte communication; procedural distinctions between rule-making and adjudication.

L 565. Securities Regulation. 3 credit hours.

The study of the regulation of the distribution of securities under the Securities Act of 1933 and under state blue-sky laws; the regulation of trading in securities on stock exchanges and over the counter; civil liabilities under federal and state securities laws; the regulation of investment companies. Prerequisites: L 541, or L 541, 542.

L 566. Admiralty. 3 credit hours.

An introduction to basic maritime law; jurisdiction; maritime liens; carriage of goods by sea; collision; damages; limitation of liability; injuries and death to seamen and harbor workers; indemnity; chartering; salvage; general average; rate regulation.

L 567. Copyrights. 3 credit hours.

An analysis of the legal problems arising in the production, marketing, and distribution of literary, musical, art, and related works; the creation and ownership of copyright interests, the types of protected works, and copyright procedure; the copyrighting of computer programs; the protection of applied art; the liability of community antenna television systems; the use of copyrighted works for educational and research purposes in classrooms.

L 568. Urban Land Use Law. 3 credit hours.

A survey of the function, operation, and legal impact of public planning and land use control laws, ordinances, and administrative procedures, including zoning, variances, conditional use permits, nonconforming uses, official mapping, subdivision regulation (including regulation by private covenant), the land use aspects of eminent domain, urban renewal, and other federal and state housing programs.

L 569. Water Resources Law. 3 credit hours.

A study of riparian and appropriation water law systems; federal power over water resources; interstate disputes; transfer of rights; competing claims; groundwater management; water pollution control.

L 570. International Business Transactions. 3 credit hours.

An analysis of the legal problems arising out of international trade; cartels and antitrust problems; GATT; the Common Market; subsidies, trademarks, and patents; the balance of payment and direct investment; expropriation; double taxation. Not open to students who have completed L 572.

L 571. International Law. 2 or 3 credit hours.

The justifications for state actions labelled as rules of law; the sources and evidences of a law between states; statehood; treaties; state responsibility and authority; individuals in transnational situations; international cooperation. Not open to students who have completed L 572.

L 572. Transnational Legal Problems. 4 credit hours.

The study of national boundaries; the access of aliens to economic opportunities; the protection of nationals engaged in economic activities abroad; conflict of jurisdiction; international law; adjudication abroad; the transnational reach of national legislation, including antitrust and tax laws; international economic organizations; GATT; the International Monetary Fund; the European Economic Community. Not open to students who have completed L 570 or L 571.

L 575. Legal Writing. 1 credit hour.

Preparation, under the supervision of a faculty member, of a research and writing assignment designed to enhance the ability to consider and develop, in depth, solutions for one or more legal problems.

Writing, Research, and Seminars at Professional Level

L 501. Research.

Credit hours to be arranged. Research under the supervision of a faculty member. Open to students by special arrangement only. Not more than 3 credit hours per semester, or a total of 6 credit hours, may be earned.

L 503. Thesis.

Credit hours to be arranged. Not more than 3 credit hours may be earned.

L 505. Reading and Conference.

Credit hours to be arranged.

L 507. Seminar.

Credit hours to be arranged. Seminars offered in the following subjects as student interest and other conditions may make instruction feasible:

Administration of Criminal Justice.
Business Planning.
Civil Liberties.
Communication Skills and the Law.
Consumer Protection.
Corporate Income Tax.
Current Constitutional Problems.
Current Problems in International Law.
Environmental Quality.
Indian Law.
International Institutions.
Law and Social Science.
Legal Issues in Accounting.
Legal Issues in Higher Education.
Natural Resources.
Ocean Resources.

Population Growth and the Law.
Public Assistance.
Regulated Industries.
Social Legislation.
Tax Policy.
Urban Development Problems.

L 607. Seminar.

Credit hours to be arranged. Seminars offered in the following subjects as student interest and other conditions may make instruction feasible:

Advanced Appellate Advocacy.
Civil Practice Clinical Program.
Criminal Clinical Practice:
 Prosecutions.
 Corrections.
Juvenile Law Clinical Practice.
Law Review.
Moot Court Workshop.
Trial Moot Court.



School of Librarianship

Faculty

Dean, Elizabeth Findly, A.M.L.S., Professor of Librarianship (bibliography and reference; government publications). A.B., Drake, 1929; B.S., in L.S., Illinois, 1934; A.M.L.S., Michigan, 1945; at Oregon since 1934.

Robert Ashby Berk, M.S., Assistant Professor of Librarianship (special libraries; administration; automation). B.A., Oregon, 1962; M.S., Florida State, 1964; at U of O Medical School 1966-68; Oregon since 1971.

Caroline J. Feller Bauer, Ph.D., Associate Professor of Librarianship (children's literature). B.A., Sarah Lawrence, 1957; M.L.S., Columbia, 1958; Ph.D., Oregon, 1971; at Oregon since 1966. (On leave, 1973-74)

Carl W. Hintz, Ph.D., Emeritus Professor of Librarianship (history of the book, academic libraries). A.B., DePauw, 1932; A.B.L.S., 1933, A.M.L.S., 1935, Michigan; Ph.D., Chicago, 1952. University Librarian 1948-1973.

Holway R. Jones, M.A., Professor of Librarianship (literature of social science). B.A., 1948, B.L.S., 1951, M.A., 1957, California; at Oregon since 1963.

Perry D. Morrison, D.L.S., Professor of Librarianship (academic libraries; bibliography and reference; research). A.B., 1942, M.A., 1947, Whittier; B.L.S., 1949, D.L.S., 1961, California; at Oregon 1949-63, and since 1967. Dean, 1970-1973.

Ione F. Pierron, M.S., Associate Professor of Librarianship (public libraries; adult reading; contemporary issues; selection and acquisition). B.A., Puget Sound, 1936; B.A. in Lib., Washington, 1937; M.S., Oregon, 1960; at Oregon since 1948.

Patricia B. Pond, M.A., Associate Professor of Librarianship (school libraries; literature for young adults); Associate Professor of Education (school library certification). B.A., College of St. Catherine, 1952; M.A., Minnesota, 1955; at Oregon since 1967.

THE School of Librarianship was established at the University of Oregon in 1966, and its M.L.S. program was accredited by the American Library Association in 1968. It offers graduate instruction in the principles and practices of library service and administration, leading to the Master of Library Science degree. In 1972, a new and extended curriculum was adopted.

As well as a general Master of Library Science program, the School of Librarianship offers programs leading to certification as a school librarian and educational-media specialist by the Oregon Board of Education with or without the M.L.S. degree. The University also offers an Interdisciplinary Master degree in Teaching with a specialization in school librarianship. Certification requirements are now in the process of being changed. Mimeographed materials describing the school's programs for those interested in becoming either school librarians or educational media specialists or both under the new requirements will be issued as soon as the changes have been worked out by the College of Education and the School of Librarianship. Those contemplating enrolling in these programs should make arrangements to discuss their plans with Professor Patricia Pond, who is the school's officer in charge of school library certification.

Centrally located on the first floor of the University Library building, the School of Librarianship provides opportunities for specialization by type of library, by field, and by subject. Its classrooms are adjacent to the library circulation desk, card catalogs, and general reference collection. The school has its own cataloging laboratory, and children's literature and story-telling laboratory.

With volumes totaling more than one million, the University Library is one of the largest libraries in the West and has strong collections of books and manuscripts for advanced study and research in many areas. A new addition that approximately doubled the existing space opened in 1966.

The School of Librarianship does not offer undergraduate degrees. Candidates for the Master of Library Science degree must earn 54 hours of graduate credit, of which 20 are required core courses in librarianship. At the student's option, 9 (or in some cases 12) of the 54 hours may be nonlibrarianship electives. Required core courses are Lib 411, 421, 442, 531, and 575.

Graduate students are expected to maintain a grade point average of 3.00 on a 4.00 scale in all upper-division and graduate courses taken after admission to the University. Although not required for admission, two years of one college-level foreign language (either classical or modern) or one year each of two languages are required for the M.L.S. degree. (Two years of high school language study are deemed equivalent to one year of college language.)

Admission Requirements. For admission to the School of Librarianship a student must have: (1) a bachelor degree from an accredited college or university; (2) grade point average of at least 3.00 for the last two years of college work; (3) satisfactory score on the Graduate Record Examination Aptitude Test; (4) three letters of reference, and a personal interview; the latter may be waived for those who furnish a reference letter from a librarian.

Foreign students should have proof of proficiency in the English language, as measured by the University of Michigan English Language Institute Test or the Princeton University Test of English as a Foreign Language, in lieu of the GRE Aptitude Test.

Applications for admission must be completed early. Date of completion of application is a major factor in determining priority of acceptance for available spaces. Most admissions are made to begin in the summer or fall term. A checklist giving detailed procedures is available from the school. Address inquiries and requests for application materials to: Elizabeth Findly, Dean, School of Librarianship, University of Oregon, Eugene, Oregon 97403.

Financial Assistance. Applicants desiring scholarships or other financial assistance under the control of the School of Librarianship, including the Hendricks scholarship, should request the Application for Financial Assistance form.

Elma L. Hendricks Scholarship. Annual \$1,500 scholarship awarded by Board of Trustees of Eugene Public Library in memory of former Eugene Public Librarian Elma L. Hendricks.

Student Assistantships. One-third time positions as student assistants to members of the faculty may be available.

For additional information about other types of financial assistance available to all University students, write to the Office of

Student Financial Aid, University of Oregon, Eugene, Oregon 97403.

Non-University Scholarships. Applicants may be interested in the following scholarships. Further information about these scholarships and addresses for applications may be obtained from the School of Librarianship. (1) Oregon Library Association Scholarship, \$500 (Oregon residents only). (2) Byron Company Scholarships, five scholarships of \$150 each for children's or school librarianship. (3) Oregon Educational Media Association Scholarships, two scholarships of \$200 each for school librarians or media specialists.

A booklet entitled *Financial Assistance for Library Education* may be found in most libraries or obtained from the American Library Association, 50 E. Huron Street, Chicago, Illinois 60611.

Lib 127. Use of the Library. 2 credit hours.

Initial training in the use of library materials and services and in elements of bibliographic form. Designed to help undergraduate students use the library more effectively. Sponsored by the University Library. Durnell.

Upper-Division Courses Carrying Graduate Credit

Lib 411. Organization of Library Materials. (G) 5 credit hours.

Main entry, descriptive and subject cataloging, and cross reference. Classification and alternate methods of organizing print and nonprint materials. Making of analytics and filing of catalog cards. Nonconventional methods of organizing materials. Required core course.

Lib 421. Reference Sources and Services. (G) 4 credit hours.

Fundamental concepts of reference service in various kinds of libraries. Use and evaluation of basic reference materials, print and nonprint. Required core course. Morrison.

Lib 432. Educational Media Centers. (G) 3 credit hours.

Administration, organization, resources, and services of school libraries and media centers at the school-building and district level with emphasis on national and state standards of service. Prerequisite: Lib 411, 421, 442 and 445. Pond.

Lib 442. Selection and Acquisition of Library Materials. (G) 3 credit hours.

Introduction to collection building in various media for all types of libraries, to basic selection aids, and to intellectual freedom. Required core course. Pierron.

Lib 445. Multi-Media Librarianship. (G) 3 credit hours.

The role of the school librarian and media specialist in identifying, evaluating, selecting, and facilitating the use of print and nonprint materials administered by media centers in support of the curricula of elementary and secondary schools. Prerequisite or concurrently: Ed CI 435 and Lib 442. Pond.

Lib 451. Children's Literature I. (G) 3 credit hours.

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

Lib 455. Media for Young Adults. (G) 3 credit hours.

Survey of print and nonprint forms of communication for youth of junior and senior high-school age with emphasis on young adult media interests; selection and evaluation of media for school and public libraries; individual reading, listening, and viewing guidance; and standards of service to young adults. Pond.

Lib 458. Storytelling. (G) 3 credit hours.

Fundamental principles of the art of storytelling, including the planning of a story hour, location of suitable materials for use, and the techniques of learning and presenting the story; study and selection of literature appropriate for oral presentation to children of all ages. Consent of instructor is required.

Graduate Courses

Lib 505. Reading and Conference. 1-3 credit hours.

Lib 507. Seminar. 3 credit hours.

Lib 508. Workshop. 3 credit hours.

Lib 509. Practicum. 3 credit hours.

Supervised practical experience under the guidance of a professional librarian.

Lib 513. Organization of Library Materials II. 3 credit hours.

Advanced problems in cataloging and classification. Consent of instructor is required. Prerequisite: Lib 411.

Lib 514. Information Storage and Retrieval. 3 credit hours.

User studies and communication theory in the development of indexing and abstracting, library networks, information services, and the design and evaluation of information retrieval systems. Consent of instructor is required. Prerequisite: Lib 411, 531. Berk.

Lib 515. Technical Services. 3 credit hours.

Management of acquisition, cataloging, processing, circulation, and conservation of library materials. Prerequisite: Lib 411, 442, 531.

Lib 523. Government Publications. 4 credit hours.

United States federal and state publications, international and foreign government documents. Prerequisite: Lib 421. Findly.

Lib 524. Reference Sources and Services II. 2 credit hours.

Advanced problems in reference services. Prerequisite: Lib 421, and one of the bibliography courses; the latter may be taken concurrently. Morrison.

Lib 531. Library Organization and Administration. 5 credit hours.

Analysis of organizational and administrative theories in the context of library structures, with special emphasis on personnel relationships, budgeting, systems analysis, and library automation. Required core course. Prerequisite: Lib 411, 421, 442; one of these may be taken concurrently with 531. Berk.

Lib 533. The Public Library. 3 credit hours.

Government, goals, organization, finances, personnel, policies, and services of the public library. Prerequisite: Lib 411, 421, 442, 531. Lib 531 may be taken concurrently. Pierron.

Lib 534. The Academic Library. 3 credit hours.

Administration and services of college, university, and research libraries, including collection building and maintenance, staffing, public relations with clientele and supporting institutions.

Prerequisite: Lib 411, 421, 442, 531; Lib 531 may be taken concurrently. Morrison.

Lib 535. The Special Library and Information Center. 3 credit hours.

Administration, organization, resources, and services of the special library or information center. Prerequisite: Lib 411, 421, 442, 531; Lib 531 may be taken concurrently. Berk.

