

CATALOG
ISSUE
1960-61

REGULAR SESSION

EUGENE,
OREGON

UNIVERSITY OF OREGON



OREGON STATE SYSTEM OF HIGHER EDUCATION

BULLETIN

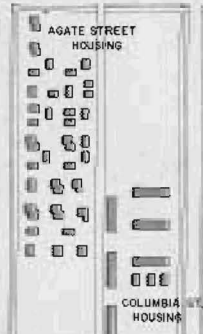
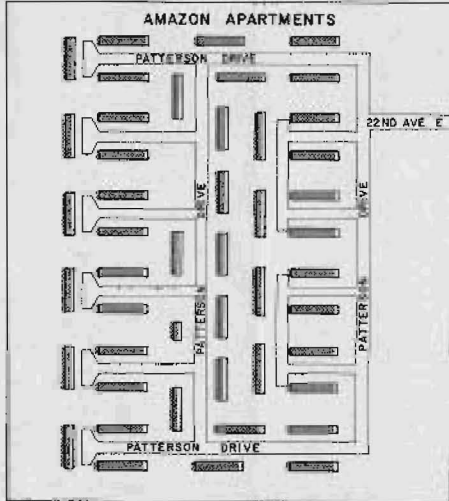
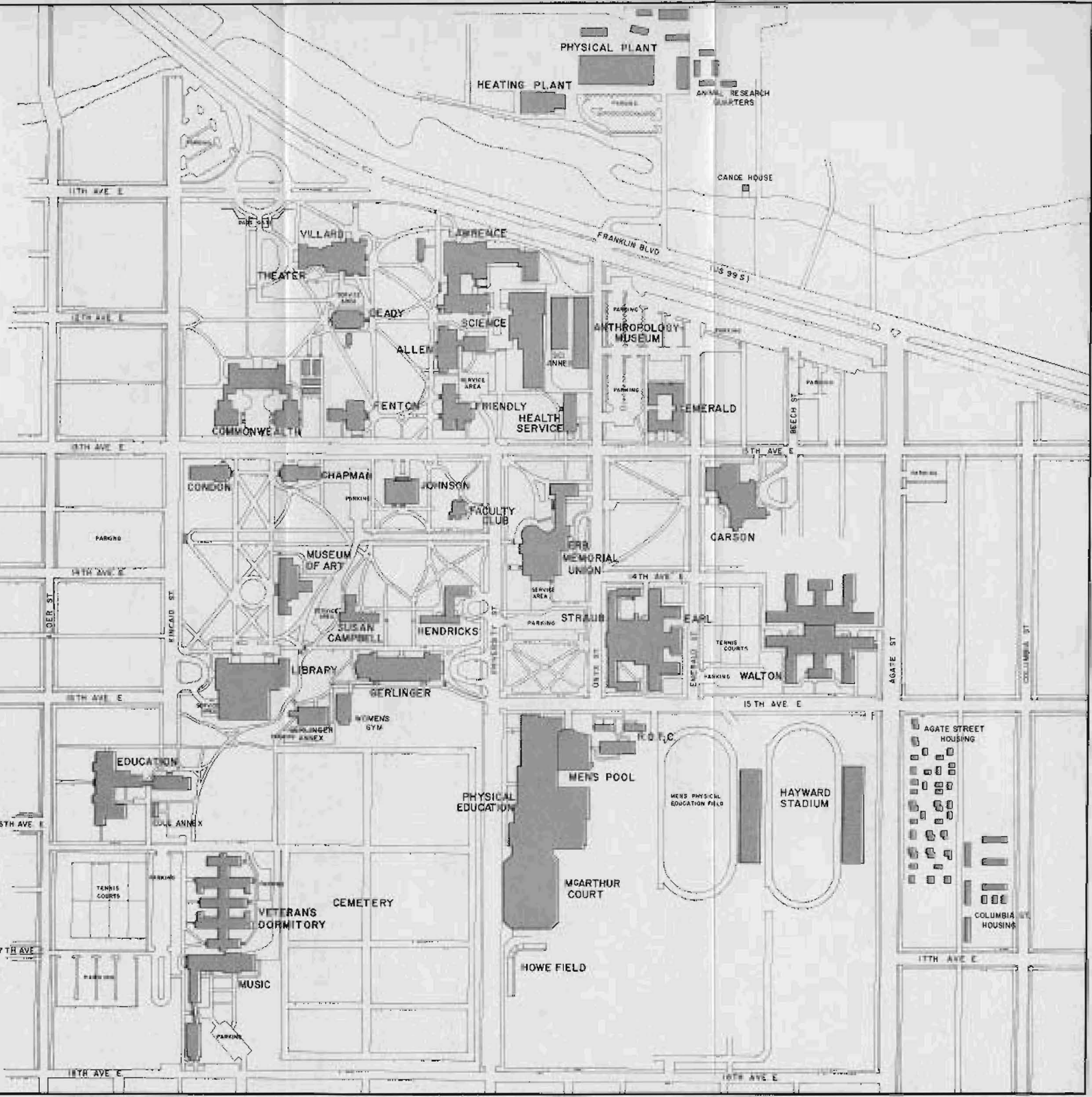
Campus Map

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of

OREGON

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UNIVERSITY OF OREGON BULLETIN

NUMBER 84

APRIL 1960

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**UNIVERSITY
OF OREGON
REGULAR
SESSION**

1960-61 CATALOG

EUGENE, OREGON

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State Board of Higher Education

	Term Expires
CHARLES HOLLOWAY, JR., Portland.....	1961
A. S. GRANT, Baker.....	1962
CHERYL S. MACNAUGHTON, Portland.....	1963
J. W. FORRESTER, JR., Pendleton.....	1963
ALLAN HART, Portland.....	1964
DOUGLAS MCKEAN, Beaverton.....	1964
RALPH E. PURVINE, Salem.....	1965
WILLIAM E. WALSH, Coos Bay.....	1965
HENRY F. CABELL, Portland.....	1966

Officers

HENRY F. CABELL.....	President
WILLIAM E. WALSH.....	Vice-President
J. W. FORRESTER, JR.....	Member, Executive Committee

JOHN R. RICHARDS, Ph.D., Chancellor
EARL M. PALLETT, Ph.D., Secretary of Board

Office of State Board of Higher Education
Post Office Box 5175
Eugene, Oregon

Board members are appointed to six-year terms by the Governor of Oregon with confirmation by the State Senate.

Oregon State System of Higher Education

The Oregon State System of Higher Education, as organized in 1932 by the Oregon State Board of Higher Education following a survey of higher education in Oregon by the United States Office of Education, includes all the state-supported institutions of higher education. The several institutions are elements in an articulated system, parts of an integrated whole. The educational program is organized to distribute as widely as possible throughout the state the opportunities for general education and to center on a particular campus specialized, technical, and professional curricula closely related to one another.

The institutions of the Oregon State System of Higher Education are: the University of Oregon at Eugene, Oregon State College at Corvallis, Portland State College at Portland, Oregon College of Education at Monmouth, Southern Oregon College at Ashland, and Eastern Oregon College at La Grande. The University of Oregon Medical School and the University of Oregon Dental School are located in Portland. The General Extension Division, representing all the institutions, has headquarters in Portland and offices in Eugene, Corvallis, Ashland, Monmouth, La Grande, and Salem.

Each of the institutions provides the general studies fundamental to a well-rounded education. At Oregon College of Education, Southern Oregon College, and Eastern Oregon College students may complete major work in teacher education or in general studies or may enroll in preprofessional programs. Portland State College offers major work in general studies and selected liberal arts and professional fields.

At the University of Oregon and Oregon State College two years of unspecialized work in liberal arts and sciences are provided on a parallel basis in the lower division. Major curricula, both liberal and professional, are grouped on either campus in accordance with the distinctive functions of the respective institution in the unified Oregon State System of Higher Education.

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

Oregon State System of Higher Education Officers

JOHN R. RICHARDS, Ph.D., Chancellor

<p>WILLIAM C. JONES, Ph.D. Acting President, University of Oregon</p> <p>DAVID W. E. BAIRD, M.D., LL.D. Dean, Medical School</p> <p>HAROLD J. NOYES, D.D.S., M.D. Dean, Dental School</p> <p>BRANFORD P. MILLAR, Ph.D. President, Portland State College</p>	<p>AUGUST L. STRAND, Ph.D. President, Oregon State College</p> <p>ELMO N. STEVENSON, Ed.D. President, Southern Oregon College</p> <p>FRANK B. BENNETT, Ed.D. President, Eastern Oregon College</p> <p>ROY E. LIEUALLEN, Ed.D. President, Oregon College of Education</p> <p style="text-align: center;">JAMES W. SHERBURNE, Ph.D. Dean, General Extension Division</p>
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HERBERT A. BORK, M.S., C.P.A.....	Comptroller and Bursar
RICHARD L. COLLINS, M.A., C.P.A.....	Budget Director
EARL M. PALLETT, Ph.D.....	Secretary, Board of Higher Education
WILLIAM M. CARLSON, M.A.....	Director of Libraries
FRANCIS B. NICKERSON, M.S.....	Executive Secretary, High School-College Relations Committee
WOLF D. VON OTTERSTEDT, LL.B.....	Assistant Attorney General, assigned to Board Office

Former Chancellors Oregon State System of Higher Education

WILLIAM J. KERR, D.Sc., LL.D.....	1932-1935
FREDERICK M. HUNTER, Ed.D., LL.D.....	1935-1946
PAUL C. PACKER, Ph.D., LL.D.....	1946-1950
CHARLES D. BYRNE, Ed.D.....	1950-1955

University of Oregon

September 1960

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Fall Term, 1960-61

- August 31, *Wednesday*.....Last day to apply for fall-term admission
- September 18-24, *Sunday to Saturday*.....New Student and Registration Week
- September 24, *Saturday*.....Last day for payment of fees without penalty
- September 26, *Monday*.....Classes begin
- October 10, *Monday*.....Last day for registration or for addition of courses
- October 19, *Wednesday*.....Charter Day
- November 11, *Friday*....Last day for withdrawal from courses
- November 24-27, *Thursday to Sunday*.....Thanksgiving vacation
- November 29, *Tuesday*.....Winter-term preregistration advising begins
- December 12-17, *Monday to Saturday*.....Fall-term examinations

Winter Term, 1960-61

- January 3, *Tuesday*.....Registration
- January 4, *Wednesday*.....Classes begin
- January 7, *Saturday*.....Last day for payment of fees without penalty
- January 16, *Monday*.....Last day for registration or for addition of courses
- February 10, *Friday*.....Last day for withdrawal from courses
- February 28, *Tuesday*.....Spring-term preregistration advising begins
- March 13-18, *Monday to Saturday*.....Winter-term examinations

Academic Calendar

Spring Term, 1960-61

- March 27, *Monday*.....Registration
- March 28, *Tuesday*.....Classes begin
- April 1, *Saturday*.....Last day for
payment of fees without penalty
- April 10, *Monday*.....Last day for
registration or for addition of courses
- May 5, *Friday*.....Last day for withdrawal
from courses
- May 30, *Tuesday*.....Memorial Day, holiday
- June 5-10, *Monday to*
Saturday.....Spring-term examinations
- June 10, *Saturday*.....Alumni Day
- June 11, *Sunday*.....Baccalaureate and
Commencement Day

Summer Session, 1961

- June 19, *Monday*.....Registration
- June 20, *Tuesday*.....Classes begin
- July 4, *Tuesday*.....Independence Day, holiday
- August 10-11, *Thursday and*
Friday.....Final examinations

Fall Term, 1961-62

- August 31, *Thursday*.....Last day
to apply for fall-term admission
- September 17-23, *Sunday to Saturday*.....New
Student and Registration Week
- September 25, *Monday*.....Classes begin

March 1961

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University of Oregon

Officers of Administration

JOHN R. RICHARDS, Ph.D.....Chancellor, State System of Higher Education
*O. MEREDITH WILSON, Ph.D.....President, University of Oregon
†WILLIAM C. JONES, Ph.D.....Acting President, University of Oregon

HARRY ALPERT, Ph.D.....Dean, Graduate School
DAVID W. E. BAIRD, M.D., LL.D.....Dean, Medical School
ROBERT D. CLARK, Ph.D.....Dean, College of Liberal Arts
CHARLES T. DUNCAN, M.A.....Dean, School of Journalism
ARTHUR A. ESSLINGER, Ph.D.....Dean, School of Health and Physical Education
WALTER GORDON, M.F.A.....Dean, School of Architecture and Allied Arts
ORLANDO J. HOLLIS, B.S., J.D.....Dean, School of Law
PAUL B. JACOBSON, Ph.D. Dean, School of Education ; Director, Summer Sessions
THEODORE KRATT, Mus.M., Mus.D.....Dean, School of Music
RICHARD W. LINDHOLM, Ph.D.....Dean, School of Business Administration
HAROLD J. NOYES, D.D.S., M.D.....Dean, Dental School

VERNON L. BARKHURST, M.A.....Director of Admissions
H. PHILIP BARNHART, B.S.....Director of Dormitories
GEORGE N. BELKNAP, M.A.....University Editor
J. SPENCER CARLSON, M.A.....Director of Counseling Center
CLIFFORD L. CONSTANCE, M.A.....Registrar
EUGENE W. DILS, Ed.D.....Director of Placement Service
DONALD M. DUSHANE, M.A.....Dean of Students
ALFRED L. ELLINGSON, B.S.....Director of Erb Memorial Union
JAMES W. FROST, M.B.A.....Alumni Secretary
LEO A. HARRIS, M.A.....Athletic Director
RAY HAWK, D.Ed.....Associate Dean of Students (Dean of Men)
CARL W. HINTZ, Ph.D.....Librarian
J. ORVILLE LINDSTROM, B.S.....Business Manager
WALTER N. McLAUGHLIN, B.S., C.P.A.....Assistant Business Manager
FRED N. MILLER, M.D.....Director of Health Service
DONALD SHEPARDSON.....Superintendent of University Press
WILLARD L. THOMPSON, M.S.....Director of Public Services
GOLDA P. WICKHAM, B.S.....Associate Dean of Students (Dean of Women)
IRWIN I. WRIGHT, B.S.....Director of Physical Plant

* Resignation effective June 30, 1960.

† Appointment effective June 20, 1960.

University Faculty*

- ABBY ADAMS, M.A., Assistant Professor of Education; Head of Foreign Language Department, South Eugene High School.
B.A. (1925), Oregon; M.A. (1932), Washington. At Oregon since 1944.
- CHARLES L. ADAMS, JR., M.A., Instructor in English.
B.A. (1951), Michigan State; M.A. (1952), Illinois. At Oregon since 1959.
- VIRGIL R. ADAMS, B.S., Planning Technician, Bureau of Municipal Research and Service (Assistant Professor).
B.S. (1951), Oregon State. At Oregon since 1956.
- ROBERT E. AGGER, Ph.D., Associate Professor of Political Science.
B.A. (1948), Williams; LL.B. (1951), Yale; Ph.D. (1954), Oregon. At Oregon since 1958.
- FLORENCE D. ALDEN, M.A., Professor Emeritus of Physical Education.
A.B. (1904), Smith; M.A. (1928), Columbia. At Oregon since 1921.
- GUSTAVE ALEF, Ph.D., Assistant Professor of History.
B.A. (1949), M.A. (1950), Rutgers; M.A. (1952), Ph.D. (1956), Princeton. At Oregon since 1956.
- EVAN C. ALFORD, O.D., Major, U.S. Air Force; Assistant Professor of Air Science.
O.D. (1948), Illinois College of Optometry. At Oregon since 1956.
- ROBERT L. ALLEN, Ph.D., Visiting Associate Professor of Economics.
B.A. (1947), Redlands; M.A. (1950), Ph.D. (1953), Harvard. At Oregon since 1959.
- HARRY ALPERT, Ph.D., Dean of the Graduate School; Professor of Sociology.
A.B. (1932), College of City of New York; Cert. de soc. (1933), Bordeaux; A.M. (1935), Ph.D. (1938), Columbia. At Oregon since 1958.
- BOWSER ALY, Ph.D., Professor of Speech.
B.S. (1925), Southeast Missouri State; M.A. (1926), Missouri; Ph.D. (1941), Columbia. At Oregon since 1957.
- CURTIS A. AMLUND, Ph.D., Instructor in Political Science.
B.A. (1952), Ph.D. (1959), Minnesota. At Oregon since 1959.
- FRANK W. ANDERSON, Ph.D., Assistant Professor of Mathematics.
B.A. (1951), M.S. (1952), Ph.D. (1954), Iowa. At Oregon since 1957.
- GERALD F. ANDERSON, Ph.D., Assistant Professor of Romance Languages.
A.B. (1950), Bates; M.A. (1951), New Hampshire; Ph.D. (1957), Madrid. At Oregon since 1957.
- LEE W. ANDERSON, Ph.D., Assistant Professor of Mathematics.
B.A. (1952), Reed; M.S. (1955), Ph.D. (1956), Tulane. At Oregon since 1956.
- LYOYD E. ANDERSON, B.S., Associate Director of Planning Assistance, Bureau of Municipal Research and Service (Associate Professor).
B.S. (1950), Washington. At Oregon since 1956.
- FRED C. ANDREWS, Ph.D., Associate Professor of Mathematics.
B.S. (1946), M.S. (1948), Washington; Ph.D. (1953), California. At Oregon since 1957.
- GEORGE F. ANDREWS, B.S., N.C.A.R.B., Associate Professor of Architecture.
B.S. (1941), Michigan; N.C.A.R.B. (1954). At Oregon since 1948.

* This list provides a record of the University faculty as of January 1, 1960. The principal administrative officials and the heads of departments and divisions of the University of Oregon Medical School and University of Oregon Dental School are included. For a complete list of the Medical School and Dental School faculties, see catalogs of these schools.

- CATHERINE M. ARDREY, Ph.D., Instructor in Science and Education.
B.S. (1933), Kentucky; M.S. (1936), Louisiana State; Ph.D. (1939), Michigan State.
At Oregon since 1959.
- FRED ATTNEAVE III, Ph.D., Associate Professor of Psychology.
B.A. (1942), Mississippi; Ph.D. (1950), Stanford. At Oregon since 1958.
- GEORGE M. AUSTIN, M.D., Professor of Neurosurgery, Medical School; Head of Division.
A.B. (1938), Lafayette; M.D. (1942), Pennsylvania. At Oregon since 1955.
- J. NORMAN AUSTIN, B.A., Instructor in Classical Languages.
B.A. (1958), Toronto. At Oregon since 1959.
- CURTIS E. AVERY, M.A., Professor of Education; Director, E. C. Brown Trust.
B.A. (1925), Pomona; M.A. (1928), Yale. At Oregon since 1946.
- DAVID A. BAERNCOFF, M.A., Assistant Professor of Business Economics.
A.B. (1942), Indiana; M.A. (1956), Stanford. At Oregon since 1958.
- EXINE A. BAILEY, M.A., Assistant Professor of Voice.
B.S. (1944), Minnesota; M.A. (1945), Diploma (1951), Columbia. At Oregon since 1951.
- J. EDWIN BAILEY, B.A., Assistant University Editor (Instructor).
B.A. (1923), Montana. At Oregon since 1938.
- DAVID W. E. BAIRD, M.D., LL.D., Dean of the Medical School; Professor of Medicine.
M.D. (1926), Oregon; LL.D. (1946), Portland. At Oregon since 1927.
- LOIS I. BAKER, M.A., Law Librarian (Assistant Professor).
B.A. (1927), M.A. (1932), Oregon; Cert. (1935), California. At Oregon since 1935.
- WALLACE S. BALDINGER, Ph.D., Professor of Art; Director, Museum of Art.
B.A. (1928), M.A. (1932), Oberlin; Ph.D. (1938), Chicago. At Oregon since 1944.
- *EWART M. BALDWIN, Ph.D., Professor of Geology; Curator, Condon Museum of Geology.
B.S. (1938), M.S. (1939), Washington State; Ph.D. (1943), Cornell. At Oregon since 1947.
- †ROLAND C. BALL, JR., Ph.D., Assistant Professor of English.
B.A. (1939), Swarthmore; M.A. (1941), Cornell; Ph.D. (1953), California. At Oregon since 1952.
- WESLEY C. BALLAINE, Ph.D., Professor of Business Economics; Director, Bureau of Business Research.
B.A. (1927), M.B.A. (1931), Washington; Ph.D. (1940), Chicago. At Oregon since 1941.
- THOMAS O. BALLINGER, M.A., Associate Professor of Art and Education.
B.A. (1949), M.A. (1951), New Mexico. At Oregon since 1952.
- JAMES K. BALZHISER, B.S., Assistant Professor of Architecture.
B.S. (1942), Montana State. At Oregon since 1957.
- BURT BROWN BARKER, LL.D., Vice-President Emeritus.
A.B. (1897), Chicago; LL.B. (1901), Harvard; LL.D. (1935), Linfield. At Oregon since 1928.
- VERNON L. BARKHURST, M.A., Director of Admissions; Assistant Dean of Students (Assistant Professor).
B.A. (1949), M.A. (1950), Oregon. At Oregon since 1959.
- EUGENE B. BARNES, Ph.D., Head Acquisition Librarian (Associate Professor).
B.A. (1941), M.A. (1943), Minnesota; Ph.D. (1947), Chicago. At Oregon since 1947.
- MIRIAM Y. BARNES, B.A., Catalog Librarian (Instructor).
B.A. (1935), Oregon; Libr. Cert. (1936), California. At Oregon 1936-41 and since 1958.

* On leave of absence 1959-60.

† On sabbatical leave 1959-60.

- HOMER G. BARNETT, Ph.D., Professor of Anthropology.
A.B. (1927), Stanford; Ph.D. (1938), California. At Oregon since 1939.
- H. PHILIP BARNHART, B.S., Director of Dormitories; Director of Foods, Student Union (Associate Professor).
B.S. (1947), Pennsylvania State. At Oregon since 1949.
- G. HAROLD BARRETT, M.A., Instructor in Speech.
B.A. (1949), M.A. (1951), College of Pacific. At Oregon since 1959.
- WARREN W. BARTANEN, B.A., Instructor in Science and Education.
B.A. (Chemistry) (1955), B.A. (Education) (1956), Eastern Washington. At Oregon since 1959.
- ROLAND BARTEL, Ph.D., Associate Professor of English; Assistant Dean of the College of Liberal Arts.
B.A. (1947), Bethel; Ph.D. (1951), Indiana. At Oregon since 1951.
- WILLIAM E. BARTHOLDT, B.A., Captain, U.S. Army; Assistant Professor of Military Science and Tactics.
B.A. (1947), Missouri. At Oregon since 1958.
- WENDELL M. BASYE, A.B., LL.B., Associate Professor of Law.
A.B. (1941), Nebraska; LL.B. (1947), Virginia. At Oregon since 1957.
- EDWIN F. BEAL, Ph.D., Associate Professor of Management.
B.A. (1931), Ohio Wesleyan; M.S. (1951), Ph.D. (1953), Cornell. At Oregon since 1959.
- CHANDLER B. BEALL, Ph.D., Professor of Romance Languages.
Diplôme (1921), Sorbonne; A.B. (1922), Ph.D. (1930), Johns Hopkins. At Oregon since 1929.
- ELLWOOD H. BEESON, M.A., Major, U.S. Air Force; Assistant Professor of Air Science.
B.S. (1940), Kansas Stat; M.A. (1955), George Washington. At Oregon since 1958.
- HUGO BEKKER, Ph.D., Assistant Professor of Germanic Languages.
B.A. (1953), Calvin; M.A. (1956), Ph.D. (1958), Michigan. At Oregon since 1958.
- GEORGE N. BELKNAP, M.A., University Editor (Assistant Professor).
B.A. (1926), M.A. (1934), Oregon. At Oregon since 1934.
- STEPHEN BELKO, M.S., Associate Professor of Physical Education; Head Basketball Coach.
B.S. (1939), M.S. (1947), Idaho. At Oregon since 1956.
- JAMES R. BELL, M.S., Assistant Director, Planning Program, Bureau of Municipal Research and Service (Assistant Professor).
B.S. (1953), M.S. (1957), Cornell. At Oregon since 1957.
- ERWIN T. BENDER, D.D.S., Associate Professor of Dentistry, Dental School; Superintendent of Clinics.
D.D.S. (1924), Iowa. At Oregon since 1943.
- DALE BENEDICT, B.S., Reg. Archt., Assistant Professor of Interior Design.
B.S. (1951), Illinois; Reg. Archt. (1957), State of Washington. At Oregon since 1957.
- JOHN A. BENSON, JR., M.D., Associate Professor of Medicine, Medical School; Head of Division of Gastroenterology.
B.A. (1943), Wesleyan; M.D. (1946), Harvard. At Oregon since 1959.
- RALPH C. BENSON, M.D., Professor of Obstetrics and Gynecology, Medical School; Chairman of Department.
B.A. (1932), Lehigh; M.D. (1936), Johns Hopkins. At Oregon since 1956.
- HAROLD W. BERNARD, Ph.D., Professor of Education.
A.B. (1930), Spokane; M.A. (1933), Stanford; Ph.D. (1938), Northwestern. At Oregon 1938-47 and since 1958.
- DWIGHT W. BERREMAN, Ph.D., Assistant Professor of Physics.
B.S. (1950), Oregon; M.S. (1952), Ph.D. (1955), California Institute of Technology. At Oregon since 1956.

- JOEL V. BERREMAN, Ph.D., Professor of Sociology.
B.A. (1927), Willamette; M.A. (1933), Oregon; Ph.D. (1940), Stanford. At Oregon since 1946.
- ALBERT T. BHARUCHA-REID, B.S., Assistant Professor of Mathematics.
B.S. (1949), Iowa State. At Oregon since 1956.
- EDWIN R. BINGHAM, Ph.D., Associate Professor of History.
B.A. (1941), M.A. (1942), Occidental; Ph.D. (1951), California at Los Angeles. At Oregon since 1949.
- HERBERT BISNO, M.S.W., R.S.W., Associate Professor of Sociology.
B.A. (1946), Wisconsin; M.S.W. (1951), California; R.S.W. (1951), State of California. At Oregon since 1952.
- FRANCIS W. BITTNER, M.A., Assistant Professor of Piano.
B.Mus. (1936), Cincinnati Conservatory of Music; M.A. (1943), New York University. At Oregon since 1946.
- FRANK G. BLACK, Professor of English.
A.B. (1921), Dickinson; A.M. (1923), Ph.D. (1936), Harvard. At Oregon since 1936.
- ROBERT L. BLAIR, Ph.D., Associate Professor of Mathematics.
B.A. (1949), M.S. (1950), Ph.D. (1952), Iowa. At Oregon since 1957.
- *ROBERT G. BLAKESLEY, B.A., Planning Assistant, Bureau of Municipal Research and Service (Instructor).
B.A. (1954), Amherst. At Oregon since 1958.
- RUSSELL M. BLEMKER, M.D., Assistant University Physician; Associate Professor of Health Education.
B.A. (1926), De Pauw; M.D. (1930), Washington University. At Oregon since 1954.
- *IRENE BLUMENTHAL, Dr. rer. pol., Instructor in Political Science.
Econ. diploma (1942), Dr. rer. pol. (1944), Law cert. (1944), Vienna; M.A. (1952), Stanford. At Oregon 1957-60.
- ROBERT A. BLUMENTHAL, A.B., Instructor in Physics.
A.B. (1950), California. At Oregon since 1959.
- PAUL F. BOGEN, B.S., Reg. Archt., Visiting Assistant Professor of Architecture.
B.S. (1941), Oregon; Reg. Archt. (1948), State of Oregon. At Oregon since 1959.
- LLOYD M. BOND, B.L.A., Assistant Professor of Landscape Architecture.
B.L.A. (1949), Oregon. At Oregon since 1959.
- JOHN W. BORCHARDT, M.A., Assistant Professor of Physical Education.
B.S. (1940), LaCrosse Teachers; M.A. (1951), Iowa. At Oregon since 1948.
- CONSTANCE B. BORDWELL, M.A., Instructor in English.
B.A. (1931), Oregon; M.A. (1932), Washington State. At Oregon 1947-49 and since 1958.
- GEORGE G. BOUGHTON, Mus.M., Associate Professor of Violin.
B.F.A. (1940), Mus.M. (1943), South Dakota. At Oregon since 1945.
- WILLIAM J. BOWERMAN, M.S., Associate Professor of Physical Education; Assistant Director of Athletics; Head Track Coach.
B.S. (1933), M.S. (1951), Oregon. At Oregon since 1948.
- †HERBERT E. BOWMAN, Ph.D., Associate Professor of Slavic Languages.
B.A. (1938), Pennsylvania; Cert. (1939), Lille; M.A. (1941), Ph.D. (1950), Harvard. At Oregon since 1953.
- ALVIN S. BOYARSKY, M.R.P., Assistant Professor of Architecture.
B.Arch. (1951), McGill; M.R.P. (1959), Cornell. At Oregon since 1959.

* Resigned Jan. 31, 1960.

† On sabbatical leave 1959-60.

- JEAN E. BOYLE, M.S., R.N., Professor of Nursing Education, Medical School; Director of Department.
B.S. (1936), M.S. (1941), Washington; R.N. (1936), State of Washington. At Oregon since 1958.
- CHARLES E. BRADFISH, JR., B.S., Assistant Planner, Bureau of Municipal Research and Service (Instructor).
B.S. (1950), Oregon. At Oregon since 1958.
- QUIRINUS BREEN, Ph.D., Professor of History.
A.B. (1920), Calvin; Ph.D. (1931), Chicago. At Oregon since 1938.
- JOHN L. BRISCOE, B.Arch. Engr., N.C.A.R.B., Assistant Professor of Architecture.
B.Arch. Engr. (1950), Oklahoma State; N.C.A.R.B. (1955). At Oregon since 1953.
- WALTER F. BRISSENDEN, B.A., Lecturer in Insurance.
B.A. (1935), Montana. At Oregon 1959.
- JAMES W. BROOKE, M.D., Visiting Lecturer in Physical Education.
B.A. (1934), M.A. (1938), M.D. (1938), Oregon. At Oregon since 1959.
- JOHN M. BROOKHART, Ph.D., Professor of Physiology, Medical School; Chairman of Department.
B.S. (1935), M.S. (1936), Ph.D. (1939), Michigan. At Oregon since 1949.
- WILFORD A. BROOKSBY, M.D., Assistant University Physician; Psychiatric Consultant (Assistant Professor).
B.S. (1940), Brigham Young; M.D. (1943), Northwestern; M.S. (1949), Minnesota. At Oregon since 1955.
- EYLER BROWN, M.Arch., Reg. Archt., Associate Professor of Architecture.
B.A. (1916), B.S. in Arch. (1917), Oregon; M.Arch. (1922), Massachusetts Institute of Technology; Reg. Archt. (1924), State of Oregon. At Oregon since 1922.
- MODENA A. BROWN, M.S.L.S., Social Science Librarian (Instructor).
B.A. (1946), Baker; M.S.L.S. (1954), Illinois. At Oregon since 1959.
- CLYDE E. BROWNING, Ph.D., Assistant Professor of Real Estate.
B.A. (1950), M.A. (1951), Kent State (Ohio); Ph.D. (1958), Washington. At Oregon since 1959.
- WAYNE B. BRUMBACH, Ph.D., Assistant Professor of Physical Education.
B.S. (1943), M.S. (1947), Washington; Ph.D. (1959), Oregon. At Oregon since 1956.
- STANLEY W. BRYAN, M.Arch., Reg. Archt., Assistant Professor of Architecture.
B.Arch. (1947), Washington; M.Arch. (1948), Massachusetts Institute of Technology; Reg. Archt. (1951), States of Washington and Oregon. At Oregon 1949-50 and since 1955.
- ROY E. BUEHLER, Ph.D., Associate Professor of Psychology.
A.B. (1930), Fletcher; B.D. (1935), M.A. (1935), Northwestern; Ph.D. (1952), Wisconsin. At Oregon since 1957.
- HOWARD W. BUFORD, B.S.L.A., Visiting Professor of Architecture.
B.S.L.A. (1933), Oregon State. At Oregon since 1955.
- JACK W. BURGNER, M.A., Assistant Professor of Art.
B.S. in Ed. (1948), Eastern Illinois State; M.A. (1949), Colorado State College of Education. At Oregon since 1954.
- ORIN K. BURRELL, M.A., C.P.A., Professor of Finance.
B.S. (1921), M.A. (1927), Iowa; C.P.A. (1928), State of Oregon. At Oregon since 1927.
- CHARLES D. BYRNE, Ed.D., Professor of Education; Coordinator of Nepal Education Program.
B.S. (1921), M.S. (1922), Wisconsin; Ed.D. (1938), Stanford. At Oregon 1955-57 and since 1958.
- THOMAS H. CAHALAN, M.S. in L.S., Librarian in the Dental School (Assistant Professor).
B.A. (1940), Iowa; B.S. in L.S. (1941), M.S. in L.S. (1945), Illinois. At Oregon since 1946.

- DORIS HELEN CALKINS, B.M., Instructor in Harp.
B.M. (1931), Oregon. At Oregon since 1931.
- ROBERT CAMPBELL, Ph.D., Associate Professor of Economics.
A.B. (1947), Ph.D. (1952), California; B.S. (1950), U.S. Merchant Marine Academy.
At Oregon since 1952.
- FREDERICK H. CANDELARIA, Ph.D., Instructor in English.
B.A. (1954), Texas Western; Ph.D. (1959), Missouri. At Oregon since 1959.
- KENNETH A. CANTWELL, D.M.D., Professor of Dentistry, Dental School; Head of Department of Operative Dentistry.
B.S. (1938), Utah State; D.M.D. (1943), North Pacific. At Oregon since 1943.
- DON H. CARLSON, D.D.S., Associate Professor of Dentistry, Dental School; Head of Department of Orthodontics.
B.A. (1947), Idaho; M.A. (1948), Stanford; D.D.S. (1953), M.S.D. (1956), Northwestern. At Oregon since 1953.
- J. SPENCER CARLSON, M.A., Director, University Counseling Center; Associate Dean of Students; Associate Professor of Psychology.
B.S. (1935), Oregon; M.A. (1937), Minnesota. At Oregon since 1947.
- *ELLA S. CARRICK, B.A., Senior Catalog Librarian (Senior Instructor).
B.A. (1929), Oregon. At Oregon since 1929.
- LEONARD J. CASANOVA, Ph.B., Associate Professor of Physical Education; Head Football Coach.
Ph.B. (1927), Santa Clara. At Oregon since 1951.
- ALBUREY CASTELL, Ph.D., Professor of Philosophy; Head of Department.
B.A. (1928), M.A. (1929), Toronto; Ph.D. (1931), Chicago. At Oregon since 1949.
- RICHARD W. CASTENHOLZ, Ph.D., Assistant Professor of Biology.
B.S. (1952), Michigan; Ph.D. (1957), Washington State. At Oregon since 1957.
- SHANG-YI CH'EN, Ph.D., Professor of Physics.
B.S. (1932), M.S. (1934), Yenching; Ph.D. (1940), California Institute of Technology.
At Oregon since 1949.
- J. CHESTER CHENG, Ph.D., Visiting Associate Professor of History.
B.A. (1945), St. John's (Shanghai); M.A. (1947), Fletcher School of Law and Diplomacy; Ph.D. (1950), Cambridge. At Oregon since 1959.
- NICHOLAS CHICHERIN, Instructor in Slavic Languages.
At Oregon since 1959.
- PHILIP R. CHIDDELL, M.L., Reference Librarian (Instructor).
B.A. (1953), British Columbia; B.D. (1956), Fuller Theological Seminary; M.L. (1958), Washington. At Oregon since 1958.
- TING-LI CHO, M.Arch., M.C.P., Assistant Professor of Architecture.
B.Arch. (1946), St. Johns (Shanghai); M.Arch. (1951), Oregon; M.C.P. (1955), Pennsylvania. At Oregon since 1957.
- PAUL CIVIN, Ph.D., Professor of Mathematics.
B.A. (1939), Buffalo; M.A. (1941), Ph.D. (1942), Duke. At Oregon since 1946.
- CLARENCE W. CLANCY, Ph.D., Professor of Biology.
B.S. (1930), M.S. (1932), Illinois; Ph.D. (1940), Stanford. At Oregon since 1940.
- ROBERT D. CLARK, Ph.D., Dean of the College of Liberal Arts; Professor of Speech.
A.B. (1931), Pasadena; M.A. (1935), Ph.D. (1946), Southern California. At Oregon since 1943.
- †H. HARRISON CLARKE, Ed.D., Research Professor of Physical Education.
B.S. (1925), Springfield; M.S. (1931), Ed.D. (1940), Syracuse. At Oregon since 1953.

* On sabbatical leave 1959-60.

† On sabbatical leave, spring term, 1959-60.

- CECIL K. CLAYCOMB, Ph.D., Associate Professor of Biochemistry, Dental School; Head of Department.
B.S. (1947), M.S. (1948), Ph.D. (1951), Oregon. At Oregon since 1951.
- HERMAN COHEN, Ph.D., Associate Professor of Speech.
B.A. (1948), M.A. (1949), Ph.D. (1954), Iowa. At Oregon since 1949.
- MELVIN J. COHEN, Ph.D., Assistant Professor of Biology.
B.A. (1949), M.A. (1952), Ph.D. (1954), California at Los Angeles. At Oregon since 1957.
- DAVID L. COLE, M.S., Instructor in Anthropology; Assistant Curator, Museum of Natural History.
B.S. (1952), M.S. (1954), Oregon. At Oregon since 1959.
- MAX B. COLEY, M.A., Assistant Professor of Physical Education; Assistant Football Coach.
B.A. (1951), M.A. (1956), San Jose State. At Oregon since 1959.
- EDITH E. COLIGNON, M.A., Reference Librarian (Senior Instructor).
B.S. (1935), M.A. (1954), Wisconsin. At Oregon since 1954.
- JAMES F. COLLEY, B.S., Curator, Museum of Art (Instructor).
B.S. (1955), Oregon. At Oregon since 1955.
- FREDERICK M. COMBELLACK, Ph.D., Professor of Classical Languages.
B.A. (1928), Stanford; Ph.D. (1936), California. At Oregon since 1937.
- NEWELL H. COMISH, Ph.D., Professor Emeritus of Business Administration.
B.S. (1911), Utah State; M.S. (1915), Ph.D. (1928), Wisconsin. At Oregon since 1932.
- HELEN CONNOR, M.A., Assistant Professor of Physical Education.
B.S. (1951), Colorado; M.A. (1953), Western State College of Colorado. At Oregon since 1959.
- CLIFFORD L. CONSTANCE, M.A., Registrar (Associate Professor).
B.A. (1925), M.A. (1929), Oregon. At Oregon since 1931.
- VERNON S. COTTER, Planning Consultant, Bureau of Municipal Research and Service (Instructor).
At Oregon since 1959.
- BERND CRASEMANN, Ph.D., Associate Professor of Physics; Special Assistant to the Dean of the College of Liberal Arts.
A.B. (1948), California at Los Angeles; Ph.D. (1953), California. At Oregon since 1953.
- LUTHER S. CRESSMAN, Ph.D., Professor of Anthropology; Head of Department; Director, Museum of Natural History; Curator of Anthropology.
A.B. (1918), Pennsylvania State; S.T.B. (1923), General Theological Seminary; M.A. (1923), Ph.D. (1925), Columbia. At Oregon since 1929.
- HAROLD R. CROSLAND, Ph.D., Associate Professor Emeritus of Psychology.
A.B. (1913), South Carolina; M.A. (1914), Ph.D. (1916), Clark. At Oregon since 1920.
- CALVIN CRUMBAKER, Ph.D., Professor Emeritus of Economics.
B.S. (1911), Whitman; M.A. (1927), Washington; Ph.D. (1930), Wisconsin. At Oregon since 1930.
- JAMES W. CRUMLEY, B.S., Instructor in Science and Education.
B.S. (1959), Lewis and Clark. At Oregon since 1959.
- *JACK A. CULBERTSON, Ph.D., Associate Professor of Education.
A.B. (1943), Emory and Henry; M.A. (1946), Duke; Ph.D. (1955), California. At Oregon since 1955.
- ROBERT G. CUNNINGHAM, Mus.M., Assistant Professor of Woodwind Instruments.
B.M. (1950), Eastman School of Music; Mus.M. (1952), Oregon. At Oregon since 1954.
- FREDERICK A. CUTHBERT, M.L.D., Professor of Landscape Architecture and Urban Planning.
A.B. (1926), M.L.D. (1928), Michigan. At Oregon since 1932.

* On leave of absence 1959-60.

- EDMUND CYKLER, Ph.D., Professor of Music.
B.A. (1926), California; Ph.D. (1928), Charles (Czechoslovakia). At Oregon since 1947.
- WALFRED A. DAHLBERG, M.A., Associate Professor of Speech.
A.B. (1925), Michigan; M.A. (1930), Northwestern. At Oregon since 1932.
- JOHN D. DANDLIKER, M.A., Instructor in Romance Languages.
B.S. (1949), M.A. (1951), Wisconsin. At Oregon since 1958.
- PAUL F. DANFORTH, B.A., Captain, U.S. Air Force; Assistant Professor of Air Science.
B.A. (1949), Texas College of Arts and Industries. At Oregon since 1958.
- FRANCIS E. DART, Ph.D., Associate Professor of Physics.
A.B. (1937), Oberlin; M.S. (1939), Notre Dame; Ph. D. (1947), Cornell. At Oregon since 1949.
- NORMAN A. DAVID, M.D., Professor of Pharmacology, Medical School; Chairman of Department.
A.B. (1925), M.D. (1931), California. At Oregon since 1937.
- RICHARD M. DAVIS, Ph.D., Associate Professor of Economics.
A.B. (1939), Colgate; M. A. (1941), Ph.D. (1949), Cornell. At Oregon since 1954.
- NED J. DAVISON, Ph.D., Assistant Professor of Romance Languages.
B.A. (1949), Utah; M.A. (1952), Ph.D. (1957), California at Los Angeles. At Oregon since 1954.
- HOWARD E. DEAN, Ph.D., Associate Professor of Political Science.
B.A. (1939), California at Los Angeles; Ph.D. (1950), Columbia. At Oregon since 1947.
- RICHARD H. DESROCHES, A.B., Instructor in Romance Languages.
A.B. (1947), Clark. At Oregon since 1957.
- LEROY E. DETLING, Ph.D., Associate Professor of Biology; Curator of Herbarium.
A.B. (1921), Oregon; A.M. (French) (1923), A.M. (Botany) (1933), Ph.D. (1936), Stanford. At Oregon 1927-30 and since 1936.
- DAVID H. DE VOE, B.S., Planning Technician, Bureau of Municipal Research and Service (Instructor).
B.S. (1957), Oregon State. At Oregon since 1958.
- DAVID D. DEWEESE, M.D., Clinical Professor of Otolaryngology, Medical School; Acting Chairman of Department of Otolaryngology, Rhinology, and Laryngology.
A.B. (1934), M.D. (1938), Michigan. At Oregon since 1944.
- SAMUEL N. DICKEN, Ph.D., Professor of Geography; Head of Department.
B.A. (1924), Marietta; Ph.D. (1930), California. At Oregon since 1947.
- CLARENCE E. DIEBEL, D.Ed., Visiting Associate Professor of Chemistry; Director, Traveling Science Demonstration Program.
B.A. (1929), M.A. (1938), D.Ed. (1959), Oregon. At Oregon 1956-58 and since 1959.
- ADOLF DIEGEL, M.S., Instructor in Management.
B.B.A. (1957), M.S. (1959), Oregon. At Oregon since 1959.
- MILTON DIETERICH, M.Mus., Assistant Professor of Music.
B.Mus. (1923), Grinnell; M.Mus. (1941), Eastman School of Music. At Oregon since 1946.
- EUGENE W. DILS, Ed.D., Director, University Placement Service; Associate Dean of Students (Associate Professor).
B.A. (1928), Washington State; M.A. (1945), Washington; Ed.D. (1952), Stanford. At Oregon since 1958.
- PHILIP H. DOLE, M.S., Reg. Archt., Assistant Professor of Architecture.
B.Arch. (1949), Harvard; M.S. (1954), Columbia; Reg. Archt. (1958), State of New York. At Oregon since 1956.
- VERNON R. DORJAHN, Ph.D., Assistant Professor of Anthropology.
B.S. (1950), Ph.D. (1954), Northwestern; M.A. (1951), Wisconsin. At Oregon since 1956.

- KENT C. DORWIN, B.S., Assistant Dean of Men (Instructor).
B.S. (1956), Oregon. At Oregon since 1959.
- CHARLES T. DOTTER, M.D., Professor of Radiology, Medical School; Chairman of Department.
B.A. (1941), Duke; M.D. (1944), Cornell. At Oregon since 1952.
- DAVID M. DOUGHERTY, Ph.D., Professor of Romance Languages; Head of Department of Foreign Languages.
A.B. (1925), Delaware; A.M. (1927), Ph.D. (1932), Harvard. At Oregon since 1947.
- M. FRANCES DOUGHERTY, Ph.D., Professor of Physical Education.
B.A. (1935), M.A. (1940), Colorado State College; Ph.D. (1959), New York University. At Oregon since 1959.
- GERALD A. DOUGLASS, B.S., Captain, U.S. Air Force; Assistant Professor of Air Science.
B.S. (1949), Denver. At Oregon since 1957.
- WILL DRUM, J.D., Associate Professor of Sociology and Social Work.
J.D. (1921), Freiburg; M.A. (1943), Washington. At Oregon since 1952.
- *ROBERT DUBIN, Ph.D., Research Professor of Sociology.
A.B. (1936), A.M. (1940), Ph.D. (1947), Chicago. At Oregon since 1954.
- †PAUL S. DULL, Ph.D., Professor of History.
B.A. (1935), Ph.D. (1940), Washington. At Oregon since 1946.
- ‡CHARLES T. DUNCAN, M.A., Dean of the School of Journalism; Professor of Journalism.
A.B. (1936), M.A. (1946), Minnesota. At Oregon since 1950.
- J. ENGELBERT DUNPHY, M.D., Kenneth A. J. Mackenzie Professor of Surgery, Medical School; Chairman of Department.
B.A. (1929), Holy Cross; M.D. (1933), Harvard. At Oregon since 1958.
- DONALD M. DUSHANE, M.A., Dean of Students; Lecturer in Political Science (Professor).
B.A. (1927), Wabash; M.A. (1937), Columbia. At Oregon since 1948.
- VERGIL H. DYKSTRA, Ph.D., Assistant Professor of Philosophy.
B.A. (1949), Hope; M.A. (1950), Ph.D. (1953), Wisconsin. At Oregon since 1954.
- HARRY T. EASTERDAY, Ph.D., Assistant Professor of Physics.
A.B. (1947), Ph.D. (1953), California. At Oregon since 1955.
- EDWIN G. EBBIGHAUSEN, Ph.D., Professor of Physics.
B.S. (1936), Minnesota; Ph.D. (1940), Chicago. At Oregon since 1946.
- BRAD S. ECKLUND, M.S., Assistant Football Coach; Instructor in Physical Education.
B.S. (1950), Oregon; M.S. (1953), Columbia. At Oregon since 1958.
- ALFRED E. EDELMAN, B.Arch., Instructor in Architecture.
B.Arch. (1956), Cornell. At Oregon since 1958.
- RAYMOND T. ELLICKSON, Ph.D., Professor of Physics.
B.A. (1935), Reed; M.A. (1936), Oregon State; Ph.D. (1938), Chicago. At Oregon since 1948.
- ALFRED L. ELLINGSON, B.S., Director, Student Union (Assistant Professor).
B.S. (1948), Oregon. At Oregon since 1951.
- JUDITH M. ELLIOT, M.S. in L.S., Catalog Librarian (Instructor).
B.A. (1956), Ohio State; M.S. in L.S. (1957), Illinois. At Oregon since 1957.

* On leave of absence 1959-60.

† On sabbatical leave 1959-60.

‡ On sabbatical leave, spring term, 1959-60.

- LEONARD H. ELWELL, Ph.D., Associate Professor of Physiology, Dental School; Head of Department.
A.B. (1935), Kalamazoo; M.S. (1937), Kansas State; M.S. (1941), Ph.D. (1951), Michigan. At Oregon since 1959.
- JOHN E. ERICKSON, M.A., Instructor in Biology; Preparator.
B.A. (1948), Omaha; M.A. (1950), Indiana. At Oregon since 1959.
- ALICE H. ERNST, M.A., Associate Professor Emeritus of English.
B.A. (1912), M.A. (1913), Washington. At Oregon since 1924.
- RUDOLF H. ERNST, Ph.D., Professor Emeritus of English.
B.A. (1904), Northwestern College; M.A. (1911), Ph.D. (1921), Harvard. At Oregon since 1923.
- ARTHUR A. ESSLINGER, Ph.D., Dean of the School of Health and Physical Education; Professor of Physical Education.
B.S. (1931), M.S. (1932), Illinois; Ph.D. (1938), Iowa. At Oregon since 1953.
- FRANK G. EVERETT, D.M.D., M.D., Professor of Dentistry, Dental School; Head of Department of Periodontology.
M.D. (1932), Vienna; B.S. (1941), D.M.D. (1941), North Pacific; M.S. (1948), Oregon. At Oregon since 1941.
- ROBERT F. FAGOT, Ph.D., Assistant Professor of Psychology.
B.S. (1946), Massachusetts Institute of Technology; Ph.D. (1956), Stanford. At Oregon since 1956.
- LOUIS D. FARNSWORTH, JR., B.S., Colonel, U.S. Army; Professor of Military Science and Tactics.
B.S. (1935), U.S. Military Academy. At Oregon since 1959.
- ROBERT R. FERENS, M.Arch., Associate Professor of Architecture.
B.Arch. (1942), Pratt Institute; M.Arch. (1948), Massachusetts Institute of Technology. At Oregon since 1948.
- ELIZABETH FINDLY, A.M.L.S., Head Reference and Documents Librarian (Associate Professor).
A.B. (1929), Drake; B.S. in L.S. (1934), Illinois; A.M.L.S. (1945), Michigan. At Oregon since 1934.
- ELIZABETH FINKENSTAEDT, M.A., Instructor in History of Art.
B.A. (1952), Wellesley; M.A. (1955), Michigan. At Oregon since 1959.
- DEAN F. FISHER, M.S., Instructor in Science and Education.
B.S. (1953), Brigham Young; M.S. (1958), Utah. At Oregon since 1959.
- JOSEPH A. FISZMAN, M.A., Instructor in Political Science.
B.A. (1948), St. John's (Shanghai); M.A. (1956), Emory. At Oregon since 1959.
- HENRY C. FIXOTT, D.M.D., Professor of Dentistry, Dental School; Head of Department of Oral Roentgenology.
D.M.D. (1938), North Pacific. At Oregon since 1947.
- SAVILLE T. FORD, M.B.A., Assistant Professor of Management.
B.S. (1939), M.B.A. (1949), Pennsylvania. At Oregon since 1949.
- JOHN M. FOSKETT, Ph.D., Professor of Sociology.
A.B. (1932), M.A. (1935), Ph.D. (1939), California. At Oregon since 1946.
- FREDERICK R. FOSMIRE, Ph.D., Associate Professor of Psychology.
B.A. (1948), M.A. (1949), Ph.D. (1952), Texas. At Oregon since 1958.
- DAVID G. FOSTER, M.F.A., Assistant Professor of Art.
B.A. (1951), Illinois Institute of Technology; M.F.A. (1957), Oregon. At Oregon since 1957.
- PETER W. FRANK, Ph.D., Associate Professor of Biology; Acting Director, Institute of Marine Biology.
B.A. (1944), Earlham; Ph.D. (1951), Chicago. At Oregon since 1957.

- BROWNELL FRASIER, B.A., Associate Professor of Interior Design.
B.A. (1921), Oregon. At Oregon since 1931.
- WALTER FREAUFF, M.A., Assistant Director of Dormitories; Assistant Dean of Students (Assistant Professor).
B.A. (1950), M.A. (1952), Oregon. At Oregon since 1957.
- BERNARD L. FREEMESSER, M.S., Assistant Professor of Journalism; University Photographer.
B.A. (1950), San Diego State; M.S. (1952), Oregon. At Oregon since 1955.
- GERALD L. FREI, M.S., Assistant Professor of Physical Education; Assistant Football Coach.
B.S. (1948), M.S. (1950), Wisconsin. At Oregon since 1955.
- ARTHUR W. FRISCH, Ph.D., M.D., Professor of Bacteriology, Medical School; Chairman of Department.
B.A. (1931), M.A. (1933), Ph.D. (1935), M.D. (1937), Wisconsin. At Oregon since 1946.
- JAMES W. FROST, M.B.A., Alumni Secretary (Assistant Professor).
B.S. (1947), Oregon; M.B.A. (1948), Harvard. At Oregon since 1955.
- ARTHUR E. FRY, D.D.S., Associate Professor of Dentistry, Dental School; Head of Department of Oral Diagnosis.
D.D.S. (1940), Iowa. At Oregon since 1954.
- EMIL D. FURRER, M.D., Assistant Professor of Health Education.
B.A. (1926), M.D. (1929), Oregon. At Oregon since 1947.
- RAYMOND D. GASTIL, Ph.D., Assistant Professor of Anthropology.
A.B. (1953), A.M. (1956), Ph.D. (1958), Harvard. At Oregon since 1959.
- C. PEGGY GAZETTE, M.Ed., Assistant Professor of Physical Education.
B.S. (1951), M.Ed. (1952), Whitworth. At Oregon since 1956.
- JANE GEHRING, B.S., Instructor in Art Education.
B.S. (1940), Michigan State Teachers (Ypsilanti). At Oregon since 1958.
- KENNETH S. GHENT, Ph.D., Associate Professor of Mathematics; Associate Dean of Students.
B.A. (1932), McMaster; S.M. (1933), Ph.D. (1935), Chicago. At Oregon since 1935.
- JAMES H. GILBERT, Ph.D., Professor Emeritus of Economics.
B.A. (1903), Oregon; Ph.D. (1907), Columbia. At Oregon since 1907.
- RICHARD M. GILLIS, M.B.A., Instructor in Finance.
B.B.A. (1952), Tulane; M.B.A. (1953), Pennsylvania. At Oregon since 1959.
- WILEY C. GILMORE, B.A., First Lieutenant, U.S. Air Force; Assistant Professor of Air Science.
B.A. (1955), North Texas State. At Oregon since 1959.
- ANN GLASS, B.A., Instructor in Psychology.
B.A. (1935), California. At Oregon since 1959.
- KEITH GOLDHAMMER, Ph.D., Associate Professor of Education.
B.A. (1938), Reed; M.A. (1943), Ph.D. (1954), Oregon. At Oregon since 1956.
- MARSHALL N. GOLDSTEIN, B.A., Instructor in Political Science; Adjunct Research Associate in Sociology.
B.A. (1955), Florida. At Oregon since 1959.
- JOAQUIN GONZALEZ-MUELA, Ph.D., Professor of Romance Languages.
Lic. (1941), Ph.D. (1946), Madrid. At Oregon since 1959.
- WALTER GORDON, M.F.A., Reg. Archt., Dean of the School of Architecture and Allied Arts; Professor of Architecture.
B.S. (1930), M.F.A. in Arch. (1932), Princeton; Reg. Archt. (1946), State of Oregon. At Oregon since 1957.

- GRACE GRAHAM, Ed.D., Associate Professor of Education.
B.A. (1933), M.A. (1936), South Carolina; Ed.D. (1952), Stanford. At Oregon since 1954.
- WENDELL M. GRAVEN, Ph.D., Assistant Professor of Chemistry.
B.S. (1948), Hamline; Ph.D. (1952), California. At Oregon since 1954.
- *MARCIA W. GREEN, M.A., Instructor in English.
B.A. (1957), M.A. (1959), Brigham Young. At Oregon since 1959.
- STACEY L. GREEN, Mus.M., Associate Professor of Piano; Administrative Assistant, School of Music.
A.B. (1922), Northland; Mus.M. (1940), Northwestern. At Oregon since 1944.
- †MARK R. GREENE, Ph.D., Associate Professor of Insurance; Head of Department of Management, Production, and Marketing.
A.B. (1947), M.B.A. (1949), Stanford; Ph.D. (1955), Ohio State. At Oregon 1949-52 and since 1955.
- STANLEY B. GREENFIELD, Ph.D., Assistant Professor of English.
B.A. (1942), Cornell; M.A. (1947), Ph.D. (1950), California. At Oregon since 1959.
- MONTE A. GREER, M.D., Associate Professor of Medicine, Medical School; Head of Division of Endocrinology.
A.B. (1944), M.D. (1947), Stanford. At Oregon since 1956.
- HERBERT E. GRISWOLD, M.D., Professor of Medicine, Medical School; Head of Division of Cardiology.
B.A. (1939), Reed; M.S. (1943), M.D. (1943), Oregon. At Oregon since 1949.
- RAYMOND D. GRONDAHL, M.D., Professor of Clinical Pathology, Medical School; Chairman of Department.
B.S. (1939), Washington State; M.S. (1944), M.D. (1944), Oregon. At Oregon since 1944.
- RICHARD E. GRIMM, Ph.D., Assistant Professor of Classical Languages.
A.B. (1949), M.A. (1951), Indiana; Ph.D. (1959), Princeton. At Oregon since 1958.
- ROGER D. GROSS, M.A., Instructor in Speech.
B.A. (1957), Oregon; M.A. (1958), Minnesota. At Oregon since 1959.
- JOHN M. GUSTAFSON, Ph.D., Assistant Professor of Music Education.
A.B. (1947), Augustana; M.Mus. (1951), Michigan; Ph.D. (1956), Florida State. At Oregon since 1956.
- FRANKLIN B. HAAR, Ph.D., Professor of Health Education.
B.P.E. (1928), Springfield; M.A. (1933), Ph.D. (1946), Pittsburgh. At Oregon since 1949.
- JUNE HACKETT, M.A., Assistant Professor of Health Education.
B.S. (1947), M.A. (1951), Ohio State. At Oregon since 1955.
- DEMETRIOS M. HADJIMARKOS, D.D.S., Professor of Dentistry, Dental School; Head of Department of Public Health.
D.D.S. (1931), Athens; M.S.D. (1943), Northwestern; M.P.H. (1946), Harvard. At Oregon since 1953.
- JAMES B. HALL, Ph.D., Associate Professor of English.
B.A. (1947), M.A. (1948), Ph.D. (1952), Iowa. At Oregon since 1953.
- ROBERT C. HALL, Associate Professor Emeritus of Journalism.
At Oregon since 1917.
- BERTHA B. HALLAM, B.A., Librarian of the Medical School (Professor).
B.A. (1931), Oregon. At Oregon since 1919.
- LOUIS HAMILL, M.S., Instructor in Business Economics.
B.S. (1949), M.S. (1951), New York State College of Forestry. At Oregon since 1959.

* Resigned Dec. 31, 1959.

† On leave of absence 1959-60.

- JOHN HAMILTON, M.Mus., Assistant Professor of Organ.
A.B. (1946), California; M.Mus. (1956), Southern California. At Oregon since 1959.
- FREDERICK T. HANNAFORD, B.A., Reg. Archt., Professor of Architecture.
B.A. (1924), Washington State; Reg. Archt. (1931), State of Florida. At Oregon since 1946.
- EVELYN R. HANNON, B.S., R.N., R.D.H., Associate Professor of Dental Hygiene, Dental School; Head of Department.
B.S. (1951), Columbia; R.N., State of Kansas (1930), State of California (1937); R.D.H., State of Kansas (1930), State of New York (1948). At Oregon since 1951.
- JAMES P. HARRANG, B.S., LL.B., Special Lecturer in Law.
B.S. (1948), LL.B. (1951), Oregon. At Oregon since 1958.
- LEO A. HARRIS, M.A., Professor of Physical Education; Athletic Director.
A.B. (1927), M.A. (1929), Stanford. At Oregon since 1947.
- DALE S. HARWOOD, JR., D.B.A., Assistant Professor of Accounting.
B.S. (1948), Oregon State; D.B.A. (1957), Washington. At Oregon since 1958.
- EMMANUEL S. HATZANTONIS, Ph.D., Instructor in Romance Languages.
B.A. (1952), City College of New York; M.A. (1953), Columbia; Ph.D. (1958), California. At Oregon since 1959.
- FREDERICK P. HAUGEN, M.D., Professor of Anaesthesiology, Medical School; Head of Division.
B.A. (1933), M.D. (1935), Oregon. At Oregon since 1948.
- CHARLES R. HAUGH, M.L.A., Assistant Professor of Landscape Architecture.
B.F.A. (1955), Illinois; M.L.A. (1959), Harvard. At Oregon since 1959.
- ROBERT J. HAVERS, M.A., Instructor in Romance Languages.
B.A. (1951), M.A. (1952), Rice. At Oregon since 1959.
- RAY HAWK, D.Ed., Associate Dean of Students (Associate Professor).
B.S. (1947), M.S. (1948), D.Ed. (1949), Oregon. At Oregon since 1950.
- WALLACE S. HAYDEN, B.Arch., Reg. Archt., Professor of Architecture.
B.Arch. (1928), Oregon; Reg. Archt. (1935), State of Oregon. At Oregon since 1930.
- *ARTHUR C. HEARN, Ed.D., Professor of Education.
A.B. (1934), M.A. (1937), Ed.D. (1949), Stanford. At Oregon since 1950.
- ALFRED HEILPERN, M.L., Acquisition Librarian (Instructor).
B.A. (1956), M.L. (1957), Washington. At Oregon since 1957.
- JOHN M. HENCHMAN, B.A., Captain, U.S. Army; Assistant Professor of Military Science and Tactics.
B.A. (1951), Washington. At Oregon since 1957.
- JOHN H. HENDRICKSON, M.Mus., Audio-Visual Librarian (Instructor).
B.Mus. (1952), M.Mus. (1957), Oregon. At Oregon since 1957.
- ROBERT K. HENRICH, M.S., Instructor in Science and Education.
B.S. (1940), Bowling Green; M.S. (1949), Indiana. At Oregon since 1959.
- ALLAN J. HILL, JR., M.D., Professor of Pediatrics, Medical School; Chairman of Department.
B.S. (1937), M.B. (1939), M.D. (1940), Minnesota. At Oregon since 1950.
- TERRELL L. HILL, Ph.D., Professor of Chemistry; Acting Head of Department.
A.B. (1939), Ph.D. (1942), California. At Oregon since 1957.
- WALTER R. HILL, Ph.D., Associate Professor of Education; Director, Reading Clinic.
B.A. (1949), M.A. (1953), Ph.D. (1958), Iowa. At Oregon since 1959.
- CLARENCE HINES, D.Ed., Professor of Education.
B.A. (1925), Drury; M.A. (1929), Missouri; D.Ed. (1950), Oregon. At Oregon since 1958.

* On leave of absence, fall and winter terms, 1959-60.

- CARL W. HINTZ, Ph.D., Librarian (Professor).
A.B. (1932), De Pauw; A.B.L.S. (1933), A.M.L.S. (1935), Michigan; Ph.D. (1952), Chicago. At Oregon since 1948.
- LAUREL H. HODGDEN, Ph.D., Assistant Professor of Psychology.
B.A. (1948), Kansas; Ed.M. (1949), Harvard; Ph.D. (1958), Texas. At Oregon since 1959.
- LEE F. HODGDEN, M.Arch., Assistant Professor of Architecture.
B.S. (1948), Kansas; M.Arch. (1949), Massachusetts Institute of Technology. At Oregon since 1958.
- CLARENCE V. HODGES, M.D., Professor of Urology, Medical School; Head of Division.
B.S. (1937), Iowa State; M.D. (1940), Chicago. At Oregon since 1948.
- ROBERT R. HODGES, M.A., Instructor in English.
B.A. (1950), Valparaiso; M.A. (1954), Missouri. At Oregon since 1959.
- HUBERT H. HOELTJE, Ph.D., Professor of English.
B.A. (1919), M.A. (1926), Ph.D. (1932), Iowa. At Oregon since 1947.
- WILLIAM L. HOEY, M.C.P., Assistant Planner, Bureau of Municipal Research and Service (Instructor).
S.B. (1952), Massachusetts Institute of Technology; M.C.P. (1958), Harvard. At Oregon since 1958.
- PAUL J. HOFFMAN, Ph.D., Assistant Professor of Psychology.
B.A. (1949), M.A. (1952), Ph.D. (1954), Stanford. At Oregon since 1957.
- BILL R. HOGAN, B.S., Instructor in Science and Education.
B.S. (1956), Kansas. At Oregon since 1959.
- PAUL S. HOLBO, M.A., Instructor in History.
B.A. (1951), Yale; M.A. (1955), Chicago. At Oregon since 1959.
- ORLANDO J. HOLLIS, B.S., J.D., Dean of the School of Law; Professor of Law.
B.S. (1926), J.D. (1928), Oregon. At Oregon since 1928.
- CHARLES N. HOLMAN, M.D., Associate Dean of the Medical School; Administrator and Medical Director of Hospitals and Clinics; Professor of Medicine.
B.A. (1931), M.D. (1936), Oregon. At Oregon since 1937.
- GEORGE HOPKINS, B.A., Professor of Piano.
Teachers Cert. (1918), Peabody Conservatory; B.A. (1921), Oregon. At Oregon 1919-23 and since 1925.
- ROBERT D. HORN, Ph.D., Professor of English.
B.A. (1922), M.A. (1924), Ph.D. (1930), Michigan. At Oregon since 1925.
- CHARLES G. HOWARD, A.B., J.D., Professor Emeritus of Law.
A.B. (1920), J.D. (1922), Illinois. At Oregon since 1928.
- BARBARA E. HOWELL, B.A., Catalog Librarian (Instructor).
B.A. (1955), Omaha. At Oregon since 1959.
- FRANKLYN L. HRUZA, B.S., Planning Technician, Bureau of Municipal Research and Service (Instructor).
B.S. (1958), California State Polytechnic. At Oregon since 1958.
- JANE YEN CHEN HSU, B.A., Catalog Librarian (Instructor).
B.A. (1946), Ginling Girls' College (Nanking). At Oregon since 1956.
- RALPH R. HUESTIS, Ph.D., Professor of Biology; Curator of Vertebrate Collections.
B.S.A. (1914), McGill; M.S. (1920), Ph.D. (1924), California. At Oregon since 1924.
- CARL L. HUFFAKER, Ph.D., Professor Emeritus of Education.
B.S. (1915), Chicago; M.A. (1922), Ph.D. (1923), Iowa. At Oregon since 1927.
- JOHN L. HULTENG, M.S., Associate Professor of Journalism.
Ph.B. (1943), North Dakota; M.S. (1947), Columbia. At Oregon since 1955.

- DONALD L. HUNTER, B.S., Head, Audio-Visual Department, Library (Assistant Professor).
B.S. (1945), Nebraska. At Oregon since 1946.
- WARREN C. HUNTER, M.D., Professor of Pathology, Medical School; Chairman of Department.
B.A. (1920), Albany; M.A. (1927), Michigan; M.D. (1924), Oregon. At Oregon since 1922.
- ERNEST A. HURLEY, D.M.D., Assistant to the Dean and Registrar, Dental School; Associate Professor of Dentistry.
D.M.D. (1951), Oregon. At Oregon since 1951.
- JOSEPH A. HYNES, JR., A.M., Instructor in English.
A.B. (1951), Detroit; A.M. (1952), Michigan. At Oregon since 1957.
- RICHARD S. IVEY, M.A., Research Assistant, Bureau of Municipal Research and Service (Assistant Professor).
B.A. (1950), Reed; M.A. (1955), California. At Oregon since 1957.
- *JAMES P. JACKSON, B.A., LL.B., Research Attorney, Bureau of Municipal Research and Service (Instructor).
B.A. (1953), Willamette; LL.B. (1957), Colorado. At Oregon since 1958.
- RUTH F. JACKSON, M.A., Instructor in English.
B.A. (1929), M.A. (1933), Oregon. At Oregon since 1955.
- ARTHUR J. JACOBS, Ed.D., Instructor in Speech; Production Director, Classroom Television Project.
B.S.S. (1938), M.S.Ed. (1939), City College of New York; Ed.D. (1952), Columbia. At Oregon since 1959.
- PAUL B. JACOBSON, Ph.D., Dean of the School of Education; Director of Summer Sessions; Professor of Education.
B.A. (1922), Luther (Iowa); M.A. (1928), Ph.D. (1931), Iowa. At Oregon since 1947.
- ROBERT C. JAMES, M.F.A., Assistant Professor of Art.
A.B. (1952), California at Los Angeles; M.F.A. (1955), Cranbrook Academy. At Oregon since 1955.
- JEROME M. JELINEK, M.Mus., Assistant Professor of Cello.
B.Mus. (1952), M.Mus. (1953), Michigan. At Oregon since 1957.
- †BERTRAM E. JESSUP, Ph.D., Professor of Philosophy.
B.A. (1927), M.A. (1935), Oregon; Ph.D. (1938), California. At Oregon since 1936.
- GEORGE S. JETTE, B.L.A., Associate Professor of Landscape Architecture.
B.L.A. (1940), Oregon. At Oregon since 1941.
- JAMES R. JEWELL, Ph.D., LL.D., Professor Emeritus of Education.
A.B. (1903), Coe; M.A. (1904), Ph.D. (1906), Clark; LL.D. (1927), Arkansas. At Oregon since 1932.
- THEODORE B. JOHANNIS, JR., Ph.D., Assistant Professor of Sociology.
B.A. (1948), M.A. (1948), Washington State; Ph.D. (1955), Florida State. At Oregon since 1953.
- CARL L. JOHANNESSEN, Ph.D., Assistant Professor of Geography.
B.A. (1950), M.A. (1953), Ph.D. (1959), California. At Oregon since 1959.
- WALTER G. JOHANNSEN, LL.B., Lecturer in Finance.
LL.B. (1924), Northwestern College of Law. At Oregon 1959.
- CARL L. JOHNSON, Ph.D., Professor of Romance Languages.
B.A. (1924), M.A. (1925), Iowa; Ph.D. (1933), Harvard. At Oregon since 1935.
- ‡CHARLES E. JOHNSON, Ph.D., C.P.A., Professor of Accounting; Head of Department of Accounting and Business Statistics.
B.A. (1942), M.B.A. (1948), Ph.D. (1952), Minnesota; C.P.A. (1949), District of Columbia. At Oregon since 1952.

* Resigned Dec. 31, 1959.

† On leave of absence 1959-60.

‡ On sabbatical leave 1959-60.

- DONALD N. JOHNSON, B.A., Planning Consultant, Bureau of Municipal Research and Service (Associate Professor).
B.A. (1946), Reed. At Oregon since 1959.
- G. BENTON JOHNSON, JR., Ph.D., Assistant Professor of Sociology.
B.A. (1947), North Carolina; M.A. (1953), Ph.D. (1954), Harvard. At Oregon since 1957.
- GLORIA E. JOHNSON, Ph.D., Instructor in English.
B.A. (1944), Barnard; M.A. (1946), Ph.D. (1954), Columbia. At Oregon since 1959.
- MIRIAM M. JOHNSON, Ph.D., Assistant Professor of Sociology.
A.B. (1948), North Carolina; M.A. (1951), Ph.D. (1955), Radcliffe. At Oregon since 1959.
- QUENTIN G. JOHNSON, M.A., Instructor in English.
A.B. (1952), Gonzaga; M.A. (1956), Oregon. At Oregon since 1958.
- THOMAS G. JOHNSON, Ph.D., Associate Professor of Marketing.
B.S. (1946), Illinois; M.S. (1950), North Dakota; Ph.D. (1958), Chicago. At Oregon since 1959.
- FAITH E. JOHNSTON, M.S., Assistant Professor of Home Economics.
B.S. (1929), Kansas State Teachers (Pittsburgh); M.S. (1933), Kansas State. At Oregon since 1947.
- CATHERINE M. JONES, M.S., M.Bus.Ed., Assistant Professor of Business Education.
B.A. (1937), Iowa State Teachers; M.S. (1945), Oregon; M.Bus.Ed. (1952), Colorado. At Oregon since 1946.
- WILLIAM C. JONES, Ph.D., Dean of Administration (Professor).
A.B. (1926), Whittier; M.B.A. (1929), Southern California; Ph.D. (1940), Minnesota. At Oregon 1941-44, 1951-53, and since 1954.
- ELLIS B. JUMP, D.M.D., Ph.D., Professor of Anatomy, Dental School; Head of Department.
A.B. (1932), Dartmouth; D.M.D. (1936), Harvard; Ph.D. (1944), Chicago. At Oregon since 1947.
- PAUL E. KAMBLY, Ph.D., Professor of Education.
B.Ed. (1930), Illinois State Normal; M.S. (1934), Ph.D. (1939), Iowa. At Oregon since 1946.
- ROBERT B. KAPLAN, M.A., Instructor in English.
B.A. (1952), Willamette; M.A. (1957), Southern California. At Oregon since 1957.
- SYLVAN N. KARCHMER, M.F.A., Associate Professor of English.
B.F.A. (1949), M.F.A. (1950), Texas. At Oregon since 1950.
- STEPHEN R. KATZ, M.A., Instructor in English.
B.A. (1956), Cornell; M.A. (1959), Oregon. At Oregon since 1960.
- GEORGE R. KAY, B.S., Instructor in Science and Education.
B.S. (1956), Brigham Young. At Oregon since 1959.
- RAYMOND A. KEHL, Ph.D., Assistant Professor of English; Head of English Department, South Eugene High School.
Ph.B. (1934), Marquette; M.A. (1937), Ph.D. (1955), Minnesota. At Oregon since 1958.
- HERMAN KEHRLI, M.A., Director, Bureau of Municipal Research and Service; Associate Professor of Political Science.
B.A. (1923), Reed; M.A. (1933), Minnesota. At Oregon since 1933.
- HOMER T. KELLER, M.M., Associate Professor of Music Theory and Composition.
B.M. (1937), M.M. (1938), Eastman School of Music. At Oregon since 1958.
- RICHARD A. KELLER, Ph.D., Assistant Professor of Chemistry.
B.S. (1956), Allegheny; Ph.D. (1959), California. At Oregon since 1959.

- RICHARD S. KELLEY, LL.M., Associate Professor of Law.
A.B. (1942), LL.B. (1948), Michigan; LL.M. (1952), California. At Oregon since 1958.
- CARDINAL L. KELLY, M.A., C.P.A., Professor Emeritus of Business Administration.
Ph.B. (1911), Chicago; M.A. (1923), Ohio State; C.P.A., State of Nebraska (1922), State of Oregon (1945). At Oregon since 1922.
- EDWARD C. KEMP, JR., M.L.S., Acquisition Librarian (Senior Instructor).
A.B. (1951), Harvard; M.L.S. (1955), California. At Oregon since 1955.
- MAUDE I. KERNS, B.A., B.S., Associate Professor Emeritus of Art.
B.A. (1899), Oregon; B.S. with Diploma in Fine Arts (1906), Columbia. At Oregon since 1921.
- JAMES KEZER, Ph.D., Associate Professor of Biology.
B.A. (1930), Iowa; M.S. (1937), Ph.D. (1948), Cornell. At Oregon since 1954.
- REID R. KIMBALL, M.D., Assistant Professor of Psychology.
B.S. (1949), Brigham Young; M.D. (1951), Utah. At Oregon since 1957.
- DONALD H. KIRSCH, B.S., Associate Professor of Physical Education; Head Baseball Coach; Assistant Basketball Coach.
B.S. (1943), Oregon. At Oregon since 1947.
- LAURENCE R. KITTLEMAN, JR., M.S., Instructor in Geology.
B.S. (1953), Colorado College; M.S. (1956), Colorado. At Oregon since 1959.
- EDWARD D. KITTOE, M.A., Assistant Professor of English.
B.A. (1931), M.A. (1936), Oregon. At Oregon since 1936.
- GLENNE M. KITTOE, M.A., Instructor in English.
B.A. (1924), Wichita; M.A. (1939), Oregon. At Oregon 1946-49 and since 1957.
- JOHN H. KLEIN, JR., B.A., Captain, U.S. Army; Assistant Professor of Military Science and Tactics.
B.A. (1948), Oklahoma. At Oregon since 1958.
- PAUL L. KLEINSORGE, Ph.D., Professor of Economics.
A.B. (1927), Ph.D. (1939), Stanford; M.B.A. (1929), Harvard. At Oregon since 1948.
- LEROY H. KLEMM, Ph.D., Associate Professor of Chemistry.
B.S. (1941), Illinois; M.S. (1943), Ph.D. (1945), Michigan. At Oregon since 1952.
- ERNESTO R. KNOLLIN, M.A., Professor Emeritus of Physical Education.
B.A. (1914), M.A. (1929), Stanford. At Oregon since 1929.
- FREDRIK L. KNUDSEN III, Lieutenant Colonel, U.S. Army; Assistant Professor of Military Science and Tactics.
B.S. (1951), Oklahoma State. At Oregon since 1959.
- CLIFFORD J. KOLSON, M.Ed., Assistant Professor of Education.
B.S. (1950), M.Ed. (1954), Pittsburgh. At Oregon since 1959.
- H. T. KOPLIN, Ph.D., Associate Professor of Economics; Director of the Honors College; Assistant Dean of the College of Liberal Arts.
B.A. (1947), Oberlin; Ph.D. (1952), Cornell. At Oregon since 1950.
- THEODORE KRATT, Mus.M., Mus.D., Dean of the School of Music; Professor of Music.
Mus.B. (1921), Mus.M. (1930), Mus.D. (1932), Chicago Musical College; Mus.D. (1938), Cincinnati Conservatory of Music. At Oregon since 1939.
- SILVY A. KRAUS, Ph.D., Assistant Professor of Education.
B.A. (1934), M.A. (1948), Bradley; Ph.D. (1956), Minnesota. At Oregon since 1953.
- EDMUND P. KREMER, J.U.D., Professor Emeritus of Germanic Languages.
J.U.D. (1924), Frankfort on Main. At Oregon since 1928.

- ELWOOD A. KRETSINGER, Ph.D., Associate Professor of Speech.
B.A. (1939), Southeastern State (Oklahoma); M.A. (1941), Oklahoma; Ph.D. (1951), Southern California. At Oregon since 1952.
- CLARICE KRIEG, A.M., Head Catalog Librarian (Associate Professor).
B.A. (1932), Iowa; B.S. in L.S. (1933), A.M. (1935), Illinois. At Oregon since 1941.
- ADOLF H. KUNZ, Ph.D., Professor Emeritus of Chemistry.
A.B. (1923), William Jewell; M.S. (1926), Ph.D. (1928), Iowa. At Oregon 1930-32 and since 1934.
- DANIEL H. LABBY, M.D., Professor of Medicine, Medical School; Head of Division of Diabetes and Metabolism.
B.A. (1935), Reed; M.D. (1939), Oregon. At Oregon since 1947.
- FRANK R. LACY, JR., J.D., LL.M., Associate Professor of Law.
A.B. (1946), Harvard; J.D. (1948), Iowa; LL.M. (1958), New York. At Oregon 1949-55 and since 1957.
- WINIFRED C. LADLEY, M.Lib., Assistant Professor of Library Science.
B.A. (1927), M.Lib. (1955), Washington. At Oregon since 1957.
- JOHN E. LALLAS, Ed.D., Assistant Professor of Education; Counselor, University Counseling Center.
B.A. (1947), Washington; B.A. (1952), Western Washington; Ed.D. (1956), Stanford. At Oregon since 1957.
- WILLIAM C. LANDERS, B.S., Activities Director, Student Union (Instructor).
B.S. (1954), Oregon. At Oregon since 1957.
- EDNA LANDROS, Ph.D., Assistant Professor Emeritus of Classical Languages.
A.B. (1913), Kansas; A.M. (1921), Arizona; Ph.D. (1935), Oregon. At Oregon since 1928.
- NED M. LANGFORD, A.B., Planning Technician, Bureau of Municipal Research and Service (Instructor).
A.B. (1951), California at Los Angeles. At Oregon since 1957.
- FRANZ LANGHAMMER, Ph.D., Assistant Professor of Germanic Languages.
M.A. (1952), Ph.D. (1956), Northwestern. At Oregon since 1956.
- KAREN LANSDOWNE, M.Ed., Instructor in English.
B.A. (1948), M.Ed. (1958), Oregon. At Oregon since 1959.
- LARRY L. LAWRENCE, M.A., Instructor in English.
B.A. (1951), Montana; M.A. (1955), Stanford. At Oregon since 1956.
- ROBERT W. LEARY, Ph.D., Assistant Professor of Psychology.
A.B. (1944), A.M. (1948), Stanford; Ph.D. (1956), Wisconsin. At Oregon since 1956.
- IRA D. LEE, M.M.E., Assistant Professor of Brass Instruments.
B.M.E. (1946), M.M.E. (1947), Colorado. At Oregon since 1950.
- ROBERT W. LEEPER, Ph.D., Professor of Psychology; Head of Department.
B.A. (1925), Allegheny; M.A. (1928), Ph.D. (1930), Clark. At Oregon since 1937.
- WOLFGANG A. LEPPMANN, Ph.D., Assistant Professor of Germanic Languages.
B.A. (1948), M.A. (1949), McGill; Ph.D. (1952), Princeton. At Oregon since 1954.
- HOWARD P. LEWIS, M.D., Professor of Medicine, Medical School; Chairman of Department.
B.S. (1924), Oregon State; M.D. (1930), Oregon. At Oregon since 1932.
- HANS A. LINDE, LL.B., Associate Professor of Law.
B.A. (1947), Reed; LL.B. (1950), California. At Oregon 1954 and since 1959.
- RICHARD W. LINDHOLM, Ph.D., Dean of the School of Business Administration; Professor of Business Economics.
A.B. (1935), Gustavus Adolphus; M.A. (1938), Minnesota; Ph.D. (1942), Texas. At Oregon since 1958.

- ROBERT O. LINDSAY, M.A., Social Science Librarian (Instructor).
B.A. (1953), Nevada; M.A. (1957), Minnesota. At Oregon since 1957.
- J. ORVILLE LINDSTROM, B.S., Business Manager (Professor).
B.S. (1932), Oregon. At Oregon since 1932.
- ARTHUR P. LITCHMAN, Publicity Director, Athletic Department (Assistant Professor).
At Oregon since 1946.
- RICHARD A. LITTMAN, Ph.D., Professor of Psychology.
A.B. (1943), George Washington; Ph.D. (1948), Ohio State. At Oregon since 1948.
- WALTER C. LOBITZ, JR., M.D., Professor of Dermatology, Medical School; Head of Division.
B.S. (1939), B.M. (1940), M.D. (1941), Cincinnati. At Oregon since 1959.
- ALFRED L. LOMAX, M.A., Professor of Marketing.
B.B.A. (1923), Oregon; M.A. (1927), Pennsylvania. At Oregon since 1919.
- VAL R. LORWIN, Ph.D., Professor of History.
B.A. (1927), Ph.D. (1953), Cornell; M.A. (1929), Ohio State. At Oregon since 1957.
- LLOYD L. LOVELL, Ph.D., Assistant Professor of Education.
B.A. (1947), Lawrence; M.S. (1951), Minnesota; Ph.D. (1955), Cornell. At Oregon since 1959.
- RAYMOND N. LOWE, Ed.D., Associate Professor of Education.
B.S.Ed. (1940), Massachusetts State Teachers (Fitchburg); M.A. (1948), Ed.D. (1951), Northwestern. At Oregon since 1955.
- ERNEST H. LUND, Ph.D., Associate Professor of Geology.
B.S. (1944), Oregon; Ph.D. (1950), Minnesota. At Oregon since 1957.
- RAMSAY MACMULLEN, Ph.D., Assistant Professor of History.
A.B. (1950), A.M. (1953), Ph.D. (1957), Harvard. At Oregon since 1956.
- C. WARD MACY, Ph.D., Professor of Economics; Head of Department.
A.B. (1920), Grinnell; M.A. (1923), Iowa; Ph.D. (1932), Stanford. At Oregon since 1950.
- FARRELL D. MADSEN, D.Ed., Instructor in Education; Head of Music Department, South Eugene High School.
B.A. (1933), M.A. (1942), Brigham Young; D.Ed. (1957), Oregon. At Oregon since 1956.
- DAVID B. MAHLER, Ph.D., Assistant Professor of Dentistry, Dental School; Head of Department of Dental Materials.
B.S. (1944), M.S. (1948), Ph.D. (1956), Michigan. At Oregon since 1956.
- THERESA M. MALUMPHY, M.S., Instructor in Physical Education.
B.S. (1954), State Teachers College (Bridgewater, Mass.); M.S. (1957), Wisconsin. At Oregon since 1959.
- LOUIS A. MANGELS, A.B., Assistant Dean of Men (Instructor).
A.B. (1959), Indiana. At Oregon since 1959.
- *DUANE F. MARBLE, Ph.D., Assistant Professor of Real Estate.
B.A. (1953), M.A. (1956), Ph.D. (1959), Washington. At Oregon since 1959.
- MARGARET MARKLEY, A.B., B.S. in L.S., Senior Catalog Librarian (Assistant Professor).
A.B. (1933), Southwest Missouri State; B.S. in L.S. (1941), Illinois. At Oregon since 1945.
- ELISABETH A. MARLOW, M.A., Instructor in Romance Languages.
Diplôme (1953), Ecole de Hautes Etudes Commerciales (Paris); M.A. (1958), Oregon. At Oregon since 1958.
- ANNE M. MARNIX, M.S., Instructor in Business Education.
B.S. (1951), Kansas State; M.S. (1956), Kansas State Teachers (Emporia). At Oregon since 1958.

* Resigned January 1, 1960.

- LUCIAN C. MARQUIS, Ph.D., Assistant Professor of Political Science.
B.A. (1942), Black Mountain; M.A. (1951), Ph.D. (1959), California at Los Angeles. At Oregon since 1954.
- THOMAS E. MARSHALL, Ph.D., Assistant Professor of Romance Languages.
B.A. (1945), M.A. (1946), Ph.D. (1959), California. At Oregon since 1953.
- GENE E. MARTIN, Ph.D., Assistant Professor of Geography.
B.A. (1949), M.A. (1952), Washington; Ph.D. (1955), Syracuse. At Oregon since 1956.
- WALTER T. MARTIN, Ph.D., Professor of Sociology; Head of Department.
B.A. (1943), M.A. (1947), Ph.D. (1949), Washington. At Oregon since 1947.
- ALEXANDER P. MASLOW, Ph.D., Visiting Professor of Philosophy.
B.A. (1923), M.A. (1924), Michigan; Ph.D. (1933), California. At Oregon since 1959.
- MARIE R. MASON, M.A., Instructor in Mathematics.
B.A. (1921), Oregon; M.A. (1929), Columbia. At Oregon since 1943.
- JOSEPH D. MATARAZZO, Ph.D., Professor of Medical Psychology, Medical School; Head of Division of Psychology.
B.A. (1946), Brown; M.S. (1950), Ph.D. (1952), Northwestern. At Oregon since 1957.
- RUTH A. MATHERS, B.S., Instructor in Philosophy.
B.S. (1954), California at Los Angeles. At Oregon since 1959.
- ROBERT H. MATTSON, D.Ed., Assistant Professor of Education.
B.A. (1949), Montana; M.A. (1950), Iowa; D.Ed. (1959), Oregon. At Oregon since 1957.
- STANLEY R. MAVEETY, Ph.D., Assistant Professor of English.
B.S. (1943), Northwestern; M.A. (1950), Columbia; Ph.D. (1956), Stanford. At Oregon since 1955.
- LAWRENCE C. MAVES, JR., M.Mus., Instructor in Violin.
B.Mus. (1954), M.Mus. (1959), Oregon; Diploma (1958), Juilliard School of Music. At Oregon since 1958.
- JOHN S. MAYBEE, Ph.D., Assistant Professor of Mathematics.
B.S. (1950), Maryland; Ph.D. (1956), Minnesota. At Oregon since 1959.
- STANFORD McCLELLAN, B.S., Instructor in Science and Education.
B.S. (1949), Utah State. At Oregon since 1959.
- JOHN C. McCLOSKEY, Ph.D., Professor of English.
B.A. (1926), Loras; M.A. (1928), Iowa; Ph.D. (1939), Stanford. At Oregon 1933-36 and since 1938.
- ROBERT R. MCCOLLOUGH, M.A., M.S., Head Humanities Librarian (Assistant Professor).
B.A. (1940), M.A. (1942), Wyoming; M.S. (1950), Columbia. At Oregon since 1950.
- BAYARD H. MCCONNAUGHEY, Ph.D., Assistant Professor of Biology.
B.A. (1938), Pomona; M.A. (1941), Hawaii; Ph.D. (1948), California. At Oregon since 1948.
- DAVID J. McCOSH, Professor of Art.
Graduate (1927), Art Institute of Chicago. At Oregon since 1934.
- PATRICK J. MCGILLIVRAY, M.A., Instructor in Sociology.
B.A. (1950), M.A. (1954), California at Los Angeles. At Oregon since 1959.
- WILLIAM R. MCGRAW, Ph.D., Instructor in Speech.
B.A. (1952), Wooster; M.A. (1953), Ohio State; Ph.D. (1958), Minnesota. At Oregon since 1959.
- PHILIP I. MCHUGH, B.S., Assistant Football and Basketball Coach; Instructor in Physical Education.
B.S. (1957), Oregon. At Oregon since 1958.
- DENNIS W. McLAUGHLIN, B.A., Instructor in Science and Education.
B.A. (1950), California. At Oregon since 1959.

- FORREST L. McMAINS, M.S., Instructor in Mathematics.
B.A. (1957), Oregon; M.S. (1959), Arizona. At Oregon since 1959.
- VERNON E. McMATH, Ph.D., Assistant Professor of Geology.
B.A. (1952), Ph.D. (1958), California at Los Angeles. At Oregon since 1959.
- ADELL McMILLAN, B.A., Program Director, Student Union (Instructor).
B.A. (1955), Whitman. At Oregon since 1955.
- RAYMOND F. MIKESSELL, Ph.D., W. E. Miner Professor of Economics.
B.A. (1935), M.A. (1935), Ph.D. (1939), Ohio State. At Oregon since 1957.
- FRED N. MILLER, M.D., Director of Health Service; Professor of Health Education.
B.A. (1914), M.A. (1916), Lafayette; M.D. (1924), Chicago. At Oregon since 1925.
- MARIAN H. MILLER, M.D., Assistant University Physician; Professor of Health Education.
B.A. (1925), M.D. (1930), Oregon. At Oregon since 1931.
- VERGIL V. MILLER, M.B.A., Instructor in Finance.
B.S. (1955), Oregon State; M.B.A. (1959), Washington. At Oregon since 1959.
- JEFF MINCKLER, Ph.D., M.D., Professor of Pathology, Dental School; Acting Head of Department of General Pathology.
A.B. (1937), Montana; M.A. (1939), Ph.D. (1939), Minnesota; M.D. (1944), St. Louis. At Oregon since 1949.
- ERNEST G. MOLL, A.M., Professor of English.
A.B. (1922), Lawrence; A.M. (1923), Harvard. At Oregon since 1928.
- ROBERT R. MONAGHAN, A.M., Instructor in Journalism.
A.B. (1952), Olivet; A.M. (1959), Stanford. At Oregon since 1959.
- KIRT E. MONTGOMERY, Ph.D., Associate Professor of Speech.
A.B. (1930), Carroll; M.A. (1939), Ph.D. (1948), Northwestern. At Oregon 1941-43 and since 1945.
- PATRICIA MONTGOMERY, M.S., Instructor in Physical Education.
B.P.H.E. (1951), Toronto; M.S. (1957), Wisconsin. At Oregon since 1958.
- A. RUSSELL MOORE, Ph.D., Research Professor Emeritus of General Physiology.
B.A. (1904), Nebraska; Ph.D. (1911), California. At Oregon 1926-32 and since 1934.
- CARLISLE MOORE, Ph.D., Associate Professor of English.
B.A. (1933), M.A. (1934), Ph.D. (1940), Princeton. At Oregon since 1946.
- JOSEPHINE S. MOORE, B.S., Manager of News Bureau (Instructor).
B.S. (1931), Oregon. At Oregon since 1946.
- MERLE W. MOORE, M.D., Associate Clinical Professor of Medicine, Medical School; Head of Division of Allergy.
B.S. (1920), Oregon; M.D. (1924), Jefferson Medical College. At Oregon since 1928.
- JENNELLE V. MOORHEAD, M.S., Professor of Health Education.
B.A. (1925), Willamette; M.S. (1948), Oregon. At Oregon since 1946.
- J. E. BRUCE MORRIS, M.A., Senior Reference Librarian (Instructor).
B.A. (1932), B.Paed. (1940), B.L.S. (1946), Toronto; M.A. (1954), Chicago. At Oregon since 1955.
- ROBERT W. MORRIS, Ph.D., Assistant Professor of Biology.
A.B. (1942), Wichita; M.S. (1948), Oregon State; Ph.D. (1954), Stanford. At Oregon since 1955.
- VICTOR P. MORRIS, Ph.D., H. T. Miner Professor of Business Administration.
B.A. (1915), M.A. (1920), Oregon; Ph.D. (1930), Columbia. At Oregon 1919-20 and since 1926.
- PERRY D. MORRISON, M.A., Acting Assistant Librarian; Head Social Science Librarian (Associate Professor).
A.B. (1942), M.A. (1947), Whittier; B.S.L.S. (1949), California. At Oregon since 1949.