Lib 541. History of the Book. 3 credit hours.

Development of the book in its various forms from earliest times to the present; origin and evolution of the alphabet and scripts; history of manuscript books; invention and spread of printing; production and distribution of printed books. Emphasis on the relation of books to social conditions in the various periods studied.

Lib 542. History of Libraries. 3 credit hours.

The international history of libraries and librarianship from ancient times to the present. Morrison.

Lib 552. Children's Literature II. 3 credit hours.

History and development of libraries for children in the United States and abroad. Advanced analysis of children's literature including selection, evaluation, and the use of library materials for children. Prerequisite: Lib 451, or concurrent enrollment.

Lib 556. Library Programs for Children and Young Adults. 3 credit hours.

Group methods of reading, listening, and viewing guidance with children, young adults, their parents, teachers, and group leaders. Includes mixed-media programs, book talks, book-lists, book and film discussions, and exhibits. Prerequisite: Lib 451 or 455; may be taken concurrently.

Lib 561. Literature of the Humanities. 3 credit hours.

The role of the humanities in contemporary society; survey of the development of the literature associated with the humanities disciplines with emphasis on key figures, books, nonprint media, and terminology; problems associated with acquisition and handling of specialized resources. Prerequisite: Lib 411, 421, 442. Findly.

Lib 562. Bibliography of the Humanities. 2 credit hours.

Reference works and bibliography of the humanities disciplines. Prerequisite: Lib 421. Findly.

Lib 563. Literature and Bibliography of the Sciences. 3 credit hours.

Survey and evaluation of information resources in the fields of science and technology; problems of scientific documentation; literature-searching methods; compilation, classification, and reporting of information; reference works and bibliography of the field. Prerequisite: Lib 411, 421, 442. Berk.

Lib 564. Literature of the Social Sciences. 3 credit hours.

Surveys of key figures and ideas in the social sciences, with emphasis on past development and present tendencies; source materials for research; selection of books, maps, periodicals, nonprint materials, etc.; to reflect inclusion of nonprint materials and special and public libraries. Prerequisite: Lib 411, 421, 442. Jones.

Lib 565. Bibliography of the Social Sciences. 2 credit hours.

Reference works and bibliography of the social-science disciplines. Prerequisite: Lib 421. Morrison.

Lib 566. Adult Reading. 3 credit hours.

Contemporary adult books, reading interests and habits of adults, reading guidance for adults, and public-library selection policies. Consent of the instructor is required. Prerequisite: Lib 442; may be taken concurrently. Pierron.

Lib 571. Research in Librarianship. 3 credit hours.

Survey of library literature, with attention to significant research in librarianship; selection and definition of a project, collection of data, historical, experimental, and descriptive methods, evaluation of data, statistical concepts; values of research in librarianship. Prerequisite: 9 credit hours of librarianship, or consent of instructor. Morrison.

Lib 573. The Library and the Publishing Process. 3 credit hours.

Consideration of general trade and scholarly publishing processes from the librarian's viewpoint; the role of the library as publisher; publishing activities of library organizations; participation in the writing and editing of a library publication. Morrison.

Lib 575. Contemporary Issues in Librarianship. 3 credit hours.

The interaction between librarian, libraries, and professional associations and the changing economic, educational, political, social, and technological environments. Required core course. Prerequisite: 20 credit hours in librarianship, including Lib 411, 421, 442, 531. Pierron.

Lib 581. Introduction to Archives. 3 credit hours.

Historical development of archival practices and problems; analysis of current trends in federal, state, local, business, church, and university archives. Archival processing, records-management procedures, accession, arrangement, storage; research use of archival source materials.

Lib 590. Machine Applications in Librarianship. 3 credit hours.

Study and design of file structure in libraries. Application of systems-analysis in formulation and execution of automated procedures using computers. Prerequisite: Lib 514, 531, CS 221, or consent of instructor. Berk.

School of Music

Faculty

- Dean, Robert M. Trotter, Ph.D., Professor of Music (analysis and criticism, pedagogy). B.Mus., Northwestern, 1942; M.A., Chicago, 1947; Ph.D., Southern California, 1957; at Oregon since 1963.
- Exine A. Bailey, M.A., Professor of Music (voice). B.S., Minnesota, 1944; M.A., 1945, Professional Diploma, 1951, Columbia; at Oregon since 1951. (On sabbatical leave, fall 1973.)
- Peter Bergquist, Ph.D., Professor of Music (music history, theory, bassoon); Member, University Woodwind Quintet. B.S., Mannes College of Music, 1958; M.A., 1960, Ph.D., 1964, Columbia; at Oregon since 1964.
- Francis W. Bittner, M.A., Professor of Music (piano, music theory). B.Mus., Cincinnati Conservatory of Music, 1936; M.A., New York, 1943; at Oregon since 1946.
- Leslie T. Breidenthal, A.Mus.Doc., Associate Professor of Music (voice). B.S., 1948, M.A., 1949, Columbia; A.Mus. Doc., Michigan, 1965; at Oregon since 1967. (On sabbatical leave, spring 1974.)
- Doris Helen Calkins, B.Mus., Professor of Music (harp). B.Mus., Oregon, 1931; at Oregon, 1931-1969, and since 1972.
- Robert G. Cunningham, Mus.M., Associate Professor of Music (woodwind instruments, music education); Member, University Woodwind Quintet. B.Mus., Eastman School of Music, 1950; Mus.M., Oregon, 1952; at Oregon since 1954.
- Edmund A. Cykler, Ph.D., Professor Emeritus of Music. A.B., California, 1926; Ph.D., Charles University, Czechoslovakia, 1928; at Oregon since 1947.
- G. Burnette Dillon, M.A., Assistant Professor of Music (university bands, trumpet); Member, Faculty Brass Quintet. B.A., California State at Long Beach, 1956; M.A., Fresno State, 1969; at Oregon since 1970.
- Ronald K. Falter, M.A., Instructor of Music (percussion, music education). B.A., 1967, M.A., 1970, Nevada; at Oregon since 1971.
- John M. Gustafson, Ph.D., Associate Professor Emeritus of Music (music education). A.B., Augustana, 1947; M.Mus., Michigan, 1951; Ph.D., Florida State, 1956; at Oregon since 1956.
- John Hamilton, D.M.A., Professor of Music (organ, harpsichord, music history). A.B. in Physics, California at Berkeley, 1946; M.Mus., Southern California, 1956; D.M.A., Southern California, 1966; at Oregon since 1959. (On sabbatical leave, 1973-74.)
- J. Robert Hladky, A.Mus.D., Professor of Music (violin, music history); Member, University Trio. B.Mus., Oklahoma State, 1950; M.Mus., 1952, A.Mus.Doc., 1959, Eastman School of Music; at Oregon since 1961.
- George Hopkins, B.A., Professor Emeritus of Music (piano). Teachers Cert., Peabody Conservatory, 1918; B.A., Oregon, 1921; at Oregon 1919-23, and since 1925.
- Robert I. Hurwitz, Ph.D., Associate Professor of Music (theory, history). A.B., Brooklyn, 1961; M.Mus., 1965, Ph.D., 1970, Indiana; at Oregon since 1965. (Director, International Music Center, 1973-74.)
- Edward W. Kammerer, M.Mus., Assistant Professor of Music (horn, music education); Member, Faculty Woodwind Quintet, Faculty Brass Quintet. B.Mus., 1964, M.Mus., 1965, Oregon; at Oregon since 1970.
- Homer T. Keller, M.Mus., Professor of Music (composition, music theory); B.Mus., 1937, M.Mus., 1938, Eastman School of Music; at Oregon since 1958. (On sabbatical leave, spring 1973.)
- Ira D. Lee, M.Mus.Ed., Professor of Music (trombone, music education); Director, Brass Choir, High School Music Summer Session; Member, Faculty Brass Quintet. B.Mus.Ed., 1946, M.Mus.Ed., 1947, Colorado; at Oregon since 1950. (On sabbatical leave, fall 1973.)
- G. Roy Mann, Jr., M.Mus., Assistant Professor of Music (violin, music education). M.Mus., 1973, Texas; at Oregon since 1973.
- Gary M. Martin, Ph.D., Associate Professor of Music (music education, music history). B.A., 1961, M.A., 1963, Adams State; Ph.D., Oregon, 1965; at Oregon since 1966. (On sabbatical leave, spring 1973.)
- Lawrence C. Maves, Jr., M.Mus., Associate Professor of Music (violin); Director, University Symphony; Member, University Trio. B.Mus., 1954, M.Mus., 1959, Oregon; Diploma, Julliard School of Music, 1958; at Oregon since 1958.
- John C. McManus, M.A., Associate Professor of Music (clarinet, music education); Member, University Woodwind Quintet. B.Mus.Ed., Northwestern, 1943; M.A., Columbia, 1950; at Oregon since 1967. (On sabbatical leave, 1973-74.)
- James A. Miller, A.Mus.D., Associate Professor of Music (voice). B.A., Goshen, 1952; M.Mus., 1956, A.Mus.D., 1963, Michigan; at Oregon since 1965. (Director, International Music Center, 1972-73; on sabbatical leave, 1973-74.)
- Robert E. Nye, Ph.D., Professor of Music (music education). B.Ed., Milwaukee State Teachers College, 1932; M.A., 1942, Ph.D., 1949, Wisconsin; at Oregon since 1950. (On sabbatical leave, winter, spring 1973-74.)
- Harold Owen, D.M.A., Associate Professor of Music (medieval, Renaissance). B.Mus., 1955, M.Mus., 1957, D.M.A., 1972, Southern California; at Oregon since 1966. (On sabbatical leave, spring 1973.)
- Max D. Risinger, M.A., Professor of Music (music education). B.Ed., Western Illinois State, 1935; M.A., Iowa, 1942; at Oregon since 1954. (On sabbatical leave, spring 1974.)
- H. Royce Saltzman, D.M.A., Associate Dean, Professor of Music (choral music). B.A., Goshen, 1950; M.Mus., Northwestern, 1954; D.M.A., Southern California, 1964; at Oregon since 1964.
- David L. Sannerud, D.M.A., Visiting Assistant Professor of Music (music education). B.A., 1959, M.A., 1968, C.M.A., 1971, D.M.A., 1972, Washington; at Oregon since 1972.
- Victor Steinhardt, M.A., Assistant Professor of Music (piano, music theory). B.Mus., Mount St. Mary's, 1964; M.A., California at Los Angeles, 1967; at Oregon since 1968. (On leave of absence, 1972-73.)
- Jane Thacher, Professor Emeritus of Piano; at Oregon since 1916.
- Marlene Thal, D.M.A., Assistant Professor of Music (piano, music history). B.A., 1954, M.L.S., 1962, M.Mus., 1971, D.M.A., 1973, Washington; at Oregon since 1973.
- Richard Trombley, M.Mus., Associate Professor of Music (music

history, flute); Member, University Woodwind Quintet. B.S., Julliard School of Music, 1961; M.Mus., Manhattan School of Music, 1962; at Oregon since 1963.

Monte Tubb, M.A., Associate Professor of Music (musicianship, scoring, composition). B.A., Arkansas, 1956; M.A., Indiana, 1960; at Oregon since 1966. (Sabbatical leave, fall 1972.)

Robert S. Vagner, M.Mus., Professor of Music (clarinet, music education). Director University Bands. B.A., 1935, M.A., 1938, Colorado State; M.Mus., Michigan, 1942; at Oregon since 1950.

Virginia J. Whitfield, Ed.D., Professor of Music (music education). B.Mus., 1934, M.Mus., 1946, Colorado; Ed.D., California at Los Angeles, 1962; at Oregon since 1965.

Neil Wilson, Ph.D., Professor of Music (voice, chamber choir). B.F.A., 1952, M.Mus., 1955, New Mexico; Ph.D., Indiana, 1967; at Oregon since 1961.

William C. Woods, M.Mus., Associate Professor of Music (piano, music history); Member, University Trio. B.Mus., 1948, M.Mus., 1949, Southern California; at Oregon since 1950.

A DEPARTMENT of Music was established at the University of Oregon in 1886. The School of Music was organized in 1902, and was admitted to membership in the National Association of Schools of Music in 1928. The standards of the school are in accordance with the standards set by the association.

The primary function of the school is to help students prepare for professions in music; its secondary function is to provide instruction for students who are degree candidates in other academic areas.

Facilities. The School of Music is housed in a building complex designed for instruction, practice, and performance—including a recital hall seating 550 persons, rehearsal rooms, studio-offices, classrooms, and more than fifty practice rooms. The School has seven organs, mostly trackers, for student use (Flentrop, Schlicker, Olympic, and a concert instrument unique in America by Juergen Ahrend of East Friesland, Germany). One of the three harpsichords available for student use is a concert instrument by William Dowd. Moog and Putney Electronic Synthesizers are available to qualified students. The music holdings of the University Library include a large collection of scores, complete critical editions of the works of the great composers, standard reference works, and extensive collections of periodicals, recordings, and books on music. The music collection is supported by gifts from Phi Beta and Mu Phi Epsilon and a bequest from the late Matthew H. Douglass, former University Librarian. Through acquisitions under the Farmington Plan, the Library has a particularly strong and growing collection of contemporary foreign books on music.

Music Organizations. The University Singers, the University Chorale, Chamber Choir, Symphonic Wind Ensembles, Marching and Concert Bands, Symphony Orchestra, Brass Ensemble, Jazz Ensemble, and the Opera Workshop offer membership and performance opportunities to all qualified students on campus. Collegium Musicum, a vocal-instrumental group, provides opportunity for the study of medieval, Renaissance, and baroque music, using a sizeable collection of reproductions of Renaissance and baroque instruments. The repertory and activities of these organizations are planned to complement courses in analysis, history, and criticism offered by the school.

Instruction for General-Campus Students. The following credit-earning ensembles are available for all students, regardless

of their major. Marching Band, Pep Band, Symphonic Wind Ensemble, Concert Band, Brass Choir, Symphony Orchestra, University Singers, University Chorale, Chamber Choir, Opera Workshop, Collegium Musicum, Jazz Ensemble. Some require auditions; information is available from the School of Music office.