- MORTON F. MOSS, M.B.A., C.P.A., Assistant Professor of Accounting.
B.A. (1941), Reed; M.B.A. (1948), California; C.P.A. (1950), State of California. At Oregon since 1956.
- ANDREW F. MOURSUND, Ph.D., Professor of Mathematics; Head of Department.
B.A. (1923), M.A. (1927), Texas; Ph.D. (1932), Brown. At Oregon since 1931.
- EARL E. MOURSUND, M.Arch., Reg. Archt., Assistant Professor of Architecture.
B.S. (1949), Texas; M.Arch. (1951), Cranbrook Academy; Reg. Archt. (1951), State of Texas. At Oregon since 1955.
- THOMAS F. MUNDLE, M.A., Assistant Professor of English.
M.A. (1923), St. Andrews. At Oregon since 1940.
- B. CORLEE MUNSON, M.S., Instructor in Physical Education.
B.A. (1948), Colorado State College; M.S. (1956), Washington. At Oregon since 1959.
- FREDERICK W. MUNZ, Ph.D., Assistant Professor of Biology.
B.A. (1950), Pomona; M.A. (1952), Ph.D. (1958), California at Los Angeles. At Oregon since 1959.
- LEO W. MYERS, M.Ed., Instructor in Education.
B.S. (1941), Nebraska; M.Ed. (1953), Oregon. At Oregon since 1958.
- HORACE D. NEELY, B.S., Colonel, U.S. Air Force; Professor of Air Science; Head of Department of Military and Air Science.
B.S. (1934), Oregon. At Oregon since 1959.
- LOIS E. NELSON, M.S., Assistant Professor of Home Economics.
B.S. (1948), North Dakota Agricultural; M.S. (1950), Cornell. At Oregon since 1959.
- RAYMOND E. NELSON, M.S., Visiting Assistant Professor of Insurance.
B.S. (1954), M.S. (1956), Florida State. At Oregon since 1959.
- ROY P. NELSON, M.S., Assistant Professor of Journalism.
B.S. (1947), M.S. (1954), Oregon. At Oregon since 1955.
- FRANCES S. NEWSOM, M.A., Architecture and Allied Arts Librarian (Senior Instructor).
B.A. (1928), Oregon; M.A. (1953), Denver. At Oregon since 1950.
- HOWARD M. NICHOLS, M.S., Instructor in Science and Education.
B.A. (1951), M.Ed. (1955), Linfield. At Oregon since 1959.
- IRA R. NISSEN, M.B.A., Instructor in Accounting.
B.S. (1949), State Teachers College (Minot, N. D.); M.B.A. (1950), Denver. At Oregon since 1959.
- IVAN M. NIVEN, Ph.D., Professor of Mathematics.
B.A. (1934), M.A. (1936), British Columbia; Ph.D. (1938), Chicago. At Oregon since 1947.
- C. MAX NIXON, B.F.A., Instructor in Applied Design.
B.F.A. (1939), Kansas. At Oregon 1956-57 and since 1958.
- W. SCOTT NOBLES, Ph.D., Assistant Professor of Speech.
B.A. (1947), Southeastern State (Oklahoma); M.A. (1948), Western Reserve; Ph.D. (1955), Louisiana State. At Oregon since 1955.
- WILLIAM H. NOLTE, Ph.D., Instructor in English.
B.A. (1951), Missouri; M.A. (1952), Texas; Ph.D. (1959), Illinois. At Oregon since 1959.
- AARON NOVICK, Ph.D., Professor of Biology; Director, Institute of Molecular Biology.
B.S. (1940), Ph.D. (1943), Chicago. At Oregon since 1959.
- EDWARD NOVITSKI, Ph.D., Professor of Biology.
B.S. (1938), Purdue; Ph.D. (1942), California Institute of Technology. At Oregon since 1958.

- HAROLD J. NOYES, D.D.S., M.D., Dean of the Dental School; Professor of Dentistry; Clinical Professor of Dental and Oral Medicine, Medical School; Head of Division.
Ph.B. (1923), M.D. (1933), Chicago; B.S. (1928), D.D.S. (1928), Illinois. At Oregon since 1946.
- RICHARD M. NOYES, Ph.D., Professor of Chemistry.
A.B. (1939), Harvard; Ph.D. (1942), California Institute of Technology. At Oregon since 1958.
- ROBERT E. NYE, Ph.D., Professor of Music Education.
B.E. (1932), State Teachers College (Milwaukee, Wis.); M.A. (1942), Ph.D. (1949), Wisconsin. At Oregon since 1950.
- VERNICE T. NYE, M.A., Assistant Professor of Education.
B.S. (1944), Florence State Teachers (Alabama); M.A. (1948), George Peabody. At Oregon since 1956.
- PATRICIA E. O'CONNOR, B.A., Research Assistant, Bureau of Municipal Research and Service (Instructor).
B.A. (1953), St. Mary's, Notre Dame (Indiana). At Oregon since 1958.
- ROBERT E. ODEH, M.S., Instructor in Mathematics.
B.S. (1952), M.S. (1954), Carnegie Institute of Technology. At Oregon since 1959.
- ROBERT O. OFFICER, B.S., Athletic Trainer; Instructor in Physical Education.
B.S. (1943), Oregon. At Oregon since 1950.
- ROBERT T. OKANO, B.A., B.S., Instructor in Science and Education.
B.A. (1951), B.S. (1953), Washington. At Oregon since 1959.
- ARNE L. OLSON, M.A., Instructor in Physical Education.
B.A. (1952), Iowa State Teachers; M.A. (1956), Iowa. At Oregon since 1958.
- GUHLI J. OLSON, M.S., R.N., Associate Professor of Nursing Education; Assistant Director of Department, in Charge of Prenursing Program.
B.S. (1936), Battle Creek; M.S. (1947), Western Reserve; R.N. (1936), State of Ohio. At Oregon since 1942.
- KARL W. ONTHANK, M.A., Professor Emeritus of Social Science; Counselor, University Mothers and Dads.
B.A. (1913), M.A. (1915), Oregon. At Oregon since 1916.
- EDWIN E. OSGOOD, M.D., Professor of Medicine, Medical School; Head of Division of Experimental Medicine and Division of Hematology.
B.A. (1923), M.A. (1924), M.D. (1924), Oregon. At Oregon since 1921.
- HENRY OSIBOV, M.Ed., Instructor in Education.
B.A. (1939), Western Washington; M.Ed. (1950), Oregon. At Oregon since 1958.
- NORMAN H. OSWALD, Ph.D., Assistant Professor of English.
B.A. (1935), Reed; M.A. (1943), Ph.D. (1946), California. At Oregon since 1946.
- GERALD R. PATTERSON, Ph.D., Assistant Professor of Psychology.
B.S. (1949), M.S. (1951), Oregon; Ph.D. (1956), Minnesota. At Oregon since 1957.
- CLYDE P. PATTON, Ph.D., Associate Professor of Geography.
A.B. (1948), M.A. (1950), Ph.D. (1953), California. At Oregon since 1958.
- ANTHONY A. PEARSON, Ph.D., Professor of Anatomy, Medical School; Chairman of Department.
B.S. (1928), Furman; Ph.D. (1933), Michigan. At Oregon since 1946.
- PAUL F. PEARSON, B.A., Captain, U.S. Army; Assistant Professor of Military Science and Tactics.
B.A. (1951), Oklahoma State. At Oregon since 1959.
- CLEMEN M. PECK, M.A., Assistant Professor of Speech.
B.S. (1930), Montana State; M.A. (1946), Iowa. At Oregon since 1957.

- ARNO L. PEETERSON, M.B.A., C.P.A., Assistant Professor of Accounting.
B.S. (1937), M.B.A. (1949), Oregon; C.P.A. (1955), State of Oregon. At Oregon since 1946.
- MARY H. PERKINS, M.A., Professor Emeritus of English.
B.A. (1898), Bates; M.A. (1908), Radcliffe. At Oregon since 1908.
- GEORGE P. PETERSEN, M.Ed., Assistant Professor of Education; Head of Business Education Department, South Eugene High School.
B.A. (1949), M.Ed. (1953), Oregon. At Oregon since 1955.
- NILKANTH M. PHATAK, Ph.D., Professor of Pharmacology, Dental School; Head of Department.
A.B. (1931), M.S. (1935), California; Ph.D. (1939), Cincinnati. At Oregon since 1940.
- MARGARET I. PHY, Instructor in Business Education.
At Oregon since 1954.
- IONE F. PIERRON, B.A., B.A. in Lib., Senior Social Science Librarian (Senior Instructor).
B.A. (1936), Puget Sound; B.A. in Lib. (1937), Washington. At Oregon since 1948.
- STANLEY A. PIERSON, Ph.D., Assistant Professor of History.
B.A. (1950), Oregon; A.M. (1951), Ph.D. (1957), Harvard. At Oregon since 1957.
- EVELYN PIPER, M.A., Instructor in Education.
B.S. (1940), Northwest Missouri State Teachers; M.A. (1946), Columbia. At Oregon 1955-56 and since 1957.
- FORREST R. PITTS, Ph.D., Assistant Professor of Geography.
B.A. (1948), M.A. (1949), Ph.D. (1955), Michigan. At Oregon since 1955.
- *MARGARET S. POLEY, Ph.D., Professor of Physical Education.
A.B. (1926), Colorado; M.S. (1930), Wellesley; Ph.D. (1948), Iowa. At Oregon since 1948.
- EARL POMEROY, Ph.D., Professor of History; Head of Department.
B.A. (1936), San Jose State; M.A. (1937), Ph.D. (1940), California. At Oregon since 1949.
- CAROLINE H. POMMARANE, B.S., Registrar of the Medical School (Assistant Professor).
B.S. (1928), Nebraska. At Oregon since 1943.
- KENNETH A. POOLE, B.S., J.D., Special Lecturer in Law.
B.S. (1950), J.D. (1952), Oregon. At Oregon 1953-56 and since 1958.
- DONALD R. PORTER, D.D.S., Associate Professor of Dentistry, Dental School; Head of Department of Pedodontics.
D.D.S. (1951), M.S. (1953), Michigan. At Oregon since 1953.
- KENNETH W. PORTER, Ph.D., Professor of History.
B.A. (1926), Sterling; M.A. (1927), Minnesota; Ph.D. (1936), Harvard. At Oregon 1951-52 and since 1958.
- JOHN L. POWELL, Ph.D., Professor of Physics; Head of Department.
B.A. (1943), Reed; Ph.D. (1948), Wisconsin. At Oregon since 1955.
- DARRELL E. POWERS, B.S., Planning Technician, Bureau of Municipal Research and Service (Instructor).
B.S. (1958), Kansas State. At Oregon since 1958.
- PERRY J. POWERS, Ph.D., Associate Professor of Romance Languages.
B.A. (1941), Oregon; Ph.D. (1947), Johns Hopkins. At Oregon since 1946.
- JOHN M. PRATT, M.A. Instructor in English.
B.A. (1949), Swarthmore; B.A. (1951), M.A. (1955), Cambridge. At Oregon since 1957.

* On sabbatical leave 1959-60.

- MARGARET A. PRESTON, B.S., Planning Technician, Bureau of Municipal Research and Service (Instructor).
B.S. (1958), Utah State. At Oregon since 1958.
- JAMES L. PRICE, M.A., Instructor in Sociology.
B.S. (1950), Ohio State; M.A. (1954), Illinois. At Oregon since 1957.
- WARREN C. PRICE, M.A., Professor of Journalism.
B.A. (1929), M.A. (1938), Wisconsin. At Oregon since 1942.
- JESSIE L. PUCKETT, M.S., Associate Professor of Physical Education.
B.S. (1931), M.S. (1937), Oregon. At Oregon since 1952.
- JOHN H. QUINER, B.S., Special Lecturer in Architecture.
B.S. (1923), Oregon State. At Oregon since 1957.
- GERALD E. RAAB, M.S., Instructor in Science and Education.
B.S. (1950), Montana State; M.S. (1958), Oregon State. At Oregon since 1959.
- HOWARD L. RAMEY, M.F.A., Assistant Professor of Speech.
B.A. (1948), Oregon; M.F.A. (1950), Yale. At Oregon since 1951.
- RICHARD C. RAMPTON, M.S., Instructor in Business Education.
B.A. (1952), M.S. (1959), Oregon. At Oregon 1953-54 and since 1956.
- FREDERICK O. RANKIN, M.D., Visiting Lecturer in Physical Education.
B.A. (1930), M.D. (1933), Oregon. At Oregon since 1959.
- WILLIAM F. RAU, B.S., Lecturer in Insurance.
B.S. (1949), Oregon. At Oregon 1960.
- MOHAMMED A. RAZA, M.B.A., Instructor in Business Law.
B.A. (1953), Islamia College (Pakistan); LL.B. (1956), Panjab; M.B.A. (1959), Washington. At Oregon since 1959.
- DOROTHY S. REDDEN, M.A., Instructor in English.
A.B. (1942), Carlton; M.A. (1956), Columbia. At Oregon since 1959.
- EDWARD W. REED, Ph.D., Professor of Finance; Head of Department of Finance and Business Economics.
B.Ed. (1936), Southern Illinois; M.A. (1937), Ph.D. (1947), Illinois. At Oregon since 1958.
- *FRANCIS J. REITHEL, Ph.D., Professor of Chemistry; Head of Department.
B.A. (1936), Reed; M.A. (1938), Ph.D. (1942), Oregon. At Oregon since 1946.
- EDWARD R. REUTER, Ph.D., Assistant Professor of Physical Education; Wrestling Coach.
B.S. (1948), Washington State; M.S. (1949), Ph.D. (1957), Illinois. At Oregon since 1958.
- WILLIAM P. RHODA, D.Ed., Associate Professor of Physical Education.
B.S. (1939), Pennsylvania State; M.S. (1947), D.Ed. (1951), Oregon. At Oregon since 1948.
- W. DWAYNE RICHINS, Ph.D., Associate Professor of Marketing.
B.A. (1936), Brigham Young; M.B.A. (1938), Louisiana State; Ph.D. (1950), Washington. At Oregon since 1949.
- †ROBERT J. RICHMAN, Ph.D., Assistant Professor of Philosophy.
A.M. (1950), Ph.D. (1953), Harvard. At Oregon since 1953.
- NORMAN H. RICKLES, D.D.S., Associate Professor of Dentistry, Dental School; Head of Department of Oral Pathology.
D.D.S. (1947), Washington; M.S. (1951), California. At Oregon since 1956.
- ‡THOMAS H. M. RIGBY, M.A., Assistant Director, Bureau of Municipal Research and Service (Assistant Professor).
B.A. (1950), M.A. (1953), Idaho. At Oregon 1952 and since 1955.

* On leave of absence 1959-60.

† On sabbatical leave 1959-60.

‡ Resigned September 30, 1959.

- BERNICE M. RISE, A.B., B.S. in L.S., Reader's Consultant and Browsing Room Librarian (Assistant Professor).
B.A. (1923), Oregon; B.S. in L.S. (1928), Columbia. At Oregon since 1923.
- MAX D. RISINGER, M.A., Assistant Professor of Music.
B.Ed. (1935), Western Illinois State; M.A. (1942), Iowa. At Oregon since 1954.
- PAUL L. RISLEY, Ph.D., Professor of Biology.
A.B. (1927), Albion; M.A. (1929), Ph.D. (1931), Michigan. At Oregon since 1945.
- NORVAL J. RITCHEY, M.S., Administrative Assistant, Athletic Department; Freshman Baseball Coach; Instructor in Physical Education.
B.S. (1953), M.S. (1956), Oregon. At Oregon since 1956.
- WILLIAM J. ROBERT, LL.M., Associate Professor of Business Law.
B.A. (1939), LL.B. (1941), Oregon; LL.M. (1957), New York University. At Oregon since 1950.
- CLIFF ROBINSON, D.Ed., Associate Professor of Education.
B.S. (1933), M.S. (1943), Oregon State; D.Ed. (1955), Oregon. At Oregon since 1957.
- HORACE W. ROBINSON, M.A., Professor of Speech; Director of University Theater.
B.A. (1931), Oklahoma City; M.A. (1932), Iowa. At Oregon since 1933.
- JOSEPH L. ROBINSON, M.S., Instructor in Science and Education.
B.S. (1942), Utah State; M.S. (1956), Idaho. At Oregon since 1959.
- JACK ROCHE, B.S., Assistant Professor of Physical Education; Assistant Football Coach.
B.S. (1940), Santa Clara. At Oregon since 1951.
- LYNN S. RODNEY, Ph.D., Associate Professor of Physical Education.
B.A. (1936), M.A. (1938), Washington State; Ph.D. (1955), Michigan. At Oregon since 1955.
- ALAN W. ROECKER, Ph.M., Head Science Librarian (Associate Professor).
Ph.B. (1938), B.L.S. (1950), Ph.M. (1943), Wisconsin. At Oregon since 1950.
- MILES C. ROMNEY, Ph.D., Professor of Education.
B.S. (1935), Utah State; Ph.D. (1947), Columbia. At Oregon since 1952.
- MARION D. ROSS, M.Arch., Reg. Archt., Professor of Architecture.
B.S. (1935), Pennsylvania State; M.Arch. (1937), Harvard; Reg. Archt. (1946), State of Louisiana. At Oregon since 1947.
- VICTORIA A. ROSS, M.F.A., Associate Professor of Art.
B.A. (1927), Oregon; M.F.A. (1939), Southern California. At Oregon since 1920.
- J. DAVID ROWE, B.A., Planning Consultant, Bureau of Municipal Research and Service (Assistant Professor).
B.A. (1955), Park. At Oregon since 1959.
- RICHARD T. RUETTEN, M.A., Instructor in History.
B.A. (1955), Colorado State College of Education; M.A. (1957), Oregon. At Oregon since 1959.
- *WALLACE M. RUFF, M.S., Associate Professor of Landscape Architecture.
B.S. (1934), Florida; M.S. (1950), California. At Oregon since 1952.
- J. FRANCIS RUMMEL, Ph.D., Associate Professor of Education.
B.A. (1933), Iowa State Teachers; M.A. (1947), Ph.D. (1950), Iowa. At Oregon since 1950.
- C. BRYAN RYAN, M.F.A., Assistant Professor of Art.
B.S. (1939), M.F.A. (1940), Oregon. At Oregon since 1946.
- NOBUHIKO SAITO, D.Sc., Visiting Professor of Chemistry.
B.S. (1941), D.Sc. (1953), Tokyo. At Oregon since 1958.

* On sabbatical leave 1959-60.

- EUGENE N. SALMON, M.A.**, Head Circulation Librarian (Assistant Professor).
B.A. (1954), M.A. (1955), Denver. At Oregon since 1955.
- ROY J. SAMPSON, Ph.D.**, Assistant Professor of Transportation.
B.S. (1946), Tennessee Polytechnic; M.B.A. (1948), Ph.D. (1951), California. At Oregon since 1959.
- ADOLPH A. SANDIN, Ph.D.**, Associate Professor of Education.
B.A. (1933), Central Washington College of Education; M.A. (1938), Washington; Ph.D. (1943), Columbia. At Oregon since 1950.
- GEORGE SASLOW, Ph.D., M.D.**, Professor of Psychiatry, Medical School; Chairman of Department.
Sc.B. (1926), Ph.D. (1931), New York University; M.D. (1940), Harvard. At Oregon since 1957.
- BHIM S. SAVARA, D.M.D.**, Associate Professor of Dentistry, Dental School; Head of Child Study Clinic.
F.Sc. (1942), Lahore, India; B.D.S. (1946), Demontmorency, India; L.D.S. (1947), Royal Dental, London; M.S. (1949), Illinois; D.M.D. (1957), Oregon. At Oregon since 1950.
- OSCAR F. SCHAAF, Ph.D.**, Assistant Professor of Education; Head of Mathematics Department, South Eugene High School.
B.A. (1942), Wichita; A.M. (1946), Chicago; Ph.D. (1954), Ohio State. At Oregon since 1954.
- BRADLEY T. SCHEER, Ph.D.**, Professor of Biology; Head of Department.
B.S. (1936), California Institute of Technology; Ph.D. (1940), California. At Oregon since 1950.
- JOHN A. SCHELLMAN, Ph.D.**, Associate Professor of Chemistry.
A.B. (1948), Temple; M.A. (1949), Ph.D. (1951), Princeton. At Oregon since 1958.
- CHARLES P. SCHLEICHER, Ph.D.**, Professor of Political Science.
A.B. (1928), College of Pacific; M.A. (1931), Hawaii; Ph.D. (1936), Stanford. At Oregon since 1947.
- MARTHA F. SCHMITT, B.A., B.S.**, Catalog Librarian (Instructor).
B.A. (1936), Drake; B.S. (1939), Columbia. At Oregon 1941-48 and since 1959.
- MARTIN SCHMITT, B.S., B.S. in L.S.**, Curator of Special Collections, Library (Associate Professor).
B.S. (1938), B.S. in L.S. (1939), Illinois. At Oregon since 1947.
- PHIL SCHOEGGEN, Ph.D.**, Assistant Professor of Psychology.
B.A. (1946), Park; M.A. (1951), Ph.D. (1954), Kansas. At Oregon since 1957.
- WALDO SCHUMACHER, Ph.D.**, Professor Emeritus of Political Science.
A.B. (1917), Bluffton; A.M. (1918), Ohio State; Ph.D. (1923), Wisconsin. At Oregon since 1928.
- JOHN E. SELBY, Ph.D.**, Assistant Professor of History.
A.B. (1950), Harvard; A.M. (1951), Ph.D. (1955), Brown. At Oregon since 1955.
- LESTER G. SELIGMAN, Ph.D.**, Associate Professor of Political Science.
B.A. (1939), Ph.D. (1947), Chicago. At Oregon since 1953.
- FREDERICK J. SEUBERT, Ph.D.**, Associate Professor of Management.
B.A. (1942), Baldwin-Wallace; B.M.E. (1946), Florida; M.B.A. (1947), Pennsylvania; Ph.D. (1954), Cornell. At Oregon since 1957.
- OTILIE T. SEYBOLT, M.A.**, Associate Professor Emeritus of Speech.
A.B. (1910), Mount Holyoke; M.A. (1915), Wisconsin. At Oregon since 1928.
- JAMES M. SHEA, M.S.**, Assistant to the Director of Public Services (Assistant Professor).
A.B. (1950), Missouri; M.S. (1956), Oregon. At Oregon since 1958.
- DONALD SHEPARDSON, Superintendent, University Press (Assistant Professor).**
At Oregon since 1955.

- JOHN R. SHEPHERD, Ph.D., Assistant Professor of Speech; Production Director, University Radio Studios.
B.A. (1946), M.A. (1947), Stanford; Ph.D. (1952), Southern California. At Oregon since 1957.
- JOHN C. SHERWOOD, Ph.D., Associate Professor of English; Director of English Composition.
B.A. (1941), Lafayette; M.A. (1942), Ph.D. (1945), Yale. At Oregon since 1946.
- HARRY A. SHOEMAKER, Ph.D., Assistant Professor of Psychology.
B.A. (1948), Whitman; M.A. (1950), Ph.D. (1953), Colorado. At Oregon since 1959.
- J. ARNOLD SHOTWELL, Ph.D., Curator, Museum of Natural History; Associate Professor of Biology.
B.S. (1947), M.S. (1950), Oregon; Ph.D. (1953), California. At Oregon since 1947.
- PETER O. SIGERSETH, D.Ed., Ph.D., Professor of Physical Education.
B.A. (1928), Minot State Teachers (North Dakota); M.A. (1936), North Dakota; D.Ed. (1944), Oregon; Ph.D. (1955), Iowa. At Oregon 1942-44 and since 1947.
- PAUL B. SIMPSON, Ph.D., Professor of Economics and Mathematics.
B.A. (1936), Reed; Ph.D. (1949), Cornell. At Oregon 1949-53 and since 1955.
- HILARY SIMS, B.A., Instructor in English.
B.A. (1957), Oxford. At Oregon since 1960.
- FRANK P. SIPE, M.S., Associate Professor Emeritus of Biology.
B.S. (Agr.) (1916), B.S. (Educ.) (1918), Missouri; M.S. (1923), Iowa State. At Oregon since 1932.
- RICHARD L. SLEETER, M.D., Director of Crippled Children's Division, Medical School; Associate Professor of Pediatrics.
B.A. (1940), Oregon; M.D. (1943), Washington University. At Oregon since 1953.
- DONALD B. SLOCUM, M.D., Visiting Lecturer in Physical Education.
B.S. (1932), Stanford; M.D. (1935), Oregon; M.S. (1939), Tennessee. At Oregon since 1959.
- JESSIE M. SMITH, Ph.D., Associate Professor of Business Education; Head of Department of Business Education and Secretarial Science.
B.S.S. (1934), Oregon State; M.A. (1946), Oregon; Ph.D. (1954), Columbia. At Oregon since 1941.
- ROBERT L. SMITH, M.A., Instructor in Romance Languages.
B.A. (1952), M.A. (1954), California at Los Angeles. At Oregon since 1959.
- ROBERT W. SMITH, Ph.D., Associate Professor of History.
B.A. (1937), Chicago; M.A. (1940), Ph.D. (1942), California at Los Angeles. At Oregon since 1947.
- STEPHEN J. SMITH, B.S., Instructor in Science and Education.
B.S. (1929), Oregon State. At Oregon since 1959.
- THOMAS H. SMITH, B.A., Captain, U.S. Air Force; Assistant Professor of Air Science.
B.A. (1950), Sacramento State. At Oregon since 1957.
- WILLIAM E. SNELL, M.D., Associate Professor of Orthopaedic Surgery, Medical School; Head of Division.
B.S. (1943), M.D. (1954), Oregon. At Oregon since 1951.
- VERNON F. SNOW, Ph.D., Assistant Professor of History.
B.A. (1948), Wheaton; M.A. (1949), Chicago; Ph.D. (1953), Wisconsin. At Oregon since 1953.
- MARSHALL L. SNYDER, Ph.D., Professor of Bacteriology, Dental School; Head of Department.
Ph.B. (1930), Brown; M.S. (1932), Ph.D. (1935), Colorado. At Oregon since 1946.
- ARNOLD L. SODERWALL, Ph.D., Associate Professor of Biology.
B.A. (1936), Linfield; M.A. (1937), Illinois; Ph.D. (1941), Brown. At Oregon since 1941.

- JAY V. SOEDER, M.F.A., Instructor in Art.
B.S. (1948), Indiana State Teachers; B.F.A. (1950), M.F.A. (1950), Chicago Art Institute. At Oregon since 1957.
- HELEN L. SOEHREN, M.A., Assistant Professor of English.
B.A. (1935), M.A. (1938), Oregon. At Oregon since 1942.
- JOHN W. SOHA, M.B.A., C.P.A., Associate Professor of Accounting.
B.B.A. (1936), Puget Sound; M.B.A. (1950), Michigan; C.P.A. (1942), State of Washington. At Oregon since 1951.
- LLOYD R. SORENSON, Ph.D., Associate Professor of History.
B.A. (1938), North Dakota; M.A. (1945), Ph.D. (1947), Illinois. At Oregon since 1947.
- VERNON S. SPRAGUE, Ph.D., Professor of Physical Education.
B.S. (1937), Oregon; M.A. (1942), Ph.D. (1951), Michigan. At Oregon since 1946.
- FRANKLIN W. STAHL, Ph.D., Associate Professor of Biology; Research Associate, Institute of Molecular Biology.
A.B. (1951), Harvard; Ph.D. (1956), Rochester. At Oregon since 1959.
- BETTY MAE STAMM, B.A., Acquisition Librarian (Senior Instructor).
B.A. (1927), Oregon. At Oregon since 1926.
- LLOYD W. STAPLES, Ph.D., Professor of Geology; Head of Department.
A.B. (1929), Columbia; M.S. (1930), Michigan; Ph.D. (1935), Stanford. At Oregon since 1939.
- D. GLENN STARLIN, Ph.D., Associate Professor of Speech; Head of Department; Coordinator of Classroom Television Project.
B.A. (1938), Idaho; M.A. (1939), Ph.D. (1951), Iowa. At Oregon since 1947.
- JOHN W. STARR III, Ed.D., Assistant Professor of Education.
B.S. (1948), Colorado Agricultural and Mechanical; M.A. (1953), Ed.D. (1955), Colorado State College of Education. At Oregon since 1957.
- HENRY-YORK STEINER, M.A., Instructor in English.
B.A. (1956), Grinnell; M.A. (1957), Yale. At Oregon since 1959.
- *WENDELL H. STEPHENSON, Ph.D., Litt.D., LL.D., Professor of History.
A.B. (1923), A.M. (1924), Indiana; Ph.D. (1928), Michigan; Litt.D. (1950), Duke; LL.D. (1953), North Carolina. At Oregon since 1953.
- THEODORE STERN, Ph.D., Associate Professor of Anthropology; Assistant Curator of Ethnology.
B.A. (1939), Bowdoin; A.M. (1941), Ph.D. (1948), Pennsylvania. At Oregon since 1948.
- FRED L. STETSON, M.A., Professor Emeritus of Education.
A.B. (1911), M.A. (1913), Washington. At Oregon since 1913.
- ROBIN E. STEUSSY, Ph.D., Assistant Professor of Slavic Languages.
B.A. (1943), Wisconsin; M.A. (1958), Ph.D. (1959), Harvard. At Oregon since 1959.
- ARTHUR B. STILLMAN, M.B.A., Professor Emeritus of Business Administration.
B.A. (1928), Oregon; M.B.A. (1937), Washington. At Oregon since 1922.
- JAMES C. STOVALL, M.A., Associate Professor of Geology.
B.S. (1927), M.A. (1929), Oregon. At Oregon since 1934.
- G. DOUGLAS STRATON, Ph.D., Associate Professor of Religion; Head of Department.
A.B. (1938), Harvard; B.D. (1941), Andover Newton; Ph.D. (1950), Columbia. At Oregon since 1959.
- STEPHEN T. STRATTON, B.P.E., B.Ed., Instructor in Physical Education.
B.P.E. (1954), B.Ed. (1957), British Columbia. At Oregon since 1959.
- JAMES H. STRAUGHAN, Ph.D., Assistant Professor of Psychology.
B.A. (1948), Florida; Ph.D. (1954), Indiana. At Oregon since 1959.

* On sabbatical leave 1959-60.

JACOB STRAUS, Ph.D., Assistant Professor of Biology.

B.S. (1949), College of City of New York; M.S. (1950), Ph.D. (1954), Michigan. At Oregon since 1955.

GORDON H. STROTHER, B.A., Instructor in English.

B.A. (1954), Middlebury. At Oregon since 1959.

JOHN STRUBE, Instructor in Flute.

At Oregon since 1951.

*NORMAN D. SUNDBERG, Ph.D., Associate Professor of Psychology.

B.A. (1947), Nebraska; M.A. (1949), Ph.D. (1952), Minnesota. At Oregon since 1952.

JOHN E. SUTTLE, M.Ed., Assistant Professor of Education.

B.S. (1948), Texas; M.Ed. (1952), Colorado. At Oregon since 1959.

KESTER SVENDSEN, Ph.D., Professor of English; Head of Department.

B.A. (1934), Charleston; M.A. (1935), Ph.D. (1940), North Carolina. At Oregon since 1959.

KENNETH C. SWAN, M.D., Professor of Ophthalmology, Medical School; Chairman of Department.

B.A. (1933), M.D. (1936), Oregon. At Oregon since 1944.

ROY L. SWANK, M.D., Ph.D., Professor of Medicine, Medical School; Head of Division of Neurology.

B.S. (1930), Washington; M.D. (1936), Ph.D. (1935), Northwestern. At Oregon since 1953.

JACK H. SWEARINGEN, M.A., Instructor in English.

B.A. (1947), M.A. (1954), Texas. At Oregon since 1957.

RUSSELL M. SWEET, B.S., Captain, U.S. Army; Assistant Professor of Military Science and Tactics.

B.S. (1951), Texas Agricultural and Mechanical. At Oregon since 1958.

MERRILL G. SWENSON, D.D.S., Professor of Dentistry, Dental School; Head of Department of Prosthetics.

D.D.S. (1914), Minnesota. At Oregon since 1947.

DONALD F. SWINEHART, Ph.D., Associate Professor of Chemistry.

B.S. (1939), Capital; M.S. (1941), Ph.D. (1943), Ohio State. At Oregon since 1946.

JAMES N. TATTERSALL, M.A., Instructor in Economics.

B.A. (1954), M.A. (1956), Washington. At Oregon since 1957.

NORMAN E. TAYLOR, Ph.D., Assistant Professor of Marketing; Director, Forest Industries Management Center.

A.B. (1941), M.B.A. (1947), California; Ph.D. (1955), Minnesota. At Oregon since 1957.

PATRICIA M. TAYLOR, A.B., Placement Counselor (Instructor).

A.B. (1957), Stanford. At Oregon since 1959.

DIRK P. TEN BRINKE, M.A., Assistant Professor of Education; Head of Science Department, South Eugene High School.

B.S. (1943), M.A. (1953), Minnesota. At Oregon since 1956.

SANFORD S. TEPFER, Ph.D., Assistant Professor of Biology.

B.S. (1938), College of City of New York; M.S. (1939), Cornell; Ph.D. (1950), California. At Oregon since 1955.

PAUL H. TETZNER, B.S., Instructor in Art.

B.S. (1952), Illinois Institute of Technology. At Oregon since 1959.

JANE THACHER, Professor Emeritus of Piano.

At Oregon since 1916.

W. F. GOODWIN THACHER, M.A., Professor Emeritus of English.

A.B. (1900), M.A. (1907), Princeton. At Oregon since 1914.

* On leave of absence 1959-60.

- EDWARD P. THATCHER, M.A., Science Librarian (Senior Instructor).
B.A. (1940), Swarthmore; M.A. (1940), B.S. in L.S. (1952), Minnesota. At Oregon since 1952.
- BRUCE E. THOMAS, M.S., Humanities Librarian (Instructor).
A.B. (1957), M.S. (1958), Syracuse. At Oregon since 1959.
- GRANT R. THOMAS, M.S., Instructor in Marketing.
B.S. (1949), M.S. (1956), Utah. At Oregon since 1959.
- WILLARD L. THOMPSON, Ph.D., Director of Public Services; Associate Professor of Journalism.
B.S. (1937), M.S. (1949), Ph.D. (1958), Illinois. At Oregon since 1952.
- VERNON T. THOMPSON, Ed.D., Assistant Professor of Education.
B.S. (1950), Kansas State College (Pittsburg); Ed.D. (1958), Missouri. At Oregon since 1959.
- HARRIET W. THOMSON, A.B., Professor Emeritus of Physical Education.
A.B. (1904), Michigan. At Oregon since 1911.
- JUN-ICHI TOMIZAWA, Ph.D., Visiting Professor of Molecular Biology.
Ph.D. (1955), Tokyo. At Oregon 1959-60.
- A. DALE TOMLINSON, B.S., Research Assistant, Bureau of Municipal Research and Service (Instructor).
B.S. (1955), Lewis and Clark. At Oregon since 1957.
- DONALD E. TOPE, Ph.D., Professor of Education.
B.A. (1928), Western State College (Colorado); M.A. (1929), Ph.D. (1934), Iowa. At Oregon since 1951.
- DONALD R. TRUAX, Ph.D., Assistant Professor of Mathematics.
B.S. (1951), M.S. (1953), Washington; Ph.D. (1955), Stanford. At Oregon since 1959.
- JOHN E. TUHY, M.D., Associate Clinical Professor of Medicine, Medical School; Head of Division of Chest Diseases.
B.A. (1935), M.D. (1938), Oregon. At Oregon since 1948.
- GEORGE S. TURNBULL, M.A., Professor Emeritus of Journalism.
A.B. (1915), M.A. (1932), Washington. At Oregon since 1917.
- GENEVIEVE G. TURNIPSEED, M.A., Director Emeritus of Dormitories.
A.M. (1922), B.S. (1922), Iowa; M.A. (1930), Columbia. At Oregon since 1930.
- PRESTON H. TUTTLE, M.A., Instructor in Speech.
B.A. (1934), M.A. (1956), Illinois. At Oregon since 1958.
- LEONA E. TYLER, Ph.D., Professor of Psychology; Counselor, University Counseling Center.
B.S. (1925), M.S. (1939), Ph.D. (1941), Minnesota. At Oregon since 1940.
- ROBERT S. VAGNER, M.A., M.Mus., Associate Professor of Music; Director of Bands.
B.A. (1935), M.A. (1938), Colorado State College of Education; M.Mus. (1942), Michigan. At Oregon since 1950.
- NORMAN M. VAN GULICK, Ph.D., Assistant Professor of Chemistry.
B.A. (1948), Colorado; Ph.D. (1954), Southern California. At Oregon since 1956.
- DONALD P. VAN ROSSEN, M.Ed., Instructor in Physical Education; Swimming Coach.
B.S. (1953), M.Ed. (1954), Illinois. At Oregon since 1958.
- FRANCES VAN VOORHIS, M.S., Assistant Professor of Home Economics.
B.S. (1932), Minnesota; M.S. (1949), Iowa State. At Oregon since 1944.
- WILBUR N. VAN ZILE, D.D.S., Professor of Dentistry, Dental School; Head of Department of Oral Surgery.
D.D.S. (1928), California. At Oregon since 1959.

- *ANDREW M. VINCENT, Professor of Art.
Graduate (1929), Chicago Art Institute School. At Oregon since 1929.
- BORIS VODAR, D.Sc., Visiting Professor of Physics.
D.Sc. (1944), Sorbonne. At Oregon 1960.
- HENRY W. VON HOLT, JR., Ph.D., Assistant Professor of Psychology.
B.A. (1949), Reed; M.A. (1952), Oregon; Ph.D. (1954), Clark. At Oregon since 1954.
- REINHOLD E. WAGNER, B.S., Instructor in Science and Education.
B.S. (1941), Black Hills Teachers. At Oregon since 1959.
- MAX WALES, M.A., Associate Professor of Journalism.
B.A. (1933), Washburn; M.A. (1956), Iowa State. At Oregon since 1957.
- ELMAR A. WALTER, Ph.D., Assistant Professor of Geology.
Ph.D. (1951), Karl-Franzens (Graz, Austria). At Oregon since 1959.
- PAULINE E. WALTON, M.A., Assistant Reference Librarian Emeritus.
B.A. (1904), Oregon; M.A. (1906), Northwestern. At Oregon since 1927.
- SCOTT D. WALTON, Ph.D., Associate Professor of Management.
B.S. (1947), Minnesota; M.B.A. (1949), Harvard; Ph.D. (1953), Iowa State. At Oregon since 1957.
- GREGORY H. WANNIER, Ph.D., Visiting Professor of Physics.
Ph.D. (1935), Basil. At Oregon 1959.
- LEWIS E. WARD, JR., Ph.D., Associate Professor of Mathematics.
B.A. (1949), California; M.S. (1951), Ph.D. (1953), Tulane. At Oregon since 1959.
- CHARLES F. WARNATH, Ph.D., Assistant Professor of Psychology; Assistant Dean of Students.
B.A. (1949), Princeton; M.A. (1951), Ph.D. (1954), Columbia. At Oregon since 1957.
- PAUL R. WASHKE, Ph.D., Professor of Physical Education.
A.B. (1927), Western State Teachers (Michigan); A.M. (1929), Michigan; Ph.D. (1943), New York University. At Oregon since 1930.
- DONALD A. WATSON, Ph.D., Assistant Professor of Finance.
B.A. (1947), M.A. (1948), Ph.D. (1951), Iowa. At Oregon since 1956.
- PAUL E. WATSON, D.Ed., Associate Professor of Education.
B.S. (1948), M.S. (1952), Indiana State Teachers; Ed.D. (1958), Columbia. At Oregon since 1958.
- AARON C. WATERS, Ph.D., Visiting Professor of Geology.
B.S. (1926), M.S. (1927), Washington; Ph.D. (1930), Yale. At Oregon since 1959.
- MARSHALL D. WATTLES, Ph.D., Associate Professor of Economics.
B.A. (1938), Southwest Missouri State; M.A. (1941), Missouri; Ph.D. (1950), Ohio State. At Oregon since 1950.
- MARION P. WATTS, B.A., B.S. in L.S., Reference Librarian Emeritus.
B.A. (1921), Oregon; B.S. in L.S. (1934), Illinois. At Oregon since 1921.
- JEAN M. WEAKLAND, M.A., Instructor in Physical Education.
B.S. (1953), Colorado State University; M.A. (1958), Colorado State College. At Oregon since 1959.
- CARL C. WEBB, M.A., Assistant Professor of Journalism.
B.S. (1932), M.A. (1950), Oregon. At Oregon since 1943.
- VINSON M. WEBER, D.D.S., Associate Professor of Dentistry, Dental School; Head of Department of Postgraduate Education.
A.B. (1934), D.D.S., (1946), Ohio; A.M. (1940), Michigan. At Oregon since 1947.
- CHRISTOF A. WEGELIN, Ph.D., Associate Professor of English.
M.A. (1942), North Carolina; Ph.D. (1947), Johns Hopkins. At Oregon since 1952.

* On sabbatical leave 1959-60.

- LESLIE J. WEIGART, M.A., Instructor in Science and Education.
B.S. (1933), Northern State Teachers (Aberdeen, S.D.); M.A. (1938), South Dakota.
At Oregon since 1959.
- ADOLPH WEINZIRL, M.D., Professor of Public Health and Preventive Medicine,
Medical School; Chairman of Department.
B.S. (1922), M.D. (1925), Oregon; C.P.H. (1932), M.P.H. (1939), Johns Hopkins. At
Oregon since 1938.
- EGBERT S. WENGERT, Ph.D., Professor of Political Science; Head of Department.
B.A. (1933), LL.B. (1936), Ph.D. (1936), Wisconsin. At Oregon since 1948.
- EDWARD S. WEST, Ph.D., Professor of Biochemistry, Medical School; Chairman
of Department.
A.B. (1917), Randolph-Bacon; M.S. (1920), Kansas State; Ph.D. (1923), Chicago. At
Oregon since 1934.
- ARNOLD M. WESTLING, B.S., Planning and Public Works Consultant, Bureau of
Municipal Research and Service (Associate Professor).
B.S. (1943), Washington. At Oregon since 1947.
- GOLDA P. WICKHAM, B.S., Associate Dean of Students (Associate Professor).
B.S. (1931), Oregon. At Oregon since 1944.
- MARGARET J. WIESE, M.A., Assistant Professor of Home Economics.
B.S. (1941), Iowa State; M.A. (1945), Iowa. At Oregon since 1947.
- ROGER C. WILEY, M.S., Instructor in Physical Education.
B.S. (1949), M.S. (1954), Oregon. At Oregon since 1958.
- JACK WILKINSON, Associate Professor of Art.
Graduate (1937), California School of Fine Arts. At Oregon since 1941.
- OLIVER M. WILLARD, Ph.D., Associate Professor of English.
B.A. (1927), Stanford; A.M. (1931), Ph.D. (1936), Harvard. At Oregon since 1946.
- RUTH A. WILLARD, Ed.D., Associate Professor of Education.
B.A. (1943), M.A. (1945), Iowa; Ed.D. (1952), California. At Oregon since 1952.
- ASTRID M. WILLIAMS, Ph.D., Assistant Professor of Germanic Languages.
B.A. (1921), M.A. (1932), Oregon; Ph.D. (1934), Marburg. At Oregon since 1935.
- MILDRED H. WILLIAMS, D.Ed., Assistant Professor of Education; Head of Social
Studies Department, South Eugene High School.
B.A. (1925), M.A. (1930), D.Ed. (1954), Oregon. At Oregon since 1930.
- W. MARGARET WILLIAMSON, M.Ed., Assistant Dean of Women (Instructor).
B.S. (1950), M.Ed. (1959), Oregon. At Oregon since 1959.
- DONALD S. WILLIS, Ph.D., Associate Professor of Oriental Languages.
B.A. (1943), Ph.D. (1951), Washington. At Oregon since 1948.
- O. MEREDITH WILSON, Ph.D., President; Professor of History.
A.B. (1934), Brigham Young University; Ph.D. (1943), California. At Oregon 1954-60.
- WYMAN H. WILSON, D.D.S., Professor of Dentistry, Dental School; Head of
Department of Crown and Bridge.
D.D.S. (1937), Minnesota. At Oregon since 1951.
- HARVEY B. WISEMAN, M.Lib., Catalog Librarian (Instructor).
B.A. (1947), M.Lib. (1954), Washington. At Oregon since 1959.
- LIONEL S. WISHNEFF, Ph.D., Assistant Professor of Sociology.
B.S.S. (1950), College of City of New York; M.A. (1953), Ph.D. (1958), Cornell. At
Oregon since 1958.
- RAYMOND G. WOLFE, JR., Ph.D., Assistant Professor of Chemistry.
A.B. (1942), M.A. (1948), Ph.D. (1955), California. At Oregon since 1956.
- *HUGH B. WOOD, Ed.D., Professor of Education.
B.S. (1931), Toledo; M.A. (1935), Colorado; Ed.D. (1937), Columbia. At Oregon since
1939.

* On sabbatical leave 1959-60.

- KENNETH S. WOOD, Ph.D., Professor of Speech; Director, Speech and Hearing Clinic.
B.S. (1935), Oregon State; M.A. (1938), Michigan; Ph.D. (1946), Southern California. At Oregon since 1942.
- MABEL A. WOOD, M.S., Professor of Home Economics; Head of Department.
B.S. (1925), Oregon State; M.S. (1930), Columbia. At Oregon since 1932.
- JANET G. WOODRUFF, M.A., Professor of Physical Education.
B.S. (1926), M.A. (1929), Columbia. At Oregon since 1929.
- WILLIAM C. WOODS, M.M., Assistant Professor of Piano.
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General Information

History of the University

THE UNIVERSITY OF OREGON was established by an act of the Oregon Legislature in 1872, but did not open its doors to students until four years later, in 1876. The founding of the University grew out of a Federal grant, authorized in the Donation Act of September 27, 1850, of two townships of land "to aid in the establishment of a university in the territory of Oregon." The territory then included the entire Oregon Country; it was specified that one of the townships was to be located north of the Columbia.

On July 17, 1854, the grant was changed by an act reserving two townships each for the newly separated Washington and Oregon territories. This grant was confirmed on February 14, 1859, when the Act of Congress admitting Oregon into the Union provided for a grant of seventy-two sections of land for the establishment and support of a state university. The Legislature, by an act of June 3, 1859, committed the people of Oregon to the application of the proceeds from this grant "to the use and support of a state university."

The settlement of Oregon and the accumulation of funds from the sale of these University lands progressed slowly. In 1850 the population of the entire Oregon Country was only 13,294. In 1860 the population of the state was 52,465, and in 1870, 90,993. There were already five denominational colleges in the state in 1860; and the United States census of 1870 reported that there were twenty "classical, professional and technical" institutions ("not public") in Oregon. The creation of a state university was deferred.

However, after a fund of \$31,635 had accumulated from the sale of University lands, the Legislature on October 19, 1872 passed an act "to create, organize and locate the University of the State of Oregon." Eugene was chosen as the site after the Lane County delegation in the Legislature had offered to provide a building and campus worth \$50,000. The Union University Association of Eugene, the organization promoting the institution, was given two years in which to construct this building.

Construction of the building, Deady Hall, began in May 1873. However, the genesis of the University and the economic troubles of 1873 coincided, and it was only after an intense struggle to keep the enterprise alive and a two-year extension of time for completion that the conditions specified in the act creating the University were declared fulfilled. The site and building were accepted by the state on July 28, 1876, and the University opened its first session on October 16, 1876. The first class was graduated in June 1878.

Deady Hall was the nucleus around which other University buildings later arose; Villard Hall, the second campus structure, was built in 1885.

The first University courses were limited almost entirely to classical and literary subjects; the demand for a broader curriculum was, however, gradually met by the addition of scientific and professional instruction. Around the original liberal arts college were organized the professional schools, beginning with the School of Law, established as a night law school in Portland in 1884 (in 1915 the School of Law was moved to Eugene and reorganized as a regular division of the University). The Medical School was established in Portland in 1887. The Graduate School was organized in 1900, the School of Music in 1902, the School of Education in 1910, the School of Architecture and Allied Arts and the School of Business Administration in 1914, the School of Journalism in 1916, and the School

of Health, Physical Education, and Recreation in 1920. The Dental School, located in Portland, became a part of the University in 1945; its previous history as a privately supported institution dates from 1893. The Honors College was established in 1960.

Since its founding, the following men have served the University as president: John Wesley Johnson, 1876-1893; Charles H. Chapman, 1893-1899; Frank Strong, 1899-1902; Prince Lucien Campbell, 1902-1925; Arnold Bennett Hall, 1926-1932; Clarence Valentine Boyer, 1934-1938; Donald Milton Erb, 1938-1943; Orlando John Hollis, acting president, 1944-1945; Harry K. Newburn, 1945-1953; Victor Pierpont Morris, acting president, 1953-1954; O. Meredith Wilson, 1954-1960.

Income

THE STATE LAW creating the Board of Higher Education specified that this body was to "have and exercise control of the use, distribution and disbursement of all funds, appropriations and taxes, now or hereafter in possession, levied and collected, received or appropriated for the use, benefit, support and maintenance of institutions of higher education." Under this act, effective July 1, 1931, the Board administers all funds for all state-supported higher-educational activities, including the University of Oregon, on the basis of a unified budget.

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

Campuses

THE MAIN CAMPUS of the University of Oregon is located in Eugene (population 55,000), 124 miles south of Portland, at the head of the Willamette Valley. Eugene is a progressive city with excellent schools, numerous churches, and strong civic and social organizations. The climate is mild, with moderate winters and cool summers. The average annual rainfall is 38½ inches, with the heaviest rainfall in the winter months, November, December, and January.

The Eugene campus occupies about 187 acres of land in the eastern part of the city. (See map, facing page 4.) The campus is bisected by Thirteenth Avenue. The first University buildings were erected north of Thirteenth, on what is known as the "old campus." Later expansions have been principally to the south and east.

Most of the buildings on the old campus are arranged in a quadrangle: Fenton Hall, Deady Hall, Villard Hall, Lawrence Hall, Allen Hall, and Friendly Hall. Johnson Hall (the Administration Building) is located across Thirteenth Avenue, facing the north quadrangle. South of Johnson Hall is an integrated group of buildings, including Gerlinger Hall (the women's gymnasium) and two dormitories, Hendricks Hall and Susan Campbell Hall.

A new quadrangle being developed to the west includes Commonwealth Hall, north of Thirteenth Avenue, and, to the south, Condon Hall, Chapman Hall, the Museum of Art, and the University Library. The Education Building and the Music Building are located south of this quadrangle.

Until the 1920s the east boundary of the campus was, roughly, University Street. Significant expansion beyond this boundary began with the erection of McArthur Court (the student athletic center) and the John Straub Memorial Building (a men's dormitory), and continued in the 1930s with the erection of the Physical Education Building and the Student Health Service Building. Recent additions in this area are the Science Building, the Anthropology Building,

Emerald Hall (a temporary structure housing administrative and student-counseling offices), the Donald M. Erb Memorial Union, Carson Hall (a women's dormitory), and Earl Hall and Walton Hall (men's dormitories).

Since the end of World War II, extensive temporary housing facilities for students have been erected on or near the campus. These facilities include houses and apartments for married students, east of the main campus; a dormitory for men, south of the Education Building; and row-house apartments, occupying a 30-acre tract about six blocks southwest of the campus.

There are three notable works of sculpture on the campus. "The Pioneer," by Alexander Phimister Proctor, stands on the old campus, facing Johnson Hall; it was given to the University in 1919 by Joseph N. Teal. "The Pioneer Mother," also by Proctor, is located in the women's quadrangle; it was given to the University in 1932 by Vice-President Emeritus Burt Brown Barker, in memory of his mother. "Prometheus" (1958), by Jan Zach, north of the Museum of Art, is the gift of alumnae and student members of Gamma Phi Beta.

The Medical School and the Dental School are located on an 80-acre campus on Marquam Hill in Portland. For further information see the Medical School and Dental School catalogs.

Libraries

CARL W. HINTZ, Ph.D.	Librarian
PERRY D. MORRISON, M.A.	Acting Assistant Librarian; Head Social Science Librarian
EUGENE B. BARNES, Ph.D.	Head Acquisitions Librarian
ELIZABETH FINDLY, A.M.L.S.	Head Reference and Documents Librarian
DON L. HUNTER, B.S.	Head of Audio-Visual Department
CLARICE E. KRIEG, B.S. in L.S., A.M.	Head Catalog Librarian
ROBERT R. MCCOLLOUGH, M.S., M.A.	Head Humanities Librarian
BERNICE RISE, A.B., B.S. in L.S.	Readers' Consultant and Browsing Room Librarian
ALAN W. ROECKER, B.L.S., Ph.M.	Head Science Librarian
EUGENE N. SALMON, B.A., M.A.	Head Circulation Librarian
MARTIN SCHMITT, B.S., B.S. in L.S.	Curator of Special Collections
ELLA CARRICK, B.A.	Senior Catalog Librarian
MARGARET MARKLEY, A.B., B.S. in L.S.	Senior Catalog Librarian
J. E. B. MORRIS, B.A., B.Paed., B.L.S., M.A.	Senior Reference Librarian
IONE PIERRON, B.A., B.A. in Lib.	Senior Social Science Librarian
EMMA G. WRIGHT, A.B., B.S. in L.S.	Senior Acquisitions Librarian
MIRIAM Y. BARNES, B.A. Certif. Lib.	Catalog Librarian
MODENA A. BROWN, B.A., M.S. in L.S.	Social Science Librarian
PHILIP CHIDDELL, B.A., B.D., M.L.	Reference Librarian
EDITH E. COLIGNON, B.S., M.A.	Reference Librarian
JUDITH M. ELLIOT, B.A., M.S. in L.S.	Catalog Librarian
ALFRED HEILPERN, B.A., M.L.	Acquisitions Librarian
JOHN H. HENDRICKSON, B.Mus., M.Mus.	Audio-Visual Librarian
BARBARA E. HOWELL, B.A.	Catalog Librarian
JANE Y. C. HSU, B.A.	Catalog Librarian
EDWARD C. KEMP, A.B., M.L.S.	Acquisitions Librarian
ROBERT LINDSAY, B.A., M.A.	Social Science Librarian
MARTHA F. SCHMITT, B.A., B.S.	Catalog Librarian
BETTY MAE STAMM, B.A.	Acquisitions Librarian
EDWARD P. THATCHER, B.S. in L.S., M.A.	Science Librarian
BRUCE E. THOMAS, A.B., A.B., M.S. in L.S.	Humanities Librarian
HARVEY B. WISEMAN, B.A., M.L.	Catalog Librarian
LOIS BAKER, M.A.	Law Librarian
THOMAS H. CAHALAN, B.S., M.S. in L.S.	Dental School Librarian
BERTHA HALLAM, B.A.	Medical School Librarian
FRANCES NEWSOM, B.A., M.A.	Architecture and Allied Arts Librarian

THE SERVICES of the University of Oregon Library are organized in broad subject divisions: Social Science, Science, Humanities, and General Reference and Documents. Each of the divisions has its own reading rooms, conveniently integrated with its book collections. All University students have free access to the book stacks. The Library building has a book-shelf capacity of 650,000 volumes and reader facilities for 1,200 persons.

The services of the subject divisions are supplemented by the Audio-Visual Department, which provides facilities for the production, preservation, and use of recordings, slides, films, and similar materials, and by the Special Collections Department, which is responsible for the development and care of collections of Oregon and 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 1, 1959 are shown below:

General Library.....	630,586
Law Library.....	50,946
Gertrude Bass Warner Memorial Library.....	889
Municipal Reference Library.....	18,730
Medical School Library.....	70,361
Dental School Library.....	6,800
Total.....	778,312

Other materials in the University Library include: 57,743 maps; 99,086 photos, pictures, and prints; 9,396 sound recordings; 51,101 slides; 403 film strips; 250 motion-picture films; 85,420 uncataloged pamphlets; and 337,831 manuscripts.

The University's Library facilities for undergraduate work are excellent; and special collections for advanced study and research are being built in the various fields of liberal and professional scholarships. 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 considerable material on English liberalism in its relation to public education; materials on the history of American education in the nineteenth century; a collection of pamphlets on the English corn laws; the Overmeyer Collection of published works on the Civil War; a collection of Balzaciana; unusually extensive and complete files of psychological periodicals; an extensive collection of Oregon and Pacific Northwest 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 Douglass Room, established through a bequest from the late Matthew Hale Douglass, former librarian of the University, contains record collections, collections of music scores, and reference books in the field of music. The room is equipped with phonographs with earphone attachments for individual listening.

The Philip Brooks Memorial Library, the gift of Mrs. Lester Brooks, is a reference collection of standard sets of American and English authors; it is housed in a special room on the third floor of the Library building.

The Adelaid Church Memorial Room, a "browsing room" for recreational reading in the Student Union, is operated as a department of the University Library. Collections maintained in this room include the Pauline Potter Homer

Collection of fine editions, illustrated books, books with fine bindings, and examples of the work of private presses.

The Municipal Reference Library, housed in the office of the Bureau of Municipal Research and Service in Commonwealth Hall, contains books, pamphlets, and other materials dealing with problems of local government.

The Law Library, housed in Fenton Hall, 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 encyclopaedias, etc. Its periodical collection includes files of about 100 legal periodicals. An excellent collection of publications relating to Oregon territorial and state laws includes an extensive file of Oregon Supreme Court briefs.

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 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.

The University Library issues a semiannual periodical, the *CALL NUMBER*, containing articles and notes of a broadly bibliographical nature, with special reference to its own collections.

Service. During the regular sessions the main Library is open on Mondays, Tuesdays, Wednesdays, and Thursdays from 8:00 a.m. to 10:00 p.m.; on Fridays and Saturdays from 8:00 a.m. to 5:00 p.m.; and on Sundays from 2:00 to 9:00 p.m. During vacation periods the Library is open from 9:00 a.m. to 5:00 p.m. 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 University students and staff members, and may be granted to other persons upon application.

Library Fines and Charges. The following regulations govern Library fines and charges:

(1) A fine of 5 cents per day is charged for all overdue books other than reserve books and material circulated by special permission.

(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 for the first hour and 5 cents for each succeeding hour, or fraction thereof, until the book 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) A service charge of 10 cents is added to all fines reported to the Business Office for collection.

(5) Borrowers losing books are charged the replacement cost of the book, plus the amount of fine incurred up to the time the book is reported missing. In addition, a charge of \$1.00 is made to cover the cost of cataloging and processing the replacement copy.

(6) 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 plus the \$1.00 cataloging and processing charge may be made, at the discretion of the librarian. In cases where a replacement has been ordered, any refunds to the borrower are at the discretion of the librarian.

Instruction. Programs of study in library science are offered through the School of Education to prepare students for positions as school librarians and for intermediate professional positions in public libraries. The program for public librarians is offered at the graduate level, and leads to the master's degree.

The School of Education also offers service courses to acquaint students with the resources of the University Library and to aid them in the efficient use of these resources. These courses are taught by members of the Library staff.

Unified Facilities. The library collections at the state institutions of higher education in Oregon have been developed to meet special needs on each campus; but the book stock of the libraries, as property of the state, circulates freely to permit the fullest use of all books. The library facilities of the several institutions are coordinated through a State System director of libraries. The director is also librarian of Oregon State College, Corvallis, where the central offices of the library system are located. An author list of books in the State College Library is maintained in the University Library.

Museums and Collections

MUSEUMS AND COLLECTIONS maintained at the University include the Museum of Art and the Museum of Natural History. Art exhibits are also shown in the gallery on the second floor of the Student Union.

Museum of Art

WALLACE S. BALDINGER, Ph.D.....Director
 JAMES F. COLLEY, B.S.....Curator

The Museum of Art, housing the Murray Warner Collection of Oriental Art and other University art collections, was erected in 1930. The building and the garden court adjoining it, both dedicated to the memory of Prince Lucien Campbell, fourth president of the University, were financed through gifts from the citizens of Oregon.

The Warner Collection was given to the University in 1921 by Mrs. Gertrude Bass Warner as a memorial to her husband, Major Murray Warner, with whom she had been collecting works of Oriental art from the time of their marriage in China in 1904 until his death in 1920. Mrs. Warner continued until her death in 1951 to augment and improve the collection and direct its exhibition. She also established a museum reference library for studies in Oriental art; the collection is now known as the Gertrude Bass Warner Memorial Library.

The Murray Warner Collection includes 3,196 accessioned objects, representing principally the cultures of China and Japan, but including some works of art from Korea, Cambodia, Mongolia, and Russia.

Museum of Natural History

LUTHER S. CRESSMAN, Ph.D.....Director; Curator of Anthropology
 J. ARNOLD SHOTWELL, Ph.D.....Curator
 DAVID L. COLE, M.S.....Assistant Curator
 THEODORE STERN, Ph.D.....Assistant Curator of Ethnology
 RALPH R. HUESTIS, Ph.D.....Curator of Vertebrate Collections
 EWART M. BALDWIN, Ph.D.....Curator of Geology
 LEROY E. DETLING, Ph.D.....Curator of Herbarium

The Museum of Natural History consists of five divisions: Anthropology, Botany, Geology, Paleontology, and Zoology. The staff invites inquiries concerning the collections and the fields of knowledge represented. Qualified persons may have access to study specimens on application to the curators. The Museum of Natural History welcomes gifts to its collection.

Condon Museum of Geology. The Condon Museum of Geology consists of collections of rocks, minerals, and fossils. It grew out of the early collection made by Dr. Thomas Condon. The Condon Museum contains valuable material from the John Day fossil beds in central Oregon and suites of fossiles, both vertebrate and invertebrate, from various regions in the western part of the American continent.

Herbarium. The Herbarium is well supplied with mounted specimens from Oregon and the Pacific Northwest, and has several thousand from eastern states and the Philippines. It includes the Howell Collection of 10,000 specimens, mostly from Oregon; the Leiberg Collection, presented to the University by John B. Leiberg in 1908, consisting of about 15,000 sheets from Oregon, Washington, Idaho, and California; the Cusick Collection of 7,000 specimens; 1,200 sheets from the Philadelphia Academy of Sciences, obtained by exchange; and more than 25,000 sheets collected by the late Louis F. Henderson while curator of the Herbarium. These collections are housed for the most part in regulation steel herbarium cases, the gift of numerous friends in the state. Representative collections of the fossil flora of Oregon are being built.

Oregon State Museum of Anthropology. The anthropological collections of the University were designated by the 1935 Legislature as the Oregon State Museum of Anthropology. The collections consist of skeletal and cultural materials from both archaeological and contemporary sources. Of particular interest are the following gift collections: the Condon Collection of archaeological material, collected in Oregon by Dr. Thomas Condon, consisting of many specimens illustrative of the prehistoric civilization of Oregon and the Northwest; the Ada Bradley Millican Collection of basketry and textiles, containing many specimens from the Pacific Northwest and from the Southwest; the Mrs. Vincent Cook Collection of baskets, mostly from the Pacific Northwest; the Mrs. Annie Knox Collection of baskets from western Oregon; the Phoebe Ellison Smith Memorial Collection of Philippine artifacts; a collection of Philippine war implements given by Mrs. Creed C. Hammond; a large collection of Indian baskets, given to the museum by Miss A. O. Walton of Seattle; the D. P. Thompson Collection of fine Pacific Northwest and California baskets, presented by Mrs. Genevieve Thompson Smith; the Van de Velde Collection of Congolese iron and wood artifacts and musical instruments; the Alice Henson Ernst Collection of North Pacific Coast masks and related objects; and the Governor and Mrs. Isaac Lee Patterson Collection of Indian artifacts, given by Mrs. Lee Patterson.

Museum of Zoology. The University has about 6,600 specimens of vertebrates available for study. The majority of these are study skins of birds and mammals taken in various parts of Oregon and prepared by members of the Department of Biology. This collection has, in the past, been considerably enriched by contributions of individual specimens and private collections. Among the notable contributions are a collection of mounted birds and mammals presented by Dr. A. G. Prill, a collection of Oregon reptiles made by J. R. Wetherbee, and a collection of fishes made by J. R. Bretherton. In 1945 the University purchased Dr. Prill's complete collection, adding to the museum approximately 1,600 bird skins, about 2,000 sets of eggs, and many nests. Most of the skins are of Oregon birds, and provide excellent material for the study of variation and adaptation. Some of the birds represented are now rare visitants in Oregon, and in some cases the only specimens reported.

The museum also has a collection of fresh- and salt-water invertebrates of the state of Oregon. A small part of the collection, mainly Echinoderms and Molluscs, has been identified; but most of the specimens are as yet uncataloged.

Official Publications

THE 1932 LEGISLATIVE ACT placing all the Oregon state institutions of higher education under the control of one Board provided that all public announcements pertaining to the several institutions "shall emanate from and bear the name of the Department of Higher Education and shall be conducted in such a way

as to present to the citizens of the state and prospective students a fair and impartial view of the higher educational facilities provided by the state and the prospects for useful employment in the various fields for which those facilities afford preparation." Official publications of the University of Oregon include:

University of Oregon Bulletin. The UNIVERSITY OF OREGON BULLETIN is published nine times a year by the State Board of Higher Education. Included in the BULLETIN are the official catalogs of the University and its several divisions.

University of Oregon Monographs. Research studies published by the University appear as a series known as UNIVERSITY OF OREGON MONOGRAPHS.

Comparative Literature. COMPARATIVE LITERATURE, a quarterly journal, is published by the University of Oregon in cooperation with the Comparative Literature Section of the Modern Language Association of America.

Oregon Law Review. The OREGON LAW REVIEW is published quarterly under the editorship of the faculty of the School of Law as a service to the members of the Oregon bar and as a stimulus to legal research and productive scholarship on the part of students.

Oregon Business Review. The OREGON BUSINESS REVIEW is published monthly by the Bureau of Business Research. Its primary purpose is to report and interpret current business and economic conditions in Oregon and the Pacific Northwest.

Call Number. The CALL NUMBER is published semiannually by the University of Oregon Library. It contains articles and notes of a broadly bibliographical nature, with special reference to the Library's own collections.

Physical-Education Microcards. The University issues, through the School of Health, Physical Education, and Recreation, several microcard-publications series in the fields of health, physical education, recreation, and related subjects. The series include dissertations, theses, and other unpublished research materials, and out-of-print scholarly books and periodicals.

Municipal Research Bulletins. The publications of the Bureau of Municipal Research and Service, intended primarily as a service to city officials in the state of Oregon, are issued in four series, INFORMATION BULLETINS, LEGAL BULLETINS, FINANCE BULLETINS, and SPECIAL BULLETINS, published for the most part in mimeographed form.

Academic Regulations

Admission

TO BE ADMITTED to the University of Oregon a student must be of good moral character and must present evidence of acceptable preparation for work at the college level. Every person wishing to earn credit in the regular sessions of the University must file with the Director of Admissions: (1) an application on an official University form; (2) official transcripts of all high-school and college records.

Application and transcripts of records should be filed several weeks before the applicant intends to enter the University; late filing may delay or prevent registration. If a student fails to submit the required documents in complete and satisfactory form, his admission and registration may be canceled. All records submitted become the property of the University.

Students planning to enter the University in the fall term should file their applications for admission with the Director of Admissions not later than August 31. A late-filing fee of \$10.00 is charged if applications are filed later than this date.

Admission to Freshman Standing

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

Resident Students. Students who are residents of Oregon, to be eligible for admission, must: (1) have a C average in all high-school subjects taken for graduation; *or* (2) pass a standard college aptitude test with a score within the upper 60 per cent; *or* (3) achieve a minimum grade-point average of 2.00 (C average) on a full load of study (at least 9 term hours) in a regular collegiate summer session, including a course in English composition and two or more courses from the fields of literature, social science, or science.

Nonresident Students. Only those nonresident high-school graduates for whom the University can predict reasonably certain success in higher education are admitted to freshman standing. Determination of eligibility is based both on high-school records and on standard tests of college aptitude. A nonresident student is normally ineligible for admission if he has less than a minimum 2.50 cumulative GPA on his high-school record; but a student ineligible under this regulation may qualify for admission by submitting a satisfactory score on the College Entrance Examination Board's Scholastic Aptitude Test or an equivalent measure of college aptitude approved by the Director of Admissions.

A nonresident student who is unable to meet the regular requirements for admission to freshman standing may be able to qualify for admission as a transfer student on the basis of successful college level work in a summer session (see Admission of Transfer Students, page 61).

Credentials. An Oregon resident applying for admission to freshman standing must submit records of all school work taken beyond the eighth grade, certified by the proper school official on the official form used by his high school for this purpose. A nonresident student must submit, in addition to certified high-school records: (1) his rank in his high-school graduating class, certified by the

school principal; *and* (2) certified results of the College Entrance Examination Board's Scholastic Aptitude Test* (other measures of college aptitude may be accepted only when approved in advance by the Director of Admissions).

The Office of Admissions will, on request, determine tentatively the eligibility of an application for admission prior to the completion of his last semester of high-school work on the basis of partial records. Before formal admission is granted, however, the applicant must file complete high-school records.

Advanced Placement Program. Students who have completed college-level studies in high school under the Advanced Placement Program sponsored by the College Entrance Examination Board, and who have received satisfactory grades in examinations administered by the Board, may be granted credit toward a bachelor's degree in comparable University courses on admission to freshman standing. For further information, see HONORS COLLEGE.

Admission of Transfer Students

Transfer students are persons admitted to the University of Oregon after having been registered in any other institution of collegiate grade or in a department or center of extension work, including the General Extension Division of the Oregon State System of Higher Education.

Since the University of Oregon requires its students to maintain a scholastic average of C (grade-point average 2.00) for "satisfactory" status in the University and for graduation, it also requires that students transferring to the University with regular standing from other collegiate institutions present records of at least C-average scholastic work and evidence of honorable dismissal. Transfer students who present fewer than 12 term hours of collegiate credit must also meet the requirements for freshman standing.

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 fully accredited institutions are evaluated before admission is granted.

No advanced standing is granted at entrance for work done in nonaccredited collegiate institutions. However, after three terms of satisfactory work in the University, an undergraduate student transferring from a nonaccredited institution may petition for credit in University of Oregon courses which are the equivalent of courses taken at the nonaccredited institution; validating examinations may be required. Petitions for such credit may be based only on regularly organized college-level courses.

Transfer students are required to file complete official records of all school work beyond the eighth grade. College records must be certified by the registrar of the institution providing the record. If the student's high-school record is adequately shown on his college transcript, he need not obtain another record direct from his high school.

Admission of Special Students

Students qualified by maturity and ability to do satisfactory University work, but who fail in some respect to meet the requirements for regular standing, may apply for admission as special students. Requirements for special-student admission include a rating of 5 or above on the Ohio Psychological Examination or the College Entrance Examination Board Scholastic Aptitude Test,* and the joint approval of the Director of Admissions and the dean of the college or school in which the applicant wishes to study.

* Information concerning scheduled examination dates and examination centers may be obtained from the College Entrance Examination Board, Princeton, N.J., or 4640 Hollywood Blvd., Los Angeles 27, Cal.

A special student should qualify for regular standing as soon as possible, by satisfactory University work and by the removal of any entrance deficiencies; if his grades when admitted were below a C average, he must raise his cumulative average to that level before being granted regular standing. A student may not continue for more than 45 term hours of University work under special-student classification without explicit permission (which is seldom granted). A special student may earn credits toward a degree; to qualify for a degree, however, he must complete at least 45 term hours of work after he has been granted regular standing. (In case a regular student changes to special status, work done while a special student will not apply toward a degree.)

Admission to Graduate Standing

The University recognizes two classes of graduate students: (1) students enrolled for postbaccalaureate studies without intent to earn a graduate degree; and (2) students enrolled in the Graduate School for work toward a graduate degree. An applicant for admission to graduate standing, for either postbaccalaureate studies or for work toward a graduate degree, must file with the Director of Admissions a complete official transcript of his college record, including any graduate work taken at another institution. The graduate admission requirements are as follows:

Admission for Postbaccalaureate Studies. Graduation from an accredited college or university. Such admission carries no commitment that any credit earned under postbaccalaureate status may later be applied toward a graduate degree.

Admission for Work toward a Graduate Degree. Graduation from an accredited college or university with a record showing ability to maintain satisfactory scholastic progress in graduate studies. A cumulative undergraduate grade-point average of 2.50 is the minimum normally acceptable. A student with a lower undergraduate GPA or with a record of graduate work below University standards at another institution may be admitted only if supplementary information, such as a graduate aptitude score, provides evidence of ability; all applications for exceptions to the general rule are reviewed by the Graduate Admissions Committee.

In certain fields, there are additional requirements for admission to study toward a graduate degree. The applicant should check the Catalog statement on graduate work of the department or school in which he plans to study.

Students with degrees from nonaccredited institutions may be admitted to the University as special students, and may be granted graduate standing after the successful completion of one term of full-time graduate work.

Provisional graduate standing is occasionally granted, as a temporary classification, pending the submission of complete official records, if the applicant files evidence that he has a bachelor's degree and will be able to qualify for regular graduate standing.

Entrance Examinations

TO PROVIDE THE FACULTY with a basis for reliable advice and assistance to students in the planning of their programs, the University requires entering undergraduate students to take placement examinations. These examinations are considered to some extent a measure of ability to do University work. Freshmen with low ratings on the English placement examination are required to take Corrective English (Wr 50).

A physical examination is also required of entering students, undergraduate and graduate. The physical examination is given by a physician chosen by the

student, who provides an examination report to the University Student Health Service. The physical examination is a safeguard both to the student and to the institution. For the student, it may result in the discovery and correction of defects which, if allowed to continue, might seriously impair his health; for the institution, it may result in the prevention of epidemics which might develop from undiagnosed cases of contagious disease.

Degrees

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 he plans to receive a degree. The University grants the following degrees:

- Honors College—B.A. (Honors College).
- Liberal Arts—B.A., B.S., M.A., M.S., Ph.D.
- Architecture and Allied Arts—B.A., B.S., B.Arch., B.I.Arch., B.L.A., M.A., M.S., M.Arch., M.F.A., M.L.A.
- Business Administration—B.A., B.S., B.B.A., M.A., M.S., M.B.A., D.B.A.
- Dentistry—M.S., D.M.D.
- Health, Physical Education, and Recreation—B.A., B.S., B.P.E., M.A., M.S., Ph.D.
- Health and Physical Education—B.A., B.S., B.P.E., M.A., M.S., Ph.D.
- Journalism—B.A., B.S., M.A., M.S.
- Law—B.A., B.S., LL.B., J.D.
- Medicine—M.A., M.S., Ph.D., M.D.
- Music—B.A., B.S., B.Mus., M.A., M.S., M.Mus.
- Nursing Education—B.A., B.S., M.S.

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

Requirements for Bachelor's Degree

Requirements for a bachelor's degree include (a) lower-division requirements (which the student is expected to satisfy during his freshman and sophomore years) and (b) general requirements which must be satisfied before the degree is conferred.

Lower-Division Requirements. The lower-division requirements for a bachelor's degree are as follows:

- (1) Written English:
 - (a) For freshmen who receive low rating on a placement examination given to all entering students: Corrective English (Wr 50).
 - (b) For all students: English Composition (Wr 111, 112, 113), 9 term 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 unless excused.*

* 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 and from the 6-term military-science requirement; to qualify for exemption, such students must file official documentary evidence of their service.

- (3) Health education : HE 150 or HE 250 for men ; HE 250 for women.
- (4) Military science : 6 terms for men, unless excused.*
- (5) Group requirement : four sequences in liberal arts courses numbered from 100 to 110 or 200 to 210, including one sequence in each of three groups (arts and letters, social science, science) and a second sequence in any one of the three groups. (The sequences satisfying this requirement are listed on page 66).
 - (a) Each of the group sequences must total at least 9 term hours; each sequence in science must include laboratory work or total 12 term hours.
 - (b) At least one of the sequences must be numbered from 200 to 210.
 - (c) At least one sequence in the arts and letters group must be a sequence in literature.
 - (d) If two sequences are taken in the social science group or in the science group to satisfy the requirement, they must be in different departments.
- (6) Grade-point average on completion of 93 hours of work : minimum, 2.00.

General Requirements. The general requirements for a bachelor's degree are as follows :

- (1) Total credit :
 - (a) For B.A., B.S., B.B.A., B.Ed., B.P.E., or B.Mus. degree : minimum, 186 term hours.
 - (b) For B.Arch., B.I.Arch., or B.L.A. degree : minimum, 220 term hours.
 - (c) For LL.B., degree : minimum, 263 term hours.
- (2) Work in upper-division courses : minimum, 62 term hours.
- (3) Work in the major :
 - (a) Minimum : 36 term hours, including at least 24 hours in upper-division courses.
 - (b) For majors in the College of Liberal Arts : two sequences numbered from 100 to 110, 200 to 210, or 300 to 310, in addition to the four sequences completed in satisfaction of the lower-division group requirement. Of the total of six sequences, two must be chosen from each of the three groups (arts and letters, social science, science) ; the two sequences in science and the two sequences in social science must be in different departments.
 - (c) Any additional requirements of the major school or department (satisfaction must be certified by the dean or department head).
- (4) Work in residence : minimum, 45 term hours of the last 60 presented for the degree.†
- (5) For the B.A. degree, work in language and literature : 36 term hours,‡

* See page 63, note (*).

† A maximum of 33 term hours of work completed in the extension centers of the Oregon State System of Higher Education may be counted toward the satisfaction of this requirement. After June 1961 only work completed on the Eugene campus of the University or at the Medical School or Dental School in Portland may be counted for the satisfaction of the requirement.

‡ For the purpose of determining distribution of hours for the B.A. or B.S. degree, the instructional fields of the College of Liberal Arts are classified as follows :

Language and Literature : General Arts and Letters, English, Foreign Languages, Speech.

Social Science : General Social Science, Anthropology, Economics, Geography, Home Economics, History, Philosophy, Political Science, Psychology, Religion, Sociology.

Science : General Science, Biology, Chemistry, Geology, Mathematics, Nursing Education, Physics.

- including attainment of proficiency in a foreign language equivalent to that attained at the end of two years of college study of the language.*
- (6) For the B.S. degree, work in science or in social science: 36 term hours.†
- (7) Restrictions:
- (a) Correspondence study: maximum, 60 term hours.
 - (b) Law, medicine, dentistry: maximum, 48 term hours toward any degree other than a professional degree.
 - (c) Applied music: maximum for all students except music majors, 12 term hours; maximum for music majors toward the B.A. or B.S. degree, 24 term hours—of which not more than 12 hours may be taken in the student's freshman and sophomore years.
 - (d) No-grade courses: minimum of 150 term hours in grade courses. See page 70.
- (8) Grade-point average, covering all college work: minimum, 2.00.

Advanced Degrees

The requirements for graduate degrees are listed under GRADUATE SCHOOL. 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 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. This should be done several months in advance of the expected commencement date. All University academic and financial obligations must be satisfied before any degree will be conferred.

Group Requirement

ALL CANDIDATES for a bachelor's degree are required to complete four lower-division sequences in the liberal arts numbered from 100 to 110 or from 200 to 210, including one sequence from each of three groups (arts and letters, social science, science) and a second sequence in any one of the three groups. The courses approved for the satisfaction of this requirement are listed below. For additional regulations governing the lower-division group requirement, see page 64.

All candidates for a bachelor's degree with a major in any field in the College of Liberal Arts are required to complete two additional sequences chosen from the courses numbered from 100 to 110 or 200 to 210 or from a series of courses numbered from 300 to 310; of the total of six sequences, two must be chosen from each of the three groups. For a list of courses numbered 300 to 310, see COLLEGE OF LIBERAL ARTS.

* The language requirement for the B.A. degree may be met in any one of the following ways: (1) two years (normally 24 term 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 Department of Foreign Languages, showing language competence equivalent to that attained at the end of two years of college study. The requirement may not be met by examination after the completion of a student's junior year.

† See page 64, note (‡).

Arts and Letters Group**General Arts and Letters**

Lit. (Soph. Honors) (AL 101, 102, 103)

Art

*Survey of Visual Arts (AA 201, 202, 203)

English

†Survey of Eng. Lit. (Eng 101, 102, 103)

‡Apprec. of Lit. (Eng 104, 105, 106)

‡World Literature (Eng 107, 108, 109)

Shakespeare (Eng 201, 202, 203)

Foreign Languages

*2nd Yr. Greek (CL 101, 102, 103)

*2nd Yr. Latin (CL 104, 105, 106)

Latin Lit.: Aug. Age (CL 204, 205, 206)

Foreign Languages (continued)

*2nd Yr. German (GL 101, 102, 103)

*2nd Yr. Norwegian (GL 104, 105, 106)

*2nd Yr. Swedish (GL 107, 108, 109)

Survey of German Lit. (GL 201, 202, 203)

*2nd Yr. French (RL 101, 102, 103)

*2nd Yr. Italian (RL 104, 105, 106)

*2nd Yr. Spanish (RL 107, 108, 109)

Survey of French Lit. (RL 201, 202, 203)

Survey of Spanish Lit. (RL 207, 208, 209)

*2nd Yr. Russian (SL 101, 102, 103)

Readings in Russian Lit. (SL 201, 202, 203)

Music

*Intro. to Music (Mus 201, 202, 203)

Social Science Group**General Social Science**

Soc. & Sc. Soc. Policy (SSc 104, 105, 106)

History (Soph. Honors) (SSc 107, 108, 109)

Study of Society (Soph. Honors) (SSc 201, 202, 203)

Anthropology

Gen. Anthropology (Anth 101, 102, 103)

Intro. to Cult. Anth. (Anth 207, 208, 209)

Economics

Principles of Econ. (Ec 201, 202, 203)

Geography

Intro. Geography (Geog 105, 106, 107)

World Econ. Geog. (Geog 201, 202, 203)

History

Hist. of West. Civ. (Hst 101, 102, 103)

Hist. of U. S. (Hst 201, 202, 203)

English History (Hst 207, 208, 209)

Philosophy

Problems of Philosophy (Phl 201)

Elementary Ethics (Phl 202)

Elementary Logic (Phl 203)

Elementary Aesthetics (Phl 204)

Political Science

American Govts. (PS 201, 202, 203)

International Relations (PS 205)

Psychology

General Psychology (Psy 201, 202)

Psych. of Adjustment (Psy 204)

Applied Psychology (Psy 205)

Religion

Great Religions (R 201, 202, 203)

Sociology

Gen. Sociology (Soc 204, 205, 206)

Science Group**General Science**

Physical-Sc. Survey (GS 104, 105, 106)

Bio. Sc. (Soph. Hon.) (GS 201, 202, 203)

Phys. Sc. (Soph. Hon.) (GS 204, 205, 206)

Biology

Gen. Biology (Bi 101, 102, 103)

Chemistry

Elementary Chemistry (Ch 101, 102, 103)

‡Gen. Chemistry (Ch 201, 202, 203)

‡Gen. Chem. Lab. (Ch 204, 205, 206)

Geology

Gen. Geology (Geol 101, 102, 103)

Mathematics

Essentials of Math. (Mth 101, 102, 103)

Intro. College Math. (Mth 105, 106, 107)

Mathematics (continued)

Math. of Finance (Mth 108)

Diff. & Int. Calculus (Mth 201, 202, 203)

Analytic Geometry & Calculus (Mth 204, 205, 206)

Physics

Essentials of Physics (Ph 101, 102, 103)

Des. Astronomy: Solar System (Ph 104)

Elementary Meteorology (Ph 105)

Des. Astronomy: Stellar System (Ph 106)

General Physics (Ph 201, 202, 203)

Psychology

§Gen. Psychology (Psy 201, 202)

§Psych. of Adjustment (Psy 204)

§Applied Psychology (Psy 205)

§Gen. Psych. Lab. (Psy 208, 209, 210)

* A sequence marked with an asterisk (*) does not qualify as a sequence in "literature"; it may, however, be offered as a second sequence in the arts and letters group.

† A student may register for only one of the three sequences: Eng 101, 102, 103; Eng 104, 105, 106; Eng 107, 108, 109.

‡ Ch 204, 205, 206 must be taken with Ch 201, 202, 203 to satisfy the science group requirement.

§ Psy 208, 209, 210 must be taken with Psy 201, 202, 204 or Psy 201, 202, 205 to satisfy the science group requirement.

Honors

THE UNIVERSITY OF OREGON offers special programs of study as a challenge to students of super scholastic ability, and official recognition for students completing regular degree programs with outstanding scholastic records.

Honors College. The University of Oregon Honors College, providing a four-year program of study leading to the degree of Bachelor of Arts (Honors College), will open in the fall of 1960. Through the Honors College, features of the sophomore honors and upper-division honors programs described below will be combined in an integrated program for students of superior ability. For further information, see page 99.

Sophomore Honors. The sophomore honors program is designed to provide a solid general education within the framework of the lower-division group requirement. To receive the sophomore honors award, the student must pass with distinction four separate comprehensive examinations, one each in the fields of literature, social science, and history, and one in either biological science or physical science. Candidates may prepare for these examinations by independent study, through a series of courses especially designed for the sophomore honors program, or through standard departmental courses in the several fields.

Sophomore honors, as a two-year terminal program, will be discontinued on the completion of individual student programs begun prior to the fall of 1960. Eligible lower-division students who wish to begin honors work in the fall of 1960 will enroll in the Honors College.

Upper-Division Honors. For superior students the University offers, under the supervision of the Honors Council, an upper-division honors program leading to the degrees of Bachelor of Arts with Honors and Bachelor of Science with Honors. Among the aims of the honors program are encouragement of independent study, scholarship and the attainment of a broad understanding within a field of study, wide reading, and original or creative work; the programs developed in the several departments and schools differ in approach in accordance with the different requirements for sound educational progression in the several fields.

The College of Liberal Arts will discontinue participation in the upper-division honors program in the fall of 1962, when the first Honors College class enters its junior year. Thereafter all honors instruction for liberal arts students will be offered through the Honors College. The upper-division honors program will, however, be maintained for students in the professional schools.

Two types of honors programs are recognized: (1) General Honors. For general honors, the student's program includes work offered by at least two departments. (2) Departmental Honors. For departmental honors, the field of the student's program need not extend beyond a single department or school.

Eligibility and Enrollment. The minimum requirements for admission to upper-division honors work are: (1) completion of 93 term hours of University work, (2) satisfaction of all lower-division requirements for a bachelor's degree, and (3) a cumulative grade-point average of at least 2.75 (higher requirements may be set by a department or school for its honors students). Other upper-division students may be admitted to honors work, on the recommendation of the head of their major department or school and the approval of the Honors Council. Normally a student begins his honors work in the first term of his junior year. He enrolls with the chairman of the Honors Council when he begins honors work and each term during the period of his program.

Study Programs. The total study program of the honors student includes courses which satisfy University requirements for a degree and special honors

courses. The latter may be selected regular courses or independent studies (Research, Reading and Conference, Thesis), for which not more than 18 term hours of credit may be earned. An honors student is required to maintain a grade-point average of at least 3.00 each term of his honors work.

Examination. Honors studies culminate in an examination, conducted by the department or school supervising the candidate's program, before May 25 of the student's senior year; the examining committee includes one member of the Honors Council. If the student's program includes a thesis or essay, a copy must be presented to the chairman of the Honors Council at least one week before the examination.

Recognition for High Scholarship. Candidates for the bachelor's degree who achieve a cumulative grade-point average of 3.75-4.00 receive the award of "Recognition for Highest Scholarship"; candidates who achieve a cumulative grade-point average of 3.50-3.74 receive the award of "Recognition for High Scholarship."

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

Academic Procedure

THE REGULAR ACADEMIC YEAR throughout the Oregon State System of Higher Education is divided into three terms of approximately twelve weeks each. The summer session supplements the work of the regular year (see special announcements). 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 (see page 75). A detailed calendar for the current year will be found on pages 8-9.

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

Registration Procedure

All students must register in person at the beginning of each term; registration by mail or by proxy is not permitted. Complete registration instructions are contained in the Schedule of Classes. Students are officially registered and entitled to attend classes for credit only when they have completed the prescribed procedures, including the payment of term fees.

Students planning to return to the campus after absence of a term or more or after earning a degree should notify the Registrar's Office at least a week before registration, in order to allow time for the preparation of registration materials.

All regular students are required to file official transcripts of any academic work taken at other institutions since their first enrollment in the University.

Academic Advising

Each undergraduate student is assigned a faculty adviser, who assists him in planning his study program. Students should consult their advisers whenever they need help with academic problems. Adviser assignments for freshmen and

sophomores are made from a University-wide group of lower-division advisers. Upper-division advisers are assigned by major schools and departments.

Definitions

A **TERM 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 Schedule of Classes.

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 the 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 following system:

- 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 baccalaureate degree.
- 100-299. Lower-division courses.
 - 100-110, 200-210. Survey or foundation courses which satisfy the lower-division group requirement.
- 300-499. Upper-division courses.
 - 300-310. Upper-division courses which satisfy a special group requirement in the College of Liberal Arts.
 - 400-410. Upper-division courses which may be taken through successive terms under the same number, credit being granted according to the amount of work 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* 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 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.
- 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

The quality of student work is measured by a system of grades and by computed grade-point averages.

Grades. Student work is graded as follows: A, exceptional; B, superior; C, average; D, inferior; F, failed; INC, incomplete; W, withdrawn. Students ordinarily receive one of the four passing grades or F. When the quality of the work

* Only students eligible for honors work may register for 405 Reading and Conference courses.

is satisfactory, but some minor yet essential requirement of the course has not been completed, for reasons acceptable to the instructor, a report of INC 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.

No-Grade Courses. Certain University courses are designated no-grade courses. Students in these courses are rated "pass" or "not pass." To graduate from the University, a student must receive at least 150 term hours of credit in courses for which grades are given.

Grade-Point Average. For purposes of computing a student's grade-point average, the standard measure of scholastic standing, all work graded is assigned a numerical point value, as follows: A, 4 points per term hour; B, 3 points per term hour; C, 2 points per term hour; D, 1 point per term hour; F, 0 points per term hour. The grade-point average (GPA) is the quotient of total points divided by total term hours for which grades are received. Marks of INC, W, F, and NP are disregarded in the computation of the grade-point average.

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 his work is of such character that he cannot continue with profit to himself and with credit to the institution. In general, profitable and creditable work means substantial progress toward meeting graduation requirements. Any term or cumulative grade-point average below 2.00 is considered unsatisfactory, and may bring the student's record under review by the faculty Committee on Scholastic Deficiency.

Fees and Deposits

STUDENTS AT THE UNIVERSITY* and at Oregon State College and Portland State College pay the same fees. In the fee schedule printed below, regular fees are those paid by all students under the usual conditions of undergraduate or graduate study; regular fees are payable in full at the time of registration. Special fees are paid under the special conditions indicated.

The Board of Higher Education reserves the right to make changes in the fee schedule without notice.

Payment of the stipulated fees entitles all students registered 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 Service; use of gymnasium equipment (including gymnasium suits and laundry service); a subscription to the student daily newspaper; admission to athletic events; admission to concert and lecture series sponsored by the University. No reduction in fees is made to students who may not desire to take advantage of some of these privileges.

* Except students at the Medical School and the Dental School. The fee schedules for these students are published in the Medical School, Department of Nursing Education, and Dental School catalogs.

Regular Fees

Undergraduate Students. Undergraduate students who are residents of Oregon pay regular fees each term of the regular academic year, as follows: tuition, \$10.00; laboratory and course fee, \$46.00; incidental fee, \$22.00; building fee, \$12.00. The total in regular fees, which includes all laboratory and other charges in connection with instruction,* is \$90.00 per term.

Undergraduate students who are not residents of Oregon pay the same fees as Oregon residents, and, in addition, a nonresident fee of \$85.00 per term, or a total of \$175.00 per term.

The regular fees for undergraduate students for a term and for a year may be summarized as follows:

	Per Term	Per Year
Tuition.....	\$ 10.00	\$ 30.00
Laboratory and course fee.....	46.00	138.00
Incidental fee.....	22.00	66.00
Building fee.....	12.00	36.00
Total for Oregon residents.....	\$ 90.00	\$270.00
Total for nonresidents (who pay an additional nonresident fee of \$85.00 per term).....	\$175.00	\$525.00

Graduate Students. The regular fees and tuition for graduate students total \$90.00 per term. Students employed as graduate or research assistants or fellows pay fees totaling \$34.00 per term. Graduate students do not pay the nonresident fee.† Graduate students registered for 6 term hours of work or less pay the regular part-time fee. Payment of graduate fees entitles the student to all services maintained by the University for the benefit of students.

Deposits

All persons who enroll for academic credit (except staff members) must make a deposit of \$10.00, payable once each year at the time of first registration. This is required for protection of the University against loss or damage of 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 Service 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 paid by University students under the conditions indicated:

Part-Time Fee.....per term, \$22.00 to \$66.00

Students (undergraduate or graduate) who register for 6 term hours of work or less pay, instead of regular registration fees, a part-time fee in accordance with the following scale: 1-2 term hours, \$22.00; 3 term hours, \$33.00; 4 term hours, \$44.00; 5 term hours, \$55.00; 6 term hours, \$66.00. Students registered for 6 term hours or less do not pay the nonresident fee. Payment of the part-time fee entitles the student to all services maintained by the University for the benefit of students.