Classes of interest to students without previous musical instruction are: Basic Music (Mus 52); Introduction to Music and Its Literature (Mus 201, 202, 203); Listening with Understanding (Mus 450); The Music of Bach and Handel (Mus 451); The Classic Symphony and Sonata (Mus 452); Introduction to Opera (Mus 453); Introduction to Twentieth-Century Music (Mus 454). From time to time, special classes of this nature are offered under Mus 199.

Students are eligible for instrumental and vocal performance instruction, with extra fee, and for participation in small chamber ensembles. Enrollment is limited; consent of instructor is required and an audition is prerequisite.

Concerts and Recitals. Frequent concerts and recitals are presented on the campus throughout the year, by visiting artists, members of the faculty of the School of Music, and advanced music students. Other regularly scheduled concerts include performances by artists of international fame sponsored by the Eugene-University Music Association and the Chamber Concert Series.

Center for International Music Education. The School of Music offers a music study program in Europe, center in Salzburg, Austria. The curriculum is open to qualified seniors and graduate students in music. Participants enroll as regular full-time students in the University of Oregon for the current academic year, and must complete requirements for admission as outlined in this catalog. The principal objectives of the center are: (1) to give students a knowledge of music pedagogy in European countries through personal observation and participation; (2) to bring each student into the rich stream of European cultural life, both past and present; and (3) to add new perspectives to American musical practices and attitudes. Address inquiries to: Director, Center for International Music Education, School of Music, University of Oregon, Eugene, Oregon 97403.

Financial Aids in Music. Ruth Lorraine Close Musical Fellowship (approximately \$30,000 annually for advanced study in music, with first preference to students of harp and composition); Eugene Women's Choral Society Scholarship (variable amounts for music majors); Mu Phi Epsilon Scholarships (variable amounts for currently enrolled female music majors); Maud Densmore Memorial Scholarship (variable amounts for upper-division music majors); Musicians Mutual Association Scholarships (variable amounts for Lane County residents majoring in music and studying woodwind, brass, or percussion instruments); Phi Beta Scholarships (variable amounts for currently enrolled female music majors); Presser Foundation Scholarships (\$400 for undergraduate music majors intending to be teachers of music); Paul Clarke Stauffer Scholarship (\$1,000 for a male music major, with first consideration to current high-school seniors residing in Eugene, Oregon). For additional details on these financial aids, write to Dean, School of Music, University of Oregon, Eugene, Oregon 97403.

Music Fees. Pre-majors and majors in music receive studio performance instruction, at the level of MuP 171-191 or above, in a single medium, without extra tuition. Fees for studio vocal or instrumental instruction for all other students are: one half-hour lesson per week, \$30.00 per term; two half-hour lessons per week, \$50.00 per term. These fees are due at the time of registration each term.

All music majors pay a fee of \$5.00 per term which entitles them to practice-room privileges. All music students using University-owned instruments pay a fee of \$1.00 per term per instrument for insurance. The fee for organ practice is \$12.00 per term for one hour a day; for use of the Moog Synthesizer, \$12.00 per term for one hour per week.

Undergraduate Studies

(1) Preparation advisable for entering freshmen:

(a) Instruction in voice or on an instrument included in the curriculum, sufficient to pass an audition before a panel of faculty members for entry into MuP 171-191. Information defining the MuP 171-191 level in various performance media is available from the School of Music office. Experience with various styles of music both as performer and as listener, and ability to play a keyboard instrument are valuable for all students, regardless of their primary performance medium.

(b) For vocal students, and students who play woodwind, brass, string or percussion instruments, three years of participation in a large ensemble. For keyboard students, experience in solo performance, in accompanying and in chamber music.

(c) Study of musical notation and terminology sufficient to pass an entrance examination for entry into Mus 121-122-123. Information concerning the content of this examination is available from the School of Music.

(2) Preparation advisable for two-year college transfers:

(a) College-level instruction in voice, or on an instrument included in the curriculum, sufficient to pass an audition before a panel of faculty members for entry into the level of studio performance instruction appropriate for the junior year in the degree program which the student wishes to enter.

(b) For vocal students, and students on a woodwind, brass, string, or percussion instrument, college-level participation in a large ensemble devoted to rehearsing and performing music similar to the program at the University of Oregon. For keyboard students, college-level experience in solo performance, in accompanying, and in chamber music.

(c) College-level proficiency in musical terminology, orthography, scoring, composing, analyzing and evaluating music, and aural-visual skills equivalent to those required in Mus 121, 122, 123, Mus 204, 205, 206, Mus 221, 222, 223, at the University of Oregon.

(3) Definition of pre-major and major status:

Prospective freshmen and transfer students who want to major in music receive pre-major status at the time of admission to the University. This gives them high priority for enrolling in required courses in music, and for enrolling in a large ensemble after a successful audition.

Enrollment in studio performance instruction is governed by a quota, defining the number of students who may enroll in each medium of instruction. Priority for enrollment is defined by (a) the relation of the instruction to a degree objective, and (b) the student's level of advancement as a performer. The faculty determines the approximate number of available enrollments for each fall term during the preceding school year prior to March 31. Continuing students have first priority; prospective new students who have auditioned for studio-performance instruction will receive notice prior to April 15 either that they have a reserved assignment or that they occupy a specific place on a waiting list.

Freshmen degree candidates in music must apply for major status during their third term in residence. Transfer students may apply during their first term in residence. Students entering the program as freshmen must have been successfully enrolled for two terms, and must be currently enrolled in (a) studio performance instruction at the level of MuP 171-191 or above, (b) a School of Music large ensemble, and (c) Musicianship I. Students entering the program after previous college-level instruction in music must be enrolled in (a) studio performance instruction at the level of MuP 171-191 or above, (b) a School of Music large ensemble, and (c) the appropriate level of instruction in either Musicianship or History of Music or both.

When applying for major status, students must present to the Coordinator of Undergraduate Advising: (a) three written recommendations from instructors in (1) studio performance, (2) ensemble performance, and (3) Musicianship I or II, or History of Music I or II; and (b) a written statement of long-range career plans as they relate to a particular degree candidacy in music.

Applicants for major status will receive notification before May 1 whether it has been granted or denied. Those for whom it is denied may continue their musical study through the end of the current term. Thereafter, studio performance instruction will be unavailable to them, and participation in other musical instruction will be available on the same basis as for other students with degree candidacy in another academic area.

Undergraduate degrees offered by the School of Music are: Bachelor of Arts in Music; Bachelor of Science in Music; Bachelor of Music in Performance; Bachelor of Music in Music Education (Instrumental Option); Bachelor of Music in Music Education (Choral-General Option); Bachelor of Music in Composition; Bachelor of Music in Music Theory.

(4) Graduation requirements:

Core studies for all degrees are:

(a) Musicianship I and II: Mus 121, 122, 123 and Mus 221, 222, 223 (24 credit hours); (b) History of Music I and II: Mus 204, 205, 206 and Mus 360, 361, 362 (18 credit hours); (c) Studio Performance: 6 credit hours, including 3 at the level of MuP 171-191 or above.

Bachelor of Arts in Music requires, in addition to the core studies, the following:

(a) ensemble performance: 6 terms, chosen from Mus 195, 196, 197, 395, 396, 397, 398 (6-12 credit hours); (b) proficiency in French, German, or Italian as prescribed for all Bachelor of Arts degrees at the University of Oregon; (c) either History of Western Art (ArH 204, 205, 206) or World Literature (Eng 107, 108, 109), 9 credit hours; a senior project in music: either a scholarly work, a performance, or a composition. (A maximum of 24 credit hours in studio performance can count toward graduation requirements, of which not more than 12 credit hours may be taken during the freshman and sophomore years.)

Bachelor of Science in Music requires, in addition to the core studies, the following:

(a) ensemble performance: 6 terms, chosen from Mus 195, 196, 197, 395, 396, 397, 398 (6-12 credit hours); (b) a senior project in music: either a scholarly work, a performance, or a composition. (A maximum of 24 credit hours in studio performance can count toward graduation requirements, of which not more than 12 credit hours may be taken during the freshman and sophomore years.)

Bachelor of Music in Performance requires, in addition to the core studies, the following:

(a) Studio Performance: 12 credit hours, including 3 terms at the level of MuP 471-491 and a senior recital; voice majors: 3 terms in piano at the level of MuP 171 or above, to develop skills in sight-reading, transposing, and accompanying.

(b) Ensemble Performance: 9 terms in a large ensemble, of which 3 must be during the upper-division years; piano majors: 6 terms must be in Chamber Ensemble, Mus 394; voice majors: proficiency in French, German, and Italian equivalent to that attained either at the completion of two years of college study in one, and one year of college study in another of these, or at the completion of one year of college study in each of the three.

Bachelor of Music in Music Education, Instrumental Option, requires, in addition to the core studies, the following:

(a) Studio Performance: 12 credit hours on a string, wind, or percussion instrument, including 9 credit hours at the level of MuP 341-361 or above.

(b) Ensemble Performance: 12 terms in a large ensemble, of which six must be during the upper-division years, and of which one must be in Mus 197 or 397, 6-12 credit hours; woodwind, brass, and percussion majors: 2 terms in Marching Band, Mus 195 or 395.

(c) Conducting: 6 credit hours, Mus 385, Mus 387, 388.

(d) Orientation to Music Education: 3 credit hours, MuE 326.

(e) Special Teaching Methods: 3 credit hours, MuE 408.

(f) Instrumental Scoring: 2 credit hours, Mus 336.

(g) Vocal Techniques: 1 credit hour, MuE 391, Vocal Pedagogy.

(h) Instrumental Techniques: 8 credit hours, MuE 392, plus concurrent enrollment in laboratory band.

(i) Student Teaching: 10 credit hours in CI 416, 417; Prerequisites of completion of Mus 121, 122, 123; 221, 222, 223; 204, 205, 206; 385, 386, 387; MuE 326; 408; two terms on campus; minimum cumulative grade point average of 2.25; faculty approval for admittance into the Teacher Certification Program.

(j) Human Development and Learning: 5 credit hours, EPsy 326, or the equivalent.

Bachelor of Music in Music Education, Choral-General Option, requires, in addition to the core studies, the following:

(a) Studio Performance: 12 credit hours, including a minimum of 3 terms at the level of MuP 271-291 in piano or voice, and at least three terms of voice in case the primary performance medium is piano.

(b) Ensemble Performance: 12 terms in a large ensemble, of which six must be in Mus 197 and six in either Mus 397 or 398.

(c) 6 credit hours, Mus 385, 386, 387.

(d) Orientation to Musical Education: 3 credit hours, MuE 326.

(e) Special Teaching Methods: 6 credit hours, 3 in Elementary (MuE 408) and 3 in Secondary (MuE 408).

(f) Scoring for Voices: 3 credit hours, Mus 439.

(g) Choral Materials: 2 credit hours, MuE 444.

(h) Instrumental Techniques: 3 credit hours in MuE 392; one term in Woodwinds, one term in Brass, one term in Strings or Guitar.

(i) Student Teaching: 10 credit hours, chosen from the following: CI 415, 416, 417, plus student-teaching conferences with the University of Oregon Supervisor of Student Teaching in Choral-General Music concurrent with student-teaching for no additional credit; prerequisites of completion of Mus 121, 122, 123; 221, 222, 223; 204, 205, 206; 385, 386, 387; MuE 326; two terms cumulative grade-point average of 2.25; faculty approval for admittance into the Teacher Certification Program.

(j) Human Development and Learning: 5 credit hours, EPsy 326, or the equivalent.

(k) Classroom Instruments: 2 credit hours, MuE 425.

Bachelor of Music in Composition requires, in addition to the core studies, the following:

(a) Composition I, II, III: 27 credit hours, Mus 240, 241, 242; Mus 340, 341, 342; Mus 440, 441, 442.

(b) Ensemble Performance: 9 terms in any ensemble offered for credit in the School of Music.

(c) Studio Performance: proficiency on piano at the level of MuP 271, or on two instruments at the level of MuP 171-191, with one of the two being piano.

(d) Public Recital: of compositions written by the student during the course of degree candidacy and during enrollment in Composition II and III.

(e) Approval of the student's qualifications for graduation by the composition faculty.

Bachelor of Music in Music Theory requires, in addition to the core studies, the following:

(a) Studio Performance: 12 credit hours, including a minimum of 3 terms at the level of MuP 271-291.

(b) Ensemble Performance: 9 terms chosen from Mus 195, 196, 197, 395, 396, 397, 398.

(c) Counterpoint I, II: 10 credit hours, Mus 333, 334, 335; Mus 433, 434.

(d) Composition I: 9 credit hours, Mus 240, 241, 242.

(e) Scoring for Instruments: 2 credit hours, Mus 336.

(f) Advanced Analysis: 6 credit hours, Mus 430, 431, 432.

(g) Analysis and Criticism: 6 credit hours, chosen from Mus 407 (G) or from Mus 435, Mus 457, Mus 461-477.

(h) A senior lecture-recital.

Graduate Studies

Graduate degrees offered by the School of Music are: Master of Music in Composition; Master of Music in Music Education; Master of Music in Performance and Music Literature; Master of Arts in Music History; Master of Arts in Music Theory; Master of Arts in Music Education. Doctor of Musical Arts, with primary and secondary areas in: Performance, Music Education, Composition, History and Musicianship; Doctor of Education with a primary area in Music Education (through the College of Education); Doctor of Philosophy with a primary area in Music Education (through the College of Education). Note: The Ph.D. and D.Ed. degree programs offer the primary area in music education; the supporting area for these degrees is outside the School of Music. Further information on these degree programs is available from the School of Music office.

Requirements for admission to the master-degree program: (1) Completion of a baccalaureate degree in a nationally or regionally accredited school or college. (2) Passing an audition as a performer, at various levels defined by the University of Oregon School of Music, as follows:

(a) M.A. in Music History or in Music Theory: proficiency at the level required to enter MuP 341-361 in voice or on an instrument taught here.

(b) M.M. in Performance and Music Literature: in the performance medium of the proposed degree program, proficiency at the level required to enter MuP 571-591. Prospective voice majors

must also have piano proficiency required to enter MuP 271, especially in sight-reading, transposing, and accompanying.

(c) M.M. in Composition: either proficiency in piano required to enter MuP 341, or proficiency in two instruments, one of which is piano, required to enter MuP 271-291.

(d) M.M. or M.A. in Music Education: proficiency at the level required to enter MuP 341-361 in voice or in instrument taught here.