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

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

* Except special fees for instruction in applied music. See SCHOOL OF MUSIC.

† Except nonresident students in the School of Law.

Auditor's Fee.....	per term, \$22.00 to \$90.00
An auditor is a person who has obtained permission to attend classes without receiving academic credit; such a person is not considered an enrolled student. Auditors attending classes carrying a total credit of 7 term hours or more pay a fee of \$90.00 a term; auditors attending classes carrying a total load of 6 term hours or less pay fees in accordance with the part-time fee scale (see above).	
Late-Registration Fee.....	per day, \$1.00
Full-time students registering after the scheduled registration dates of any term pay a late-registration fee of \$1.00 per day.	
Change-of-Program Fee.....	\$1.00
A student may be required to pay this fee for each change in his official program after the scheduled last day for adding courses.	
Reinstatement Fee.....	\$2.00
If for any reason a student has his registration canceled during a term for failure to comply with the regulations of the institution, but is later allowed to continue his work, he must pay the reinstatement fee.	
Special Examination Fee.....	per term hour, \$1.00
A student pays a fee of \$1.00 per term hour for the privilege of taking an examination for advanced credit, or other special examinations.	
Graduate Qualifying Examination Fee.....	\$1.00 to \$15.00
Paid by students taking the Graduate Record Examination or other standard tests of ability to do graduate work.	
Transcript Fee.....	\$1.00
For a transcript of his University academic record, a student pays a fee of \$1.00 for the first copy and 50 cents each for additional copies furnished at the same time.	
Late-Application Fee.....	See page 60
Placement Service Fee.....	See page 75
Music Course Fees.....	See SCHOOL OF MUSIC
Library Fines and Charges.....	See page 56

Refunds

Fee Refunds. Students who withdraw from the University and who have complied with the regulations governing withdrawals are entitled to certain refunds of fees paid, depending on the time of withdrawal. The refund schedule has been established by the State Board of Higher Education, and is on file in the University Business Office. All refunds are subject to the following regulations.

(1) Any claim for refund must be made in writing before the close of the term in which the claim originated.

(2) Refunds in all cases are calculated from the date 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 delayed through causes largely beyond the control of the student.

Deposit Refunds. The \$10.00 deposit, less any deductions which may have been made, is refunded about six weeks after the close of the academic year. Students who discontinue their work at the University before the end of the year may receive refunds, upon petition to the Business Office, about six weeks after the close of the fall or winter terms.

Regulations Governing Nonresident Fee

The Oregon State Board of Higher Education has ruled that any person who comes into the state of Oregon for the purpose of attending one of the institu-

tions under the control of the Board, and who for any reason is not qualified for classification as a resident of the state of Oregon, shall pay the nonresident fee, except: (a) a student who holds a degree from an accredited college or university and is registered in a curriculum other than professional dentistry, law, or medicine, (b) a student attending a summer session, (c) a student paying part-time fees, (d) a student whose parent is a regular employee of the Federal government stationed in Oregon, (e) a student who has been a resident of Hawaii or Alaska for two years immediately preceding admission to the University and who continues to be a resident of these states, or (f) a student whose father is domiciled in the state of Oregon as defined under (1) below.

The residence or domicile of a student is normally that of his father; if his father is not living, it is normally that of his mother. In case of parents' divorce, the domicile of a student is generally determined by the residence of the parent to whom custody is granted by the court. The domicile of a wife is normally that of her husband; if both are students, the wife's residence status is determined by that of the husband. The domicile of a student who is independent of the relations mentioned above is determined by rule (1) below. An alien cannot begin to establish residence until he has convincingly demonstrated his intention to apply for citizenship.

The Board has established the following rules to be observed in determining the residence status of students:

(1) Residents and domicile are synonymous and domicile shall be considered to be a fixed permanent residence to which the student has the intention of returning. The fixed permanent residence must normally have been maintained for at least twelve months prior to the school term for which residence classification is sought,* and must be a bona fide residence which the student has no intention of changing when the school period has expired. Proved actual residence and intention to remain must exist simultaneously. Factors used in determining intent include age and family status of the student, residence of near relatives, place of voting, ownership of property, sources of financial support, length of time within the state, record of employment and schooling (intent cannot be demonstrated by school attendance alone).

(2) A student whose official records show his own or his parent's domicile to be outside of Oregon is prima facie a nonresident, and the burden is upon the student to prove the contrary. If his official transcripts of academic record show attendance at a school outside of Oregon, he may be required to furnish further proof of Oregon domicile.

(3) A nonresident at the time of enrollment is held to that classification throughout his attendance as a student, except where he can prove that his or his parent's previous domicile has been abandoned and a new one established in Oregon in accordance with these regulations. A resident student will be reclassified as nonresident at any time if his Oregon domicile is lost.

* This twelve-month period must include at least six consecutive months during which the student was not enrolled for full-time work in a collegiate educational institution.

Student Life and Welfare

Office of Student Affairs

DONALD M. DUSHANE, M.A.	Dean of Students
J. SPENCER CARLSON, M.A.	Associate Dean of Students (Counseling Center)
CLIFFORD L. CONSTANCE, M.A.	Registrar
EUGENE W. DILS, Ed.D.	Associate Dean of Students (Placement Service)
KENNETH S. GHENT, Ph.D.	Associate Dean of Students (Scholarships, International Students)
RAY HAWK, D.Ed.	Associate Dean of Students (Dean of Men)
KARL W. ONTHANK, M.A.	Counselor, University Mothers and Dads
GOLDA P. WICKHAM, B.S.	Associate Dean of Students (Dean of Women)
JOHN E. LALLAS, Ed.D.	Counselor, Counseling Center
LEONA E. TYLER, Ph.D.	Counselor, Counseling Center
HENRY M. VON HOLT, JR., Ph.D.	Counselor, Counseling Center
WALTER R. HILL, JR., Ph.D.	Director of Reading Clinic
KENNETH S. WOOD, Ph.D.	Director of Speech and Hearing Clinic
VERNON L. BARKHURST, M.A.	Assistant Dean of Students (Admissions)
WALTER FREAUFF, M.A.	Assistant Dean of Students
CHARLES F. WARNATH, Ph.D.	Assistant Dean of Students (Counseling Center)
KENT DORWIN, B.S.	Assistant Dean of Men
LOUIS A. MANGELO, B.A.	Assistant Dean of Men
W. MARGARET WILLIAMSON, M.Ed.	Assistant Dean of Women

AT THE UNIVERSITY OF OREGON, an integrated program of student counseling and supervision of student life and group activities is administered through the Office of Student Affairs. The Dean of Students is assisted by associate deans with special responsibilities for: women's affairs, men's affairs, the University Counseling Center, and graduate placement. The Office of Admissions and the Registrar's Office also operate under the general direction of the Dean of Students.

The dean and his associates maintain close personal contacts with individual students and with student organizations, and are available at all times for advice and help on all matters pertaining to their welfare.

University Counseling Center. The University Counseling Center provides facilities for testing and counseling University students, to help them in making wise choices in their studies and in solving academic and personal problems. A special fee of \$5.00 is charged for the full educational and vocational testing service of the Counseling Center.

Speech and Hearing Clinic. The Speech and Hearing Clinic, operating in conjunction with the Counseling Center, provides diagnosis, consultation, and treatment in connection with speech and hearing problems of University students. Students are referred to the clinic either by the Counseling Center or by faculty advisers.

Reading Clinic. Some students, although they may not clearly recognize their disability, fail to get the most from their University work because of difficulties in reading. Frequently these difficulties are correctable. The Reading Clinic, operating in conjunction with the Counseling Center, provides an opportunity for scientific diagnosis and correction of student reading difficulties.

Corrective Physical Education Clinic. The Corrective Physical Education

Clinic provides individual help to students in connection with training for relaxation, foot and posture difficulties, functional back strain, and similar problems.

International Student Adviser. A member of the staff of the Office of Student Affairs serves as special adviser to students from abroad who are attending the University, to assist them with personal problems and with adjustments to the customs and procedures of American educational systems. The international student adviser is prepared to give advice and help in connection with visas, government regulations, scholarships, employment, and general orientation to American life. He is also prepared to advise American students planning study abroad.

University Placement Service. The University maintains a central Placement Service for the assistance of graduating students and alumni seeking new or better positions. The Placement Service serves students in all schools and departments in the University, including those trained in business and technical fields as well as in education and the liberal arts.

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

New Student Week

NEW STUDENT WEEK, a program of orientation for entering undergraduate students, is held annually the week before classes begin. During this period, new students are made familiar with the aims of higher education, the principles governing the wise use of time and effort, methods of study, and the ideals and traditions of the institution. Every effort is made to assist new students in getting the best possible start in their work. Full directions concerning New Student Week and registration procedure are sent to each student who is accepted for admission.

The examinations and tests given entering students during New Student Week provide the University faculty with a basis for advising and assisting students in planning their University programs. These examinations are scheduled at regular times during the week. Each entering student receives from the Registrar a detailed schedule of his individual appointments for examinations. He should follow this schedule faithfully, in order to avoid delay in registration and possible penalties for make-up appointments.

The University, recognizing that fraternities and sororities form a part of University life and provide living quarters for a substantial part of the student body, has, with the cooperation of these organizations, made provisions by which they may choose their members in an orderly fashion, with a minimum of interference with the beginning of University work.

A "welcome book," the ORE-NTER, is published annually in August and is sent to all new students who have been admitted to the University.

Student Living

COMFORTABLE, healthful, and congenial living conditions contribute much to the success of University life and work. Living conditions of the right kind aid students to do their best in their studies and contribute, through the experiences of group life, to the building of character and personality. Hence the University is vitally concerned with student housing. Halls of residence are main-

tained on the campus by the institution, and the living conditions of students residing outside the dormitories are closely supervised.

Many students live in fraternity houses accommodating groups of from twenty to fifty persons. Admission to these groups is by invitation only. Students also live in private homes and rooming houses near the campus. In several co-operative houses, groups of students enjoy the benefits of group living while keeping expenses at a minimum.

University Dormitories

The University provides dormitory accommodations for 1,976 students. Living conditions are comfortable and conducive to successful academic accomplishment and to participation in the wholesome activities of campus life.

During the academic year 1960-61, because of a shortage of accommodations, graduate students and upper-division students from the Eugene community will not be permitted to live in the dormitories.

Men's Dormitories. The University maintains four men's dormitories: Virgil D. Earl Hall, John Straub Memorial Building, Josuah J. Walton Hall, and the Veterans Memorial Dormitory.

Earl Hall has five units, housing approximately 65 men each: McClure, Morton, Sheldon, Stafford, and Young. Each unit has its own lounge, connecting dining hall, and recreation area. Rooms are equipped with built-in beds, study lamps, chests of drawers, and wardrobes.

Walton Hall has ten units, housing approximately 65 men or women in each: Adams, Clark, De Cou, Douglass, Dymont, Hawthorne, McAlister, Schafer, Smith, and Sweetser. Each unit has its own lounge, connecting dining hall, and recreation area. Rooms are equipped with built-in beds, study lamps, chests of drawers, and wardrobes.

Straub Hall houses 277 men in six units: Alpha, Gamma, Hale Kane, Bar-ri-ster, Omega, and Sherry Ross halls. Each unit has its own club room. Each room is equipped with individual study tables, study chairs, a lounge chair, individual dressers, a steel costumer, study lamps, and individual closet space. Sleeping porches, each accommodating four men, are equipped with single beds.

The Veterans Dormitory houses 425 men in five units: Hunter, French, Nestor, Sederstrom, and Cherney halls. Each unit has a lounge room. Both double and single rooms are available; furnishings include single beds, chests of drawers, study table, clothes closet, occasional chair, and night stand.

Men living in the dormitories must furnish towels, a water glass, an ashtray, and an extra blanket. Men living in the Veterans Dormitory must supply a study lamp.

Women's Dormitories. The University maintains three women's dormitories: Carson Hall, Hendricks Hall, and Susan Campbell Hall. Some units in Walton Hall may be assigned to women.

Carson Hall houses 333 student residents, principally in rooms accommodating two occupants. A few single rooms are available. Much of the furniture—single beds, individual wardrobes, chests of drawers with mirrors, and study desks—is of built-in construction. Snack kitchenettes, bathrooms with tubs and showers, complete laundry facilities, and trunk-storage rooms are provided on each floor.

Hendricks Hall and Susan Campbell Hall house 142 students each, in suites accommodating five women. A suite includes a study room, dressing room, and sleeping porch with individual beds. Each study room is furnished with a study table, book stands, chairs, and a couch. Each dressing room has individual chiffoniers with mirrors and individual closet space. The suites are arranged in units of approximately nine suites each; each floor of each unit has a bathroom equipped

with showers. Complete laundry equipment and trunk-storage space are provided in the basements.

Women residing in the halls must supply their own towels, a water glass, and an extra blanket. Women residing in Hendricks and Susan Campbell must supply a study lamp.

University Dining Halls. The University maintains dining halls for students in the John Straub Memorial Building, Virgil D. Earl Hall, Walton Hall, Hendricks Hall, Carson Hall, and the Erb Memorial Student Union. Students living in dormitories take their meals in assigned dining halls. Men and women dine together in all dining rooms. Students in the dormitories are expected to dress for Wednesday and Sunday dinners.

Room Reservations. Students who plan to live in the dormitories should make room reservations as early as possible before the opening of the school year. Application must be made on an official form, and must be accompanied by a room deposit of \$15.00. Copies of the form may be obtained from the Housing Department, University Business Office.

Dormitory Living Expenses. Board and room rates in the University dormitories are as follows:

	Board Per Month	Room Per Term	
		Multiple Units	Single Rooms
Carson, Straub, Earl, Walton.....	\$54.00	\$80.00	\$120.00
Hendricks, Campbell.....	54.00	65.00	97.50
*Veterans.....	54.00	62.00	80.00

Room rent is payable in two or three installments each term. The first installment is paid when the student arrives at the dormitory at the beginning of the term, the remainder on fixed dates later in the term. Board bills must be paid monthly in advance.

Students who do not pay board and room charges within ten days after payment is due are assessed a late-penalty fee of \$1.00 for the first day (after ten) and \$1.00 for each additional day until a maximum charge of \$5.00 is reached. If dormitory charges are not paid within ten days after they are due, the student's registration may be canceled.

The right is reserved to increase the charge for room or board, should advance in costs require it. The charges will be decreased whenever decreased costs make this possible.

Dormitory Deposit Refund. The \$15.00 dormitory room deposit is refunded about six weeks after termination of occupancy. If dormitory reservations are canceled, the deposit will be refunded only if the cancellation is made two weeks before the opening of the dormitory at the beginning of the term for which reservations have been made.

Fraternities and Sororities

Fraternities and sororities provide comfortable living accommodations under University supervision. Members are chosen during stated rushing periods. Board and room costs are approximately the same as for students living in University dormitories.

In the summer, after formal notice of admission has been received, new students who are interested in fraternity or sorority membership should write to the Office of Student Affairs for full information, instructions, and a copy of rushing rules.

* Open to all men students; restriction of occupancy to veterans has been discontinued.

Fraternities on the Oregon campus are organized into the Interfraternity Council, which is a member of the National Interfraternity Conference. Sororities are organized into the Panhellenic Council, which is a member of the National Panhellenic Congress.

Sororities at the University are: Alpha Chi Omega, Alpha Delta Phi, Alpha Gamma Delta, Alpha Omicron Pi, Alpha Phi, Alpha Xi Delta, Chi Omega, Delta Delta Delta, Delta Gamma, Delta Zeta, Gamma Phi Beta, Kappa Alpha Theta, Kappa Kappa Gamma, Pi Beta Phi, Sigma Kappa, Zeta Tau Alpha.

Fraternities at the University are: Alpha Tau Omega, Beta Theta Pi, Chi Psi, Delta Tau Delta, Delta Upsilon, Kappa Sigma, Lambda Chi Alpha, Phi Delta Theta, Phi Gamma Delta, Phi Kappa Psi, Phi Kappa Sigma, Phi Sigma Kappa, Pi Kappa Alpha, Pi Kappa Phi, Sigma Alpha Epsilon, Sigma Alpha Mu, Sigma Chi, Sigma Nu, Sigma Phi Epsilon, Tau Kappa Epsilon, Theta Chi.

Cooperative Houses

Students with urgent financial problems, excellent character, and superior scholarship may apply for membership in cooperative houses, where, by sharing housekeeping responsibilities, they are able to save about \$15.00 a month on board and room costs. There are three cooperative houses for women, Highland, Rebec, and University; and three for men, Campbell Club, Canard Club, and Philadelphia House. Applications for membership must be made through the Office of Student Affairs; applications are subject to approval by the undergraduate membership of the house.

Although, under general University housing regulations, freshman students are required to live in the dormitories, permission to live in cooperative houses will be granted to freshmen if, for financial reasons, they would otherwise be unable to enter the University.

Ann Judson House, maintained by the Baptist Church but with membership open to young women of all religions, is operated as an independent dormitory, under University supervision. Applications for membership should be addressed to the Dean of Women.

Off-Campus Housing

Office of Student Affairs maintains a file of rooms and apartments available for rent. Students eligible to live off-campus are advised to engage quarters personally after inspection and a conference with the householder.

Housing for Married Students

Housing for married students is provided in 425 family-dwelling units owned or operated by the University. The units include a wide variety of accommodations. The rents range from \$38.00 to \$75.00 per month. Application should be made to the Housing Department, University Business Office.

Housing Regulations

(1) Freshmen students are required to live in University dormitories (see, however, under COOPERATIVE HOUSES, above).

(2) Undergraduate women students are required to live either in the dormitories or in houses maintained by organized University living groups (sororities, cooperatives).

(3) Married students and students living with relatives in the Eugene community are excepted from rules (1) and (2); other exceptions are rare, and are made only for students working for room and board, or for whom rooms are not available in campus quarters.

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

(5) All students living in dormitories must take their meals in the dormitory dining rooms.

(6) All dormitory housing is taken on a year basis; all other campus housing (fraternity, sorority, and cooperative) is taken on a term basis; students may not move during a term without special permission from the Dean of Men or the Dean of Women.

Student Expenses

The average expenses incurred by students at the University during an academic year are shown in the table below. Some students with ample means spend more; but many students find it possible to attend the University at a much lower cost. Board and room estimates are based on charges in the halls of residence. The incidental item will vary greatly with the individual. The expenses of the fall term are listed also, since there are expenses during this term not incurred during the winter and spring terms.

	Fall Term	Academic Year
Institutional fees (for Oregon residents).....	\$ 90.00	\$ 270.00
Books, supplies, etc.....	30.00	75.00
Board and room.....	232.00	665.00
Incidentals	50.00	150.00
Total	\$402.00	\$1,160.00

It should be remembered that, in making an estimate of the cost of a year at the University, a student usually has in mind the amount he will spend from the time he leaves home until he returns at the close of the year. Such an estimate would include travel, clothing, and amusements—items which vary according to the thrift, discrimination, and habits of the individual. These items are not included in the table.

Student Health Service

FRED N. MILLER, M.D.....	Director of Health Service
MARIAN H. MILLER, M.D.....	Assistant Physician
RUSSELL M. BLEMKER, M.D.....	Assistant Physician
WILFORD A. BROOKSBY, M.D.....	Assistant Physician
LEOTA B. BOYINGTON, R.N.....	Superintendent of Nurses
GERTRUDE SMITH, R.N.....	Hospital Supervisor
VERA ANDERSON.....	X-Ray and Laboratory Technician
RUTH SHREVE.....	X-Ray and Laboratory Technician
EDITH C. OWENS, R.N.....	Nurse
ERMA UPSHAW, R.N.....	Nurse
EDNA D. EKLOF, R.N.....	Nurse
MARIAN McLAUGHLIN, R.N.....	Nurse
CALOMA A. DODGE, R.N.....	Nurse
IRENE YANAGHARA, R.N.....	Nurse
MARY WILEY, R.N.....	Nurse

THROUGH THE STUDENT HEALTH SERVICE the University does all in its power to safeguard the health of its students. The Health Service accom-

plishes its ends through health education, complete medical examinations for the detection of remedial defects, constant vigilance against incipient disease, medical treatment of acute diseases, and the maintenance of hygienic student living conditions.

The student health services in the institutions in the Oregon State System of Higher Education are supported by student registration fees. Every student registered for credit may receive general medical attention and advice at the Student Health Service during office hours. Limited hospital facilities are maintained for students whose condition requires hospitalization for general medical attention. Patients are admitted only upon the advice of the Health Service physician. Fifteen days is the maximum period of hospital service during any one academic year. When a special nurse is necessary, the expenses must be borne by the student. All expenses of, or connected with, surgical operations or specialized service must be borne by the student. Under no circumstances will the Health Service pay or be responsible for bills from private physicians or private hospitals. The privileges of the Health Service are not available to members of the faculty.

On the first floor of the Student Health Service building are modern clinical facilities, including examining room, physiotherapy department, minor surgery, laboratory, and X-ray department. On the second floor are two-bed and four-bed wards for hospital service. Limited emergency (night and holiday) service is also available on this floor.

Vaccination. Under a ruling of the State Board of Higher Education, students are required, as a condition of admission to any of the institutions of the State System, to satisfy the institutional physician of immunity to smallpox (by evidence of having had the disease or of successful vaccination). Exception is made, however, for students who decline vaccination because of religious convictions. Such students may be admitted, but only on the condition that they or (in the case of minor dependent students) their parents or guardians agree in writing to assume all expenses incident to their care or quarantine, should they fall ill of smallpox while students at the institution.

Physical Examination. Before admission, each entering student is required to have a physical examination by a physician of his choice, and to present a record of this examination on a form provided by the University; this examination is supplemented by a tuberculin test or chest X-ray, taken at the University before registration. The purpose of the physical examination is twofold, the benefit of the individual and the protection of the group. In making the physical examination compulsory in all the institutions of the State System, the Board of Higher Education has been motivated principally by the second consideration.

Financial Aid

FOR STUDENTS who need financial aid, the University provides assistance in finding part-time and summer employment, loans from special funds provided by private donors, and scholarships and fellowships supported both by state funds and by private endowment. Federal and state educational aid is available for veterans of the Korean conflict; under certain conditions, children of deceased veterans of the two world wars and the Korean conflict may qualify for Federal educational grants.

Student Employment

Many students earn a large part of their University expenses by work in the summers and during the academic year; some students are entirely self-supporting.

The University assists those seeking part-time and vacation jobs through the Student Employment Service. Students wishing part-time jobs on the campus or in the Eugene community are advised to write to the Employment Service a few weeks before the opening of the fall term; in most cases, however, definite commitments for employment are made only after personal interviews with prospective employers.

Loan Funds

The University of Oregon administers student loan funds totaling approximately \$359,000. These funds are available for two types of loans: regular loans for a period of six months to two years, and emergency loans of small amounts for a period of ninety days or less.

The loan funds held in trust by the University are governed by uniform principles and policies, administered by a Student Loan Committee. Applications for loans are made through the Office of Student Affairs. The following regulations govern student loans:

(1) Any student may borrow from the University loan funds who has been enrolled in the University for at least one term and has a cumulative GPA of at least 2.00.

(2) The service charge for emergency loans of \$10.00 or less is 50 cents for one month, 75 cents for two months, and \$1.00 for three months. The service charge for emergency loans of more than \$10.00 is \$1.00 for one month, \$1.25 for two months, and \$1.50 for three months. The service charge for all overdue emergency loans is 50 cents a month until paid in full.

(3) The interest rate for long time loans is 4 per cent per year.

(4) No more than \$600 will be lent to any individual from University loan funds.

(5) It is the policy of the University to encourage repayment of loans as soon as the borrower is able to pay. The maximum loan period is two years, with the privilege of renewal if the borrower has in every way proved himself worthy of this consideration. Payment of loans in monthly installments as soon as possible after graduation is encouraged. The interest on renewed loans is 4 per cent a year if the borrower is still a student at the University; the rate of interest on renewals made after the student leaves the University is 6 per cent.

(6) The University does not accept various forms of collateral which most money lenders require for the security of loans. The only security accepted for long-time loans is the signature of two responsible property owners, in addition to that of the student borrower. The cosigners must submit evidence of their ability to pay the note—by filing a financial statement or by giving bank references. One cosigner must qualify by bank reference. It is desirable that one of the cosigners be the parent or guardian of the borrower. If a student is married, his or her spouse must sign the loan application.

(7) The signature of the borrower is the only security required for an emergency loan.

(8) In considering applications, the members of the Student Loan Committee gives weight to the following considerations: (a) the student's scholastic record; (b) his reputation for reliability, honesty, and industry; (c) need for aid and probability of wise expenditure; (d) amount of present indebtedness; (e) ability to repay; (f) effort which the student has made to assist himself.

(9) Except in the case of a few funds which are specifically restricted to University students at Eugene, students at the Medical School and the Dental School are eligible for loans from University student loan funds on the same basis as students on the campus at Eugene.

The first University loan fund was founded in 1901 through the generosity of William M. Ladd of Portland. Other early contributors were A. S. Roberts of The Dalles and the Class of 1904. Although for a number of years the total amount of the fund was only a little over \$500, its benefits were large. Through it many students were enabled to complete their University work who otherwise could not have done so. In 1909 Senator R. A. Booth of Eugene became interested in the loan fund and through his efforts a number of others made substantial donations. Among these early donors were: Theodore B. Wilcox and J. C. Ainsworth of Portland, John Kelly of Eugene, W. B. Ayer of Portland, the classes of 1911 and 1913, Mrs. Ellen Condon McCornack, Ben Selling of Portland, and the estate of the late D. P. Thompson of Portland. In recent years the University student loan funds have grown very rapidly through gifts, bequests, and accumulated interest.

Loans are also available to University of Oregon students and students in other institutions from funds administered through agencies outside the University. Information concerning these funds may be obtained in the Office of Student Affairs.

Special University loan funds administered under conditions differing from those stated above include the following:

American Bankers' Association Loan Scholarship. The American Bankers' Association awards annually a \$250 loan scholarship to a senior student in business administration. The award is made by a faculty committee of the School of Business Administration.

Jackson Journalism Loan Fund. 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.

National Defense Loan Fund. Under the National Defense Education Act of 1958 funds have been provided for national defense loans for students at the University. The act allows a maximum loan of \$1,000 per year for a maximum of \$5,000 to a student. Special consideration is given, first, to superior students who plan to enter primary or secondary teaching in public schools and, second, to students who plan to enter the fields of science, mathematics, and modern foreign languages. For students who enter the teaching profession on the primary or secondary level, one-tenth of the total indebtedness will be forgiven for each full year of teaching for a maximum of 50 per cent of the loan. Further information may be obtained in the Office of Student Affairs.

Mary Spiller Scholarship Loan Fund. The Mary Spiller Scholarship Loan Fund of \$5,000 was established by the State Association of University of Oregon Women in honor of Mrs. Mary P. Spiller, the first woman member of the faculty. The income from the fund is available for scholarship loans.

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. The scholarships and fellowships listed below have a value at least sufficient to cover the cost of tuition and laboratory and course fees at the University, and are open to competition by all students or by specified groups of students. A number of partial scholarships and special funds for the assistance of needy students are also available; information concerning these funds may be obtained from the Office of Student Affairs.

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.

Application for any scholarship administered by the University of Oregon may be made on a form furnished by the Oregon State System of Higher Education; copies of the form may be obtained from high-school principals. Applications should be addressed to Dr. Kenneth S. Ghent, chairman of the Committee on Scholarships and Financial Aid, and should be filed not later than March 1.

Fellowships and scholarships offered to students at the University of Oregon Medical School are listed in the Medical School Catalog.

State Scholarships. A limited number of state scholarships are awarded annually to students in the institutions of the Oregon State System of Higher Education. These scholarships cover tuition and the laboratory and course fee (a total of \$56 a term or \$168 a year for a student attending the University). Recipients of

state scholarships must, however, pay the incidental fee, the building fee, and special fees. At least fifty per cent of these scholarships are awarded to entering freshmen. To be eligible, an entering student must rank in the upper third of his high-school graduating class. Students who have previously attended an institution of higher learning must have a grade-point average of 2.50 (computed according to the grade-point system in use by the Oregon state institutions of higher education). All applicants, to be eligible, must be in need of financial assistance.

Legislative District and County Scholarships. The Oregon State Scholarship Commission awards scholarships to residents of each county and each legislative district of the state for undergraduate study at institutions of the Oregon State System of Higher Education. The scholarships cover tuition and the laboratory and course fee (\$56.00 a term or \$168 a year at the University). One new county scholarship is awarded annually in each county of the state; the annual number of new district scholarships in each legislative district is equal to the number of legislative seats in the district. The county and district scholarships may be renewed if the student continues to make satisfactory progress toward a bachelor's degree, for a maximum of four scholarship years.

State Scholarships for Foreign Students. A limited number of state scholarships are awarded annually to students from foreign countries attending the institutions of the Oregon State System of Higher Education. These scholarships cover tuition, the nonresident fee, and the laboratory and course fee (a total of \$141 a term or \$423 a year at the University). Supplementary scholarship grants are often made by fraternities, sororities, dormitories, service clubs, and individual donors to assist foreign students with board and room and other expenses.

University Assistantships and Fellowships. Graduate and research assistantships and fellowships are awarded annually by the University to qualified graduate students. For stipends and application procedure, see GRADUATE SCHOOL.

Alumni Scholarships. Three or more scholarships, supported through gifts from alumni of the University, are awarded annually to entering freshman students. The awards range between \$100 and \$300.

Associated Women Students Scholarships. The Associated Women Students of the University award scholarships ranging in value from \$75 to \$250 to women students. Funds for the support of the scholarships are from funds raised through the service projects of Kwama, Phi Theta Upsilon, and the Associated Women Students.

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.

Bend Alumni Scholarship. Several \$200 scholarships are awarded annually to freshman students who are graduates of Bend High School. The scholarships are supported by alumni and friends of the University residing in Bend, Oregon.

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, and interest in public service as a career.

Burleson Accounting Scholarship. A \$100 scholarship is awarded annually to an outstanding graduate of McMinnville, Oregon, High School for major work

in accounting in the School of Business Administration. The award is made by James B. Bureson of Dallas, Texas.

Jimmy Bureson, Jr. Scholarship. A \$100 scholarship is awarded annually to a junior student who is specializing in accounting and who is enrolled in the R.O.T.C. Advanced Course. The scholarship is supported by James B. Bureson of Dallas, Texas, and is named in honor of his son.

Coed Housing Alumnae Scholarships. One or more fee scholarships, supported by Portland alumnae of the women's cooperative houses, are awarded annually to freshman women students who live in cooperative houses.

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.

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

Coop 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.

Crown Zellerbach Scholarship. Two \$500 scholarships are awarded annually by the Crown Zellerbach Foundation to an upper-division student 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.

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 are awarded annually by the Delta Delta Delta sorority to University women students; a \$150 scholarship to provide financial assistance to a student during her junior year; and a \$250 scholarship to assist a student during her senior year. 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.

Maud Densmore Music Fellowship. A \$1,500 fellowship is awarded annually to a graduate student in music. The fellowship is supported by Harvey B. Densmore, Class of '03, as a memorial to his sister, the late Miss Maud Densmore.

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

Judy Ellefson Speech Scholarship. A \$100 scholarship is awarded annually to an upper-division student whose primary interest is in the field of speech and drama. The scholarship is named in memory of the late Miss Judy Ellefson, Class of '55, and is supported by her family and friends.

Ernest Ellis Scholarships. Two \$100 scholarships are awarded annually to freshman students from funds provided by Ernest Ellis of Eugene, Oregon.

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. Award is made on the basis of scholarship, need, character, and professional aptitude for work in property and casualty insurance.

Eugene-Lane County Insurance Agents Scholarship. A \$250 scholarship is awarded annually to a business-administration major specializing in the field of insurance, who plans to make his career in property and casualty insurance. Funds for the scholarship are provided by the Eugene-Lane County Association of Insurance Agents.

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.

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 high school. The award, which is made on the basis of vocal activity, character, and financial need, may be divided between two applicants.

Lorienne Conlee Fowler Law Scholarship. The Lorienne Conlee Fowler Scholarship is awarded, on the basis of need and scholastic record, to a woman student entering 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.

William Frager-Skull and Dagger Scholarship. A \$150 scholarship is offered jointly by Samuel Frager of Albany, Oregon and Skull and Dagger, sophomore service organization, to a University man for financial assistance during his junior year. The scholarship is a memorial to William Frager, Class of '39, who died in service in World War II.

Gamma Delta Scholarships. Three \$100 scholarships are awarded annually to active members of the Alpha Beta (Eugene) chapter of Gamma Delta, an international association of Lutheran college and university students of the Lutheran Synodical Conference. Awards are based on scholastic record, participation in the activities of the church, and need. Funds for the support of the scholarships are provided by Dr. Albert J. Brauer of Florence, Oregon.

General Motors Scholarship. The General Motors Corporation awards one scholarship each year to a University of Oregon freshman of outstanding merit. 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.

Jennie Beattie Harris Scholarship. A scholarship of approximately \$150 is awarded annually to a full-time woman student, on the basis of scholastic record, character, good citizenship, and financial need. The scholarship is supported by income from the Jennie Beattie Harris Loan Fund established by the State Association of University of Oregon Women.

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.

Holmes Scholarship. A \$250 scholarship, supported by 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.

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 efforts to solve his own financial problems, to second- and third-year 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, a member of the faculty of the School of Law since 1928.

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 (\$270), 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 Honorary 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.

Ion Lewis Scholarship in Architecture. This \$2,000 traveling scholarship is awarded, when funds are available, to advanced students in architecture at the University of Oregon. 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.

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.

Mainwaring Memorial Scholarship. The family of the late Bernard Mainwaring, editor and published of the Salem *Capital Journal*, awards annually a \$255 fee scholarship to a student majoring in journalism in the news-editorial or newspaper management field. Scholarship, character, and contribution to the OREGON DAILY EMERALD are the bases for selection.

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.

Fred Meyer Foundation Research Fellowship. A \$1,200 fellowship is awarded annually by the Fred Meyer Foundation to a graduate student in business administration with an interest in the field of retailing. It is expected that the student will engage in productive research related to some phase of retail marketing.

Mu Phi Epsilon Scholarships. These scholarships, covering applied-music fees, are awarded by the members of the Eugene, Oregon alumnae chapter and patronesses of Mu Phi Epsilon to students in the School of Music.

Oregon Dads Scholarships. The Oregon Dads organization awards annually the \$300 Donald M. Erb Memorial Scholarship and ten or more scholarships ranging in value from \$100 to \$250 to freshman students graduating from Oregon high schools. Recipients of the scholarships are chosen on the basis of academic record, financial need, and promise of successful University work. High-school students may apply for Oregon Dads scholarships during their senior year or during the two years following their graduation.

Oregon Mothers Scholarships. The Oregon Mothers organization awards annually four \$500 scholarships and twenty or more fee scholarships to freshman students graduating from Oregon high schools. Recipients of the scholarships are chosen on the basis of academic record, financial need, and promise of successful University work. High-school students may apply for Oregon Mothers scholarships during their senior year or during the two years following their graduation.

Orides Mothers-Janet Smith Scholarships. Two fee scholarships are awarded each year to senior Orides girls. Funds for the scholarships are given by the Orides Mothers Club and friends of the late Miss Janet Smith.

Oregon Scholastic Press Scholarships. Four \$200 scholarships are awarded annually to freshman students intending to major in journalism from funds provided by the Oregon Scholastic Press and friends of the School of Journalism. Recipients are selected chiefly on the basis of high-school scholarship, journalistic interest and ability, and financial need.

Pacific Intermountain Express Company Scholarship. A \$250 scholarship, supported by the Pacific Intermountain Express Company, is awarded annually to a student in business administration who has completed his junior year in the University. The award is made on the basis of scholarship, character, and interest in a career in the transportation industry.

Patterson Memorial Fellowship. A \$1,000 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.

Pendleton East Oregonian Scholarship. The Pendleton *East Oregonian* awards annually a \$255 fee scholarship to a Pendleton student majoring in journalism.

Ellen M. Pennell Scholarships. Several scholarships, covering regular fees, 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.

Phi Beta Scholarships. Several scholarships, covering applied-music fees, 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.

Phi Gamma Delta Scholarship. The Phi Gamma Delta Scholarship, a memorial to Robert C. Jones, is a \$135 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.

Arthur P. Pratt Scholarship. This scholarship, at present approximately \$400, is awarded biennially to a graduating senior of the University of Oregon, as an aid to postgraduate study at the University. In choosing a Pratt 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 John G. Foster of Eugene, Oregon, and is named in honor of Arthur P. Pratt of Los Angeles, California.

Price Waterhouse Scholarship. A \$1,000 scholarship is awarded annually from funds provided by the Price Waterhouse Foundation, to a graduate student in the School of Business Administration who has a major interest in the field of accounting.

Quota International Scholarship. The Eugene, Oregon chapter of Quota International awards a fee scholarship to a junior woman.

Republic Carloading and Distributing Company Scholarship. The Republic Carloading and Distributing Company awards annually a \$700 scholarship to an outstanding junior student majoring in the field of traffic management and transportation in the School of Business Administration. Qualifications include: superior scholastic record, professional aptitude for work in traffic and transportation, good character, and qualities of leadership. The stipend is paid on a term basis, and may be canceled if the student fails to maintain a high scholastic record.

Marjorie Thompson Reynolds Scholarship. A scholarship covering tuition and fees is awarded annually to an upper-division member of a University sorority. The scholarship, supported by Eugene City Panhellenic, is a memorial to the late Mrs. Marjorie Reynolds.

Rockwell Scholarships. Several \$165 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."

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.

Rotary Club Scholarship. Three scholarships covering tuition and fees are awarded annually to freshmen from the Eugene, Oregon area, on the basis of scholarship, character, and need. The scholarships are supported by the Rotary Club of Eugene.

F. G. G. Schmidt Fellowship in German. This \$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 graduate student majoring in German.

Hazel P. Schwering Memorial Scholarship. A \$300 scholarship, named in honor of the late Mrs. Hazel P. Schwering, is awarded annually to an outstanding junior woman. Funds for the scholarship are raised by the Heads of Houses.

Lillian A. Seaton Music Scholarship. A \$150 scholarship is awarded annually to a student majoring in music; the scholarship is supported by Mrs. Lillian A. Stelle of Eugene, Oregon, in memory of her aunt, the late Mrs. Lillian A. Seaton.

Silva Scholarship. A \$300 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. A scholarship of approximately \$100 is 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.

Stafford Scholarships in Chemistry. Two \$500 scholarships are awarded annually to junior or senior majors in chemistry from funds provided by the Crown Zellerbach Foundation. The donor stipulates: (1) that, in the selection of scholars, no discrimination be made on the basis of race, creed, sex, or country of origin; (2) that candidates must be citizens of the United States; (3) that financial need should not be a primary consideration in selection; (4) that scholarships shall not be awarded to students who have previously held scholarships from the Crown Zellerbach Foundation. The awards are named in honor of Orin Fletcher Stafford, member of the faculty of the University Department of Chemistry from 1902 until his death in 1941.

Joseph Kinsman Starr Scholarships. Approximately twenty scholarships, varying from \$300 to \$700 according 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 5,000 or less, and must be descendants of early American pioneers.

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.

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.

Van Waters and Rogers Scholarship. A \$200 scholarship is awarded annually to a junior in business administration by Van Waters and Rogers, Inc. Selection is based on qualities of leadership, scholarship, and interest in the wholesale selling field.

Women's Architectural League Scholarship. A \$250 scholarship, supported by the Women's Architectural League, is awarded annually to a student of architecture, preferably from the Portland, Oregon vicinity.

Women's Physical-Education Scholarship. The Association of Oregon Physical Education Alumnae awards annually a \$100 scholarship to a freshman woman planning to major in physical education.

Zimmerman Scholarship. The Joseph P. and Eva Zimmerman Scholarship, a \$500 award, is given annually to a senior student, and may be renewed for a year of graduate study. The scholarship is supported through a bequest of the late Miss Lois Zimmerman, Class of '28, and is named in memory of her father and mother.

Zonta Scholarship. The Eugene chapter of Zonta International awards a fee to a junior woman student.

Veterans' Aid

Veterans of the Korean conflict may receive Federal educational aid under the provisions of Public Law 550 or 894. Application should be made through a local office of the Veterans Administration. Veterans who are residents of Oregon may receive state educational aid, on application to the Educational Officer, Department of Veterans Affairs, Salem, Oregon.

Children of deceased veterans of World War I, World War II, or the Korean conflict may qualify for Federal educational aid under the provisions of Public Law 634. For eligibility, the parent's death must have been due to a disease or injury incurred or aggravated in active military service. Application should be made through a local office of the Veterans Administration.

Prizes and Awards

DISTINCTION in scholarship is recognized at the University through degrees with honors, through election to the various honor societies, and through prizes and awards. A statement of the requirements for degrees with honors and a list

of honor societies will be found elsewhere in this Catalog. There are also essay and oratorical prizes, and awards for proficiency in special fields and for all-round distinction in student life.

American Jurisprudence Prizes. The Lawyers Cooperative Publishing Company and the Bancroft-Whitney Company award annually separately bound topics from *American Jurisprudence* to those students having the best scholastic records in the several courses in the School of Law covering the topics included in *American Jurisprudence*.

Bancroft-Whitney Prize. The Bancroft-Whitney Company, law publishers, awards annually a legal publication to the senior law student who has maintained the highest grade average throughout his work in the School of Law.

Bender-Moss Prize. The Bender-Moss Company, law publishers, awards annually a set of Wharton's *Criminal Evidence* and of Schweitzer's *Cyclopedia of Trial Practice* to the senior law student who has earned the highest grades in pleading and practice courses during his three years of law study.

Philo Sherman Bennett Prize. This prize of from \$15 to \$50, supported by a bequest from Philo Sherman Bennett of New Haven, Connecticut, is awarded for the best essay on the principles of free government.

Beta Gamma Sigma Award. Each year the name of the sophomore student in business with the highest cumulative grade average is engraved on a plaque placed in the corridor of Commonwealth Hall by Beta Gamma Sigma, honorary business fraternity.

Bureau of National Affairs Prize. The Bureau of National Affairs awards annually a year's subscription to *United States Law Week* to the member of the graduating class of the School of Law who, in the judgment of the faculty, has made the most satisfactory scholastic progress during his final year in the school.

Julia Burgess Poetry Prize. The Julia Burgess Poetry Prize of \$25 is awarded annually for the best original poem submitted by an undergraduate. Information concerning the award may be obtained from the head of the Department of English. The prize is endowed through a bequest from the late Julia Burgess, member of the University faculty from 1907 until her death in 1942.

Nathan Burkan Memorial Prizes. The American Society of Composers, Authors, and Publishers awards a \$150 first prize and a \$50 second prize for the best papers submitted by students in the graduating class of the School of Law on the subject of copyright law.

Carson Hall Mothers Cup. A cup, presented by the Portland, Oregon Mothers Club, is awarded annually to the outstanding girl residing in Carson Hall.

Chi Omega Prize. A prize of \$25 is awarded by Chi Omega sorority to the woman student in the Department of Sociology deemed most worthy on the basis of scholarship, character, and promise.

Comish Award in Marketing. An award of approximately \$30 is presented annually to a junior student in business administration who is specializing in marketing and merchandising. The award is supported through a gift from Dr. Newel H. Comish, professor emeritus of business administration.

DeCou Prize in Mathematics. A prize of \$100 is awarded annually to a junior or senior student for excellence in the field of mathematics. The prize is named in memory of Edgar E. DeCou, a member of the University faculty from 1902 until his death in 1947, and in memory of his son, Edgar J. DeCou.

Delta Phi Alpha Award. A volume of German literature is awarded each year by the University chapter of Delta Phi Alpha, national German honorary society, to the outstanding student in German literature.

Erickson, Eiseman & Co. Awards. Five \$25 awards are made annually to students in accounting, for the purchase of books, periodicals, or other accounting materials. Funds for the awards are provided by Erickson, Eiseman & Co., Portland accounting firm.

Failing-Beekman Prizes. These prizes are awarded annually to members of the senior class who deliver the best original orations at the time of graduation. The first prize of \$100 is the gift of Henry Failing of Portland; the second prize of \$75 is the gift of C. C. Beekman of Jacksonville, Oregon.

Gerlinger Cup. This cup, presented by Mrs. George Gerlinger, former regent of the University, is awarded by a committee of faculty, town, and student women to the best all-round woman of the junior class.

LeJeune W. Griffith Theater Award. A \$25 award is presented annually to the outstanding senior who contributed most during his University career to the collective theater arts: acting, directing, playwriting, designing, and technical theater. The award is supported through gifts from Mrs. LeJeune W. Griffith, Class of '48.

William G. Gurney Memorial Award. The name of the male student in journalism who, in his junior year, shows the greatest promise as a writer is recorded annually on a plaque in the Allen Seminar Room. The award is made jointly by Sigma Delta Chi, national professional journalism fraternity, and Alpha Tau Omega, social fraternity, in honor of William G. Gurney, a journalism student who was killed while on duty in the Air Force Reserve Officers Training Corps in 1953.

Harpham Cup. The Josephine Evans Harpham Silver Cup is awarded annually to the student living organization which is judged to have stimulated among its members the greatest interest in the house-library program; this program is sponsored by the University Library as a means of encouraging more and better reading by students. The cup is the gift of Mrs. Everett H. Harpham and the Harpham family of Eugene, Oregon.

Harpham Prizes in Journalism. Prizes of \$25, \$15, and \$10 are given annually for the best writing by journalism majors on the subjects of international affairs and world peace. Funds for the awards are provided by Mr. and Mrs. Everett H. Harpham of Eugene, Oregon.

Haycox Short-Story Prizes. The Ernest Haycox memorial short-story prizes, \$100 and \$50, are awarded annually for the best original short stories of high literary quality submitted by undergraduate or graduate students. Information concerning this award may be obtained from the head of the Department of English. The prizes are supported through gifts from Mrs. Ernest Haycox in memory of her husband, a graduate of the University in the Class of '23.

Hillsboro Argus Award. The name of the senior woman in journalism having the highest scholastic average for her four years of undergraduate work is engraved each year on a plaque in the Allen Seminar Room. The plaque is a gift from the Hillsboro *Argus*.

Interfraternity Council Scholarship Cups. The Interfraternity Council awards three cups annually; one, presented by John McGregor, University alumnus, to the fraternity whose members earned the highest grade-point average dur-

ing the year; one, presented by Karl W. Onthank, professor emeritus of social science, to the fraternity pledge class earning the highest grade-point average during its freshman year; and one, presented by a group of Sigma Chi alumni, to the fraternity showing the greatest scholastic improvement during the year.

Jewett Prizes. These prizes, amounting to more than \$200, are awarded annually in a series of public-speaking contests. Funds for the prizes were given to the University in memory of the late W. F. Jewett by his wife, Mrs. Mary Jewett.

Koyl Cup. This cup, the gift of Charles W. Koyl, Class of '11, is awarded each year to the man who, in the opinion of a committee of the faculty, is the best all-round man of the junior class.

Lane County Bar Association Prizes. The Lane County Bar Association awards a \$65 first prize, a \$40 second prize, and a \$25 third prize for the best presentations made by law students in an annual case-analysis contest. The case analyses are presented at the regular luncheon meetings of the association during the academic year.

Lawyers Cooperative Prize. The Lawyers Cooperative Publishing Company awards annually a copy of Ballantine's *Law Dictionary* to the law student doing the best work in the course in Legal Bibliography.

Library Day Prizes. The Coop Book Store, the Association of Patrons and Friends of the University of Oregon Library, and other donors award prizes on Library Day each spring for the best personal libraries of University students.

Marion F. McClain Award in Pacific Northwest History. A \$500 award is offered annually for a manuscript, written by a candidate for an advanced degree, which presents a significant contribution to knowledge of some phase of Pacific Northwest history. The award is named in honor of the late Marion F. McClain, Class of '06, who was manager of the University Cooperative Store from 1920 to 1949. The award is supported through gifts from Mr. McClain's widow, Mrs. Mabel E. McClain, and the Cooperative Store.

Oregon Dads Honors for Leadership. In recognition of outstanding leadership in high school, superior qualities of character and scholarship, and unusual promise for leadership in public affairs, the Oregon Dads award annually to selected high-school seniors certificates of Special Honors for Leadership. Recipients in need of financial assistance to continue their education at the University may also be awarded scholarships.

Oregon Dads Honors for Scholarship. The University of Oregon Dads award annually certificates of Special Honors for Scholarship to a limited number of high-school graduates, in recognition of outstanding scholarship records in high school, superior qualities of character and leadership, and unusual promise for success in University studies. All applicants needing financial assistance will be considered for available scholarships.

Oregon State Society of Certified Public Accountants' Prize. This award, consisting of accounting books to the value of \$50, is made each year to the outstanding student in accounting.

Phi Beta Kappa Prize. This prize, consisting of books to the value of \$25, is offered annually by the Alpha of Oregon chapter of Phi Beta Kappa. The award is made, on the basis of scholarship, to a student completing lower-division work. The books are chosen by the student in consultation with a committee of the chapter.

Phi Chi Theta Award. The name of the sophomore woman student in business with the highest cumulative grade-point average is engraved each year on a plaque placed in the corridor of Commonwealth Hall by Phi Chi Theta, national women's business fraternity.

Phi Chi Theta Key. The Phi Chi Theta Key is awarded annually, on the basis of high scholastic standing and student activities, to a woman in the senior class of the School of Business Administration.

Physical-Education Honor Awards. The faculty of the School of Health, Physical Education, and Recreation presents certificates each year in recognition of outstanding qualities of sound scholarship, high idealism, and professional accomplishment in the field of physical education, health education, and recreation.

Pi Delta Phi Award. The University chapter of Pi Delta Phi, national French honorary society, presents book prizes each year to the students who have made the greatest progress in undergraduate courses in French.

George Rebec Prize in Philosophy. A \$100 U. S. savings bond is awarded annually to the undergraduate student who submits the best essay on a philosophical topic. The prize is named in honor of Dr. George Rebec, member of the University faculty from 1912 until his death in 1944.

Sigma Delta Chi Scholarship Award. Recognition for exceptional scholarship is made annually to journalism senior majors by Sigma Delta Chi, professional journalism fraternity.

Sigma Delta Pi Awards. Book prizes are awarded each year by the University Delta chapter of Sigma Pi national Spanish honorary society, to the students in advanced courses in Spanish who make the greatest progress during the year.

Sigma Xi Graduate Research Prize. A prize of \$25 is awarded annually by the Oregon chapter of Sigma Xi to the graduate student, working in one of the fields from which Sigma Xi selects its members, who submits the most outstanding piece of research.

T. Neil Taylor Awards in Journalism. Awards of \$50, \$25, and \$15 are given annually for the three best senior theses presented by majors in journalism. Funds for the awards are provided by T. Neil Taylor of Oakland, California, University journalism graduate in the Class of '31.

Turnbull-Hall Award. Each year the name of the outstanding senior member of the staff on the OREGON DAILY EMERALD is engraved on a plaque which hangs in the EMERALD news room. The plaque was presented in 1931 by George Turnbull and Vinton H. Hall.

Unander Memorial Prize. The Carolyn Benson Unander Memorial Prize of \$25 is awarded annually to a woman major in the social sciences on the completion of her junior year; the award is paid at the time of the recipient's registration as a senior. The prize is financed through gifts from Gamma Phi Beta alumnae.

Vice-Presidential Cups. Two cups, given by Dr. Burt Brown Barker, vice-president emeritus of the University, are awarded annually to the men's and women's living organizations achieving the highest average in scholarship among living groups during the academic year.

John Watson Vogan Spanish Essay Prizes. Prizes are awarded annually to the students presenting the best essays written in the Spanish language. The prizes are supported by an endowment established by Mrs. Grace Dawson Vogan of Portland, as a memorial to her husband, the late John Watson Vogan.

Alicia Woods Poetry Prize. The Alicia Woods Poetry Prize of \$15 is awarded annually for an outstanding original poem submitted by an undergraduate. Information concerning the award may be obtained from the head of the Department of English. The prize is supported from an endowment provided by friends of the late Alicia Woods, M.A., Oregon, 1958.

Erb Memorial Student Union

ALFRED L. ELLINGSON, B.S.....	Director
WILLIAM C. LANDERS, B.S.....	Activities Director
ADELL McMILLAN, B.A.....	Program Director
THOMAS D. FITTMAN, B.S.....	Dietitian
LOUIS E. BELLISIMO.....	Recreation Manager

THE ERB MEMORIAL STUDENT UNION is a building dedicated to making the extracurricular work of students an integral part of their education. It provides group meeting rooms, a lounge area, soda bar, cafeteria, and dining service, an art gallery, a large ballroom, and a Browsing Room, a branch of the University Library. Student activity offices are on the third floor. For recreation there is a "listening room" for classical music, a room for jazz, a piano practice room, an eight-lane bowling alley, pool and billiard tables, and table tennis and shuffleboard facilities. Also housed in the building are the offices of the Alumni Association, a branch of the U. S. Post Office, and a four-chair barber shop.

The Student Union was erected and furnished at a total cost of about \$2,130,000. It was financed solely through gifts from alumni and friends of the University, student building fees, and the sale of bonds to be retired from future building fees.

The building is named in memory of Dr. Donald M. Erb, President of the University from 1938 until his death in 1943.

Extracurricular Activities

THE UNIVERSITY recognizes the value of extracurricular student activities as part of a college education: formation of habits of civic responsibility and leadership through participation in student government and in the activities of student clubs and societies; the broadening of outlook and sympathies through varied human associations; and cultural development through participation in the intellectual and aesthetic life of the campus.

Regulations Governing Activities Participation. The following regulations govern eligibility for participation in student extracurricular activities:

(1) A student who has been suspended or expelled from the University, or who has been disqualified for enrollment because of poor scholarship, is denied all privileges of the institution and of all organizations in any way connected with it; he is not permitted to attend any social gatherings of students, or to reside in any fraternity, sorority, club house, or dormitory.

(2) No student may accept an elective or appointive position in any extracurricular or organization activity until he has obtained a certificate of eligibility from the Office of Student Affairs. A student is automatically removed from any such office when he becomes ineligible for this certificate. For eligibility, a student:

(a) Must be currently enrolled as a regular student in good standing, carrying at least 12 term hours of work (a lighter load is permitted seniors if their graduation will not be delayed).

(b) Must have completed at least 12 term hours of work with a GPA of at least 2.00 during his last previous term in the University. (Incomplete may be counted as part of these 12 hours, but only to establish eligibility during the term immediately following the term for which the Inc was reported.)

(c) Must have a cumulative grade-point average of at least 2.00.

(d) Must have attained upper-division standing if he has been in residence for six terms or the equivalent.

(3) The rules of the National Collegiate Athletic Association govern in questions of athletic eligibility.

Associated Students. The students of the University are organized for self-government into the Associated Students of the University of Oregon. The Senate, composed of thirty members elected from the student body and two faculty members, is the central governing body of the A.S.U.O. Members of the Senate and students appointed by it have places on University committees dealing with all phases of student activities, ranging from the Student Union Board to the Discipline Committee.

The program of the Erb Memorial Student Union is governed by a Student Union Board appointed by the President of the University. The Board has eighteen members, of whom sixteen are voting members. Of the voting members, fourteen are students and two are members of the faculty.

The Associated Women Students, a group within the general student organization, sponsors and supervises activities of women students.

Each entering class forms an organization which retains its identity throughout its four years at the University and after graduation. Class reunions are held regularly by alumni.

Clubs and Societies. A wide variety of student club and societies are active on the University campus; many are chapters of national organizations. Some of these clubs and societies are listed below:

Air Command Squadron (Air Force cadets)	Deseret Club (Mormon)
Alpha Delta Sigma (advertising, men)	Druids (junior men's honorary)
Alpha Kappa Delta (sociology honorary)	East Asian Society
Alpha Lambda Delta (freshman women's honorary)	Eta Mu Phi (merchandising)
Alpha Phi Omega (service honorary, men)	Friends Student Group
Alpine Club (mountain climbing)	Friars (senior men's honorary)
American Institute of Architects	Gamma Alpha Chi (advertising, women)
American Institute of Mining, Metallurgical and Petroleum Engineers	Gamma Delta (Lutheran)
Amphibians (swimming, women)	Hockey Club
Anthropology Club	House Librarians
Arnold Air Society (advanced Air Force cadets)	House Managers Association
Asklepiads (premedics)	Hui-o-kamaaina (students from Hawaii)
Baha'i Group	Insurance Society
Baptist Church College Group (Conservative)	International Relations Club
Baptist Student Union (Southern Convention)	Inter-Varsity Christian Fellowship
Beta Alpha Psi (accounting)	Kappa Rho Omicron (radio)
Beta Gamma Sigma (business honorary)	Korean Students Club
Biology Club	Kwama (sophomore women's honorary)
Centerbury Club (Episcopal)	Law School Student Body Association
Cercle Francais (French)	Lutheran Students Association
Channing Club (Unitarian)	Mortar Board (senior women's honorary)
Chemical Society	Mu Phi Epsilon (music, women)
Chess Club	National Association for the Advancement of Colored People
Chi Delta Phi (literary, women)	National Collegiate Players (drama)
Chinese Students Association	Newman Club (Catholic)
Christian House	Order of the Coif (law honorary)
Christian Science Club	Order of the "O" (varsity athletics, men)
Classics Club	Oregon Education Students Association
Condon Club (geology)	Oregon Recreation Association
Cosmopolitan Club (foreign students)	Orides (independent women)
Dames Club (wives of students)	Outing Club
Delta Nu Alpha (transportation)	Pershing Rifles (Army cadets)
Delta Phi Alpha (German)	Phi Alpha Delta (law, men)
Delta Sigma Rho (forensics honorary)	Phi Beta (music and drama, women)
Delta Theta Phi (law, men)	Phi Beta Kappa (liberal arts honorary)
	Phi Chi Theta (business, men)
	Phi Delta Kappa (education, men)
	Phi Delta Phi (law, men)

Phi Epsilon Kappa (physical-education honorary)	Sigma Xi (science honorary)
Phi Eta Sigma (freshman men's honorary)	Ski Quacks (skiing)
Phi Mu Alpha Sinfonia (music, men)	Skull and Dagger (sophomore men's honorary)
Phi Theta Upsilon (junior women's honorary)	Sociology Club
Physical Education Club (women)	Theta Sigma Phi (journalism, women)
Physics Club	University Film Society
Pi Delta Phi (French)	University Religious Council
Pi Lambda Theta (education, women)	Veteran Student Association
Pi Mu Epsilon (mathematics)	Wesley Foundation (Methodist)
Pi Sigma Alpha (political science)	Westminster Association (Presbyterian)
Plymouth Club (Congregational)	Women's Bowling Club
Propeller Club (foreign trade)	Women's Recreation Association
Psi Chi (psychology)	Women's Rifle Club
Roger Williams Fellowship (Baptist)	Ye Tabard Inn (men's writing)
Scabbard and Blade (advanced Army cadets)	Yeomen (independent men)
Scandinavian Club	Young Democrats
Sigma Delta Chi (journalism, men)	Young Men's Christian Association
Sigma Delta Pi (Spanish)	Young Republicans
Sigma Delta Psi (athletic honorary)	Young Women's Christian Association

Lectures. The regular University curriculum is supplemented by University assemblies at which visiting speakers address the general student body and by frequent public lectures by faculty members and visiting scholars. Special lectures are sponsored by the Assembly and Lectures Committee and by various departments.

Forensics, Dramatics, Radio-TV. Forensics, drama, and radio-television activities are fostered on the campus not only for their value to those participating but also for their intellectual and cultural value for the University community.

The Associated Students, in cooperation with the Department of Speech, sponsors a varied speech-activities program providing opportunity for both men and women to participate in debate, oratory, and extempore speaking and in a state-wide discussion program on current topics.

The University Theater, utilizing the facilities of four producing areas, provides opportunities for artistic expression in all types of theater activity. Occasionally, plays are taken on tour.

Experience in radio broadcasting is provided through participation in the operation of the University's own FM stations, KWAX, and through assistance with programs broadcast directly from the University studios of KOAC, the state-owned stations in Corvallis. Regularly scheduled broadcasts over KOAC-TV, from the University's fully equipped studios, provide an opportunity for student participation in television production.

Art, Music, and Dance. The University gives special encouragement to extracurricular activities in art, music, and the dance. Concerts, recitals, and dance programs, sponsored by the School of Music, the School of Health, Physical Education, and Recreation, and student organizations, play a central part in the cultural life of the University community.

The University Symphony Orchestra, an organization of about seventy student musicians, presents several concerts each year. In addition to its own concert series, the orchestra supports faculty and advanced student soloists, and cooperates with choral organizations in oratorio productions.

The University Chorus includes in its membership more than 400 students, faculty members, and townspeople who are interested in the study and interpretation of great choral literature. The University Singers, a group of 60 voices, presents concerts on the campus and in communities throughout the state.

Membership in the University bands is open to both men and women students from all divisions of the University. The Symphony Band, a select group of student musicians, presents a number of concerts each year on the campus and in communities throughout the state. The Concert Band offers membership to all

students without auditions. The Marching Band, composed of members selected from the Symphony and Concert bands, performs at varsity football games. The Pep Band, a smaller group, performs at basketball games and rallies.

The Concert Dance Group, sponsored by the School of Health, Physical Education, and Recreation, is a student organization, including both men and women, who are interested in the dance as a performing art. This group creates and produces original dances, and prepares workshops, demonstrations, and dance programs for campus and community presentation.

The Associated Students bring artists of international fame to the campus each year for concerts, to which all students have free admission. Free public recitals are also given by members of the faculty of the School of Music and by advanced music students.

Student Publications. University of Oregon student publications, sponsored by the Student Publications Board, are listed below. The official publications of the University are listed on page 59.

THE OREGON DAILY EMERALD is a tabloid-size newspaper, published five days a week during the school year. It is edited, managed, and financed by students. All students are eligible for positions on its staff. Payment of registration fees entitles every student to a subscription to the EMERALD.

THE NORTHWEST REVIEW is a magazine providing an avenue of publication for creative writing, criticism, and comment. The work of Pacific Northwest writers is particularly welcome. Three issues are published each year.

THE OREGANA, the yearbook of the Associated Students, presents a pictorial record of University life. It is edited, managed, and financed by students. All students are eligible for positions on its staff.

THE ORE-NTER, a handbook for new students, is published annually. It includes information concerning the University, advice to new students, and a compilation of institutional traditions, codes, and rules.

THE STUDENT AND FACULTY DIRECTORY is compiled and published about November 1.

Alumni Association

MEMBERSHIP in the University of Oregon Alumni Association is open to all persons who have completed work for credit at the University. An annual meeting of the association is held in March. The Alumni Association publishes a bimonthly magazine, OLD OREGON. In it are recorded the activities of the association, news of the University, and special articles by students, faculty members, and graduates. Offices of the Alumni Association are located in the Erb Memorial Union. The officers and directors of the association are as follows:

Officers

MILTON W. RICE, '27.....	President
JOSEPH McKEOWN, '29.....	Vice-President
JAMES W. FROST, '47.....	Secretary
WILLIS C. WARREN, '30.....	Treasurer

Executive Committee

MILTON W. RICE, '27; JOSEPH McKEOWN, '29; JAMES W. FROST, '47; WILLIS C. WARREN, '30. Members-at-large: A. T. GOODWIN, '47; WILLIAM G. DICK, '38; KENNETH POTTS, '30; RICHARD E. WATSON, '39; GREER F. DREW, '36; C. R. MANERUD, '22; J. CARVEL NELSON, '30; CHARLES T. DUNCAN (faculty representative).

County Directors**Terms Expire June 30, 1960**

L. E. DICK, '40
 R. ROBERT SMITH, '42
 RALF FINSETH, '37
 COLLIS P. MOORE, '25

WALTER S. ACKLEY, '50
 JULES BITTNER, '45
 ROSS E. HEARING, '49
 KEITH WILSON, '35

WALTER V. MCKINNEY, '51
 DON G. LEWIS, '43
 JACK P. STEIWER, '49
 GLEN C. MACY, '45

Terms Expire June 30, 1961

KENNETH ABRAHAM, '38
 BOYD OVERHULSE, '33
 RALPH T. MOORE, '42

RICHARD D. PROEBSTEL, '36
 HERBERT NILL, '52

BILL MCKEVITT, '43
 RALPH CRONISE, '11
 BILL BLACKABY, '15

The University of Oregon Medical School and the University of Oregon Dental School have their own active alumni associations. The Medical School association includes in its membership graduates of the Willamette University department of medicine, which was merged with the Medical School in 1913. The Dental School association includes graduates of the North Pacific College of Oregon, which was incorporated in the University as its Dental School in 1945.

Honors College

ROBERT D. CLARK, Ph.D., Dean of the College of Liberal Arts.

H. T. KOPLIN, Ph.D., Director of the Honors College; Assistant Dean of the College of Liberal Arts.

THE HONORS COLLEGE of the University of Oregon offers a four-year undergraduate program leading to the degree of Bachelor of Arts (Honors College) : the program is planned to provide the best possible liberal education for a community of superior students within the larger University community. The first freshman class will be admitted in the fall of 1960.

The Honors College will combine and integrate features of two existing University programs for superior students—sophomore honors and upper-division honors. Initially, the College will utilize for its lower-division program a series of courses in literature, history, social science, and the natural sciences developed during the past eight years for sophomore honors. The upper-division program will include honors seminars, research projects, honors papers, and independent study, in addition to regular advanced courses.

Between one-third and one-half of the individual student's program will be in special honors work, open only to students enrolled in the Honors College. Plans for the College include the development of flexible arrangements under which students will be encouraged to satisfy general education requirements for the bachelor's degree with courses at a more advanced level than those ordinarily available, arrangements for University credit and advanced placement by examination, and other arrangements to facilitate independent and informal opportunities for study.

Students admitted to the Honors College will be selected from the upper 20 per cent of the freshman class. The lower-division program is open to both liberal arts and preprofessional students. At the upper-division level a student entering a professional school may continue his studies in the Honors College under special arrangements developed by the College and the school.

To qualify for the degree of B.A. (Honors College) the student must satisfy general University requirements for the B.A. degree and the requirements for a major in the College of Liberal Arts or a professional school, in addition to Honors College requirements.

Sophomore Honors. As indicated above, the development of the lower division of the Honors College will be based on sophomore honors; as a two-year terminal program, sophomore honors will be discontinued on the completion of individual student programs begun before the opening of the Honors College.

Sophomore honors are awarded to students who pass with distinction four comprehensive examinations, one each in the fields of literature, social science, and history and the fourth in either biological or physical science. These examinations, which are offered twice each year, in the fall and in the spring, must be taken before the student has completed 93 term hours of University work.

The sophomore honors examinations are open to students in the upper 20 per cent of each entering class, as measured by high-school records and scholastic-aptitude ratings; with the consent of the committee in charge of the program, the examinations are also open to students who have completed 15 or more term hours of work in the University with a cumulative grade-point average of 2.75 or higher.

The student may prepare for the examinations through a series of courses especially planned for the honors program, through regular departmental courses, or by independent study. The special honors courses are listed below. They are open only to students eligible for the sophomore honors examinations.

AL 101, 102, 103. **Literature (Sophomore Honors)**. 3 hours each term.

Intensive study of selected work of Occidental literature.

GS 201, 202, 203. **Biological Science (Sophomore Honors)**. 4 hours each term.

Selected studies of biological principles, with emphasis on methods of observation, comparison, analysis, experiment, and synthesis in biological science.

GS 204, 205, 206. **Physical Science (Sophomore Honors)**. 4 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.

SSc 107, 108, 109. **History (Sophomore Honors)**. 3 hours each term.

Significant events, ideas, and institutions in the development of Western civilization from the Middle Ages to the present.

SSc 201, 202, 203. **The Study of Society (Sophomore Honors)**. 3 hours each term.

A study of some fundamental concepts in the social sciences.

A student who has prepared for any honors examination by independent study, without formal course work, may be granted credit in the corresponding honors course if he receives a passing grade in the examination. No credit is granted, however, for independent study which duplicates the content of a course for which the student has already received credit.

The program is planned within the general framework of the University lower-division group requirement. Candidates for sophomore honors satisfy this requirement through honors courses, regular group courses, or independent study.

A statement of the general scope of each of the sophomore honors examinations, the topics to be covered, and a list of books to be read is available for the guidance of students preparing for the examinations.

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's degree in comparable University courses. The University's participation in this program is supervised by the Honors College.

The fields included in the Advanced Placement Program are: English composition, literature, American history, European history, biology, chemistry, physics, mathematics, French, German, Spanish, and Latin. In the field of mathematics, the University sponsors a special advanced placement program which differs in some respects from the College Board program; students completing this program may also receive credit toward a degree if they receive superior grades in examinations administered by the Department of Mathematics.

College of Liberal Arts

ROBERT D. CLARK, Ph.D., Dean of the College of Liberal Arts.

ROLAND BARTEL, Ph.D., Assistant Dean of the College of Liberal Arts.

H. T. KOPLIN, Ph.D., Director of Honors College; Assistant Dean of the College of Liberal Arts.

BERND CRASEMANN, Ph.D., Special Assistant to the Dean.

THE COLLEGE OF LIBERAL ARTS represents the ancient and continuing effort of men to extend the range of their experience beyond the narrow limits of the time and place in which they find themselves at birth. To achieve and enjoy such a freedom, men must know all they can about themselves and their environment, both physical and social. The liberal arts and sciences are a group of studies designed to assist and direct the exploration of man's nature and his position in the world.

By the help of some of these studies, we are able to compare our own experiences with those of men in other times, places, and circumstances, and thus share in the inherited wisdom and satisfactions of mankind. Through others, we deepen and extend our knowledge of our physical environment. Knowledge—scientific, historical, and literary—is the indispensable condition of the good life of free men.

The instructional departments included in the college are: Anthropology, Biology, Chemistry, Economics, English, Foreign Languages, Geography, Geology, History, Home Economics, Mathematics, Philosophy, Physics, Political Science, Psychology, Religion, Sociology, and Speech. All the departments, except the departments of Home Economics and Religion, offer major curricula leading to baccalaureate and graduate degrees.

The University of Oregon Bureau of Municipal Research and Service is administered as a department of the College of Liberal Arts.

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 intending to major in any of the natural sciences are, however, advised to present at least two units of high-school mathematics and two units of high-school science. Experience has proved that students who lack this preparation are handicapped in University work in science. Students planning to major in chemistry, mathematics, or physics or planning to prepare themselves for entrance to a medical school will find it to their advantage to take intermediate algebra, plane geometry, and trigonometry in high school.

Degree Requirements. For a bachelor's degree with a major in the College of Liberal Arts, a minimum of 186 term hours of University work is required, including:

(1) A minimum of four sequences in liberal arts courses numbered from 100 to 110 or 200 to 210, in satisfaction of the general University lower-division group requirement (for a complete statement of the regulations governing this requirement, see page 64).

(2) In addition, two sequences in liberal arts courses numbered from 100 to 110, 200 to 210, or 300 to 310.* Of the total of six sequences elected for the satisfaction of requirements (1) and (2), two must be chosen from each of the three

* Requirement (2) does not apply to students who are admitted to the University of Oregon Medical School or Dental School from other accredited institutions and who are candidates for a baccalaureate degree from the University of Oregon.

groups, arts and letters, social science, and science; the two sequences in social science and in science must be from different departments.

(3) A minimum of 62 term hours in upper-division courses.

(4) A minimum of 36 term 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 term hours of work distributed in several departments.

A detailed statement of University requirements for the bachelor's degree may be found on pages 59-61. Special requirements of the several major curricula of the college are stated in the departmental sections below. For requirements for advanced degrees, see GRADUATE SCHOOL.

A complete list of sequences approved for the satisfaction of requirement (1) above is printed on page 66. The 300-310 sequences which may be taken for the satisfaction of requirement (2) above are listed below:

Arts and Letters Group

General Arts and Letters

Lit. of Ancient World (AL 304, 305, 306)
Intro. to Chinese & Japanese Lit. (AL 307,
308, 309)

English

Three courses chosen from: Tragedy (Eng 301), Prose Tradition in Eng. Lit. (Eng 302), Epic (Eng 303), Comedy (Eng 304), Satire (Eng 305), Literature of the English Bible (Eng 306, 307)

Philosophy

History of Philosophy (Phl 301, 302, 303)

Speech

Theory & Lit. of Rhetoric (Sp 301, 302, 303)

Social Science Group

Anthropology

Primitive Society (Anth 301, 302, 303)

Geography

Geog. of North America (Geog 301, 302, 303)

Philosophy

Social Philosophy (Phl 304, 305, 306)

Religion

Religions of Mankind (R 301, 302, 303)

Sociology

Principles of Sociology (Soc 307), World Population & Social Structure (Soc 308), American Society (Soc 309)

Science Group

Geology

Geologic Hist. of Life (Geol 301, 302, 303)

Mathematics

Basic Concepts of Math. & Statistics (Mth 301, 302, 303)

Honors College. Through the Honors College, the University offers a four-year program of liberal education for selected superior students, leading to the degree of Bachelor of Arts (Honors College). The Honors College also administers a lower-division sophomore honors program, and supervises the University's participation in the Advanced Placement Program sponsored by the College Entrance Examination Board. See pages 100-101.

Basic Liberal Studies

THE CURRICULUM IN BASIC LIBERAL STUDIES, leading to the Bachelor of Arts degree, is designed to lay a substantial foundation for understanding literature, science, and the history of civilization. It represents a departure from the free-elective system that has prevailed in American colleges and universities for many years. It should be called a restricted elective program, since the greater part of a student's work must be selected from a restricted list of courses. The curriculum is open to any freshman whose scholastic-aptitude test and high-school record rank him in the upper 20 per cent of his class.

The curriculum is administered by a committee, the members of which serve as the official advisers of all students following this program of study. Dr. Robert D. Horn, professor of English, is chairman of this committee.

Freshman and Sophomore Years

During his freshman and sophomore years, in addition to satisfying general University requirements in English composition,* physical education, health education, and military science, the student must complete satisfactorily the foreign-language requirement for the Bachelor of Arts degree. He must also complete five year sequences from the following list of courses in four fundamental fields of study. Any additional courses which the student may need to elect for the attainment of 93 term hours of credit by the end of his sophomore year must be selected from the courses approved for this curriculum.

Mathematics—one of the following sequences:
Essentials of Math. (Mth 101, 102, 103)
Introductory College Math. (Mth 105, 106, 107)

Social Science—History of Western Civilization (Hst 101, 102, 103) or History (Soph. Hon.) (SSc 107, 108, 109) and one of the following sequences:

Gen. Anthropology (Anth 101, 102, 103)
Principles of Econ. (Ec 201, 202, 203)
Intro. Geography (Geog 105, 106, 107)
American Govts. (PS 201, 202, 203)
General Psychology (Psy 201, 202), Applied Psych. (Psy 205) and General Psych. Lab (Psy 208, 209, 210)
General Sociology (Soc 204, 205, 206)
Study of Soc. (Soph. Hon.) (SSc 201, 202, 203)

Literature—one of the following sequences:
Latin Lit.: Aug. Age (CL 204, 205, 206)
Survey of German Lit. (GL 201, 202, 203)
Survey of French Lit. (RL 201, 202, 203)
Survey of Spanish Lit. (RL 207, 208, 209)
Survey of English Lit. (Eng 101, 102, 103)
Appreciation of Lit. (Eng 104, 105, 106)
World Literature (Eng 107, 108, 109)
Literature (Soph. Hon.) (AL 101, 102, 103)
Shakespeare (Eng 201, 202, 203)

Science—one of the following sequences:
General Physics (Ph 201, 202, 203)
General Chemistry (Ch 201, 202, 203), Gen. Chem. Lab. (Ch 204, 205, 206)
General Biology (Bi 101, 102, 103)
Biol. Sc. (Soph. Hon.) (GS 201, 202, 203)
Phys. Sc. (Soph. Hon.) (GS 204, 205, 206)

Junior and Senior Years

During his junior and senior years, the student is required to complete at least eight sequences from the following list of courses or from the courses listed above. At least two sequences must be chosen from the humanities, two from the social sciences, and two from the natural sciences. Not more than three sequences may be chosen from any one department.

Humanities

ART AND ARCHITECTURE

Hist. of Arch. I (AA 337, 338, 339)
Hist. of Painting (AA 346, 347, 348)

CLASSICAL LANGUAGES

First-Year Greek (CL 50, 51, 52)
Second-Year Greek (CL 314, 315, 316)
Greek Tragedy (CL 317, 318, 319)
Latin Lit.: Silver Age (CL 341, 342, 343)

ENGLISH

English Novel (Eng 320, 321, 322)
American Novel (Eng 391, 392, 393)
Romantic Poets (Eng 460, 461, 462)
Later 19th Cent. Poets (Eng 463, 464, 465)
18th Century Lit. (Eng 450, 451, 452)
English Drama (Eng 411, 412, 413)
17th Century Lit. (Eng 440, 441, 442)
Lit. of Renaissance (Eng 430, 431, 432)
19th Century Prose (Eng 470, 471, 472)

ENGLISH (continued)

Any three of the following: Chaucer (Eng 428), Spenser (Eng 434), Milton (Eng 444), Pope (Eng 455)

GERMANIC LANGUAGES

Age of Goethe (GL 411, 412, 413)

MUSIC

History of Music (Mus 360, 361, 362)
Seminar in Music History (Mus 408)

ROMANCE LANGUAGES

17th Cent. French Lit. (RL 411, 412, 413)
Dante & His Times (AL 477, 478, 479)

SPEECH

Classical Oratory (Sp 421), British Oratory (Sp 422), American Oratory (Sp 423)

* Any student registered in this curriculum who demonstrates his ability to write good English will be excused by the head of the Department of English from required work in English composition.

Social Science

ANTHROPOLOGY

Rel. & Magic of Primitives (Anth 444),
Folklore & Mythology of Primitives
(Anth 445), Art Among Primitives
(Anth 446)

ECONOMICS

Economic Theory (Ec 375, 376, 377)
Labor Economics (Ec 325), Organized La-
bor (Ec 326), Labor Legislation (Ec
327)
Hist. of Ec. Thought (Ec 470, 471, 472)

GEOGRAPHY

Climatology (Geog 390), Geomorphology
(Geog 391)
Geog. of North America (Geog 301, 302)
303)

HISTORY

English History (Hst 207, 208, 209)
History of U.S. (Hst 201, 202, 203)
Europe since 1789 (Hst 341, 342, 343)
History of Greece (Hst 411), History of
Rome (Hst 412, 413)
Middle Ages (Hst 421, 422, 423)

HISTORY (continued)

Renaissance (Hst 430, 431), Reformation
(Hst 432)
History of France (Hst 441, 442, 443)

PHILOSOPHY

Symbolic Logic (Phl 461, 462)
Social Philosophy (Phl 304, 305, 306)
History of Philosophy (Phl 301, 302, 303)

POLITICAL SCIENCE

Govts. of Major European Powers (PS 440,
441, 442)
Pol. Theory: Western Trad. (PS 430, 431,
432)

PSYCHOLOGY

Social Psychology (Psy 334, 335)
Developmental Psych. (Psy 460, 461), Ab-
normal Psych. (Psy 450)

RELIGION

Religions of Mankind (R 301, 302, 303)

SOCIOLOGY

Hist. of Social Thought (Soc 450), Develop.
of American Soc. (Soc 451), Contemp.
Soc. (Soc 452)
Criminology & Delinquency (Soc 416, 417)

Science

BIOLOGY

Intro. to Genetics (Bi 442), Human Genet-
ics (Bi 444), Vertebrate Embryology (Bi
326)
Intro. to Bacteriology (Bi 311), Human
Physiology (Bi 312, 313)
Any three terms of the following: Plant
Morphology (Bi 332, 333), Algae (Bi
454), Fungi (Bi 455), Invertebrate Zo-
ology (Bi 461)

CHEMISTRY

Elementary Quantitative Analysis (Ch
320), Quantitative Analysis (Ch 322,
323)
Organic Chemistry (Ch 334, 335, 336)

GEOLOGY

General Geology (Geol 101, 102, 103)
Intro. to Paleontology (Geol 331, 332, 333)

MATHEMATICS

Differential & Int. Calculus (Mth 201, 202,
203)
Linear Algebra & Coordinate Geometry
(Mth 316, 317)
Intro. to Abstract Algebra (Mth 412, 413,
414)
Intro. to Applied Math. (Mth 421, 422,
423)

PHYSICS

Des. Astronomy: Solar System (Ph 104),
Elem. Meteorology (Ph 105), Des. As-
tronomy: Stellar System (Ph 106)
Electricity & Electronics (Ph 431, 432, 433)
Modern Physics (Ph 411, 412, 413)

General Arts and Letters

THE PROGRAM IN GENERAL ARTS AND LETTERS includes (1) a series of courses concerned with broad literary interrelations and with foreign literatures in translation and (2) a major curriculum in general arts and letters leading to the bachelor's degree.

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. The work of the first two years serves as an introduction to the main aspects of Western culture. In the last two years the more intensive study of the history of ideas, of literary movements, and of art forms serves to interpret modern trends in civilization.

The major in general arts and letters leads to the Bachelor of Arts degree. The following courses are required:

Lower Division. (1) Literature (Sophomore Honors) (AL 101, 102, 103), or World Literature (Eng 107, 108, 109), or Survey of English Literature (Eng 101, 102, 103), or Appreciation of Literature (Eng 104, 105, 106), or any sequence in foreign literature which has a prerequisite of two years (or equivalent) of foreign language in college. (2) Shakespeare (Eng 201, 202, 203), or Survey of the Visual Arts (AA 201, 202, 203), or Introduction to Music and Its Literature (Mus 201, 202, 203). (3) At least one year of work in a foreign language beyond the first-year college level. (4) One of the following sequences in history: History of Western Civilization (Hst 101, 102, 103); History (Sophomore Honors) (SSc 107, 108, 109); English History (Hst 207, 208, 209).

Upper Division. (1) Literature of the Ancient World (AL 304, 305, 306). (2) Dante and His Times (AL 477, 478, 479). (3) One of the following sequences in philosophy: History of Philosophy (Phl 301, 302, 303); Philosophy in Literature (Phl 431, 432). (4) History of Literary Criticism (Eng 414, 415, 416) or Aesthetics (Phl 441, 442, 443).

In addition the student must complete four upper-division year sequences, each totaling at least 6 term hours, chosen from the major departments of the College of Liberal Arts; however, any two of the following sequences may be elected for the partial satisfaction of this requirement: History of Music (Mus 360, 361, 362); Seminar in Music History (Mus 408); History of Painting (AA 346, 347, 348).

The student's program of study should form an integrated whole. The electives should support the objectives of this program.

LOWER-DIVISION COURSES

AL 101, 102, 103. **Literature (Sophomore Honors).** 3 hours each term.

Intensive study of selected works of Occidental literature. Open to students eligible for the sophomore honors examinations. Ball, Combella, C. L. Johnson, Langhammer, Moore, Powers, Sherwood, Wegelin.

UPPER-DIVISION COURSES

AL 304, 305, 306. **Literature of the Ancient World.** 3 hours each term.

Fall: Homer and the Greek epic; winter: the fifth century; spring: Latin poetry. Lectures and readings in English. Special attention to influence of Greek and Latin writers on English literature. Combella.

AL 307, 308, 309. **Introduction to Chinese and Japanese Literature.** 3 hours each term.

Fall: Three thousand years of Chinese literature, with study of examples from both classical and modern writing, in English. Winter and spring terms: Japanese literature, including poetry and prose, from its origins to contemporary times, with study of examples in English. Willis.

AL 314, 315, 316. **Introduction to Germanic Literature.** 3 hours each term.

In English. Lectures and assigned readings covering the whole range of German literature.

AL 321, 322, 323. **Classic Myths.** 1 hour each term.

The three major myths of the classical world: Troy, Thebes, and the Golden Fleece. Lectures and readings in English. Combella.

AL 331, 332, 333. **Survey of Russian Literature.** 3 hours each term.

Russian literature from 1825 to 1917, with extensive reading in the works of Gogol, Dostoevsky, and Tolstoy. Bowman.

AL 340, 341, 342. **Russian Culture and Civilization.** 3 hours each term.

Main currents of Russian intellectual, literary, and artistic life. Bowman.

- AL 351, 352, 353. **Scandinavian Literature in Translation.** 3 hours each term.
Outstanding works of Scandinavian literature, studied in translation. Fall: Norwegian; winter: Swedish; spring: Danish. Prerequisite: upper-division standing. Williams.
- AL 407. **Seminar.** (g) Hours to be arranged.
- AL 411, 412, 413. **The Russian Novel.** (g) 3 hours each term.
Fall: Pushkin, Gogol, Goncharov, Turgenev; winter: Dostoevsky; spring: Tolstoy. Knowledge of Russian not required; but Russian majors must do selected readings in the original. Offered alternate years. Bowman.
- AL 421, 422, 423. **Modern Russian Short Story, Poetry, Drama.** (g) 3 hours each term.
Fall: the short story—Gogol, Turgenev, Dostoevsky, Tolstoy, Chekhov, Gorky, Soviet authors; winter: poetry—evolution of Russian poetry from the beginnings into the Soviet period, with selected readings; spring: drama—modern Russian drama from the eighteenth century. Knowledge of Russian not required; but Russian majors must do selected readings in the original. Offered alternate years. Bowman.
- AL 477, 478, 479. **Dante and His Times.** (g) 3 hours each term.
Historical and literary background of the *Divine Comedy*; study of the poem and of Dante's minor works; Petrarch and Boccaccio. Lectures and readings in English. Prerequisite: upper-division course in literature. Beall.

General Science

THE PROGRAM IN GENERAL SCIENCE includes a series of courses of broad interdepartmental scope and a major curriculum in general science leading to the bachelor's degree.

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 science (such as medical research) for whom a departmental science major may be too narrow and highly specialized, and for prospective science teachers. The standard three-year premedical or pre dental curriculum, followed by a year of work in a medical school or two years of work in a dental school, meets all of the requirements for the bachelor's degree in general science.

The general science major leads to the Bachelor of Arts or Bachelor of Science degree. The special requirements are—a minimum of 72 term hours in science (biology, chemistry, geology, mathematics, physics), distributed as follows: (1) Four year sequences, numbered 100-110 or 200-210, one in each of four science departments. (2) A minimum of 24 upper-division hours in science, including not less than 9 term hours in each of two science departments.

LOWER-DIVISION COURSES

- GS 104, 105, 106. **Physical-Science Survey.** 4 hours each term.
General introduction to the physical sciences; principles of physics and chemistry, geologic processes, and man's relation to them. Special emphasis on scientific method. 3 lectures; 1 quiz period. Ebbighausen, Berreman, Valk.
- GS 201, 202, 203. **Biological Science (Sophomore Honors).** 4 hours each term.
Selected studies of biological principles, with emphasis on methods of observation, comparison, analysis, experiment, and synthesis in biological science. Open to students eligible for the sophomore honors examinations. Huestis, Straus, Castenholz, Cohen.
- GS 204, 205, 206. **Physical Science (Sophomore Honors).** 4 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. Open to students eligible for the sophomore honors examination.

UPPER-DIVISION COURSES

GS 411, 412, 413. **History of Science.** (g) 2 hours each term.

Lectures, readings, and discussions of selected topics in the history of science, considered as a part of the cultural history of Western civilization in the period 1500-1900.

General Social Science

THE PROGRAM IN GENERAL SOCIAL SCIENCE includes a series of courses of broad interdepartmental scope and a major curriculum in general social science leading to the bachelor's degree.

The curriculum in general social science is designed for students who wish broad cultural training, and for prospective teachers for whom a departmental major may be to highly specialized. In addition to satisfying the general University requirements, students following this program must take a minimum of 72 hours in social science courses. This work must include four lower-division year sequences, one in each of four of the following fields: anthropology, economics, geography, history, philosophy, political science, psychology, religion, sociology. The Study of Society (Sophomore Honors) (SSc 201, 202, 203) may be substituted for any one of the four required sequences; History (Sophomore Honors) (SSc 107, 108, 109) may be elected as a sequence in history for the satisfaction of this requirement. The upper-division work must include two one-year sequences (not less than 18 hours) in one social science department, and one one-year sequence (not less than 9 hours) in each of two other social science departments.

LOWER-DIVISION COURSES

SSc 104, 105, 106. **Social Science and Social Policy.** 3 hours each term.

An introduction to the social sciences; designed to provide an understanding of the scientific approach to the study of society and of the relation of facts and theories to questions of social policy.

SSc 107, 108, 109. **History (Sophomore Honors).** 3 hours each term.

Significant events, ideas, and institutions in the development of Western civilization from the Middle Ages to the present. Open to students eligible for the sophomore honors examinations. Lorwin, MacMullen, Pierson, Snow, Sorenson.

SSc 201, 202, 203. **The Study of Society (Sophomore Honors).** 3 hours each term.

A study of some fundamental concepts in the social sciences. Open to students eligible for the sophomore honors examination. Gastil, Marquis.

Anthropology

Professors: L. S. CRESSMAN (department head), H. G. BARNETT.

Associate Professor: THEODORE STERN.

Assistant Professors: V. R. DORJAEN, R. D. GASTIL.

Instructor: D. L. COLE.

Assistants: L. A. BROWN, H. F. CLENDENEN, NEIL KIRSCHNER.

Fellows: D. E. DUMOND, B. M. DU TOIT, R. W. WAGNER, J. E. WELLS.

THE COURSES offered by the Department of Anthropology are planned to provide a broader and deeper understanding of human nature and society for students

in other fields, as well as integrated programs for students majoring in anthropology.

A high-school student planning to major in anthropology is advised to take two years of high-school mathematics, preferably algebra. He should also come to the University with a sound background in English, so that he can read with understanding and express himself with clarity.

Majors in anthropology are required to take the following lower-division courses: General Anthropology (Anth 101, 102, 103) *or* Introduction to Cultural Anthropology (Anth 207, 208, 209); General Psychology (Psy 201, 202); Psychology of Adjustment (Psy 204) *or* Applied Psychology (Psy 205).

At the upper-division level the following courses are required of majors: Peoples of the World (Anth 314, 315, 316); Physical Anthropology (Anth 320, 321, 322); World Prehistory (Anth 411, 412, 413); and one area course at the 400 (G) level. Students planning to do graduate work should take two years of German and two years of a second foreign language, preferably French or Spanish. To insure a broad liberal education, it is strongly recommended that the student limit his undergraduate work in anthropology to a maximum of 51 term hours.

The department offers graduate work leading to the Master of Arts and Doctor of Philosophy degrees. Graduate instruction includes work in the fields of archaeology, ethnology, linguistics, and physical anthropology. To qualify for a master's degree, students must demonstrate competence in all these fields.

The carefully selected anthropological collections of the Museum of Natural History provide excellent material for class instruction, particularly in the culture of the American Indian.

LOWER-DIVISION COURSES

Anth 101, 102, 103. **General Anthropology.** 3 hours each term.

Fall: man as a living organism; biological evolution; the human life cycle. Winter: evolution of man; human races, nature and problems. Spring: the development of culture; organization of culture; man, participant in and observer of culture. 2 lectures; 1 discussion period. Cressman.

Anth 207, 208, 209. **Introduction to Cultural Anthropology.** 3 hours each term.

The meaning of culture; its significance for human beings; its diverse forms and degrees of elaboration among different groups of men; its processes of growth and expansion. 2 lectures; 1 discussion period. Barnett.

UPPER-DIVISION COURSES

Anth 301, 302, 303. **Primitive Society.** 3 hours each term.

Social relationships and organizations among primitive peoples, including kinship, fraternal, political, and religious forms and behaviors. Prerequisite: upper-division standing. Gastil.

Anth 314, 315, 316. **Peoples of the World.** 3 hours each term.

Historical treatment of world culture areas, exclusive of Europe. Regional variations in culture, their backgrounds, and their significance in contemporary world affairs. Materials drawn from Africa, Asia, Oceania, and the Americas. Prerequisite to area courses. Prerequisite: upper-division standing. Dorjahn.

Anth 320, 321, 322. **Physical Anthropology.** 3 hours each term.

Human physical development, racial differentiation, and racial distinctions. Fall: man's place among the Primates, fossil man, principles in human evolution; winter: morphological and genetic racial criteria, blood groups, factors in population change; spring: constitutional types, prehistoric and historic racial movements. Prerequisite: upper-division standing. Dorjahn.

Anth 401. **Research.** Hours to be arranged.

Anth 403. **Thesis.** Hours to be arranged.

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

Anth 408. **Field Work in Anthropology.** (G) Hours to be arranged.

Anth 411, 412, 413. **World Prehistory.** (g) 2 hours each term.

Survey of the main developments in world prehistory. Fall: methods of archaeology; geological and biological background of palaeolithic man; the Old World palaeolithic. Winter: Old World village and urban development. Spring: New World hunting and gathering; agricultural-village life, urban society. Prerequisite: upper-division standing. Cressman.

Anth 414. **Race and Culture.** (G) 2 hours.