(3) M.M. in Composition: demonstration of marked ability and technical skill in composition by submitting to the composition faculty scores of original works for large and small ensembles.

(4) M.A. in Music History or Music Theory: reading proficiency in one foreign language, usually German, demonstrated by two years of successful undergraduate study of the language, or by passing an examination administered by the School of Music, or by any other means proposed by the student and accepted by an adviser; capacity to organize and present ideas in English at a high level of excellence, demonstrated by presenting substantial term papers, and the like, from undergraduate studies; preparation for undertaking studies in a cognate field outside music, of a nature and at a level accepted by an adviser.

Procedures for admission to the master-degree program: (A) For general University regulations governing graduate admission, see the Graduate School section of this catalog.

(B) Send to the Director of Graduate Admissions, University of Oregon (1) Graduate Admission Application form; (2) A copy of transcripts of all previous undergraduate and graduate study.

(C) Send to the Coordinator of Graduate Studies, School of Music, University of Oregon: (1) A copy of transcripts of all previous undergraduate and graduate study. (2) Supporting material related to the major area of interest (a tape, a repertory list, and copies of programs from solo public performances for performance students; musical scores and tapes for composers; an example of written work, such as a term paper in music, for degree candidates in Music History or Music Theory). (3) Two written recommendations, one from a major-area professor.

Graduation requirements: (A) For Graduate School requirements regarding credits, residence, transfer of previous graduate work elsewhere, language, and qualifying examinations, see the Graduate School section of this catalog.

(B) All entering graduate students in Music must take Graduate Diagnostic Examinations in History of Music and in Musicianship prior to initial registration in residence. The examination in Music History will consist of (a) aural materials, in the form of performances of excerpts, or (b) visual materials in the form of excerpts from scores, and (c) lists of musical terms and names. Students will be required to (a) identify or define terms and names, as appropriate, and (b) analyze the musical excerpts and place them into a historical context. The examination in Musicianship will consist of (a) solving problems to demonstrate knowledge of notational practice in metric contexts; (b) given verbal, notated, and aural materials, solving problems to demonstrate the ability to relate notation, terminology, and sound; (c) singing notated melodies at sight. A faculty adviser will use the results of these examinations to prescribe courses as needed to correct deficiencies. Additional information on these examinations is available from the School of Music.

(1) For M.M. or M.A. in Music Education: (a) All Music Education students choose a primary area from the following: Music in General Education: Elementary; Music in General Education: Secondary; Band and Orchestra Conducting and Literature; Choral Conducting and Literature. Music Education students

also choose a supporting area from the following: Music Supervision (requires courses from College of Education); Performance Studies (student ability must be at MuP 471-491 level at entrance); Research (thesis required); Music History and Literature; Theory-Musicianship or Composition. In addition, any other area of interest, in or outside of music, approved by a faculty adviser and the Graduate Committee.

(b) Specific course requirements: Basic Concepts in Music Education (Mus 532) 3 credit hours; General Seminar in Music Education (MuE 507) 3 credit hours; Research Methods (Mus 511) 3 credit hours.

(c) Required options: three terms of participation in a large ensemble, 3 credit hours; three terms of studio performance instruction in a medium appropriate to the primary or supporting area (students who demonstrate ability to complete MuP 271-291 at entrance receive graduate credit by enrolling in MuP 541-561); Courses from Mus 425-442, 461-477, 533-589, 6 graduate credit hours; courses related to the primary area, chosen with a faculty adviser, 9 credit hours; courses related to the secondary area, chosen with a faculty adviser, 9 credit hours.

(d) Electives: in or outside of music, to complete 48 credit hours.

(e) Terminal requirements: choose one of the following four options: (1) comprehensive written examination, plus an oral examination; (2) thesis, plus an oral examination (thesis will receive six to nine credits from among the electives); (3) major project, plus an oral examination (carries two to four credits); (4) recital (if candidate is working at MuP 571-591 level), plus an oral examination.

(2) For M.A. in Music History or Music Theory: (a) Specific course requirements: Research Methods (Mus 511, 512) 6 credit hours; Thesis (Mus 503) 9 credit hours. (b) Required options: three terms of participation in a large ensemble, 3 credit hours; three terms of studio performance instruction (students who demonstrate ability to pass MuP 271-291 at entrance receive graduate credit by enrolling in MuU 541-561); courses from Mus 425-434, 457, 461-477, 507 (Seminars in Music History or Music Theory), 534-544, 560-589, chosen with a faculty adviser, 18 graduate credit hours.

(c) Electives: in or outside of music, to total 48 credit hours.

(d) Terminal requirements: defined with a faculty adviser; normally include an oral examination on the thesis.

(3) For M.M. in Performance and Literature: available in piano, harpsichord, organ, voice, harp, violin, viola, cello, oboe, flute, clarinet, bassoon, trumpet, trombone, French horn, saxophone, and with a group major in woodwind or brass instruments. (a) Specific course requirements: Research Methods (Mus 511) 3 credit hours; Performance Studies (Studio Instruction) (MuP 571-591) 12 credit hours; one term of Collegium Musicum (Mus 493) 1 graduate credit hour; group majors in woodwind or brass instruments must take Advanced Pedagogy (Woodwinds or Brass) (MuE 491) and Wind-Instrument Music (Mus 477). Their performance study will combine MuP 571-591 and MuP 511-531 and must total 14 credit hours. (b) Required options: Research Methods (Mus 512 or 513) 3 credit hours; three terms of participation in a conducted ensemble, chosen from Mus 595-598, 3 credit hours; Seminars in Performance or Music History, 6 credit hours; courses from Mus 457, Mus 461-477, Mus 507 Seminars in Music History, Mus 543-589, 12 graduate credit hours; courses in music at the level of 400 or above, chosen with a faculty adviser, 8 graduate credit hours. (c) Terminal requirements: a public recital subject to prior approval of an auditioning faculty jury; other terminal requirements defined with a faculty adviser.

Voice majors must demonstrate competence in Italian, French, and German, as follows: equivalent to two years of college study

of one, and one year of college study of each of the other two languages.

Group majors in woodwind or brass instruments must perform (i) a complete public recital of both solo and ensemble music on the primary instrument, and (ii) a substantial composition on each of two minor instruments during a public student recital.

(4) For M.M. in Composition: (a) Specific course requirements: Research Methods (Mus 511) 3 credit hours; Seminar in Composition (Mus 507) 6 credit hours; Thesis (Mus 503) an original composition of major proportions composed, performed, and recorded during the period of degree candidacy at the University of Oregon, 9 credit hours. (b) Required options: three terms in an ensemble chosen with approval of a faculty adviser; two courses chosen from Mus 560-565, 6 credit hours; four courses chosen from Mus 436-439, 485-486; Pedagogy of Composition (MuE 491), MuP 571-591, Seminar in Moog Synthesizer (Mus 407), Mus 540, 541, 542, all graduate credits. (c) Electives: two courses from outside the School of Music at 400 level or above to total 48 graduate credit hours. (d) Terminal requirements: public performance and recording of music composed during the period of the candidate's graduate study at the University of Oregon, to the satisfaction of the composition committee.

Other terminal requirements defined with a faculty adviser, with final approval by the composition committee.

Doctor of Musical Arts: The objective of the doctoral program is to help prepare college music teachers with two areas of advanced competence. Primary and supporting areas of concentration are available in Music Education, History and Musicianship, Performance, and Composition. Further information on the Ph.D. and D.Ed. programs is available from the School of Music office.

(A) Procedures for admission to the doctoral degree program:

For information on University-wide regulations regarding admission, see the Graduate School section of this catalog. (1) Send to the Director of Graduate Admissions, University of Oregon: (a) Graduate Admission Application form, (b) A transcript of all previous undergraduate and graduate studies. (2) Send to the Coordinator of Graduate Studies of the School of Music: (a) a transcript of all previous undergraduate and graduate studies; (b) three letters of recommendation from persons who know the applicant's professional and personal qualifications; (c) recent scores of Graduate Record Examination (GRE) Aptitude Tests, both Verbal and Quantitative; GRE Advanced Music Test; Miller Analogies Test; (d) a sample of the applicant's writing, e.g., a term paper, to demonstrate ability to write acceptable formal English prose about music or the teaching of music; (e) for students choosing either a primary or supporting area in Music Education: two letters of reference indicating two years of successful full-time teaching in either elementary or secondary school or both. These letters may be in addition to the recommendations required of all applicants (in 2b, above); (f) for students choosing either a primary or supporting area in History and Musicianship: a document exemplifying the applicant's scholarship and research ability. This document will serve as the sample of writing requested in 2d, above; (g) for students choosing either a primary or supporting area in Performance: a recent tape recording of the applicant's performance, or a personal audition; a list of repertoire and copies of programs given; (h) for students with either a primary or supporting area in Composition: a score and, if possible, tape recording of an original composition; (i) any other materials the applicant believes will be of interest to the School of Music Graduate Admissions Committee.

(B) Graduation requirements: (1) For Graduate School requirements regarding credits, residence, transfer of previous

graduate work elsewhere, language, and qualifying examinations, see the Graduate School section of this catalog.

(2) At least three years of full-time work beyond the bachelor degree are required, of which at least one academic year (three consecutive terms of full-time study—minimum of nine credit hours per term—beginning in the fall term) must be spent in residence on the Eugene campus of the University of Oregon.

(3) All entering graduate students in Music must take Graduate Diagnostic Examinations, prior to initial registration in residence, in History of Music and in Musicianship. The examination in Music History will consist either of (a) aural evidence, in the form of performance of an excerpt, or (b) visual evidence, in the form of excerpts from score, or both; and (c) lists of musical terms and names. Students will be required to (a) identify or define terms and names, as appropriate, and (b) to analyze the musical excerpts and place them in a historical context. The examination in Musicianship will consist of (a) solving problems to demonstrate knowledge of notational practice in metric contexts; (b) given verbal, or notated and aural evidence, solving problems to demonstrate ability to relate notation, terminology, and sound; (c) singing notated melodies at sight. A faculty adviser will use the results of these examinations to schedule prescribed courses as needed to correct deficiencies. Additional information on these examinations is available from the School of Music office.

(4) All students choosing Performance as a primary or supporting area must audition to demonstrate their readiness for study at the level defined as MuP 641-661 or MuP 671-691. Descriptions of the levels are available from the School of Music office.

(5) Specific Courses Required of all Students: (a) Seminar in Concept Development for Learning Strategies in Music (MuE 507) three terms, beginning fall term only, 9 credit hours; (b) Advanced Pedagogy (MuE 491) two terms, one each in primary and supporting areas, 6 graduate credit hours; (c) Practicum (MuE 509) two terms, one each in primary and supporting areas, 6 credit hours; (d) Research Methods (Mus 511) 3 credit hours.

(6) Required Options for all Students: (a) two courses or seminars in Music History or Music Theory chosen from Mus 407 or from any course at the 500 level in these areas, 6 graduate credit hours; (b) two courses chosen from Mus 560-564, 6 credit hours; (c) as a way to demonstrate the required competence in German, students may choose certain courses in German and pass them with a minimum grade-point average of B; (d) courses outside of music, with or without graduate credit, chosen with a faculty adviser, in addition to those required in primary or supporting areas and to any elementary language courses, 9 credit hours.

(7) Required Demonstrations of Competence for All Students: (a) a translation of selected passages from a total of 100 pages, chosen with a faculty adviser for independent preparation out of a book in German. Another language may be chosen if student and adviser agree that it is more pertinent. Students may elect to take courses in German as an alternative; (b) written or oral comprehensive examinations in both primary and supporting areas, prior to advancement to candidacy; (c) a final oral examination defending the dissertation or document and showing command of the primary area.

(8) Additional requirements for Students with a Primary Area in Performance: (A) Specific courses: (1) Performance Instruction (Studio) (MuP 671-691) six terms, 24 credit hours; (2) Seminar in Thesis Organization (Mus 507) 1 credit hour; (3) Research (related to Doctoral Document) (Mus 503) 6 credit hours. (B) Required options: three terms in a School of Music ensemble or in a regularly organized ensemble outside of the School of Music, chosen with a faculty adviser. (C) Demonstrations of

competence: (1) three public performances, all of which are to be recorded for the archives. One must be a solo recital; the format of the other two will be chosen with a faculty adviser. (2) A written document focusing upon a particular aspect of the performance medium. (3) Voice majors must demonstrate competence in French, German, and Italian as follows: equivalent to two years of college study in one, and equivalent to one year of college study in each of the other two of these languages.

(9) Additional Requirements for Students with a Supporting Area in Performance: (A) Specific courses: Performance Instruction (Studio) (MuP 641-661) three terms, 12 credit hours; (B) Required options: three terms in a School of Music ensemble or in a regularly organized ensemble outside of the School of Music, chosen with a faculty adviser. (C) Demonstrations of competence: (1) two public performances, both of which are to be recorded for the archives. One must be a solo recital; the format of the other will be chosen with a faculty adviser. (2) Voice majors must demonstrate competence in French, German, and Italian as described above for students with a primary area in Performance.

(10) Additional Requirements for Students with a Primary Area in History and Musicianship: (A) Specific courses: (1) Thesis (Mus 503) 18 credit hours; (2) Research Methods (Mus 512) 3 credit hours; (3) Collegium Musicum (Mus 493) three terms, 3 graduate credit hours; (4) Advanced Pedagogy (MuE 491) one term, 3 graduate credit hours; (5) Practicum (MuE 509) one term, 3 credit hours; (6) Seminar in Thesis Organization (Mus 507) one term, 1 credit hour. (B) Required options: None. (C) Demonstrations of competence: two public lecture-demonstrations or lecture-recitals on the University of Oregon campus, one of which must be in the student's primary area.

(11) Additional Requirements for Students with a Supporting Area in History and Musicianship: (A) Specific courses: None. (B) Required options: A program of courses developed in consultation with an adviser, based on long-range career plans as well as a mutually agreeable definition of interests and wants, 12 credit hours. (C) Demonstrations of competence: None.