Racial classifications and comparisons; the biological base of culture; attitudes toward race in human relations. Prerequisite: 9 hours in anthropology or consent of instructor. Stern.

Anth 415. **Socialization in Primitive Society.** (G) 2 hours.

Methods of child rearing, education, and social control among primitive peoples. Prerequisite: 9 hours in anthropology or consent of instructor. Stern.

Anth 416. **History of Anthropology.** (G) 2 hours.

A nontheoretical exposition of the beginnings and specialized developments within the fields of archaeology, physical anthropology, ethnology, and linguistics. Prerequisite: 9 hours in anthropology or consent of instructor. Stern.

Anth 417, 418, 419. **The American Indian.** (G) 3 hours each term.

Indian life in Central, South, and North America before white contact; contemporary Indian life where groups still survive. Prerequisite: Anth 314, 315, 316 or consent of instructor. Stern.

Anth 423, 424, 425. **Peoples of the Pacific.** (G) 3 hours each term.

Life and customs among the native groups of the South Pacific, including Polynesia, Micronesia, Melanesia, Australia, and Indonesia. Prerequisite: Anth 314, 315, 316 or consent of instructor. Barnett.

Anth 426, 427, 428. **Peoples of Africa.** (G) 3 hours each term.

The cultures of Negro Africa, their history and development; the problems of contemporary Africa. Fall: South and East Africa; winter: Central and West Africa; spring: the problems of modern Africa. Prerequisite: Anth 314, 315, 316 or consent of instructor. Dorjahn.

Anth 435, 436. **Peoples of the Near East.** (G) 3 hours each term, fall and winter.

The ethnic groups of North Africa and Southwestern Asia; Islam and Islamic social structure as a unifying force; the relations of the Near East with Negro Africa and Asia. Prerequisite: Anth 314, 315, 316 or consent of instructor. Dorjahn.

Anth 437. **Peoples of Interior Asia.** (G) 3 hours spring.

Cultures of Interior Asia: palaeo-Siberians, Mongols, Manchus, Kirkhiz, Kazaks, and other peoples of Asiatic Russia. Prerequisite: Anth 314, 315, 316 or consent of instructor. Dorjahn.

Anth 438, 439, 440. **Peoples of Southern and Eastern Asia.** (G) 3 hours each term.

Introduction to the cultures of India, Farther India, China, Japan, and related areas; development of distinctive cultural configurations; interrelationships of culture; impact of westernization; racial, ethnic, and linguistic factors. Fall: the Hindu culture sphere; winter: the Chinese culture sphere; spring: southeastern Asia. Prerequisite: Anth 314, 315, 316 or consent of instructor. Stern.

Anth 441, 442, 443. **Linguistics.** (G) 3 hours each term.

The relation of language to culture; nature and forms of language; influence of linguistic patterns on thought; sounds of language—phonetics and phonemics; linguistic structures; morphophonemics and morphology; semantics; techniques of linguistic recording, analysis; field work. Prerequisite: senior

standing; Anth 207, 208, 209 or two years of a foreign language; consent of instructor. Stern.

Anth 444. Religion and Magic of Primitives. (G) 3 hours fall.

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 hours in anthropology or consent of instructor. Dorjahn.

Anth 445. Folklore and Mythology of Primitives. (G) 3 hours winter.

Unwritten literature as an expression of the imaginative and creative thought of primitive people. Prerequisite: 9 hours in anthropology or consent of instructor. Stern.

Anth 446. Art Among Primitives. (G) 3 hours spring.

The artist and aesthetic expression among primitive peoples. Prerequisite: 9 hours in anthropology or consent of instructor. Stern.

Anth 450, 451, 452. Cultural Dynamics. (G) 3 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 hours in anthropology or consent of instructor. Barnett.

Anth 453. Primitive Value Systems. (G) 3 hours.

A comparative presentation and analysis of the differing world views of various primitive peoples. The basic premises and tenets revealed by an ethnic group in its interpretations of its experiences. Prerequisite: 9 hours of anthropology or senior standing in social science. Barnett.

Anth 454. Applied Anthropology. (G) 3 hours.

Study of case material in which anthropological assumptions, theories, and techniques have been applied to effect desired changes in intergroup relations. Problems of cross-cultural communication, conflict, and adjustment. Prerequisite: 9 hours in anthropology or senior standing in social science. Barnett.

Anth 455. Anthropology and Native Administration. (G) 3 hours.

Survey of present policies and techniques of native administration; application of anthropological facts and theory to the solution of practical problems; the impact of external demands on native cultures; satisfaction of social, economic, and psychological needs. Principal areas studied are Oceania and Africa, with some attention to parts of North America and Asia. Prerequisite: 9 hours of anthropology or senior standing in social science. Barnett.

GRADUATE COURSES

Courses number 400-499 and designated (G) may be taken for graduate credit.

Anth 501. Research. Hours to be arranged.

Anth 502. Research Methods in Anthropology. Hours to be arranged.

Orientation with reference to graduate study, research methods, and bibliographical sources; preparation and presentation of graduate-level research papers. Required of all first-year graduate majors during the fall term, as a prerequisite to all Anth 501-507 courses. Dorjahn.

Anth 503. Thesis. Hours to be arranged.

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

Anth 506. Special Problems. Hours to be arranged.

Anth 507. Seminar. 3 hours any term.

Theory and Method in Archaeology. Cressman.
Culture and Personality. Stern, Gastil, Littman.
Anthropological Theory. Barnett.
Field Methods in Ethnology. Barnett.
Innovation. Barnett.

Economics of Primitive Peoples. Dorjahn.
 The Negro in the New World. Dorjahn.
 National and Civilizational Cultures. Gastil.
 Changes in Modern Civilization. Gastil.

Anth 511. Culture, Society, and the Individual. 3 hours.

A review and evaluation of the concepts of culture and society, as the terms are employed by anthropologists. The relationships between culture and society, between culture and the individual, and between society and the individual. Prerequisite: graduate standing in the social sciences. Barnett.

Anth 512. The Beginnings of Civilization. 3 hours.

The change from a food-gathering to a food-producing economy; significance for cultural and social development. Prerequisite: graduate standing in the social sciences. Cressman.

Anth 520, 521, 522. Advanced Physical Anthropology. 4 hours each term.

Observations and measurements of skeletons; morphological observations and anthropometry of the living. Genetic and morphological analysis of race. Dentition, biometric statistics, blood-group genetics and techniques. 3 lectures; 1 three-hour laboratory period. Prerequisite: Anth 320, 321, 322 or consent of instructor. Dorjahn.

Bi 522. Advanced Genetics. 2 hours.

For description see page 116.

Biology

Professors: B. T. SCHEER (department head), C. W. CLANCY, R. R. HUESTIS, A. R. MOORE (emeritus), AARON NOVICK, EDWARD NOVITSKI, P. L. RISLEY.

Associate Professors: L. E. DETLING, P. W. FRANK, L. J. KEZER, F. P. SIPE (emeritus), A. L. SODERWALL, F. W. STAHL.

Assistant Professors: F. W. CASTENHOLZ, M. J. COHEN, B. H. MCCONNAUGHEY, R. W. MORRIS, F. W. MUNZ, J. A. SHOTWELL, JACOB STRAUS, S. S. TEPPER.

Instructor: J. E. ERICKSON.

Associates: MILDRED R. DETLING, V. R. MEENAKSHI.

Fellows: W. R. BISHOP, J. L. BROWN, R. W. COFFIN, L. I. COHEN, R. R. EPP, G. D. HAWKS, J. L. HINDMAN, J. C. HWANG, YVONNE JUNG, W. C. KOENIG, J. A. PEARY, R. L. VAN DE VELDE, DAH-HSI WANG, W. W. WIRT.

Assistants: F. W. DAVIS, JOYCE EMRICH, VERNON HENDERSON, W. H. HOWARD, D. L. LIU, B. M. MCALLISTER, M. W. MUMBACH, J. A. PARKS, R. P. PETERSON, J. B. SHININGER, B. O. SMITH, J. F. SQUIRES, MARILYN STAIGER, ERIC TERZAGHI, JEAN TERZAGHI, MARY WOLFF.

THE DEPARTMENT OF BIOLOGY offers an undergraduate program providing a broad and fundamental knowledge of the various fields of animal and plant biology. The program is planned to provide an understanding of the living world as a part of a liberal education, to prepare the student 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.

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. The standard curriculum for majors is as follows:

Freshman Year. General Biology (Bi 101, 102, 103) or Biological Science (Sophomore Honors) (GS 201, 202, 203); General Chemistry (Ch 201, 202, 203, Ch 204, 205, 206); mathematics, one year of work at the 100 level (students will be enrolled in a course for which they have adequate preparation; adequacy of preparation will be determined on the basis of high-school records and a placement examination).

Sophomore Year. Invertebrate Zoology (Bi 324), Comparative Anatomy (Bi 325), and Vertebrate Embryology (Bi 326) or Plant Morphology (Bi 332, 333)* and Systematic Botany (Bi 334)*; Organic Chemistry (Ch 334, 335); Quantitative Analysis (Ch 320)†; First-Year French (RL 50, 51, 52)*† or First-Year German (GL 50, 51, 52)*†.

Junior Year. Bi 332*, 333*, Bi 334* or Bi 324, Bi 325, Bi 326, if not taken in the sophomore year; Animal Physiology (Bi 314) or Plant Physiology (Bi 315); Introduction to Genetics (Bi 442); General Physics (Ph 201, 202, 203)†; Elements of Statistical Methods (Mth 425)*†; Second-Year French (RL 101, 102, 103)*† or Second-Year German (GL 101, 102, 103)*†. Summer work at the Oregon Institute of Marine Biology or another field station is strongly recommended.

Senior Year. 12 term hours in biology courses at the 400 level in a single field of specialization.

Graduate Work. The department offers graduate work leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Candidates for the master's degree are expected to meet undergraduate major requirements, as determined by their undergraduate records and by examination, before advancement to candidacy for the degree.

Facilities are available for graduate study in botany (plant morphology, anatomy, taxonomy, and physiology), ecology, genetics, marine biology, microbiology, physiology (comparative, general, and mammalian), and zoology (cytology, embryology, invertebrate, and vertebrate).

Institute of Marine Biology. The University operates for the Oregon State System of Higher Education an Institute of Marine Biology at Charleston on Coos Bay on the Oregon Coast. The institute is located in a setting providing access to an unusual variety of richly populated marine and terrestrial habitats. Under the guidance of an interinstitutional advisory committee, the institute serves all units of the State System. A program of undergraduate and graduate studies is offered during the summer session; the institute is open to qualified persons for research 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 University of Oregon Institute of Molecular Biology. See INSTITUTE OF MOLECULAR BIOLOGY.

LOWER-DIVISION COURSES

Bi 101, 102, 103. **General Biology.** 4 hours each term.

Principles of life science, illustrated by studies of selected organisms. 3 lectures; 1 three-hour laboratory period. Kezer, Tepfer, staff.

* These courses are not required for students who enter professional medical and dental schools at the end of their junior year and offer work taken in the first year of the professional curriculum for the completion of the major requirement for a bachelor's degree.

† Students completing certification requirements for teaching in secondary schools before graduation are exempt from these requirements.

UPPER-DIVISION COURSES

Bi 101, 102, 103 or equivalent is prerequisite to all upper-division courses in biology. Other prerequisites are indicated in the course descriptions.

- Bi 311. **Introduction to Bacteriology.** 3 hours fall.
Basic principles and techniques of bacteriology. 2 lectures; 2 two-hour laboratory periods. Prerequisite: one year of chemistry. McConnaughey.
- Bi 312, 313. **Human Physiology.** 3 hours each term, winter and spring.
Required for majors in physical education, elective for others qualified. 2 lectures; 1 three-hour laboratory period. Prerequisite: one year of chemistry. Soderwall.
- Bi 314. **Animal Physiology.** 4 hours.
Introduction to the physiology of animals, stressing features common to all forms of animal life and general physiological principles. 3 lectures; 1 three-hour laboratory period. Prerequisite: general chemistry. Scheer.
- Bi 315. **Plant Physiology.** 4 hours.
Growth, respiration, and functions of plant organs. 2 lectures; 2 three-hour laboratory periods. Prerequisite: general chemistry. Straus.
- Bi 324. **Essentials of Invertebrate Zoology.** 4 hours.
Morphology, anatomy, and general biology of the major phyla of invertebrate animals. 2 lectures; 2 three-hour laboratory periods. Morris.
- Bi 325. **Comparative Anatomy.** 4 hours.
Systematic study, dissection, and identification of vertebrate structures and anatomical relations. 2 lectures; 2 three-hour laboratory periods. Munz.
- Bi 326. **Vertebrate Embryology.** 4 hours.
Fertilization, morphogenesis, and differentiation of organ systems of vertebrates. 2 lectures; 2 three-hour laboratory periods. Risley.
- Bi 332, 333. **Plant Morphology.** 4 hours each term, fall and winter.
Comparative study of the structure and life histories of representatives of the important plant phyla. Fall: ferns, fern allies, and seed plants; winter: algae, fungi, liverworts, and mosses. 2 lectures; 2 three-hour laboratory periods. Tepfer, Castenholz.
- Bi 334. **Systematic Botany.** 4 hours.
Principles of plant classification; common plant families; collection and identification of Oregon plants.
- Bi 371, 372. **Human Anatomy.** 3 hours each term.
Gross anatomy; the skeletal and muscular structure; the circulatory, respiratory, digestive, and neural systems and their functioning in physical activities. 2 lectures; 1 three-hour dissection period. Prerequisite: junior standing. Sigerseth.
- Bi 401. **Research.** Hours to be arranged.
- Bi 403. **Thesis.** Hours to be arranged.
- Bi 405. **Reading and Conference.** Hours to be arranged.
- Bi 407. **Seminar.** Hours to be arranged.
- Bi 408. **Laboratory Projects.** (G) Hours to be arranged.
Special laboratory training in research methods.
- Bi 412, 413. **Microbiology.** (g) 3 hours each term, winter and spring.
Study of important groups of bacteria, lower fungi, and protozoa; their roles in the transformations of organic matter, and in physical and chemical transformations in soil and water; their importance to man. 2 lectures; 2 two-hour laboratory periods. Prerequisite: Bi 311. McConnaughey.

- Bi 422. **Plant Microtechnique.** (G) 2 hours.
Laboratory experience in preparation of plant tissues for microscopic study. 2 three-hour laboratory-lecture periods. Prerequisite: senior standing; Bi 332 or Bi 475. Tepper.
- Bi 423. **Histology.** (G) 4 hours.
Systematic study, description, and identification of microscopic structures of vertebrate tissues. 2 lectures; 2 three-hour laboratory periods. Prerequisite: Bi 325, Bi 326. Kezer.
- Bi 434. **Aquatic Biology.** (G) 3 hours.
The ecology of fresh-water organisms. 2 lectures; 1 three-hour laboratory period. Prerequisite: Bi 464. Castenholz, Frank.
- Bi 441. **Introduction to Mammalian Physiology.** (g) 4 hours fall.
Introduction to the physiology of mammalian organs and organ systems. 3 lectures; 3 hours laboratory. Prerequisite: one year of chemistry. Soderwall.
- Bi 442. **Introduction to Genetics.** (g) 3 hours.
An introduction to the fundamental principles of genetics. 3 lectures. Clancy.
- Bi 443. **Genetics Laboratory.** (G) 2 hours.
Fundamental principles of genetics illustrated by experiments with *Drosophila* and other organisms. 2 three-hour laboratory periods. Prerequisite: Bi 442. Clancy.
- Bi 444. **Human Genetics.** (G) 3 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 the genetic aspects of the human races. 3 lectures. Prerequisite: Bi 442. Novitski.
- Bi 446. **Evolution.** (G) 3 hours.
Theories of biological variation, race, and species formation. 3 lectures. Prerequisite: Bi 442 or equivalent; Mth 425; senior or graduate standing. Frank.
- Bi 448, 449. **Cytology.** (G) 4 hours each term.
Bi 448—problems of cytology; behavior and life histories of cells and cell structures in relation to development and growth; methods of study and experimental procedures; prerequisite: Bi 326, Bi 442, organic chemistry, senior standing in biology. Risley. Bi 449—structure and behavior of chromosomes and other nuclear components; methods of study of cell nuclei in relation to biological problems; prerequisite: Bi 442, Bi 448, or consent of instructor. Kezer.
- Bi 454. **Algae.** (G) 4 hours.
Structure, life histories, and ecology of representative fresh-water and marine algae. 2 lectures; 2 three-hour laboratory periods. Castenholz.
- Bi 455. **Fungi.** (G) 4 hours.
Structure, physiology, and classification of fungi. 2 lectures; 2 three-hour laboratory periods. Castenholz.
- Bi 461, 462. **Invertebrate Zoology.** (G) 4 hours each term, fall and winter.
Survey of invertebrate phyla, with emphasis on free-living forms. 2 lectures; 2 three-hour laboratory periods.
- Bi 463. **Parasitology.** (G) 4 hours.
Biological relationships of parasite and host, and the effect of such relationships on each. 2 lectures; 2 three-hour laboratory periods. McConnaughey.
- Bi 464, 465, 466. **Principles of Ecology.** (G) 4 hours each term.
Fall: general principles, with illustrations in the field; winter: population theory; spring: communities and ecosystem structure and energetics. Prerequisite: general chemistry, college algebra. Frank.

- Bi 467, 468, 469. **Historical Biogeography.** (G) 3 hours each term.
 Fall: classification of mammals and mammalian morphology, with emphasis on comparative oseology. Winter: history of mammals; principles involved in their chronological distribution. Spring: biogeography and paleoecology. 2 lectures; 1 three-hour laboratory period. Prerequisite: senior standing in biology, geology, or anthropology. Shotwell.
- Bi 475. **Plant Anatomy.** (G) 4 hours fall.
 Comparative study of the structure and development of cells, tissues, and organs of seed plants. 2 lectures; 2 three-hour laboratory periods. Tepfer.
- Bi 482. **Invertebrate Embryology.** (G) 4 hours.
 Embryology of invertebrate animals, with emphasis on the major phyla. Life cycles, fertilization, morphogenesis, and differentiation of organ systems. Prerequisite: invertebrate zoology. Risley.
- Bi 491, 492, 493. **General and Comparative Physiology.** (G) 3 hours each term.
 Cellular metabolism and energetics; permeability, osmosis, and active transport; bioelectricity; physiology of excitation, conduction, and muscular contraction in animals; nutrition, digestion, circulation, metabolism, excretion, and integration in the major animal phyla, in relation to ecology and the evolution of physiological function. 2 lectures; 1 three-hour laboratory period. Prerequisite: organic chemistry, general physics, invertebrate zoology. Munz, Cohen, Scheer.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

- Bi 501. **Research.** Hours to be arranged.
- Bi 502. **Research Methods in Biology.** 2 hours.
 Lectures and discussion of scientific method in biology; use of the library in research; formulation of research problems; conduct of investigations; interpretation of observations; oral and written presentation of results. Scheer.
- Bi 503. **Thesis.** Hours to be arranged.
- Bi 505. **Reading and Conference.** Hours to be arranged.
- Bi 507. **Seminar.** Hours to be arranged.
 Animal Physiology.
 Cryptogamic Botany.
 Ecology.
 Fish Biology.
 Plant Morphology.
 Plant Physiology.
- Bi 520, 521, 522. **Advanced Genetics.** 2 hours each term.
 Selected topics from the following: gene action, mutation, chromosome mechanics, population genetics, statistical methods, radiation genetics. 3 lectures. Novitski.
- Bi 523. **Genetics of Bacteria and Viruses.** 3 hours.
 Genetic mechanisms in bacteria and viruses, with emphasis on the molecular basis of genetic replication and of control of protein synthesis. Stahl, Novick.
- Bi 525. **Experimental Embryology.** 4 hours.
 Problems and techniques of experimental morphogenesis and development. Lectures and laboratory work. Prerequisite: Bi 326, Bi 482. Risley.
- Bi 526. **Developmental Genetics.** 4 hours.
 Systematic and critical review of the observational and experimental bases for genetic concepts involved in causal explanations of differentiation and development. Lectures, discussion. Prerequisite: Bi 314, Bi 326, Bi 442, biochemistry. Clancy.

Bi 531. Vertebrate Endocrinology. 3 hours.

The morphology and physiology of glands of internal secretion; their role in normal body function of the vertebrates. Soderwall.

Bi 532. Physiology of Reproduction. 3 hours.

Biochemical, histochemical, physiological, and other experimental approaches to problems in the physiology of reproduction. Soderwall, Risley.

Bi 533. Comparative Endocrinology. 3 hours.

The morphology and physiology of neurosecretory and other endocrine structures of the invertebrates and lower vertebrates. Scheer.

Bi 534. Endocrinology Laboratory. 1-3 hours.

Laboratory work to accompany Bi 531, Bi 532, or Bi 533, conducted on a project basis.

Bi 535. Neurophysiological Basis of Behavior. 3 hours.

Physiology of the neuromuscular systems of animals, with emphasis on phylogenetic development and the evolution of animal behavior. Cohen.

Bi 536. Neurophysiology Laboratory. 3 hours.

Laboratory work to accompany Bi 535, with emphasis on the electrical techniques for study of nerve and muscle function. Cohen.

Bi 537. Physiology of Membrane Processes. 3 hours.

Experimental and theoretical approaches to the study of diffusion, permeability, and active transport across living membranes; the physiological significance of these processes. Scheer.

Bi 547, 548, 549. Advanced Systematic Botany. 3 hours each term.

Classification, distribution, and speciation of seed plants of the Pacific Northwest. Prerequisite: Bi 332, 333, Bi 334. Detling.

Bi 551. Biology of Fishes. 4 hours.

The anatomy, development, and biology of fishes. Morris.

COURSES OFFERED ONLY IN SUMMER SESSIONS AND EXTENSION

Bi 431, 432, 433. General Ecology. (g) 3 hours each term (extension).***Bi 450. Marine Invertebrate Types.** (g) 3 hours.***Bi 456. Natural History of Marine Organisms.** (G) 9 hours.***Bi 457. Planktonology.** (G) 6 hours.***Bi 459. Marine Ecology.** (G) 6 hours.**Bi 470. Field Botany.** (G) 3 hours (summer sessions).**Bi 486. Field Ornithology.** (G) 3 hours (summer sessions).**Bi 494. Field and Laboratory Methods in Biology.** (g) 3 hours (summer sessions).

Chemistry

Professors: F. J. REITHEL (department head),† T. L. HILL (acting department head), A. H. KUNZ (emeritus), R. M. NOYES, NOBUHIKO SAITO, TSUNENOBU YAMAMOTO.

Associate Professors: C. E. DIEBEL, L. H. KLEMM, J. A. SCHELLMAN, D. F. SWINEHART.

* Offered at the Institute of Marine Biology.

† On leave of absence 1959-60.

Assistant Professors: W. M. GRAVEN, R. A. KELLER, N. M. VAN GULICK, R. G. WOLFE.

Associates: E. P. ANTONIADES, J. G. FOSS, LISE GRUEN, ALEXANDRE KOHLIK, D. J. RAWLINSON, G. A. SALMON.

Fellows: S. N. GREENSCHLAG, D. W. HAMILTON, MAILI HEINSOO, DAVID LESNINI, C. N. LIESKE, C. E. MORAN, P. J. ORIEL, R. E. SALOMON, R. W. VREELAND, R. R. WILKINSON.

Assistants: C. J. ABRAHAM, S. K. AIREE, E. T. BRADLEY, P. J. BURKHARDT, G. H. CAPP, J. D. CHRISTIAN, A. L. CLINE, K. B. DESAI, ANTHONY GOLDEN, G. KARABOYAS, J. C. KIM, Y. P. MYER, H. E. RAST, D. N. RAVAL, T. N. SOLIE, JANE ROSENEAU, W. C. SOLOMON, B. J. WHITE, S. J. YAO.

UNDERGRADUATE COURSES in chemistry are planned to provide a broad knowledge of the field as a part of the University's program of liberal education, and to provide a substantial foundation in chemistry for students interested in (1) a career in industrial chemistry, (2) advanced work in chemistry or other sciences, (3) premedical or pre dental studies, or (4) teaching in colleges or the secondary schools.

The high-school preparation of a prospective chemistry major should include as much mathematics as possible. One year each of algebra and geometry are 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 modern foreign languages is expected. High-school work in chemistry and physics is desirable but not required.

The standard 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 201, 202, 203, Ch 204, 205, 206); a year sequence in mathematics (students will be registered in a mathematics course for which they have adequate preparation; as a basis for placement, high-school records are supplemented by a placement examination).

Sophomore Year. Organic Chemistry (Ch 334, 335, 336); General Physics (Ph 201, 202, 203); Differential and Integral Calculus (Mth 201, 202, 203), if not taken in the freshman year.

Junior Year. Quantitative Analysis (Ch 320, 322, Ch 323); Inorganic Semi-Micro Qualitative Analysis (Ch 325, 326); Organic Qualitative Analysis (Ch 435); German.

Senior Year. Physical Chemistry (Ch 441, 442, 443); Physical-Chemical Measurements (Ch 444, 445); an additional year-sequence in chemistry at the senior level; German.

The additional advanced sequence in the senior year may be elected from such courses as Advanced Inorganic Chemistry (Ch 411, 412, Ch 414) or Biochemistry (Ch 461, 462, 463, Ch 464, 465, 466). Qualified students may substitute research for the senior-year advanced sequence; majors are urged to consider this option.

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 desire a less specialized major, without American Chemical Society certification, may omit Organic Qualitative Analysis (Ch 435), the extra sequence in the senior year, and German.

For those who intend to teach in secondary schools the department recommends the following as minimum preparation: General Chemistry (Ch 201, 202,

203, Ch 204, 205, 206) ; Organic Chemistry (Ch 334, 335) ; Elementary Quantitative Analysis (Ch 320). These courses provide a basis for advanced work and some acquaintance with several fields of chemistry. Additional courses for secondary-school teachers are offered during the summer sessions.

Graduate Study. The Department of Chemistry offers graduate work leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Detailed information is published in the Graduate School Catalog.

The department is prepared to accept Ph.D. candidates for work in the following fields of chemistry: physical chemistry, organic chemistry, theoretical chemistry, biochemistry, inorganic chemistry, and analytical chemistry.

LOWER-DIVISION COURSES

Ch 101, 102, 103. **Elementary Chemistry.** 4 hours each term.

This sequence does not furnish a foundation for further work in chemistry. 2 lectures; 1 two-hour laboratory period; 1 quiz period. Keller.

Ch 201, 202, 203. **General Chemistry.** 3 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 further study of chemistry. 3 lectures. Prerequisite: Mth 10 or equivalent. Schellman, van Gulick.

Ch 204, 205, 206. **General Chemistry Laboratory.** 2 hours each term.

Planned to accompany Ch 201, 202, 203. Required for chemistry majors and for premedical and pre dental students. 1 three-hour laboratory period; 1 quiz period. Graven.

UPPER-DIVISION COURSES

Ch 320. **Elementary Quantitative Analysis.** 5 hours fall or spring.

First course in quantitative analysis. Laboratory work devoted mainly to volumetric analysis. Satisfies the requirement in quantitative analysis for admission to medical or dental schools. 3 lectures; 2 three-hour laboratory periods. Prerequisite: Ch 203, Ch 206. Graven, Noyes.

Ch 322, 323. **Quantitative Analysis.** 4 hours each term, winter and spring.

Completes, with Ch 320, a year sequence in quantitative analysis required for majors. Emphasis on gravimetric and composite analysis. 2 lectures; 2 three-hour laboratory periods. Prerequisite: Ch 320. Noyes.

Ch 325, 326. **Inorganic Semi-Micro Qualitative Analysis.** 2 hours each term, winter and spring.

The separation and identification of cations and anions, by semi-micro methods. 1 lecture; 1 three-hour laboratory period. Prerequisite: Ch 201, Ch 204. Keller.

Ch 334, 335, 336. **Organic Chemistry.** 4 hours each term.

Comprehensive study of the chemistry of the compounds of carbon. 3 lectures; 1 three-hour laboratory period. Prerequisite: Ch 203; Ch 206 or Ch 326. Klemm.

Ch 401. **Research.** Hours to be arranged.

For advanced undergraduates. An introduction to the methods of chemical investigation.

Ch 403. **Thesis.** Hours to be arranged.

Open only to students eligible to work for the bachelor's degree with honors in chemistry.

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

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

Provides laboratory instruction not classifiable as research. Laboratory work covered in other courses is not duplicated. Prerequisite: consent of instructor.

Ch 411, 412. **Advanced Inorganic Chemistry.** (G) 3 hours each term, fall and winter.

A comprehensive study of the chemical elements and their compounds, including nuclear, atomic, and molecular structures. Prerequisite: three years of college chemistry. Noyes.

Ch 414. **Advanced Inorganic Laboratory.** (G) 1 or 2 hours.

Students in Ch 411, 412, 413 who expect American Chemical Society accreditation normally enroll in Ch 414 for one term of laboratory work. Students wishing more than one term of laboratory work may enroll in Ch 409. Prerequisite: Ch 442. 1 or 2 three-hour laboratory periods. Graven.

Ch 416. **Kinetics in Solution.** (G) 3 hours.

Theories of rates of homogeneous reactions in solution; application to the elucidation of the mechanisms of chemical reactions. Prerequisite: physical chemistry. Offered alternate years. Not offered 1960-61. Noyes.

Ch 435. **Organic Qualitative Analysis.** (G) 3 hours.

Principles and experimental techniques in the identification of organic compounds, including systematic separation of mixtures. 1 lecture; 2 three-hour laboratory periods. Prerequisite: Ch 336. Klemm.

Ch 441, 442, 443. **Physical Chemistry.** (g) 3 hours each term.

Comprehensive study of the theoretical aspects of physical-chemical phenomena. 3 lectures. Prerequisite: two years of college chemistry (except for physics majors), one year of calculus. Swinehart.

Ch 444, 445. **Physical-Chemical Measurements.** (g) 1 hour winter, 2 hours spring.

Experiments designed to illustrate the material of Ch 441, 442, 443; normally taken with that sequence. 1 three-hour laboratory period winter term; 2 three-hour laboratory periods spring term. Prerequisite: Ch 320. Keller.

Ch 461, 462, 463. **Biochemistry.** (G) 3 hours each term.

The chemical interpretation of biological phenomena; study of compounds having biological significance. 3 lectures. Prerequisite: organic and analytical chemistry, biology. Wolfe.

Ch 464, 465, 466. **Biochemistry Laboratory.** (G) 1 hour each term.

Designed to accompany Ch 461, 462, 463. Preparation and study of enzymes, use of chromatography, experiments with plant, animal, and microbiological materials. 1 three-hour laboratory period Wolfe.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

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

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

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

Ch 507. **Seminar.** 1 hour each term.

Seminars offered in physical chemistry, organic chemistry, and biochemistry. The general departmental seminar carries no credit.

Ch 508. **Special Topics in Theoretical Chemistry.** 2 or 3 hours.

Topics in thermodynamics (equilibrium and nonequilibrium), statistical thermodynamics, or quantum chemistry.

Ch 531, 532, 533. **Advanced Organic Chemistry.** 3 hours each term.

Advanced general survey of organic chemistry; structural theory, syntheses, scope and mechanism of reactions. Klemm, van Gulick.

Ch 534, 535, 536. **Special Topics in Organic Chemistry.** 2 or 3 hours each term.

Discussion of advanced topics selected from: carbocyclic and heterocyclic compounds, surface reactions and catalysis, stereochemistry, physical-organic concepts.

- Ch 537, 538, 539. **Advanced Organic Laboratory.** 2 hours each term.
Individual instruction in organic synthesis and techniques.
- Ch 541, 542, 543. **Chemical Kinetics.** 3 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. Swinehart.
- Ch 544, 545, 546. **Quantum Chemistry.** 2 or 3 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. Offered alternate years. Not offered 1960-61. Schellman.
- Ch 551, 552. **Chemical Thermodynamics.** 3 hours each term, fall and winter.
The laws of thermodynamics and their applications to gases, liquids, solids, phase equilibria, solutions, electrolytes, chemical equilibria, electrochemistry, surfaces, elasticity, external fields, etc.
- Ch 553, 554. **Statistical Thermodynamics.** 3 hours each term, fall and winter.
Molecular interpretation of the properties of equilibrium systems; principles and applications to gases, crystals, liquids, phase transitions, solutions, electrolytes, gas adsorption, polymers, chemical equilibria, etc. Offered alternate years. Schellman.
- Ch 556, 557. **Photochemistry and Molecular Spectra.** 2 hours.
The physical and chemical effects of molecular photoactivation by visible and ultraviolet radiation, including a survey of atomic and molecular spectra, with emphasis on topics of interest in photochemistry. Offered alternate years. Graven.
- Ch 561, 562, 563. **Enzymes and Intermediary Metabolism.** 2 or 3 hours each term.
Enzyme kinetics and detailed consideration of glycolysis, biological oxidation, lipid metabolism, and selected biological synthesis. Offered alternate years. Not offered 1960-61. Wolfe.
- Ch 564, 565, 566. **Proteins.** 2 or 3 hours each term.
Study of the organic and physical properties of proteins and of the concepts of their structure; nucleoproteins; immunological aspects of proteins. Offered alternate years. Wolfe.

COURSES OFFERED ONLY IN SUMMER SESSIONS

- Ch 419. **Advanced General Chemistry.** (g) 4 or 5 hours.
Ch 429. **Survey of Analytical Chemistry.** (g) 4 or 5 hours.
Ch 439. **Survey of Organic Chemistry.** (g) 4 or 5 hours.

Dentistry, Preparatory

THE COUNCIL ON DENTAL EDUCATION of the American Dental Association has established the following minimum requirements for admission to approved dental schools: at least 90 term hours of collegiate courses, including one year of English, one year of general chemistry, one year of biology or zoology, one year of physics, and one-half year of organic chemistry; a grade-point average of at least 2.00.

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 or other accredited dental schools. The completion of this curriculum and two years of dental-school work satisfies all requirements for a bachelor's degree from the University with a major in general science. With the proper choice of

electives in the preidental curriculum, the student may qualify for a bachelor's degree with a major in biology. Although a bachelor's 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.

Preidental 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 and by the Dental School should be taken not later than the fall term one year before admission. The Oregon test is given only in August; applications to take this test must be made well in advance of the scheduled date of the test. Preidental students should consult the Dental School Catalog for testing dates.

	Term Hours		
	F	W	S
First Year			
*General Chemistry (Ch 201, 202, 203).....	3	3	3
*General Chemistry Lab. (Ch 204, 205, 206).....	2	2	2
†Mathematics.....	4	4	4
English Composition (Wr 111, 112, 113).....	3	3	3
Group-satisfying sequence in arts and letters.....	3	3	3
Physical education.....	1	1	1
Military science (men).....	1	1	1
	17	17	17
Second Year			
Organic Chemistry (Ch 334, 335).....	4	4	..
Elementary Quantitative Analysis (Ch 320).....	..	..	5
General Biology (Bi 101, 102, 103).....	4	4	4
Group-satisfying sequence in social science.....	3	3	3
Physical education.....	1	1	1
Military science (men).....	1	1	1
Electives.....	3-5	3-5	3-4
	16-18	16-18	17-18
Third Year			
General Physics (Ph 201, 202, 203).....	5	5	5
Advanced Biology (Bi 325, Bi 326 recommended).....	..	4	4
Group-satisfying sequence in arts and letters.....	3	3	3
Group-satisfying sequence in social science.....	3	3	3
Electives--Sculpture (AA 293) and Jewelry (AA 257) recommended.....	6-7	2-3	2-3
	17-18	17-18	17-18

East Asian Studies

THE CURRICULUM IN EAST ASIAN STUDIES is a program of area training through selected courses dealing with the Far East. The primary emphasis is upon the Chinese culture sphere, with special attention to Japan. The program is designed to provide necessary basic knowledge for students interested in commercial, governmental, journalistic, or educational work relating to the region, for students preparing for graduate work in East Asian studies, or for those who wish to broaden their understanding of the interrelated world in which they live. The curriculum is administered by an advisory committee, of which Dr. Theodore Stern, associate professor of anthropology, is chairman.

The major in East Asian studies leads to the Bachelor of Arts or the Bachelor of Science degree. Those planning graduate work in the area are advised to take the B.A. program. The requirements are as follows:

* Students who are required to take Mth 10 postpone General Chemistry to the second year and substitute General Biology in the first year; such students must also interchange advanced courses in biology and chemistry.

† Students are enrolled in mathematics courses for which they have adequate preparation; as a basis for placement, high-school records are supplemented by a placement examination.

(1) All majors must take the following: Far East in Modern Times (Hst or PS 391, 392, 393); Geography of East Asia (Geog 451); Peoples of Southern and Eastern Asia (Anth 438, 439, 440).

(2) The candidate for the B.A. degree must take 39 term hours from groups (a) and (b), below, of which not more than 24 term hours may be selected from group (b); it is recommended that Chinese or Japanese be offered for the satisfaction of the language requirement. The candidate for the B.S. degree must take 24 term hours from groups (a) and (b), of which not more than 12 term hours may be selected from lower-division courses in group (b).

(a) Lecture-course group: Introduction to Chinese and Japanese Literature (AL 307, 308, 309); Peoples of Interior Asia (Anth 437); Geography of South and Southeast Asia (Geog 452, 453); Government and Politics of South and Southeast Asia (PS 317, 318); Far Eastern Governments and Politics (PS 330, 331, 332); History of Oriental Art (AA 446, 447, 448); Economics Problems of the Pacific (Ec 345); Religions of Mankind (R 303); History of China (Hst 494, 495, 496); History of Japan (Hst 497, 498, 499); seminars.

(b) Language-course group: First-Year Japanese (OL 60, 61, 62); Second-Year Japanese (OL 80, 81, 82); First-Year Chinese (OL 50, 51, 52); Second-Year Chinese (OL 70, 71, 72); Readings in Japanese (OL 405); Readings in Chinese (OL 405).

Graduate Work. The University also offers an interdisciplinary program of graduate work in East Asian studies in conjunction with work leading to the Master of Arts degree with a departmental major. The student completes 45 term hours of graduate work in a department, and, in addition, 30 term hours in East Asian studies, including a seminar in the East Asian field. His thesis applies the methodology of a departmental discipline to an East Asian subject. The program leads to two M.A. degrees, one in the departmental major field and the second in East Asian studies. The candidate must demonstrate mastery, equivalent to the attainment expected after two years of college study, of an East Asian language relevant to his program.

Economics

Professors: C. W. MACY (department head), CALVIN CRUMBAKER (emeritus), J. H. GILBERT (emeritus), P. L. KLEINSORGE, R. F. MIKESSELL, V. P. MORRIS, P. B. SIMPSON.

Associate Professors: R. M. ALLEN, ROBERT CAMPBELL, R. M. DAVIS, H. T. KOPLIN, M. D. WATTLES.

Instructor: J. N. TATTERSALL.

Research Associate: A. G. HOMAN.

Fellows: A. G. GOLS, J. M. MURRAY.

Assistants: D. A. BAJEMA, A. R. GUTOWSKY, W. G. HARRIS, BEVERLY RAMSPERGER, CAROL J. SIEVERLING, W. E. SUMNER, J. W. TANNER, S. P. THOMPSON, E. L. THUMA, K. P. TUTTLE, MAN-HE YOU.

THE CURRICULUM of the Department of Economics is planned not only to meet the needs of majors but also to provide nonmajor students with an insight into economic facts and problems as a part of their liberal education and as training for intelligent citizenship. The study of economics is basic for professional training in law, business, and public service.

Undergraduate Major. The undergraduate major in economics, leading to the Bachelor of Arts or Bachelor of Science degree, normally includes the following:

Sophomore Year. Principles of Economics (Ec 201, 202, 203), required of all majors. Majors are strongly urged to complete at least one year's work in college mathematics and one year of accounting by the end of the sophomore year.

Junior and Senior Years. Economic Theory (Ec 375, 376, 377), required of all majors; in addition, majors must complete 27 term hours of work in upper-division courses in economics, of which at least 18 hours must be in related sequences.

Option in Statistical Economics. This option, leading to the Bachelor of Arts or Bachelor of Science degree with a major in economics, is intended to prepare students for the investigation of economic and business problems through the application of modern statistical methods. The lower-division work is planned to provide a general foundation in the fields of mathematics, economics, and business. In the junior and senior years, advanced work in economic theory is supplemented by intensive training in pure and applied statistics. The following program is recommended:

Freshman Year. Essentials of Mathematics (Mth 101, 102, 103); Fundamentals of Accounting (Ac 211, 212, 213).

Sophomore Year. Principles of Economics (Ec 201, 202, 203); Differential and Integral Calculus (Mth 201, 202, 203).

Junior Year. Economic Theory (Ec 375, 376, 377); Elements of Statistical Methods (Mth 425).

Senior Year. Monetary and Banking Theory (Ec 411, 412, 413); Mathematical Economics (Ec 480, 481, 482); Mathematical Statistics (Mth 447, 448, 449); year sequence in national income analysis and statistical economics (Ec 483, Ec 484, Ec 485).

Graduate Work in Economics. The Department of Economics offers graduate work leading to the degrees of Master of Arts, Master of Science, and Doctor of Philosophy. For the general requirements for these degrees, see GRADUATE SCHOOL.

A candidate for the Ph.D. degree in economics must select four fields for concentrated study, including economic theory, and must pass a written comprehensive examination in each field and an oral examination covering the four fields. One field may be in another department or school of the University. Competency in the history of economic thought and a working knowledge of accounting and statistics are required for admission to candidacy for the degree.

A candidate for the Ph.D. degree in another discipline may present a field of economics as a cognate subject, provided he has had proper preparation, including a background in economic theory, to support the field of special interest.

LOWER-DIVISION COURSES

Ec 201, 202, 203. **Principles of Economics.** 3 hours each term.

Principles that underlie production, exchange, distribution, etc. Prerequisite: sophomore standing. Allen, Campbell, Davis, Kleinsorge, Koplín, Macy, Murray, Tattersall.

UPPER-DIVISION COURSES

Ec 318. **Money and Banking.** 3 hours fall.

Operations of commercial banks, the Federal Reserve System, and the Treasury that affect the United States monetary system. Prerequisite: Ec 201, 202, 203 or consent of instructor. Tattersall.

Ec 319. Public Finance. 3 hours winter.

Principles and problems of government financing. Expenditures, revenues, debt, and financial administration. Prerequisite: Ec 201, 202, 203 or consent of instructor. Tattersall.

Ec 320. International Finance. 3 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. Prerequisite: Ec 201, 202, 203 or consent of instructor. Allen, Tattersall.

Ec 325. Labor Economics. 3 hours fall.

Economic analysis applied to the labor market; wages, hours, conditions of work, unemployment, etc. Prerequisite: Ec 201, 202, 203. Kleinsorge.

Ec 326. Organized Labor. 3 hours winter.

History of the labor movement; aims, methods, and policies of trade unions, conservative and radical. Prerequisite: Ec 201, 202, 203. Kleinsorge.

Ec 327. Labor Legislation. 3 hours spring.

Labor legislation in the United States; problems facing employee, employer, and public that call for regulation through public authority. Prerequisite: Ec 201, 202, 203. Kleinsorge.

Ec 334. Government Control of Private Business. 3 hours fall.

Survey of government regulation of business in the United States; historical development, present scope, economic and philosophic bases. Prerequisite: Ec 201, 202, 203. Koplin.

Ec 335. Economics of Public Utilities and Transportation. 3 hours winter.

Economic characteristics of natural monopolies; their history and structure. Economic and regulatory problems of rate determination, control of entry, service, and financing. Prerequisite: Ec 201, 202, 203. Koplin.

Ec 336. Economics of Competitive Industries. 3 hours spring.

Economics of large-scale industry; organization of industrial markets; competitive conditions and price determination. Development and application of antitrust and unfair-trade legislation; government price regulation in competitive industries. Prerequisite: Ec 201, 202, 203. Koplin.

Ec 345. Economic Problems of the Pacific. 3 hours winter.

Analysis of some of the major economic problems facing countries of the Far East; population pressures and natural resources; capital formation in backward areas; industrialization and its impact on world trade; economic development; technical assistance and international organizations. Primarily for nonmajors.

Ec 375, 376, 377. Economic Theory. 3 hours each term.

Systematic study of the concepts and methods of current economic analysis, with special attention to the neoclassical school. Includes work in the fields of value and distribution, fluctuations, employment, etc. Required of all majors. Prerequisite: Ec 201, 202, 203. Campbell.

Ec 401. Research. Hours to be arranged.**Ec 405. Reading and Conference.** Hours to be arranged.**Ec 407. Seminar.** (g) Hours to be arranged.**Ec 411, 412, 413. Monetary and Banking Theory.** (G) 3 hours each term.

Analysis of the nature of money, effects of changes in the money supply, monetary controls used by the Federal Reserve System and the Treasury, international repercussions of domestic monetary policies, international banking agencies; critique of various monetary policies. Prerequisite: Ec 201, 202, 203. Simpson.

- Ec 415. **Economy of the Pacific Northwest.** (G) 3 hours winter.
Changes in and sources of personal income in the Pacific Northwest; industrial basis of the regional product; balance of payments; development of wood products. Prerequisite: Ec 201, 202, 203. Simpson, Tattersall.
- Ec 416. **Economics of Conservation.** (G) 3 hours spring.
Economic criteria for the proper rate and type of utilization of natural resources; the relevance of the rate of interest and time preference to conservation policy; conflicts between private and social goals of resource consumption. Prerequisite: Ec 201, 202, 203. Simpson.
- Ec 417. **Contemporary Economic Problems.** (g) 3 hours fall.
Contemporary economic conditions and problems; analysis of policies and practices affecting such problems. Prerequisite: Ec 201, 202, 203. Campbell.
- Ec 429, 430, 431. **Taxation and Fiscal Policy.** (G) 3 hours each term.
Critical analysis of taxes as sources of public revenue, with emphasis on theories and incidence. Effects of expenditure, tax, and debt policies of government upon the total economy. Prerequisite: Ec 201, 202, 203. Macy.
- Ec 432, 433, 434. **The Economics of Public Policy.** (G) 3 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, including precise formulation and weighing of alternatives; compilation and analysis of relevant data. Prerequisite: Ec 201, 202, 203. Mikesell.
- Ec 437, 438, 439. **Economic Problems of Government Regulation.** (G) 2 hours each term.
Advanced study of the theory and application of government control of industry; economic characteristics of specific monopolistic and competitive industries; their relation to the economic theory of business behavior; problems of public policy in individual industries. Prerequisite: Ec 201, 202, 203. Koplin.
- Ec 440, 441, 442. **International Economics.** (G) 3 hours each term.
Theory of international trade; problems in balance-of-payments adjustments during critical periods; commercial policies of the more-important nations; international economic organizations in theory and practice. Prerequisite: Ec 201, 202, 203. Allen.
- Ec 447, 448, 449. **Collective Bargaining.** (G) 2 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. Prerequisite: Ec 325 or consent of instructor. Kleinsorge.
- Ec 450, 451, 452. **Comparative Economic Systems.** (g) 2 hours each term.
An analytical comparison of capitalism and other economic systems. Prerequisite: Ec 201, 202, 203. Davis.
- Ec 453. **Land Economics.** (G) 3 hours fall.
Economic principles underlying the utilization of agricultural, forest, recreational, and urban lands. Attention to rural and urban planning and zoning. Prerequisite: Ec 201, 202, 203. Campbell.
- Ec 454, 455, 456. **Economic History of Modern Europe.** (G) 3 hours each term.
The economic development and economic institutions of modern Europe. Fall: beginnings of the Industrial Revolution; winter: the Industrial Revolution, industrial, agricultural, financial, and social changes to 1914; spring: since 1914. Lorwin.
- Ec 458, 459. **Advanced Economic Theory.** (G) 3 hours each term, fall and winter.
Intensive examination of the basic principles of price and distribution theory; complemented by Ec 460. Prerequisite: Ec 375, 376, 377 or graduate standing. Koplin.