(12) Additional Requirements for Students with a Primary Area in Music Education: (A) Specific courses: (1) Research Methods (Mus 513) 3 credit hours; (2) Seminar in Thesis Organizations (MuE 507) one term, 1 credit hour; (3) Statistical Methods (PE 540, 541) 6 credit hours; (4) Seminar: New Trends in Music Education (MuE 507) one term, 3 credit hours; (5) Seminar: History of Music Education in the United States (MuE 407) one term, 3 graduate credit hours; (6) Curriculum Development in Music (MuE 538) 3 credit hours; (7) Performance Study (Studio Instruction), three terms, 3 credit hours; (8) Thesis (MuE 503) 18 credit hours. (B) Required options: (1) two courses from MuE 533, 534, 535, chosen with a faculty adviser, 6 credit hours; (2) two courses outside of the School of Music, chosen with a faculty adviser, 6 credit hours; (3) three terms in a School of Music ensemble or in a regularly organized ensemble outside of the School of Music, chosen with an adviser. (C) Demonstrations of competence: None.

(13) Additional Requirements for Students with a Supporting Area in Music Education: (A) Specific courses: (1) Research Methods (Mus 513) 3 credit hours; (2) Statistical Methods (PE 540) 3 credit hours; (3) Performance Study (Studio Instruction), three terms, 3 credit hours. (B) Required options: four courses chosen from Seminar: History of Music Education in the United States (MuE 407); Seminar: New Trends in Music Education (MuE 507); MuE 533, 534, 535, 538, 12 credit hours. (C) Demonstrations of competence: None.

(14) Additional Requirements for Students with a Primary Area in Composition: (A) Specific courses: Advanced Pedagogy of Musicianship (MuE 491) one term; if the supporting area is other than History and Musicianship, this term will be in addition to the one term required in the supporting area, 3 credit hours. (B) Required options: (1) courses in Composition chosen with a faculty adviser, 20 credit hours; (2) courses outside of the School of Music, chosen with a faculty adviser, 3 credit hours; (3) three terms in a School of Music ensemble or in a regularly scheduled ensemble outside of the School of Music, chosen with an adviser. (C) Demonstrations of competence: public performance on the University of Oregon campus of compositions completed during the period of doctoral study, to be recorded for the archives.

(15) Additional Requirements for Students with a Supporting Area in Composition: (A) Specific courses: None. (B) Required options: courses in Composition, Analysis, or Pedagogy of Musicianship or of Composition, chosen with a faculty adviser, 12 credit hours. (C) Demonstrations of competence: public performance on the University of Oregon campus of compositions completed during the period of doctoral study, to be recorded for the archives.

Music

Mus 52. Basic Music. 1 credit hour.

Elementary study of terms and notational symbols, designed to develop elementary competence in performing from notation and in notating musical ideas. Sections for general-campus students and sections for those pre-majors who must take it concurrently with Mus 121.

Mus 121, 122, 123. Musicianship I. 4 credit hours each term.

Study of the disciplines of hearing, performing, analyzing, improvising, and composing different kinds of music; terminology, concepts, and the development of aural-visual acuity. Kammerer, Owen, Steinhart, Tubb.

Mus 195. Band. 1 credit hour any term.

Marching Band, fall term only; Symphonic Wind Ensemble, Eugene-University Wind Ensemble, fall, winter, and spring terms; Concert Band, winter and spring terms only. Upper-division students enroll in Mus 395. Prerequisite: audition for Symphonic Wind Ensemble and Eugene-University Wind Ensemble; interview for Marching Band and Concert Band. May be repeated for maximum of 6 credit hours. Dillon, Vagner.

Mus 196. Orchestra. 1 credit hour any term.

May be repeated for maximum of 6 credit hours.

Mus 197. Chorus. 1 credit hour any term.

University Singers, University Chorale, Chamber Choir, Laboratory Chorus. Prerequisite: audition; consent of instructor. Upper-division students enroll in Mus 397. May be repeated for maximum of 6 credit hours. Saltzman, Wilson.

Mus 199. Special Studies. 1-3 credit hours any term.

Consent of dean and of instructor required.

Mus 201, 202, 203. Introduction to Music and Its Literature. 3 credit hours each term.

Cultivation of understanding and intelligent enjoyment of music through a study of its elements, forms, and historical styles. For general-campus students. Martin.

Mus 204, 205, 206. History of Music I. 3 credit hours each term.

Fall: basic stylistic concepts; the state of music at the close of the baroque period; rococo and *empfindsamer* styles; the classical period to Beethoven. Winter: Beethoven and the early romantic period. Spring: Late romanticism and its reflection in conservative music of the twentieth century. Prerequisite: Mus 121, 122, 123 or consent of instructor. Thal.

Mus 221, 222, 223. Musicianship II. 4 credit hours each term.

A continuation of Mus 121, 122, 123. Prerequisite: Mus 123, or equivalent. Hurwitz, Owen, Tubb.

Mus 240, 241, 242. Composition I. 2 credit hours each term.

Introduction to basic craft of musical composition. Problems of notation, scoring for instruments, basic concepts of form; emphasis on students' own beginning creative work. Consent of instructor is required. Prerequisite: Mus 123.

Mus 321, 322. Music Fundamentals. 2 credit hours each term.

Study of musical notation and terminology; learning musical rudiments through singing simple songs; introduction to simple melodic, rhythmic, and chording instruments. Not open to music majors. Required in the elementary education program and for majors in recreation leadership, camping, and outdoor education. Martin, Nye, Whitfield, Sannerud, others.

Mus 333, 334, 335. Counterpoint I. 2 credit hours each term.

Contrapuntal technique of the sixteenth through the twentieth centuries; composition and analysis. Prerequisite: Mus 223. Hurwitz, Owen, Tubb.

Mus 336, 337, 338. Scoring for Instruments. 2 credit hours each term.

Study of the instruments of the orchestra and band; the practical art of scoring for various instrumental combinations. Prerequisite: Mus 223. Keller, Owen, Tubb.

Mus 340, 341, 342. Composition II. 3 credit hours each term.

Composition and public performance of small works for piano, voice, and small ensembles. Consent of instructor is required. Prerequisite: Mus 242. Keller.

Mus 360, 361, 362. Music History II. 3 credit hours each term.

Fall: plainsong; sacred and secular monody and polyphony through Gesualdo. Survey of the major forms, techniques, and composers of the Middle Ages and Renaissance; analysis of representative works. Winter: survey of the forms, techniques, and compositions of the baroque period; the new monody through the rococo; differentiation of national styles; performance practices; analysis of representative works. Spring: avant-garde music in the twentieth century, Ives through Berio; survey of major musical innovations of each decade in the twentieth century; emphasis on recorded examples; analysis of representative works. Prerequisite: Mus 206. Trombley.

Mus 385, 386. Choral Conducting. 2 credit hours each term.

Study of conducting techniques, with emphasis on practical application to choral organizations; score reading; analysis and interpretation of choral music. Conducting experience with laboratory chorus. Consent of instructor is required. Prerequisite: Mus 223. Risinger.

Mus 387, 388. Instrumental Conducting. 2 credit hours each term.

Baton techniques, with emphasis on practical application to instrumental organizations; score reading; general problems of the conductor of larger instrumental ensembles. Conducting

experience with laboratory ensembles. Consent of instructor is required. Prerequisite: Mus 223. Lee.

Mus 393. Jazz Ensemble. 1 credit hour any term.

Study of jazz and other popular music through large and small group rehearsal. Prerequisite: audition with instructor. Falter, Kammerer.

Mus 394. Chamber Ensemble. 1 credit hour any term.

Study of music through small group rehearsal. For stringed-instrument and wind-instrument players, percussionists, pianists, and singers. Audition, or consent of instructor is required. May be repeated for maximum of 6 hours credit.

Mus 395. Band. 1 credit hour any term.

Prerequisite: upper-division standing, and audition. See Mus 195 for available bands. May be repeated for maximum of 6 hours credit.

Mus 396. Orchestra. 1 credit hour any term.

Prerequisite: upper-division standing; audition. May be repeated for 6 hours maximum credit. Maves.

Mus 397. Chorus. 1 credit hour any term.

Prerequisite: upper-division standing; audition. See Mus 197 for available choruses. May be repeated for maximum of 6 hours credit. Saltzman, Wilson.

Mus 398. Opera Workshop. 2 credit hours any term.

Study of traditional and contemporary repertory for the musical theater, through analysis, rehearsal, and performance of complete and excerpted works; training in stage movement, diction, and rehearsal techniques. Consent of instructor is required. Prerequisite: upper-division standing. May be repeated for maximum of 6 hours credit. Breidenthal.

Mus 405. Reading and Conference. 1-4 credit hours.

Individual study of topics at a level beyond the availability of regularly scheduled classes. Consent of instructor and dean required. Prerequisite: completion of all regularly scheduled classes related to the topic, or equivalent.

Mus 440, 441, 442. Composition III. 2 credit hours each term.

Composition and public performance of works including large ensembles and electronic music. Consent of instructor is required. Prerequisite: Mus 342.

Upper-Division Courses Carrying Graduate Credit

Mus 407. Seminar. (G) 1-3 credit hours.

Studies of various topics at an advanced level, offered periodically according to student and faculty interest and availability.

Mus 425. Advanced Keyboard Harmony. (G) 2 credit hours.

Realization of figured bass notation in the light of baroque performance practices. Prerequisite: Mus 223, Mus 335, or consent of instructor. Owen.

Mus 426, 427. Score Reading. (G) 2 credit hours each term.

Analysis of musical scores of compositions for small and large ensembles involving transposition of parts; use of the piano as a means of studying ensemble scores. Maves.

Mus 430, 431, 432. Advanced Analysis. (G) 2 credit hours each term.

Advanced analytical techniques, especially those developed by Heinrich Schenker and Felix Salzer, applied to music of all periods and styles. Prerequisite: Mus 223. Bergquist.

Mus 433, 434. Counterpoint II. (G) 2 credit hours each term.

Continuation of Counterpoint I, with emphasis on canon and fugue, and on twentieth-century techniques. Prerequisite: Mus 335. Keller.

Mus 435. Experiments in Improvisation and Composition. (G) 3 credit hours any term.

Student compositions rehearsed and recorded by experienced performers in varying predetermined combinations. Discussions of the recordings. Experiments in music-making without conventional notations. Consent of instructor is required. Tubb.

Mus 436, 437. Advanced Scoring for Instruments. (G) 2 credit hours each term.

Continuation of Mus 338. Emphasis on the scoring of original work and on the arranging of major works from other media; study of various styles of scoring by master composers. Prerequisite: Mus 338. Keller.

Mus 438. Scoring for Bands. (G) 3 credit hours.

Scoring for large combinations of wind and percussion instruments. Prerequisite: Mus 337. Dillon.

Mus 439. Scoring for Voices. (G) 3 credit hours.

Techniques of arranging for various types of choral groups, both accompanied and a cappella. Prerequisite: Mus 223. Owen, Tubb.

Mus 450. Listening with Understanding. (g) 3 credit hours.

Introduction to perceptive listening through experiencing and analyzing various types of music; collateral reading and class discussion. Not open to music majors or students with credit in Mus 201, 202, 203.

Mus 451. The Music of Bach and Handel. (g) 3 credit hours.

Study of selected compositions by Bach and Handel, as masterful examples of the concerto grosso, dance suite, organ chorale, cantata, oratorio, opera, and mass; cultural contexts in Germany, France, Italy, and England for the development of their styles. Primarily for nonmajors.

Mus 452. The Classic Symphony and Sonata. (g) 3 credit hours.

Study of symphonies and sonatas by Haydn, Mozart, and Beethoven; elements of style in the Viennese classic period, and its legacy in the nineteenth century. Primarily for nonmajors.

Mus 453. Introduction to Opera. (g) 3 credit hours.

Class study of such operas of *Le nozze di Figaro*, *Carmen*, *Otello*, *Tristan und Isolde*, *Pelléas et Mélisande*, *The Rake's Progress*, as masterpieces fusing theatrical and musical modes of dramatic expression. Primarily for nonmajors.

Mus 454. Introduction to Twentieth-Century Music. (g) 3 credit hours.

Evolution and revolution in musical style since Debussy and Mahler; study of selected masterpieces by such composers as Stravinsky, Bartok, Schoenberg, Copland, and Varèse. Primarily for nonmajors.

Mus 457. Sacred Choral Music. (G) 3 credit hours.

Survey of choral music for church and concert use based on liturgical and nonliturgical sacred themes; performance practices of various styles; development of criteria for judging esthetic quality of the music and its performance.

Mus 461, 462, 463. Music for Chamber Ensemble. (G) 2 credit hours each term.

Study of the basic repertory for string quartet and other en-

sembles using piano and strings, with emphasis on listening and analysis. Prerequisite: Mus 361. Hladky.

Mus 464, 465, 466. Piano Music. (G) 2 credit hours each term.

Survey of solo piano music from J. S. Bach to the present; original works for four hands and for two pianos; the concerto; emphasis on style as it affects performance. Prerequisite: Mus 361. Woods.

Mus 467, 468, 469. Solo Vocal Music. (G) 2 credit hours each term.

Solo songs with accompaniment; the lute air and Purcell; the nineteenth-century art songs in Germany and France; twentieth-century British, American, and continental song literature; development of bases for artistic performance and sound critical judgment through study of text, voice, and accompaniment. Prerequisite: Mus 361. Miller, Wilson.

Mus 470, 471, 472. Orchestral Music. (G) 2 credit hours each term.

Major types of orchestral music, from the eighteenth to the twentieth century; dance suite, symphony, tone poem, descriptive suite; pieces for string orchestra. Prerequisite: Mus 361. Hladky.

Mus 473, 474, 475. History of Opera. (G) 2 credit hours each term.

Critical study of the musical and dramatic content of operas forming the standard international repertoire. Mus 473; antiquity to Mozart. Mus 474; Mozart to Verdi. Mus 475; Wagner to the present. Prerequisite: Mus 361. Miller, Wilson.

Mus 476. Organ Music. (G) 3 credit hours.

The organ in church and concert; organ repertoire from the fifteenth century to the present. Prerequisite: Mus 361. Hamilton.

Mus 477. Wind-Instrument Music. (G) 3 credit hours.

Survey of music for wind instruments and band from the sixteenth century to the present. Emphasis on style and performance practice and on the development of bases for critical judgment in the selection of wind instrument and band music. Prerequisite: Mus 361. Wagner.

Mus 485. Advanced Choral Conducting. (G) 3 credit hours.

Refinement of choral conducting techniques; study of musical scores from contemporary and earlier periods, with emphasis upon analysis, interpretation, and rehearsal procedures. Review of organizational and administrative procedures for choral organizations. Prerequisite: Mus 385, 386. Risinger.

Mus 486. Advanced Instrumental Conducting. (G) 3 credit hours.

The study of conducting techniques as applied to band and orchestral music, with emphasis on various styles and periods of music; study of twentieth-century rhythms and related conducting problems. Prerequisite: Mus 387, 388. Wagner.

Mus 493. Collegium Musicum. (G) 1 credit hour each term.

Study of music repertoire of the medieval, Renaissance, and baroque periods through rehearsals and extensive sight reading; vocal and instrumental repertoire. Owen.

Graduate Courses

Mus 501. Research.

Credit hours to be arranged. No-grade course.

Mus 503. Thesis.

Credit hours to be arranged. No-grade course.

Mus 505. Reading and Conference. 1-4 credit hours.

Individual study of topics beyond the availability of regularly scheduled classes. Consent of instructor and dean required. Prerequisite: completion of all regularly scheduled classes related to the topic, or equivalent.

Mus 507. Seminar. 1-3 credit hours.

Studies of various topics at an advanced level, offered periodically according to student and faculty interest and availability. Seminars are offered regularly in Composition, e.g., Seminar in Composition with Moog Electronic Synthesizer. Examples of other seminars are: Mozart, Stravinsky, History of Music Theory, Comparative Arts, Renaissance Performance Practice, and Conducting.

Mus 511, 512, 513. Research Methods in Music. 3 credit hours each term.

Mus 511: use of general bibliographical sources and reference materials in music. Mus 511 is prerequisite to either Mus 512, a consideration of research methods in music history and theory, or Mus 513, a consideration of experimental research including problems identification, research design, influencing variables, tools of research, and the interpretation of data in relation to the teaching of music. Bergquist, Hamilton, Martin, others.

Mus 533, 534. Twentieth-Century Counterpoint. 2 credit hours each term.

Techniques of present-day contrapuntal practice; application in larger contrapuntal forms. Prerequisite: Mus 434. Keller.

Mus 540, 541, 542. Composition with Electronic Media. 3 credit hours each term.

Electronic-music instruments and techniques; creative use of Moog Electronic Music Synthesizer and tape-recording equipment. Prerequisite: graduate standing. Consent of instructor is required. Keller.

Mus 543, 544. Notation of Medieval and Renaissance Music. 3 credit hours each term.

Study of representative examples of notational systems and practices in western European polyphony from 900 to 1600. Bergquist.

Mus 560. Music in the Middle Ages. 3 credit hours.

Music in the quadrivium; the writings of Boethius; varieties of liturgical music, particularly Gregorian; performance theories. Pitch notation, rhythmic theory and early polyphony at Notre Dame; poetic influences on musical forms; French and Italian *Ars nova*. Bergquist, others.

Mus 561. Music in the Renaissance. 3 credit hours.

The influence of Italian humanism on continental and English styles. Poetic and musical practice in mass, motet, and secular vocal song. Notational developments; music printing. Luther and music; Counter-Reformation in Rome and Venice. Bergquist, others.

Mus 562. Music in the Baroque Era. 3 credit hours.

From the Florentine *Camerata* through the rococo; the new monody, opera, oratorio, cantata, sonata, concerto, suite, and fugue; national styles; performance practices; analysis of representative works, with an emphasis on J. S. Bach. Trombley, others.

Mus 563. Music in the Classical Period. 3 credit hours.

Sources of classic style and their culmination in the Viennese high classical style of Haydn, Mozart, and Beethoven. Dramatic forms and procedures in opera. Bergquist, others.

Mus 564. Music in the Romantic Era. 3 credit hours.

The heritage of Beethoven; virtuosic and lyric extremes in instrumental and vocal styles. Literary romanticism, descriptive music, and the *Lied*; opera in France and Italy; Wagner's music drama as *Gesamtkunstwerk*; the rise of music nationalism; Wagnerism in France. Bergquist, others.

Mus 565. Music in the Twentieth Century. 3 credit hours.

The crisis of Romanticism and tonality: the transition of Debussy, Mahler, and others; formation of new styles by Stravinsky, Schoenberg, Bartok; developments in the United States; implications of recent developments. Bergquist, others.

Mus 589. Baroque Performance Practice. 3 credit hours.

Introduction to seventeenth- and eighteenth-century performance practices; investigation of primary sources; comparative study of recorded examples; preparation of a performing edition; class demonstrations. Trombley.

Mus 593. Jazz Ensemble. 1 credit hour any term.

Study of jazz and other popular music through large and small group rehearsal. Audition with instructor is required.

Mus 594. Chamber Ensemble. 1 credit hour any term.

See Mus 394 for additional information.

Mus 595. Symphonic Band. 1 credit hour any term.

See Mus 195 for additional information.

Mus 596. Orchestra. 1 credit hour any term.

See Mus 196 for additional information.

Mus 597. Chorus. 1 credit hour any term.

See Mus 197 for additional information.

Mus 598. Opera Workshop. 2 credit hours any term.

See Mus 398 for additional information.

Music Education

MuE 199. Special Studies. 1-3 credit hours any term.

Consent of dean and instructor required.

MuE 326. Orientation to Music Education. 3 credit hours.

Observation of the total school music program (grades one through twelve). Includes dialogue with local teachers. McManus, others.

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

Planning and organizing musical activities for elementary school children; opportunities for presenting and testing ideas and techniques. Required for elementary-education majors. Prerequisite: Mus 321, 322. Martin, Nye, Whitfield, others.

MuE 391. Voice Pedagogy. 1 credit hour any term.

Vocal techniques for chorus, studio, and class instruction. Methods and materials for adolescent and mature soloists. Bailey.

MuE 392. Instrumental Techniques. 1 credit hour any term.

Elementary instruction in pedagogy and performance of various instruments. Sections in: Strings, Woodwinds, Brass, Percussion, Flute, Clarinet and Sax, Oboe and Bassoon, Violin and Viola, Cello. Primarily for majors in music education. Two recitations.

MuE 405. Reading and Conference. 1-4 credit hours.

Individual study of topics at a level beyond the availability of regularly scheduled classes. Consent of instructor and dean required. Prerequisite: completion of all regularly scheduled classes related to the topic, or equivalent.

MuE 408. Special Teaching Methods. 3 credit hours.

Precedes student teaching. Consideration of the concerns of music teachers in the secondary and elementary schools. Observations, procedures, and instructional materials; planning and teaching lessons for analysis and criticism. Required for all candidates for certification. Instrumental, 1 term, McManus; choral-general elementary, 1 term, Nye; choral-general secondary, 1 term, Whitfield.

MuE 418. Colloquium in School Music. 3 credit hours.

An analysis of the interrelationships among the various areas of the field of music; to be taken in the last term of the senior year. Whitfield, others.

MuE 425. Classroom Instruments. 2 credit hours.

Basic performing skills on the recorder and guitar, and advanced strumming techniques on the Autoharp. Consent of instructor is required. Nye, Sannerud.

MuE 426. The General Music Program: Elementary. 3 credit hours.

Musical development of children from nursery school through elementary school; curriculum, methods, materials, and evaluation. Nye.

Upper-Division Courses Carrying Graduate Credit

MuE 407. Seminar. (G) 1-3 credit hours.

Studies of various topics at an advanced level, offered periodically according to student and faculty interest and availability.

MuE 409. Practicum. (G) 1-4 credit hours.

Supervised experience in guiding learning activities. Consent of instructor and dean required.

MuE 427. The General Music Program: Secondary. (G) 3 credit hours.

Objectives, procedures, instructional materials, and evaluation of music programs for the general student in both junior and senior high schools. Whitfield.

MuE 444. Choral Materials for Schools. (G) 2 credit hours.

Repertoire for choral groups in secondary schools; review of choral music from early historical periods to the *avant-garde*; development of criteria for selection of choral music; instructional program and concert planning. Risinger.

MuE 445. String Materials for Schools. (G) 2 credit hours.

Repertoire for orchestra and other stringed-instrument groups in elementary and secondary schools; problems of leadership, presentation, organization, and program planning. Consent of instructor is required. Mann.

MuE 446. Wind-Instrument Materials for Schools. (G) 2 credit hours.

Repertoire for bands and other wind-instrument groups in elementary and secondary schools; problems of leadership, presentation, and organization. Consent of instructor is required. Cunningham.

MuE 447. Psychology of Music. (G) 3 credit hours.

Functions of the musical mind; knowledge and intellectual skills related to mature musical perception; implications for the teaching of music. Prerequisite: EPsy 326, or equivalent. Wilson.

MuE 491. Advanced Pedagogy. (G) 3 credit hours any term.

Sections in: brass, college music-education courses, composition, history, musicianship, percussion, piano, stringed instruments, voice, woodwinds. Maximum of 9 credit hours permitted.

Graduate Courses

MuE 501. Research.

Credit hours to be arranged. No-grade course. Consent of instructor is required.

MuE 503. Thesis.

Credit hours to be arranged. No-grade course. Consent of instructor is required.

MuE 505. Reading and Conference. 1-4 credit hours.

Individual study of topics beyond the availability of regularly scheduled classes. Consent of instructor and dean required. Prerequisite: completion of all regularly scheduled classes related to the topic, or equivalent.

MuE 507. Seminar. 1-3 credit hours.

Study of various topics at an advanced level, offered periodically according to student and faculty interest and availability.

MuE 509. Practicum. 1-4 credit hours.

Professionally related experience on campus or elsewhere, with supervision by a qualified expert both in planning and in carrying out the project. Consent of instructor and dean required. Prerequisite: knowledge and competence both in the substance of the activity and in curricular planning.

MuE 532. Basic Concepts in Music Education. 3 credit hours.

The introductory course for students of music education entering the master-degree program; review of recent developments and their implications; principles and issues; historical perspectives. Nye.

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

Curricula, materials, and procedures of teaching general music in the elementary school. Nye.

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

Current concerns and philosophies related to music in the junior high school and in the life of its students. Whitfield.

MuE 535. Music in the Senior High School. 3 credit hours.

Curricula, organization, methods, and materials in senior high-school music, both vocal and instrumental. McManus, Risinger.

MuE 536. Administration of School Music. 3 credit hours.

Principles underlying a sound policy in the administration of school music programs; budgets, personnel, curriculum, facilities. McManus, Nye, Risinger, Whitfield.

MuE 538. Curriculum Development in Music. 3 credit hours.

Application of curricular theory to the construction of courses of study in music; determination of objectives, content, and instructional materials; development of evaluative criteria. Whitfield.

Performance Studies (Studio Instruction)

Note: The following courses are offered on a provisional basis, subject to final approval by the State Board of Higher Education; they have emergency approval only for 1973-74.

MuP 50-56. Basic Performance Studies. 1 credit hour any term.

Consent of instructor is required. Maximum of 3 credit hours permitted. No-grade course.

MuP 50. Piano.	MuP 54. Brass.
MuP 51. Voice.	MuP 55. Percussion.
MuP 52. Strings.	MuP 56. Guitar.
MuP 53. Woodwinds.	

MuP 71-91. Intermediate Performance Studies. 1 credit hour any term.

(Formerly Mus 90.) Instruction in performance for students with minimal previous training. Audition, consent of instructor required. Maximum of 3 credit hours permitted. No-grade course. Extra fee.

MuP 71. Piano. Bittner, Steinhardt, Woods, Thal.	MuP 80. Guitar.
MuP 72. Harpsichord. Hamilton.	MuP 81. Flute. Trombley.
MuP 73. Organ. Hamilton.	MuP 82. Oboe. Cunningham.
MuP 74. Voice. Bailey, Breidenthal, Miller, Wilson.	MuP 83. Clarinet. McManus, Vagner.
MuP 75. Violin. Maves, Mann.	MuP 84. Saxophone. Cunningham.
MuP 76. Viola. Maves, Mann.	MuP 85. Bassoon. Bergquist.
MuP 77. Cello. Hladky.	MuP 86. Trumpet. Dillon.
MuP 78. Bass. Hladky.	MuP 87. French Horn. Kammerer.
MuP 79. Harp. Calkins.	MuP 88. Trombone. Lee.
	MuP 89. Baritone. Lee.
	MuP 90. Tuba. Lee.
	MuP 91. Percussion. Falter.

MuP 171-191. Performance Studies (Studio Instruction). 1-4 credit hours any term.

(Formerly Mus 190.) Technical and stylistic aspects of artistic solo performance; first level of lower-division study. For instructors, see MuP 71-91. Degree candidates specializing in performance normally enroll for two half-hour lessons per week. Degree candidates with other specializations in music enroll for one half-hour lesson per week. Daily practice schedule determines hours of credit. Maximum credit permitted degree candidates outside music is 12 credit hours. Maximum credit for music majors working toward the B.A. or B.S. degree is 24 credit hours with not more than 12 credit hours in MuP 171-191, MuP 271-291. Audition, consent of instructor required. Enrollment quotas imposed in all media at all levels. Instruction in guitar not available at upper-division nor graduate levels.

Premajors and majors in music receive studio instruction in one medium without extra fee at the level of MuP 171-191 and above, with the following exceptions: (1) all students of harp and guitar pay an extra fee; (2) students for whom studio instruction in a second medium is an explicit degree-requirement receive such instruction as is available without extra fee. Information concerning levels of proficiency at each level in each medium, MuP 71-91 through MuP 671-691, may be obtained from the School of Music office.

MuP 271-291. Performance Studies (Studio Instruction). 1-4 credit hours any term.

(Formerly Mus 290.) Second level of lower-division study. For details, see MuP 171-191. Consent of instructor is required. Prerequisite: proficiency required for satisfactory completion of instruction at the level of MuP 171-191.

MuP 341-361. Performance Studies (Studio Instruction). 2 credit hours any term.

(Formerly Mus 391.) Upper-division study for degree candidates specializing in other than performance. For details, see MuP 171-191. Consent of instructor is required. Prerequisite: jury audition; proficiency required for satisfactory completion of instruction at the level of MuP 271-291.

MuP 341. Piano. Bittner, Steinhardt, Woods, Thal.	MuP 352. Oboe. Cunningham.
MuP 342. Harpsichord. Hamilton.	MuP 353. Clarinet. McManus, Vagner.
MuP 343. Organ. Hamilton.	MuP 354. Saxophone. Cunningham.
MuP 344. Voice. Bailey, Breidenthal, Miller, Wilson.	MuP 355. Bassoon. Bergquist.
MuP 345. Violin. Maves, Mann.	MuP 356. Trumpet. Dillon.
MuP 346. Viola. Maves, Mann.	MuP 357. French Horn. Kammerer.
MuP 347. Cello. Hladky.	MuP 358. Trombone. Lee.
MuP 348. Bass. Hladky.	MuP 359. Baritone. Lee.
MuP 349. Harp. Calkins.	MuP 360. Tuba. Lee
MuP 351. Flute. Trombley.	MuP 361. Percussion. Falter.

MuP 371-391. Performance Studies (Studio Instruction). 2-4 credit hours any term.

(Formerly Mus 390.) First level of upper-division study for degree candidates specializing in performance. For details, see MuP 171-191. Consent of instructor is required. Prerequisite: jury audition; proficiency required for satisfactory completion of instruction at the level of MuP 271-291.

MuP 471-491. Performance Studies (Studio Instruction). 2-4 credit hours any term.

(Formerly Mus 490.) Second level of upper-division study for degree candidates specializing in performance and preparing a recital. For details, see MuP 171-191. Consent of instructor is required. Prerequisite: proficiency required for satisfactory completion of instruction at the level of MuP 371-391.

Graduate Courses

MuP 511-539. Performance Studies (Studio Instruction). 1 credit hour any term.

(Formerly Mus 592.) Beginning study for graduate students in a secondary performance medium. For details, see MuP 171-191. Consent of instructor is required. Prerequisite: jury audition in the primary performance medium to demonstrate proficiency required for admission to MuP 341-369 or MuP 371-398. May be repeated for maximum of 3 credit hours.

MuP 541-569. Performance Studies (Studio Instruction). 1-2 credit hours any term.

(Formerly Mus 591.) Graduate-level study for degree candidates specializing in other than performance. For details, see MuP 171-191. Consent of instructor is required. Prerequisite: jury audition to demonstrate proficiency required to complete MuP 271-291. May be repeated for maximum of 6 credit hours.

MuP 571-591. Performance Studies (Studio Instruction). 2-4 credit hours any term.

(Formerly Mus 590.) Master-level study for master-degree candidates specializing in performance. For details, see MuP 171-191. Consent of instructor is required. Prerequisite: jury audition to demonstrate proficiency required to complete MuP 471-491; sufficient talent and experience to justify the undertaking of performance as a supporting area.

MuP 641-661. Performance Studies (Studio Instruction). 1-4 credit hours any term.

(Formerly Mus 491.) Doctoral-level study for degree candidates with a supporting area in performance. For details, see

MuP 171-191. Consent of instructor is required. Prerequisite: jury audition to demonstrate proficiency required to complete MuP 571-591; sufficient talent and experience to justify the undertaking of performance as a supporting area.

MuP 671-691. Performance Studies (Studio Instruction). 2-4 credit hours any term.

(Formerly Mus 690.) Doctoral-level study for degree candidates with a primary area in performance. For details, see MuP 171-191. Consent of instructor is required. Prerequisite: jury audition to demonstrate proficiency required to complete MuP 571-591; sufficient talent and experience to justify the undertaking of performance as a primary area.



Reserve Officers Training Corps

Military Science Studies

Faculty

Department Head, William E. Burr II, Colonel, U. S. Army, Professor of Military Science (international relations, military history). B.S., West Point, 1944; M.A., George Washington University, 1964; at Oregon since 1971.

Michael J. Dolan III, Captain, U. S. Army, Assistant Professor of Military Science (military instruction, tactics). B.C.S., Seattle University, 1968; at Oregon since 1972.

Robert L. Gattman, Sergeant Major, U. S. Army, Special Staff; at Oregon since 1972.

Edward R. Gear, Major, U. S. Army, Assistant Professor of Military Science (leadership, management). B.S., Texas A & M College, 1958; at Oregon since 1971.

Adrian Hekking, Captain, U. S. Army, Assistant Professor of Military Science (organization, management). B.A., Maryland, 1964; M.B.A., Ohio State, 1972; at Oregon since 1972.

Michael Vasey, Major, U. S. Army, Assistant Professor of Military Science (leadership, management). B.S., 1962, M.A., 1972, Oregon; at Oregon since 1973.

Gary N. Woodle, Master Sergeant, U. S. Army, Special Staff; at Oregon since 1972.

THE Department of Military Science is organized as a regular instructional division of the University. The mission of the department is to select and prepare students to serve as commissioned officers in the United States Army. The instruction includes a two year lower-division program and a two year upper-division program. Graduate students are eligible for entry in the program; however, graduate credit is not given for the courses of instruction.

Lower-Division Program. The lower-division program is elective for men students who are under 23 years of age on first enrollment in the University, who are citizens of the United States, and who meet prescribed physical standards. Students who are members of any of the reserve forces of the armed services or who have served on active duty in any of the armed services should consult the department concerning eligibility for advanced standing.

Upper-Division Program. The upper-division program includes two years of instruction on the University campus, plus a summer training period. Completion of the program and academic requirements for a bachelor degree qualifies the student for appointment as a commissioned reserve officer.

The summer-training period, normally in the summer between the student's junior and senior years, is conducted at one of the regular installations of the Army. It provides application of theory and familiarization with weapons, operations, organizational methods, and installational activities.

Students enrolled in the upper-division program receive a stipend for a total period of not to exceed twenty months (the current

rate is \$100 a month). Students are issued all required textbooks and uniforms. During the summer-training period, students are provided food and lodging, are paid at half of the rate of an Army second lieutenant, and receive a travel allowance of six cents a mile to and from the training installation. To be admitted to the upper-division program, a student must have completed either (1) the lower-division program offered by the University or (2) a six-week field training course at an Army installation during the summer between his sophomore and junior years. Other qualifications for eligibility are as follows:

- (1) Acceptance by the University of Oregon as a regularly enrolled student.
- (2) Ability to complete all requirements for appointment as a second lieutenant before reaching 28 years of age.
- (3) Successful completion of such survey or general screening tests as may be prescribed.
- (4) United States citizenship.
- (5) Physical qualification for appointment as a commissioned officer.
- (6) Execution of a written agreement with the United States government to complete the two year upper-division program, including attendance at the summer-training period, and to satisfy the service obligation after graduation.

Relation of ROTC to Selective Service. Enrollment in the ROTC program does not waive the requirement for registration under the Universal Military Training and Service Act of 1951; all students who are 18 years of age must register with their local draft boards.

Students accepted for enrollment in the lower-division program may be granted draft deferment. Students enrolled in the upper-division program are enlisted in the armed services reserves until completion of the program. Upper-division students receiving ROTC deferment are required to satisfy their service obligations as commissioned officers after graduation and appointment.

Scholarships. The Army annually awards scholarships, providing full tuition, book allowance, and incidental fees, to well-qualified students enrolled in the program of the Department of Military Science. Scholarship recipients also receive a monthly subsistence allowance of \$100.

Flight Training. A program of flight training is offered, without charge, to selected students who are enrolled in Military Science IV (Mil 411, 412, 413) or have completed Military Science IV and are still enrolled in the University as undergraduates. Information concerning eligibility requirements may be obtained in the Army ROTC office.

Extracurricular Activities. The department supports the activities of a number of cadet organizations such as a drill team and color guard, rifle team, war-games club, and, for those interested in outdoor activities and individual skills there is marauder (ranger) training.

Curriculum. The curriculum is an interdisciplinary course of study designed to meet the following objectives: (1) a general knowledge of the historical development of the United States Army and of the Army's role in support of national objectives; (2) a working knowledge of the general organizational structure

of the Army, and of how the various components thereof operate as a team in the fulfillment of overall objectives; (3) a strong sense of personal integrity, honor, and individual responsibility; knowledge of human relationships involved and an understanding of the responsibilities inherent in assignments within the military service; (4) ability to communicate effectively both orally and in writing; and (5) sufficient knowledge of military life to insure a smooth transition from the normal civilian environment.

Mil 121, 122, 123. Military Science I. 1 credit hour each term.

Organization and missions of the armed forces; concepts of leadership; map and aerial photograph reading; introduction to tactics; and leadership development.

Mil 221, 222, 223. Military Science II. 1 credit hour each term.

Topical military subjects such as civilian control of the military; the impact of logistics on military operations; the professional soldier's place in society; weapons systems: master or servant. Laboratory in leadership development.

Note: During the period of enrollment in the program, each cadet is required to enroll in a one-term three-credit course in military history taught by the History Department, and a one-term three-credit course in international relations from the regular offerings of the Political Science or other appropriate department. These courses satisfy group requirements for a bachelor degree.

Mil 321, 322, 323. Military Science III. 3 credit hours each term.

Leadership, military teaching principles; tactics and communication; leadership development.

Mil 411, 412, 413. Military Science IV. 3 credit hours each term.

Staff and command functions in the military; military justice; defense strategies; service orientation; leadership development.

Aerospace Studies

Faculty

Donald F. Ford, Colonel (USAF), Ph.D., Professor of Aerospace Studies. B.A., Coe College, 1944; M.A., Washington University, 1958; Ph.D., St. Louis University, 1966; at Oregon since 1971.

Louis C. Tronzo, Major (USAF), M.S., Assistant Professor of Aerospace Studies. B.S., Penn State, 1959; M.S., U.S.C., 1971; at Oregon since 1972.

Robert T. Golly, Major (USAF), M.S., Assistant Professor of Aerospace Studies. B.S., Wisconsin State; 1956; M.S., AFIT Wright-Patterson AFB, Ohio, 1957; M.A., Oregon, 1973; at Oregon since 1970.

Nicholas W. Kirincich, Captain (USAF), M.S., Assistant Professor of Aerospace Studies. B.S., Neward College of Engineering 1964; M.S., St. Mary's Texas, 1966; at Oregon since 1970.

Special Staff

L. J. Bailes, Staff Sergeant, Sergeant Major.

M. J. Comeau, Staff Sergeant, Administrative Specialist.

J. J. Delahunt, Staff Sergeant, Administrative Specialist.

R. E. Gronlund, Staff Sergeant, Personnel Technician.

THE Aerospace Studies curriculum is designed to provide education that will develop skills and attitudes vital to the career of the professional Air Force officer, and to qualify college men and women for commissions in the United States Air Force. It includes two major activities, University and Aerospace instruction and leadership laboratory.

Students qualify for appointment as commissioned reserve officers upon completion of the upper-division program and the award of the baccalaureate degree.

Two programs geared for commissioning are available for college students. Entering freshmen may enroll in the AFROTC four-year program and students with at least two years of undergraduate or graduate work remaining may apply for the two-year program.

In the four-year program, students must complete the lower-division courses, attain a satisfactory result on the Air Force Officers Qualifying Test, and an Air Force medical examination, and be selected by an interview board of Air Force Officers. A four-week Field Training session must also be completed at an Air Force base prior to entry into the last two years of the program.

In the two-year program, students must meet the same requirements as for the four-year program except they complete a six-week field-training course then complete only the last two years of the program. All cadets in the last two years of either program receive \$100 per month (tax-free) during the school year.

Flight training. The Air Force offers a flight instruction program to senior cadets who will enter pilot training. The flight training conducted at a local FAA-approved civilian flying school, provides flight instruction of sufficient scope to qualify the student in the basic principles of flying in aircraft of 65-200 horsepower. Students who successfully complete the flight instruction program may qualify for a private pilot's license.

Women in AFROTC. Women may receive a commission through AFROTC. The programs for women are identical to those for men, except that women are ineligible for flying training.

Scholarships. Students in the four or two-year program may compete for scholarships which pay tuition, laboratory and incidental fees, an allowance for books, and a \$100 monthly tax-free allowance.

Career opportunities. Flying candidates may receive end assignments in helicopters, transport, tactical airlift, tanker, tactical fighter, fighter interceptor, tactical bomber, strategic bomber or reconnaissance aircraft. Navigator-observer end assignments are as navigator-bombardier, navigator systems operator, or weapons systems officer.

AS 121, 122, 123. Aerospace Studies I. 1 credit hour each term.

Study of U.S. Air Force, strategic-offense forces, general-purpose forces, and Aerospace support forces. Corps training provides practical leadership experience in basic military activities, and in officers' conduct.

AS 221, 222, 223. Aerospace Studies II. 1 credit hour each term.

Examination of the development of Air Power over the past sixty years, training development of various concepts of employment, factors prompting research and technological change.

Note: During the period of enrollment in the program, each cadet is required to enroll in a one-term three-credit course in military history taught by the History Department, and a one-term three-credit course in international relations from the regular offerings of the Political Science or other appropriate department. These courses satisfy group requirements for a bachelor degree.

AS 321, 322, 323. Aerospace Studies III. 3 credit hours each term.

The armed forces as an integral element of society; the broad ranges of civil-military relations and context in which overall defense policy is formulated.

AS 405. Reading and Conference.

Supervised individual studies, covering portions of the material of AS 121, 122, 123, AS 221, 222, 223, AS 321, 322, 323, and AS 411, 412, 413. Total credit earned in these sequences and in AS 405 may not exceed 18 credit hours. Consent of instructor is required. Credit hours to be arranged.

AS 411, 412, 413. Aerospace Studies IV. 3 credit hours each term.

Study of Air Force leadership at the junior-officer level, including theoretical, professional and legal aspects; study of military management functions, principles, and techniques. Corps training provides varied advanced leadership experiences.



Professional Schools on the Portland Campus

Dental School

Dean, Louis G. Terkla, D.M.D.

Associate Dean for Academic Affairs, Robert J. Bruckner, D.M.D.

Associate Dean for Administrative Affairs, Eugene W. Bauer,
B.S.

Registrar, Phillip D. Ray, B.S.

Librarian, Carol G. Jenkins, M.L.S.

THE University of Oregon Dental School, located in Portland, was established through an act of the 1945 Oregon Legislature; the act accepted the gift of the property of the North Pacific College of Oregon, and incorporated the college into the Oregon State System of Higher Education as a school of the University. The North Pacific College was the outgrowth of the merger in 1900 of the Tacoma Dental College which had been founded in 1893, and the Oregon College of Dentistry which had been founded in 1898.

The Dental School offers a professional curriculum in dentistry, leading to the degree of Doctor of Dental Medicine, graduate programs leading to the Master of Science degree with majors in the fields of anatomy, bacteriology, biochemistry, dental materials, operative dentistry and dental materials, oral pathology, orthodontics, pedodontics, periodontology, pharmacology, and physiology, and a two-year program for the training of dental hygienists.

The professional curriculum is organized to provide the basic scientific knowledge, the mechanical skills, and the clinical experience essential for competence and success in dentistry. The curriculum requires four years of didactic and clinical training. Three or more academic years of preprofessional work in an accredited college or university are required for admission to the Dental School. The University offers, on the Eugene campus, a three-year preidental curriculum which satisfies the admission requirements of the Dental School; the curriculum appears on page 70 of this catalog.

The Dental School also offers a two-year dental hygiene program. One year of college-level education is a requirement for admission. Upon completion of the dental hygiene program, students may, by taking one additional year of work on the Eugene campus, satisfy the requirements for the Bachelor of Science degree with a major in health education; the program is supervised by the College of Health, Physical Education, and Recreation. Students may be granted a Bachelor of Science degree in Dental Hygiene upon completion of the Dental Hygiene program if they

have completed the additional requirements for this degree. Consult the Dental School catalog for details.

Detailed information concerning the Dental School is published in a separate catalog; copies may be obtained upon request from the Registrar, University of Oregon Dental School, Portland, Oregon 97201.

Medical School

Dean, Charles N. Holman, M.D.

Associate Dean, M. Roberts Grover, Jr., M.D.

Associate Dean for Business Affairs, William A. Zimmerman, B.S.

Assistant Dean, Joseph J. Adams, B.B.A.

Assistant Dean, Victor D. Menashe, M.D.

Registrar, Dick B. Speight, A.B.

Librarian, Margaret Hughes, B.S.

THE University of Oregon Medical School, located in Portland, was chartered in 1887, as Oregon's second medical school. The first, the medical department of Willamette University, was merged with the University of Oregon Medical School in 1913. The campus is a 101-acre tract in Sam Jackson Park overlooking the city. Located on the same campus are the University of Oregon Dental School and the University of Oregon School of Nursing.

The Medical School offers a standard curriculum in medicine, leading to the M.D. degree, a special five-year combined medical and graduate program leading to the M.S. and M.D. degrees, a seven-year program for the M.D. and Ph.D. degrees, graduate studies in the basic sciences leading to the M.S. and Ph.D. degrees, programs in medical technology leading to the B.S. and M.S. degrees, affiliation in radiologic technology, an internship in hospital dietetics, affiliations in physical and occupational therapy, and training in cytotechnology and orthoptic technique. The school's internship and residency programs provide more than 300 appointments to qualified physicians. Extensive continuing education programs are conducted for physicians and nurses.

The Medical School's hospitals and clinics, located on the campus, provide teaching laboratories for clinical studies; 15,000 patients receive medical services and treatment annually in the school's hospitals; recorded visits to the school's outpatient clinics total more than 165,000 each year. The Medical School's research pro-

gram is supported through funds provided by the state and federal governments and by foundations and private donors; research grant expenditures total approximately \$5,000,000 annually.

Curriculum in Medicine. The curriculum in medicine leading to the M.D. degree requires a minimum of three years of premedical studies, followed by four years of work at the Medical School.

A student entering the Medical School without a Bachelor of Arts or Bachelor of Science degree must complete the work required for one of these degrees at the University of Oregon or at the institution at which he or she completed premedical studies, before entering upon the work of the third year in the Medical School.

The University of Oregon and most of the colleges and universities of the Pacific Northwest recognize credit earned by a student during the first two years at the Medical School as credit earned in residence toward the bachelor degree.

A suggested premedical curriculum for students planning to enter the Medical School is presented on page 71 of this catalog.

Curriculum in Medical Technology. The curriculum in medical technology leading to the bachelor degree is a four-year program, including three years of work on the Eugene campus of the University, followed by one year at the Medical School. The course of study is presented on page 71 of this catalog.

Medical School Catalogs. Separate catalogs describing the curricula in medicine and medical technology and the graduate programs in the basic sciences may be obtained from the Medical School.

School of Nursing

Dean, Jean E. Boyle, M.N. (Portland campus)

Coordinator, Guili J. Olson, M.S., R.N. (Eugene campus)

THE University of Oregon has offered professional courses in nursing in Portland since 1919. The first course of study was in Public Health Nursing and was administered through the Portland Division of the School of Sociology and the Portland School of Social Work. In 1926, the University introduced the nursing

curriculum leading to a bachelor degree. As part of the reorganization of the State System of Higher Education in 1932, the Portland School of Social Work was discontinued and the program in nursing was transferred to the University of Oregon Medical School and established in a Department of Nursing Education. A graduate program, leading to a Master of Science degree, was established in 1955. In the fall of 1960, the department was reorganized as the University of Oregon School of Nursing.

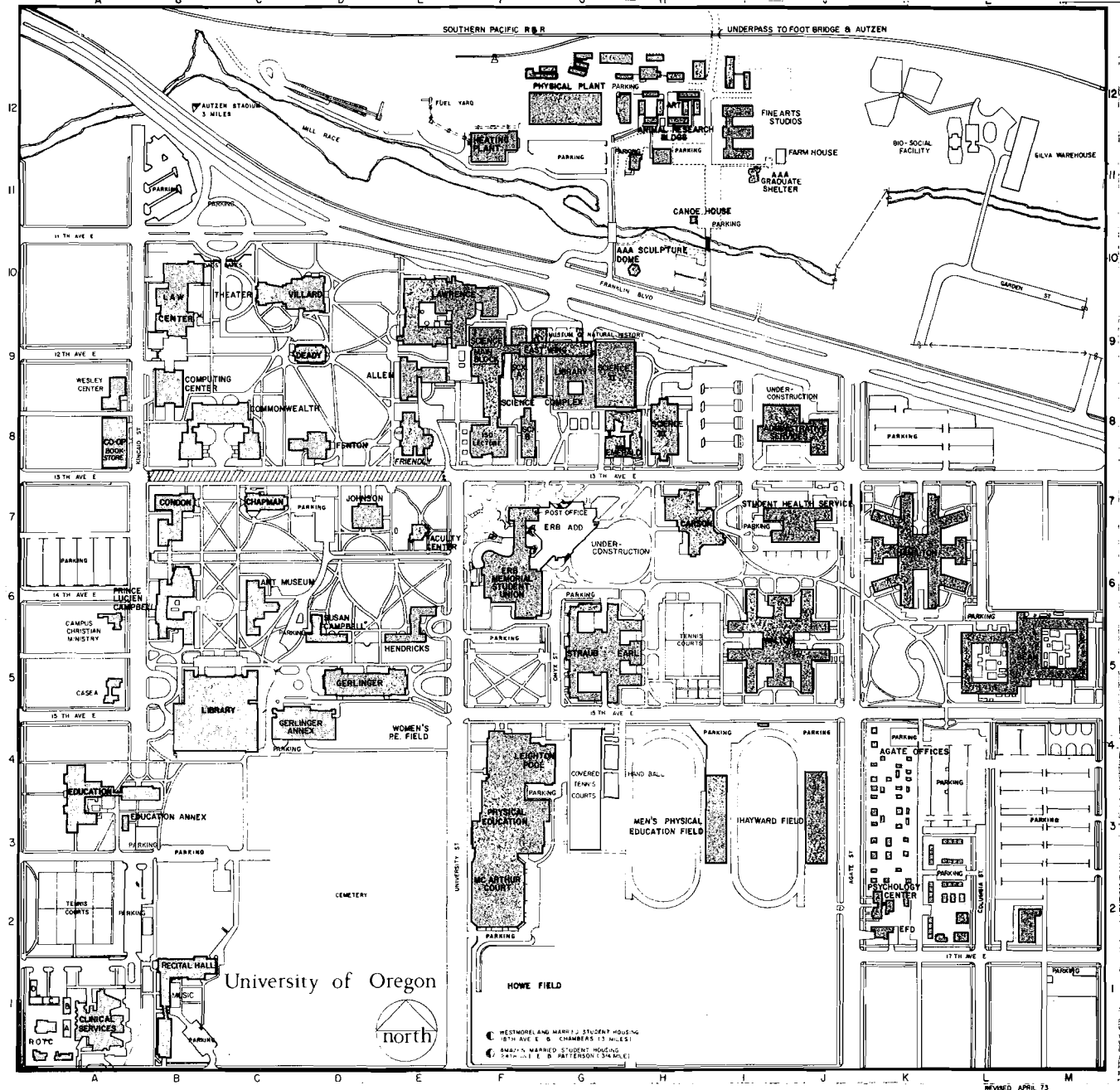
The School of Nursing offers a curriculum leading to the Bachelor of Science degree. It is designed for two types of students, those with no previous preparation in nursing, and those who are graduates of hospital or community-college schools of nursing. The curriculum includes preparation in public-health nursing.

The school offers two graduate programs. One is an advanced curriculum leading to a Master of Science in Nursing Education. A major in Medical Surgical Nursing is offered. This program is planned to prepare nurses for faculty positions. The other, a degree leading to a Master of Nursing, authorized in 1971, provides clinical nursing specialization in a particular area of study.

The freshman year of the bachelor-degree program is offered on the Eugene campus of the University of Oregon and by other accredited colleges and universities. The remainder of the program, as well as the master-degree program, is offered at the University of Oregon School of Nursing located on the Medical School campus in Portland. Professional study is offered throughout the curriculum, with greater concentration during the junior and senior years. The School of Nursing utilizes the hospitals and clinics of the Medical School. In addition, the following off-campus facilities are used: selected health departments; the Visiting Nurse Association; Dammasch State Hospital, Wilsonville; Physicians and Surgeons Hospital, Portland; Veterans Administration Hospital, Portland; St. Vincent Hospital, Portland; Portland State College.

The curricula in nursing meet University standards and requirements. The School of Nursing is a member of the Department of Baccalaureate and Higher Degree Programs of the National League for Nursing; its baccalaureate program is accredited by the National Nursing Accrediting Service and the Oregon State Board of Nursing. The National Nursing Accrediting Service has granted reasonable assurance of accreditation for the Master of Nursing program.

Detailed information concerning the School of Nursing is published in a separate catalog, copies of which will be furnished by writing to: Dean, University of Oregon School of Nursing, 3181 S.W. Sam Jackson Park Road, Portland, Oregon 97201.



University of Oregon

north

WESTMORELAND HALL STUDENT HOUSING
15TH AVE. E. & CHAMBERS (13 MILES)

AMAZIN' MARRIED STUDENT HOUSING
24TH AVE. E. & PATTERSON (3.34 MILES)

REVISED APRIL 73

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Oregon State System of Higher Education

THERE are nine state-supported institutions of higher learning in Oregon which provide professional, technical, and liberal arts education for the state's 2.5 million people. Governing body of this integrated system is the Oregon State Board of Higher Education, established in 1929.

The nine board members are appointed by the governor and approved by the State Senate for terms of four years. They serve without salary and meet regularly at monthly intervals. Regular meetings of the Board and its four standing committees are open to the public.

The State Board appoints presidents, vice-presidents and deans of the nine member institutions. It bears ultimate responsibility for determining academic allocations, for establishment of new degree programs and certain changes in curriculum, setting tuition and fees, and establishing admissions requirements.

Acquisition and sale of property, construction, renovation and remodeling of buildings, and any legal actions involving member schools rest in the hands of the State Board.

All operating and construction funds are controlled by the State Board which maintains a permanent staff to administer its affairs, with offices in Eugene, Portland, Corvallis, Monmouth, and Salem. The staff is headed by Chancellor of the State System of Higher Education Roy Lieuallen, appointed by the board, with offices in Eugene.

Member institutions of the State System of Higher Education are: University of Oregon, Eugene; Oregon State University, Corvallis; Portland State University, Portland; Oregon College of Education, Monmouth; Southern Oregon College, Ashland; Eastern Oregon College, La Grande; Oregon Technical Institute, Klamath Falls; University of Oregon Medical School, Portland; and University of Oregon Dental School, Portland.

Oregon State Board of Higher Education

The Oregon State System of Higher Education is governed by the Oregon State Board of Higher Education, whose members are appointed to four-year terms by the Governor with confirmation by the Senate. Their names and term expiration dates follow:

George H. Layman, Newberg, 1976
President and Chairman, Executive Committee
John W. Snider, Medford, 1975
Vice-President and Member, Executive Committee
George H. Corey, Pendleton, 1975
Member, Executive Committee

Robert D. Holmes, Seaside, 1977
Elizabeth H. Johnson, Redmond, 1974
Philip A. Joss, Portland, 1976
John D. Mosser, Portland, 1976
Loran L. Stewart, Eugene, 1977
Edward G. Westerdahl II, Portland, 1977

The Chancellor

Roy E. Lieuallen, Chancellor
Richard L. Collins, Secretary of Board

The Chancellor is the chief executive of the State System of Higher Education. He also receives recommendations from institution heads and presents all appropriate business to the State Board. The Chancellor, together with institutional heads, is responsible for carrying out Board policies at member institutions of higher learning.

The Oregon State Legislature appropriates funds to the State Board for the public institutions of higher education. The Chancellor is the Board's official spokesman before the Legislature, presenting recommendations on both financial support and staffing. Institutional heads and staff members also may appear to assist with the presentations.

Officers

Roy E. Lieuallen, Ed.D., L.H.D., Chancellor
Robert D. Clark, Ph.D., President, University of Oregon
Charles N. Holman, M.D., Dean, Medical School
Louis G. Terkla, D.M.D., Dean, Dental School
Gregory B. Wolfe, Ph.D., President, Portland State University
Robert W. MacVicar, Ph.D., President, Oregon State University
James K. Sours, Ph.D., President, Southern Oregon College
Averno M. Rempel, Ph.D., President, Eastern Oregon College
Leonard W. Rice, Ph.D., President, Oregon College of Education
Winston D. Purvine, A.B., LL.D., President, Oregon Technical Institute

Secretary of the Board, Richard L. Collins, M.A., C.P.A.
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