- Ec 460. **Theories of Economic Instability.** (G) 3 hours spring.
An examination of the works of leading European and American economists concerning the nature and causes of changes in price and employment levels; critical analysis of proposals for public control of economic fluctuations. Prerequisite: Ec 201, 202, 203. Davis.
- Ec 470, 471, 472. **History of Economic Thought.** (G) 3 hours each term.
The evolution of man's ideas about economic matters; the classical school and the development of modern economic thought. Prerequisite: Ec 201, 202, 203. Campbell.
- Ec 480, 481, 482. **Mathematical Economics.** (G) 3 hours each term.
Construction and fitting of mathematical models of economic life. Prerequisite: Mth 101, 102, 103; Ec 201, 202, 203. Simpson.
- Ec 483. **National Income Analysis.** (G) 3 hours fall.
Analysis of statistical estimates of gross national production, national income, and related series. Emphasis on theory and limitations. Use of forecasting and economic analysis. Prerequisite: Ec 201, 202, 203. Simpson.
- Ec 484. **Correlation Analysis of Economic Data.** (G) 3 hours winter.
Simple and multiple correlation and regression analysis of time series, supply-and-demand studies. Prerequisite: Mth 425, 426. Simpson.
- Ec 485. **Research and Survey Methods in Economics.** (G) 3 hours spring.
Sampling methods used in market research and in surveys of economic data. Prerequisite: Mth 425, 426. Simpson.
- Ec 487, 488, 489. **American Economic History.** (G) 3 hours each term.
All phases of the economic development of the United States. Selby.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

- Ec 501. **Research.** Hours to be arranged.
- Ec 503. **Thesis.** Hours to be arranged.
- Ec 505. **Reading and Conference.** Hours to be arranged.
- Ec 507. **Seminar.** Hours to be arranged.
Economic History. Tattersall.
Government Regulation. Koplin.
History of Economic Thought. Campbell.
Industrial Relations. Kleinsorge.
International Economics. Mikesell.
Money and Credit. Simpson.
Statistical Economics. Simpson.
- Ec 521, 522, 523. **National-Income Analysis and Forecasting.** 2 hours each term.
Investigation of the more important theoretical problems of national-income classification and analysis. Methods and procedures for the use of national-income analysis in economic forecasting. Simpson.
- Ec 524, 525, 526. **Economic Growth and Development.** 3 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, 202, 203; 12 term hours in upper-division social science. Mikesell.
- Ec 529, 530, 531. **Fiscal Theory and Policy.** 3 hours each term.
An intensive study of fiscal theory and its appropriate role in determining financial policies of government. Macy.
- Ec 561, 562, 563. **Income and Employment Theory.** 3 hours each term.
Theory of output as a whole; theories of growth and fluctuations in the economic system, with emphasis on recent literature. Davis.

Ec 575, 576, 577. **Price and Distribution Theory.** 3 hours each term.

Modern developments in the theory of price determination, income distribution, and economic welfare. Davis.

English

Professors: KESTER SVENDSEN (department head), F. G. BLACK, R. H. ERNST (emeritus), H. H. HOELTJE, R. D. HORN, J. C. McCLOSKEY, E. G. MOLL, MARY H. PERKINS (emeritus), W. F. G. THACHER (emeritus).

Associate Professors: ROLAND BARTEL, ALICE H. ERNST (emeritus), J. B. HALL, S. N. KARCHMER, CARLISLE MOORE, J. C. SHERWOOD, C. A. WEGELIN, O. M. WILLARD.

Assistant Professors: R. C. BALL,* S. B. GREENFIELD, E. D. KITTOE, S. N. MAVEETY, T. F. MUNDLE, N. H. OSWALD, HELEN SOEHREN.

Instructors: C. L. ADAMS, CONSTANCE BORDWELL, F. H. CANDELARIA, MARCIA GREEN, R. R. HODGES, JOSEPH HYNES, RUTH JACKSON, GLORIA JOHNSON, Q. G. JOHNSON, R. B. KAPLAN, S. R. KATZ, GLENNIE M. KITTOE, KAREN LANS-DOWNE, L. L. LAWRENCE, W. H. NOLTE, J. M. PRATT, DOROTHY REDDEN, HILARY SIMS, H. Y. STEINER, G. H. STROTHER, J. H. SWEARINGEN.

Fellow: D. G. CANZLER.

Assistants: PATRICIA COONS, J. A. COWAN, J. W. FRALEY, A. W. MCGUIRE, MARCIA NELSON, R. E. REGNIER, DICK SANDERS, SHARON SMITH, CAROL TOMLIN, R. V. UTTERBACK.

THE DEPARTMENT OF ENGLISH offers instruction in English and American literature and in writing. Its lower-division courses are designed to supply the training essential for good writing, to serve as an introduction to humanistic studies, and to impart the fundamental knowledge requisite for a major in English. Its upper-division courses are designed to develop an intelligent and just appreciation of literature, to give some insight into the continuity of literature and the interrelation of literary movements, and to provide the opportunity for a well-rounded knowledge of the history of English and American literature and of the English language.

The department offers undergraduate and graduate major programs in English and American literature and in writing.

Major Requirements. The Department of English expects its majors to acquire, in addition to a knowledge of English literature, a general knowledge of philosophy and 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 B.A. degree.
- (2) English History (Hst 207, 208, 209), History of Western Civilization (Hst 101, 102, 103) *or* History (Sophomore Honors) (SSc 107, 108, 109); and a year sequence in biological or physical science.
- (3) Survey of English Literature (Eng 101, 102, 103), Appreciation of Literature (Eng 104, 105, 106), World Literature (Eng 107, 108, 109), *or* Literature (Sophomore Honors) (AL 101, 102, 103); and Shakespeare (Eng 201, 202, 203).
- (4) Additional courses, as follows:

Major in English Literature. Twenty-seven term hours in upper-division courses in English, with at least 15 hours in the 400 group. To assure variety and distribution of knowledge, these upper-division courses must include: (a) courses in periods of literature, not less than 9 hours; (b) courses in single authors, not

* On sabbatical leave 1959-60.

less than 6 hours; (c) courses in types of literature, major literary expressions, and language, not less than 6 hours. Within this minimum requirement of 27 hours, the student must avoid choosing courses in single authors and periods of literature that involve a repetition of work or concentration on a particular century. Three term hours in American literature may be counted in meeting the requirement. It is expected that at least 3 term hours be devoted to a course dealing with mediæval literature.

Major in American Literature. (a) Twenty-one term hours in American literature, 12 of which must be in upper-division courses and at least 6 in the 400 group. (b) Fifteen term hours in upper-division courses in English literature, including not less than 9 hours in the 400 group; for the satisfaction of this minimum requirement, the student may not count more than 3 hours in nineteenth-century literature; the English major requirement of 6 hours in single-author courses must be satisfied.

Major in Writing. (a) Literature requirement—24 term hours in upper-division courses in English or American literature, including: (i) not more than 9 hours in the 300 group, (ii) not more than 3 hours in nineteenth-century English literature, and (iii) not more than 9 hours in American literature. (b) Writing requirement—9 hours in upper-division courses in writing, of which at least 6 hours must be in the 400 group.

Honors in English. For superior upper-division students, the Department of English offers a program leading to the degree of Bachelor of Arts with Honors (for regulations governing eligibility, see page 67). In addition to satisfying the regular requirements for a major in English, candidates for the degree with honors must submit a thesis that shows an aptitude for independent study and the ability to write good English, and must pass a comprehensive examination. All work in English and related subjects should be of honor grade.

To support the work in honors, the Department of English offers courses in Reading and Conference (Eng 405) and Thesis (Eng 403). The candidate chooses a member of the faculty authorized to give such courses, who acts as his adviser, directs his reading, and oversees his thesis during his junior and senior years. Ordinarily, not more than a total of 3 hours per term, or a total of 18 hours for the two years, may be earned in Reading and Conference and Thesis. In special cases, credit for Reading and Conference may be substituted for major requirements.

State Teachers Certificates. English majors intending to teach in the secondary schools must satisfy the education and subject requirements for a state teacher's certificate (see SCHOOL OF EDUCATION).

Graduate Work. The Department of English offers graduate work in English literature, American literature, and the English language, leading to the M.A. and Ph.D. degrees, and a graduate program in imaginative writing leading to the M.F.A. degree.

The emphasis, in the programs leading to the M.A. and Ph.D. degrees, is upon literary studies. Candidates are expected to have a comprehensive knowledge of English and American literature and a reading knowledge of the English language in all periods of its development.

The department may allow, upon petition, the waiving of the requirement for a thesis for the M.A. degree.

For the Ph.D. degree, the department requires, in addition to a reading knowledge of two modern languages, an elementary knowledge of Latin or Greek.

The graduate program in imaginative writing includes studies in English and American literature, in aesthetics, and in the history and criticism of art, music, and drama, and the production of a sustained piece of imaginative writing of high literary merit.

English Literature

LOWER-DIVISION COURSES

Eng 52. **Corrective Reading.** 1 hour any term.

No-grade course. Designed for students who have difficulties in reading at the college level. Methods for increasing speed and comprehension. Jackson, Willard.

*Eng 101, 102, 103. **Survey of English Literature.** 3 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 both an introduction to literature and 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 the present. Black, Hoeltje, Lawrence, McCloskey, Mundle, Pratt, Strother, Swearingen, Willard.

*Eng 104, 105, 106. **Appreciation of Literature.** 3 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. Adams, Candelaria, Greenfield, Hynes, Q. G. Johnson, Kaplan, Maveety, Mundle, Nolte, Oswald.

*Eng 107, 108, 109. **World Literature.** 3 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. Ball, Candelaria, Wegelin.

Eng 201, 202, 203. **Shakespeare.** 3 hours each term.

Study of the important plays—comedies, histories, and tragedies. Required for majors. Black, Brodeur, Hoeltje, Maveety, McCloskey, Moll, Oswald.

UPPER-DIVISION COURSES

Eng 301. **Tragedy.** 3 hours.

A study of the nature of tragedy and of tragic expression in various literary forms.

Eng 302. **The Prose Tradition in English Literature.** 3 hours.

Thought and attitude of mind in their relation to prose style. Moore.

Eng 303. **Epic.** 3 hours.

The heroic spirit in Western European literature, with emphasis on English literature. Sherwood.

Eng 304. **Comedy.** 3 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. Horn.

Eng 305. **Satire.** 3 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. Oswald.

Eng 306, 307. **The Literature of the English Bible.** 3 hours each term.

Study of the literary qualities of the English Bible, with some reference to its influence on English and American literature. Bartel.

* A student may register for only one of the three sequences: Eng 101, 102, 103; Eng 104, 105, 106; Eng 107, 108, 109.

- Eng 320, 321, 322. **English Novel.** 3 hours each term.
From Richardson and Fielding to the present. Black.
- Eng 394, 395, 396. **Twentieth-Century Literature.** 3 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. Moore.
- Eng 398, 399. **Contemporary Drama.** 3 hours each term.
First term: English and continental romantic drama, the new stage realism, melodrama, and the triumph of naturalism with Ibsen and the Russians; second term: English and American dramatists from Wilde, Shaw, and Galsworthy to O'Neill, Sherwood, Wilder, and Fry. Horn.
- Eng 403. **Thesis for Honors Candidates.** Hours to be arranged.
- Eng 405. **Reading and Conference.** Hours to be arranged.
- Eng 407. **Seminar in Special Authors.** (G) Hours to be arranged.
- Eng 411, 412, 413. **English Drama.** (G) 3 hours each term.
The development of English dramatic forms from the beginnings to Sheridan. Horn.
- Eng 414, 415, 416. **History of Literary Criticism.** (G) 3 hours each term.
Studies in the theory and practice of literary criticism from Plato and Aristotle to the present. Sherwood.
- Eng 420, 421, 422. **Anglo-Saxon.** (G) 3 hours each term.
Grammar; translation of selected passages and the entire *Beowulf*. Required for graduate students in English. Greenfield.
- Eng 425. **Late Mediaeval Literature.** (G) 3 hours.
The literature of the Middle Ages, in relation to the social and literary ideas of the period. Greenfield.
- Eng 428. **Chaucer.** (G) 3 hours.
As much of Chaucer's work read as time permits. Required for graduate students in English. Greenfield.
- Eng 430, 431, 432. **Literature of the Renaissance.** (G) 3 hours each term.
Fall: Renaissance thought; winter: Renaissance epic and prose narrative; spring: English lyric from Wyatt to Herrick. Svendsen.
- Eng 434. **Spenser.** (G) 3 hours.
- Eng 436. **Advanced Shakespeare.** (G) 3 hours.
Intensive study of several plays, with primary emphasis on textual problems and sources. Prerequisite: year sequences in Shakespeare. Svendsen.
- Eng 440, 441, 442. **Seventeenth-Century Literature.** (G) 3 hours each term.
Poetry and prose from Jonson to Dryden studied in relation to the trends of thought and feeling which characterize the century. Black.
- Eng 444. **Milton.** (G) 3 hours.
Svendsen.
- Eng 450, 451, 452. **Eighteenth-Century Literature.** (G) 3 hours each term.
The prose and poetry of the century studied in relation to the social, political, and aesthetic ideas which gave the period its peculiar character. Horn.
- Eng 455. **Pope.** (G) 3 hours.
Sherwood.
- Eng 460, 461, 462. **The Romantic Poets.** (G) 3 hours each term.
Fall: Wordsworth and Coleridge; winter: Scott, Byron, and others; spring: Keats, Shelley, and others. Not offered 1960-61. Moll.

- Eng 463, 464, 465. **The Later Nineteenth-Century Poets.** (G) 3 hours each term.
Fall: Tennyson and Browning; winter: Arnold, the pre-Raphaelites, Swinburne, and others; spring: Morris, Thomson, Thompson, Hopkins, and others. Moll.
- Eng 470, 471, 472. **Nineteenth-Century Prose.** (G) 3 hours each term.
Main currents of thought as reflected in Carlyle, Mill, Newman, Ruskin, Huxley, Arnold, Pater. Moore.
- Eng 487. **Yeats and Joyce.** (G) 3 hours.
The principal works of Yeats and Joyce, considered against the background of the Irish Renaissance. Sherwood.
- Eng 488. **Literature for Teachers.** (g) 3 hours.
For students interested in teaching high-school English. Training in comprehension and analysis of representative literary works. Readings from English and American literature, selected in part from state-adopted high-school texts. Does not apply toward the satisfaction of the minimum requirements for a major in English. Oswald.
- Eng 491. **Introduction to Modern English.** (g) 3 hours.
A general view of modern English vocabulary, grammar, pronunciation, and spelling. Recommended for teachers of English. Willard.
- Eng 492, 493. **The Modern English Language.** (G) 3 hours each term.
English etymology, phonology, morphology, and syntax studied more intensively and with more detailed historical background than in Eng 491. Willard.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

- Eng 501. **Research.** Hours to be arranged.
- Eng 503. **Thesis.** Hours to be arranged.
- Eng 505. **Reading and Conference.** Hours to be arranged.
- Eng 507. **Seminar.** Hours to be arranged.
Old and Middle English.
Sixteenth Century.
Seventeenth Century.
Eighteenth Century.
Nineteenth Century.
Drama.
Criticism.
- Eng 540. **Problems and Methods of Literary Study.** 3 hours fall.
Bibliography and the methods of literary research as an introduction to graduate work. Required for graduate students in English. Svendsen.

COURSES OFFERED ONLY IN SUMMER SESSIONS

- Eng 423, 424. **Types of Prose Fiction.** (G) 3 hours each term.

American Literature

The general purpose of the major in American literature is to provide the student with a background in English literature through a study of the acknowledged masters and the main currents in our English heritage, and to help him to gain an understanding and appreciation of the literature of his own country. For major requirements, see pages 128-129.

LOWER-DIVISION COURSES

- Eng 253, 254, 255. **Survey of American Literature.** 3 hours each term.
American literature from its beginning to the present day. Two consecutive terms will satisfy the high-school teaching requirement in English. Ball, Hodges.

UPPER-DIVISION COURSES

- Eng 323. **American Satire.** 3 hours.
Satire in American literature; its nature, development, and significant contributions to the interpretation of American life. McCloskey.
- Eng 328. **American Drama.** 3 hours.
A study of major American dramatists. McCloskey.
- Eng 329. **Literature of the West.** 3 hours.
The literature of the West, in relation to the frontier, to regionalism, and to movements in our national literature. From Irving and Parkman to Willa Cather and Steinbeck. Hoeltje, Sherwood.
- Eng 391, 392, 393. **American Novel.** 3 hours each term.
Development of the American novel from its beginnings to the present. McCloskey.
- Eng 403. **Thesis for Honors Candidates.** Hours to be arranged.
- Eng 405. **Reading and Conference.** Hours to be arranged.
- Eng 407. **Seminar in Special Authors.** (G) Hours to be arranged.
- Eng 475, 476, 477. **Literary Foundations of American Life.** (G) 3 hours each term.
Study of those authors whose writings have helped to give shape to American thought—from Bradford and the Puritans, through Woolman and Franklin, to Emerson. Required of all majors in American literature who have not taken Eng 253, 254, 255. Two consecutive terms will satisfy the high-school teaching requirement in English. Hoeltje.
- Eng 478, 479, 480. **The Modern Spirit in American Literature.** (G) 3 hours each term.
From Whitman to the present. Wegelin.
- Eng 481, 482, 483. **Major American Writers: The Romantic Idealists.** (G) 3 hours each term.
Fall: Emerson and Thoreau; winter, Hawthorne and Melville; spring: Poe and Lowell. Hoeltje.
- Eng 484, 485, 486. **Major American Writers: The Realists.** (G) 3 hours each term.
Fall: Whitman and Twain; winter: Howells and James; spring: Robinson and Eliot. Not offered 1960-61. Hoeltje.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

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

Writing

The Department of English offers required and elective courses in writing for all University students, to help them develop an ability to express themselves clearly in good English, an undergraduate major in writing leading to the B.A. degree, and a graduate program leading to the M.F.A. degree.

English Composition (Wr 111, 112, 113) is a freshman sequence required of all students in the University; each term's work must be taken in its sequential order. A student who demonstrates, through examinations, that his writing ability meets the standard aimed at in English Composition may be excused from all or

part of this required sequence. Students who do superior work in the first two terms of English Composition may substitute the first term of Advanced Writing (Wr 211) for Wr 113. Students planning to major in writing are advised to complete at least 6 term hours in Wr 211, 212, 213.

Students who receive a low rating in a placement examination given to all entering freshmen are required to take Corrective English (Wr 50) before they are permitted to register for English Composition.

The undergraduate major is planned to provide an opportunity for students of demonstrated talent to develop their abilities through practice in a variety of literary forms. Seniors are expected to undertake a sustained project of some length, such as a novel, a biography, a long poem or play, etc. Concerning the graduate program, see page 129.

LOWER-DIVISION COURSES

Wr 50. **Corrective English.** 1 hour any term.

No-grade course. One-term course in the mechanics of English, required of freshmen who receive low ratings in an entrance placement examination. For such students Wr 50 is a prerequisite for any other course in written English.

Wr 111, 112, 113. **English Composition.** 3 hours any term.

The fundamentals of English composition; frequent written themes. Special attention to correctness in fundamentals and to the organization of papers. Sherwood, staff.

Wr 211, 212, 213. **Advanced Writing.** 3 hours each term.

An introductory sequence for students interested in the techniques of writing and in the development of a critical appreciation of the art of writing in its varied forms. Fall: general consideration of style; winter and spring: criticism, essentials of the short story, fundamentals of playwriting and poetry writing. Prerequisite: Wr 111, 112 with grade A or B; Wr 113 with grade of B; or consent of instructor. Hall, Karchmer.

Wr 214. **Business English.** 3 hours any term.

Study of modern practices in business correspondence, primarily for students of business administration. Analysis and writing of the principal types of correspondence. Prerequisite: Wr 111, 112, 113. Kittoe.

Wr 215. **Report Writing.** 2 hours.

Study of the form, content, and language of common types of reports. The student writes one long, complete formal report and a number of short reports. Prerequisite: Wr 111, 112, 113. Kittoe.

Wr 216. **Expository Writing.** 3 hours.

Practice in various forms of expository writing. Soehren.

UPPER-DIVISION COURSES

Wr 317. **Advanced Expository Writing.** 3 hours.

Bartel, Soehren.

Wr 321, 322, 323. **Play Writing.** 3 hours each term.

Creative experiment in the writing of plays, with incidental study of models. Analysis and discussion of student work. Prerequisite: consent of instructor. Karchmer.

Wr 324, 325, 326. **Short-Story Writing.** 3 hours each term.

For students interested in creative writing or in professional writing for magazines. Prerequisite: consent of instructor. Hall, Karchmer.

Wr 341, 342, 343. **Poetry Writing.** 2 hours each term.

Verse writing; study of various verse forms as mediums of expression. Analysis of class work. Prerequisite: consent of instructor. Hall.

Wr 408. **Individual Instruction.** Hours to be arranged.

Wr 411. English Composition for Teachers. (g) 3 or 4 hours.

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

Wr 420, 421, 422. Novel Writing. 3 hours each term.

Designed to provide apprentice training in the 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. Prerequisite: consent of instructor. Hall, Karchmer.

Wr 451, 452, 453. Projects in Writing. 3 hours each term.

For students who desire advanced instruction and practice in writing short stories, novels, television dramas, nonfiction, etc. Prerequisite: consent of instructor. Hall, Karchmer.

GRADUATE COURSE

Wr 503. Thesis. Hours to be arranged.

Foreign Languages

Professors: D. M. DOUGHERTY (department head), C. B. BEALL, F. M. COMBEL-LACK, JOAQUÍN GONZÁLEZ-MUELA, C. L. JOHNSON, E. P. KREMER (emeritus), L. O. WRIGHT (emeritus).

Associate Professors: H. E. BOWMAN,* P. J. POWERS, D. S. WILLIS.

Assistant Professors: G. F. ANDERSON, HUGO BEKKER, N. J. DAVISON, R. E. GRIMM, EDNA LANDROS (emeritus), FRANZ LANGHAMMER, W. A. LEPP-MANN, T. E. MARSHALL, R. E. STEUSSY, ASTRID M. WILLIAMS.

Instructors: J. N. AUSTIN, NICHOLAS CHICKERIN, J. D. DANDLIKER, R. H. DES-ROCHES, EMMANUEL HATZANTONIS, R. J. HAVERS, ELISABETH MARLOW, MARY RODMAN, R. L. SMITH, ANNE-MARIE WORTLEY.

Assistants: B. A. ARCHIBALD, PAULE DRAYTON, R. J. ELKINS, GENEVIEVE FUJIMOTO, E. W. IRVING, DONNA MCMANIS, N. M. MCRAE, D. A. NEWBERRY, VINCENZ PANNY, LEONA PUMULA, M. E. SMITH, FRIEDER TREUMANN, J. T. WETZEL, J. R. WILLEY, R. A. WILTSHIRE, K. S. WU.

THE DEPARTMENT OF FOREIGN LANGUAGES offers instruction in Chinese, French, German, Greek, Italian, Japanese, Latin, Norwegian, Russian, Spanish, and Swedish. The undergraduate course offerings have been planned to provide: (1) an introduction to the nature and structure of language as a basic aspect of human culture; (2) an introduction to the principal literatures of the world; (3) major programs in Greek, Latin, French, German, Spanish, and Russian; (4) a reading knowledge of languages required of candidates for advanced degrees; and (5) proficiency in speaking, understanding, and writing of French, German, Italian, Russian, and Spanish.

Major Requirements. Departmental requirements for the Bachelor of Arts degree with a major in the Department of Foreign Languages are as follows:

Classical Languages. Twenty-four term 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 or in French or German.

* On sabbatical leave 1959-60.

French, German, Russian, or Spanish. Thirty term hours beyond the second-year sequence—normally survey of literature, composition and conversation, and two additional upper-division year sequences (at least one a literature sequence).

Romance Languages, Modern Languages, Classical and Modern Languages. Thirty term hours beyond the second-year sequence in one language and 15 term hours beyond the second-year sequence in a second language, including one upper-division literature sequence in each language.

Honors in Foreign Languages. For superior upper-division students, the Department of Foreign Languages offers a program of study leading to the degree of Bachelor of Arts with Honors (for regulations governing eligibility, see page 67). Honors candidates present a thesis and pass a comprehensive examination.

Graduate Study. The Department of Foreign Languages offers programs of graduate study leading to the degree of Master of Arts in Greek, Latin, classical languages, German, French, Spanish, and Romance languages, and to the degree of Doctor of Philosophy in Romance languages. For the master's degree, courses are offered in the languages and literatures of Greece, Rome, Germany, France, Spain, and Spanish America; preferably, the student's program should include work in two of these fields. For the doctorate, opportunities for advanced study are provided in the French and Spanish fields, supplemented by offerings in Italian and Latin. The doctoral program is intended primarily to prepare college teachers and research scholars. Doctoral studies may center in the investigation of a single problem, the results of which are embodied in the dissertation, or may be more broadly cultural, with less emphasis on research.

The resources of the University Library for research in classical languages, French, Spanish, and German are adequate for the department's graduate programs; in some fields they are outstanding. The Library's holdings of learned journals are extensive; one journal, *COMPARATIVE LITERATURE*, is edited in the department.

State Teacher's Certificate. Foreign-language majors who plan to teach in the secondary schools must satisfy the education and subject requirements for a state teacher's certificate (see *SCHOOL OF EDUCATION*).

Classical Languages

Greek

LOWER-DIVISION COURSES

CL 50, 51, 52. **First-Year Greek.** 4 hours each term.

Thorough study of the forms and syntax of Attic Greek. Reading of selected passages from Xenophon's *Anabasis*. Grimm.

CL 101, 102, 103. **Second-Year Greek: Works of Homer and Plato.** 4 hours each term.

Fall and winter: Homer's *Iliad*, I-VI; practice in reading Greek verse; lectures and discussion on Homer and his times. Spring: Plato's *Euthyphro*, *Crito*, and *Apology*. Same as CL 314, 315, 316, but may not be counted for upper-division credit. Grimm.

CL 231, 232, 233. **New Testament Greek.** 4 hours each term.

Prerequisite: one year of college Greek. Combella, McRae.

UPPER-DIVISION COURSES

AL 304, 305, 306. **Literature of the Ancient World.** 3 hours each term.

For description, see page 106. Combella.

- CL 314, 315, 316. **Second-Year Greek: Works of Homer and Plato.** 4 hours each term.
For description, see CL 101, 102, 103. Not open to students who have completed that sequence. Grimm.
- CL 317, 318, 319. **Greek Tragedy.** 3 hours each term.
Selected plays of Euripides and Sophocles; survey of the history of Greek drama and of Greek stage antiquities. Prerequisite: two years of college Greek. Combella.
- CL 321, 322, 323. **Greek Historians.** 2 hours each term.
Herodotus, Thucydides, and Xenophon. Lectures on the minor historians. Fall: Persian Wars. Winter: Sicilian Expedition. Spring: selected portions of Xenophon's *Hellenica*. Prerequisite: two years of college Greek. Combella.
- CL 351, 352, 353. **Greek Prose Composition.** 1 hour each term.
Practice in the writing of Attic prose. Special attention to syntax, word order, use of particles. Prerequisite: two years of college Greek. Combella.
- CL 405. **Reading and Conference.** Hours to be arranged.
- CL 407. **Greek Seminar.** (g) Hours to be arranged.
- CL 411, 412, 413. **Plato and Aristotle.** (G) 3 hours each term.
Plato's *Republic*; Aristotle's *Ethics* and *Politics*. Emphasis on Plato's literary art and on his attitude toward literature; Aristotle's relationship to Plato. Prerequisite: two years of college Greek. Combella.
- CL 414, 415, 416. **Attic Orators.** (G) 2 hours each term.
The beginnings and development of Attic oratory. Readings from Lysias, Aeschines, Demosthenes, and Isocrates. Lectures and discussion on ancient rhetoric. Prerequisite: two years of college Greek. Combella.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

- CL 503. **Thesis.** Hours to be arranged.
- CL 505. **Reading and Conference.** Hours to be arranged.
- CL 507. **Greek Seminar.** Hours to be arranged.
- CL 517, 518, 519. **Studies in Greek Literature.** Hours to be arranged.
Introduction to methods and materials for research in the classics. Special attention to literary problems. Intensive study of one of the following: Homer's *Odyssey*, Sophocles, Thucydides, Plato's *Republic*, Alexandrian poetry. Combella.

Latin

LOWER-DIVISION COURSES

- CL 60, 61, 62. **First-Year Latin.** 4 hours each term.
The fundamentals of Latin; reading of three books of Caesar's *Gallic Wars*. Austin.
- CL 104, 105, 106. **Second-Year Latin.** 4 hours each term.
Brief review of Latin grammar. Reading of selected passages from Cicero and from Virgil's *Aeneid*. Prerequisite: one year of college Latin or two years of high-school Latin. Austin.
- CL 204, 205, 206. **Latin Literature: Augustan Age.** 3 hours each term.
Virgil, *Eclogues*; Livy, Books I and II; Horace, *Odes*; selections from other Augustan writers. Close study of poetic technique of Virgil and Horace. Same as CL 331, 332, 333, but may not be counted for upper-division credit. Prerequisite: two years of college Latin or equivalent. Grimm.

UPPER-DIVISION COURSES

- CL 331, 332, 333. **Latin Literature: Augustan Age.** 3 hours each term.
For description, see CL 204, 205, 206. Not open to students who have completed that sequence. Grimm.
- CL 341, 342, 343. **Latin Literature: Silver Age.** 3 hours each term.
Tacitus, *Agricola* and *Germania*; Pliny, selected *Letters*; Martial, selected *Epigrams*; Suetonius, selected *Lives*. Prerequisite: two years of college Latin or equivalent. Grimm.
- CL 344, 345, 346. **Latin Literature: Ovid.** 2 hours each term.
Reading of the major myths in the fifteen books of the *Metamorphoses*. Study of prosody and practice in reading of Latin verse. Grimm.
- CL 347, 348, 349. **Latin Composition.** 2 hours each term.
Survey of classical Latin syntax; extensive practice in prose composition; Close study of poetic techniques; practice in verse composition. Designed for majors and prospective teachers. Prerequisite: two years of college Latin or equivalent. Grimm.
- CL 361, 362, 363. **Latin Literature: Republican Period.** 3 hours each term.
Catullus, selected poems; Lucretius, *De Rerum Natura*, Book I and selections; Cicero, *Tusculan Disputations*, Book I; Sallust, *The Conspiracy of Catiline*. Study of the social, political, and literary movements which culminated in the death of the Republic and the birth of the Empire. Prerequisite: two years of college Latin or equivalent. Grimm.
- CL 405. **Reading and Conference.** Hours to be arranged.
- CL 408. **Latin Seminar.** (g) Hours to be arranged.
- CL 461, 462, 463. **Latin Literature: Historians.** (G) 3 hours each term.
A general survey of Latin historiography from its beginnings to about A.D. 400. Reading concentrated mainly in Livy, Tacitus, and Ammianus Marcellinus. Lectures and reports. Intensive study of Livy's style. Combella.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

- CL 503. **Thesis.** Hours to be arranged.
- CL 505. **Reading and Conference.** Hours to be arranged.
- CL 508. **Latin Seminar.** Hours to be arranged.
- CL 511, 512, 513. **Readings in Mediaeval Latin.** Hours to be arranged.
- CL 514, 515, 516. **Studies in Latin Literature.** Hours to be arranged.
Intensive studies of one of the following, with special attention to literary problems: Latin epic, Lucretius, Augustan elegy. Combella, Grimm.

Germanic Languages

German

LOWER-DIVISION COURSES

- GL 50, 51, 52. **First-Year German.** 4 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. Bekker, Dandliker, Leppmann, Marlow.
- GL 53, 54. **First-Year German.** 6 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. Panny.

GL 101, 102, 103. **Second-Year German.** 4 hours each term.

Review of grammar and composition; reading of selections from representative authors; conversation. Williams, Bekker, Langhammer, Leppmann.

GL 201, 202, 203. **Survey of German Literature.** 3 hours each term.

German literature from the Middle Ages to the present; readings from representative authors. Same as GL 343, 344, 345, but may not be counted for upper-division credit. Prerequisite: two years of college German. Williams.

UPPER-DIVISION COURSES

AL 314, 315, 316. **Introduction to Germanic Literature.** 3 hours each term.

For description, see page 106.

GL 320, 321, 322. **Scientific German.** 3 hours each term.

Intensive practice in grammar, followed by the reading of texts in the student's major field. Intended principally for graduate students. No prerequisite. Bekker.

GL 334, 335, 336. **Intermediate German Conversation and Composition.** 2 hours each term.

Extensive practice in speaking and writing. Required of German majors. Conducted in German. Prerequisite: two years of college German or equivalent. Langhammer.

GL 340, 341, 342. **German Culture and Civilization.** 2 hours each term.

Historical and political backgrounds of German literature and art. Prerequisite: reading knowledge of German.

GL 343, 344, 345. **Survey of German Literature.** 3 hours each term.

For description, see GL 201, 202, 203. Not open to students who have completed that sequence. Williams.

GL 403. **Thesis.** Hours to be arranged.

GL 405. **Reading and Conference.** 1 to 3 hours any term.

GL 407. **Seminar.** (g) Hours to be arranged.

GL 411, 412, 413. **The Age of Goethe.** (G) 3 hours each term.

Readings in the main dramatic works of Lessing, Schiller, Kleist, and Goethe; Goethe's lyric poetry and selections from his prose. The spring term is devoted to the study of *Faust*. Prerequisite: survey of German literature. Leppmann.

GL 414, 415, 416. **German Literature of the Nineteenth Century.** (G) 3 hours each term.

Selections from significant authors from the death of Goethe to the flowering of naturalism. Plays of Hebbel and Grillparzer; Heine and the Young Germans; the novels and *Novellen* of Keller; the rise of naturalism and the young Hauptmann. Prerequisite: survey of German literature. Langhammer.

GL 421, 422, 423. **German Literature of the Twentieth Century.** (G) 3 hours each term.

Representative prose, poetry, and drama by contemporary German authors and those of the recent past; particular attention to experimental forms in the theater, from Hauptmann to Zuckmayer, and to the novels of Thomas Mann and Hermann Hesse. Prerequisite: survey of German literature. Leppmann.

GL 424, 425, 426. **Advanced German Composition and Conversation.** (G) 2 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. Leppmann.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

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

GL 505. **Reading and Conference.** 1 to 3 hours any term.

GL 507. **Seminar.** Hours to be arranged.

Humanism and the Reformation.
The German Baroque.

GL 511, 512, 513. **The German Lyric.** 3 hours each term.

Study of German lyric poetry from the Middle Ages 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, and Rilke. Leppmann.

GL 514, 515, 516. **Middle High German.** 3 hours each term.

Literary and linguistic study of representative texts: the *Nibelungenlied*, *Minnesang*, popular and courtly epics and lyrics, didactic works.

Scandinavian

LOWER-DIVISION COURSES

GL 60, 61, 62. **First-Year Norwegian.** 3 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. Williams.

GL 70, 71, 72. **First-Year Swedish.** 3 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. Williams.

GL 104, 105, 106. **Second-Year Norwegian.** 3 hours each term.

Review of grammar, composition, conversation; study of selections from representative authors. Williams.

GL 107, 108, 109. **Second-Year Swedish.** 3 hours each term.

Review of grammar, composition, conversation; study of selections from representative authors. Williams.

UPPER-DIVISION COURSES

AL 351, 352, 353. **Scandinavian Literature in Translation.** 3 hours each term.

For description, see page 107. Williams.

Oriental Languages

LOWER-DIVISION COURSES

OL 50, 51, 52. **First-Year Chinese.** 4 hours each term.

Colloquial Pekingese Mandarin; reading and writing 573 Chinese characters; reading of essays and stories designed to present systematically the structure and patterns of the Chinese sentence. Willis.

OL 60, 61, 62. **First-Year Japanese.** 4 hours each term.

Conversational Japanese, including the reading and writing of 303 Chinese characters (*kanji*) and the two phonetic syllabaries (*hiragana* and *katakana*); systematic presentation of the structure and patterns of the Japanese sentence. Willis, Dull.

OL 70, 71, 72. **Second-Year Chinese.** 4 hours each term.

Continuation of OL 50, 51, 52; 810 new Chinese characters; designed to increase fluency of translation, reading, and writing. Willis.

OL 80, 81, 82. **Second-Year Japanese.** 4 hours each term.

Colloquial and literary Japanese (*bungo*); 487 new Chinese characters (*kanji*); reading of essays and stories. Willis.

UPPER-DIVISION COURSES

AL 317, 318, 319. **Introduction to Chinese and Japanese Literature.** 3 hours each term.

For description, see page 106. Willis.

OL 405. **Reading and Conference.** 1 to 3 hours.

Romance Languages

French

LOWER-DIVISION COURSES

RL 50, 51, 52. **First-Year French.** 4 hours each term.

An introduction to French, stressing reading and speaking. Exercises in elementary composition and grammar. Desroches, Hatzantonis, Havers, Marshall, Wortley.

RL 53, 54. **First-Year French.** 6 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. Rodman.

RL 101, 102, 103. **Second-Year French.** 4 hours each term.

Study of selections from representative authors; review of grammar; considerable attention to oral use of the language. Desroches, Havers, Marlow, Marshall, Wortley.

RL 201, 202, 203. **Survey of French Literature.** 3 hours each term.

French literature from the Middle Ages to the present; readings from representative authors. Same as RL 311, 312, 313, but may not be counted for upper-division credit. Prerequisite: two years of college French or equivalent. Desroches, Johnson, Marshall.

UPPER-DIVISION COURSES

RL 311, 312, 313. **Survey of French Literature.** 3 hours each term.

For description, see RL 201, 202, 203. Not open to students who have completed that sequence. Desroches, Johnson, Marshall.

RL 314, 315, 316. **Intermediate French Composition and Conversation.** 2 hours each term.

Exercises in pronunciation, comprehension, and composition. Ample opportunity for conversation. Conducted in French. Prerequisite: two years of college French or equivalent. Desroches, Marlow, Marshall.

RL 331, 332, 333. **French Pronunciation and Phonetics.** 2 hours each term.

A thorough study of the fundamentals of French pronunciation, with personal attention to each student's difficulties. Prerequisite: two years of college French or equivalent. Johnson, Dougherty, Wortley.

RL 403. **Thesis.** Hours to be arranged.

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

RL 411, 412, 413. **Seventeenth-Century French Literature.** (G) 3 hours each term.

Systematic study of the principal movements, types, and writers, with special emphasis on Pascal, Corneille, Molière, and Racine. Prerequisite: survey of French literature. Dougherty.

RL 417, 418, 419. **Nineteenth-Century French Literature.** (G) 3 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: survey of French literature. Johnson.

- RL 423, 424, 425. **Twentieth-Century French Literature.** (G) 3 hours each term.
Study of the writers and dominant literary currents in France since 1900. Readings, lectures, and recitations. Conducted in French. Prerequisite: survey of French literature. Wortley.
- RL 429, 430, 431. **French Culture and Civilization.** (G) 3 hours each term.
The political and social backgrounds of French literature; introduction to French music and art. Prerequisite: reading knowledge of French. Johnson.
- 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. Prerequisite: RL 314, 315, 316 or equivalent. Wortley.

GRADUATE COURSES

Courses number 400-499 and designated (G) may be taken for graduate credit.

- RL 503. **Thesis.** Hours to be arranged.
- RL 505. **Reading and Conference.** Hours to be arranged.
- RL 507. **French Seminar.** Hours to be arranged.
- RL 514, 515, 516. **Eighteenth-Century French Literature.** 3 hours each term.
Study of the principal authors of the Enlightenment, particularly in their relationships to European currents of thought; emphasis on Montesquieu, Voltaire, Rousseau, and the Encyclopaedists. Beall.
- RL 517, 518, 519. **Sixteenth-Century French Literature.** 3 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. Beall.
- RL 538, 539, 540. **Old French Readings.** 2 hours each term.
Study of the principal mediaeval genres; epic, romance, chronicles, lyric poetry, and drama. Special attention to works of fourteenth and fifteenth centuries.
- RL 544. **François Villon.** 3 hours.
Study of the entire work of Villon. Dougherty.
- RL 545. **Ronsard.** 3 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. Beall.
- RL 546. **Molière.** 3 hours.
Study of eight principal comedies of Molière. Dougherty.
- RL 547. **Voltaire.** 3 hours.
Study of Voltaire's social satire and historical prose. Beall.
- RL 548. **Baudelaire.** 3 hours.
Study of all the works of Baudelaire. Johnson.
- RL 549. **Paul Valéry.** 3 hours.
Intensive study of representative works of Paul Valéry. Lecuyer.

Italian

LOWER-DIVISION COURSES

- RL 70, 71, 72. **First-Year Italian.** 3 hours each term.
Grammar, pronunciation, composition, and translation of modern authors. Hatzantonis.

- RL 104, 105, 106. **Second-Year Italian.** 3 hours each term.
Study of selections from representative authors. Composition, pronunciation, grammar. Hatzantonis.

UPPER-DIVISION COURSES

- RL 371, 372, 373. **Third-Year Italian.** 3 hours each term.
Reading of selections from representative works of great authors. Reports. Outline of Italian literature. Beall, Hatzantonis.
- RL 405. **Reading and Conference.** Hours to be arranged.
- RL 474, 475, 476. **Fourth-Year Italian.** (g) 2 hours each term.
Emphasis upon the classical writers. Beall.
- AL 477, 478, 479. **Dante and His Times.** (g) 3 hours each term.
For description, see page 107. Beall.

Spanish

LOWER-DIVISION COURSES

- RL 60, 61, 62. **First-Year Spanish.** 4 hours each term.
An introduction to Spanish, stressing speaking and reading. Exercises in elementary composition. Anderson, R. L. Smith, Wright.
- RL 63, 64. **First-Year Spanish.** 6 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. Irving.
- RL 107, 108, 109. **Second-Year Spanish.** 4 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. González-Muela, Davison, Anderson, R. Smith.
- RL 207, 208, 209. **Survey of Spanish Literature.** 3 hours each term.
Spanish literature from the Middle Ages to the present; readings from representative texts. Same as RL 341, 342, 343, but may not be counted for upper-division credit. Prerequisite: two years of college Spanish or equivalent. Powers, González-Muela, Anderson.

UPPER-DIVISION COURSES

- RL 341, 342, 343. **Survey of Spanish Literature.** 3 hours each term.
For description, see RL 207, 208, 209. Not open to students who have completed that sequence. Powers, González-Muela, Anderson.
- RL 347, 348, 349. **Intermediate Spanish Composition and Conversation.** 2 hours each term.
Fundamentals of pronunciation. Extensive oral and written practice. Conducted in Spanish. Prerequisite: two years of college Spanish. Davison, Anderson.
- RL 350, 351. **Spanish Pronunciation and Phonetics.** 2 hours each term.
Scientific study of Spanish sounds, rhythms, and intonation. Supervised practice, with individual use of recording equipment. Prerequisite: consent of instructor. Wright.
- RL 403. **Thesis.** Hours to be arranged.
- RL 405. **Reading and Conference.** Hours to be arranged.
- RL 438, 439, 440. **Nineteenth-Century Spanish Literature.** (G) 3 hours each term.
Reading and study of representative works in drama, poetry, and prose from the romanticists to the Generation of 1898. Conducted in Spanish. Prerequisite: survey of Spanish literature. Powers.

- RL 441, 442, 443. **Modern Spanish Literature.** (G) 3 hours each term.
Modern Spanish literature beginning with the Generation of 1898. Principal types and authors. Extensive reading of texts. Conducted in Spanish. Prerequisite: survey of Spanish literature. González-Muela.
- RL 444, 445, 446. **Spanish-American Literature.** (G) 3 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: survey of Spanish literature. Davison.
- RL 451, 452, 453. **Spanish Literature of the Golden Age.** (G) 3 hours each term.
Study of the outstanding authors of Spain's classical period: Garcilaso, Cervantes, Lope de Vega, Calderón, Quevedo, Góngora, and others. Prerequisite: survey of Spanish literature. Powers.
- RL 461, 462, 463. **Advanced Spanish Composition and Conversation.** (G) 2 or 3 hours each term.
Normally required of Spanish majors. Prerequisite: RL 347, 348, 349 or equivalent. Conducted in Spanish. González-Muela.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

- RL 503. **Thesis.** Hours to be arranged.
- RL 505. **Reading and Conference.** Hours to be arranged.
- RL 508. **Spanish Seminar.** Hours to be arranged.
- RL 541, 542, 543. **Old Spanish Readings.** 2 hours each term.
Study of representative texts of the three centuries preceding the Golden Age. Development of the principal genres: the chronicle, the ballad, the romance. Detailed study of *El Libro de Buen Amor*, *El Conde Lucanor*, and *Amadís de Gaula*.
- RL 554, 555, 556. **Drama of the Golden Age.** 3 hours each term.
Interpretation and criticism of selected comedies 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.** 3 hours each term.
Leading "modernista" poets, essayists, and short-story writers: Darío, Rodó, Quiroga, A. Machado, Valle Inclán, and others. Effect of their reform on literary language and style. Conducted in Spanish. Davison.
- RL 561, 562, 563. **Spanish-American Novel.** 3 hours each term.
Study of the development of the novel as a literary form in Spanish America. Conducted in Spanish. Davison.

Romance Philology

GRADUATE COURSES

- RL 520, 521, 522. **Old French.** 3 hours each term.
Phonology and morphology. Reading of principal literary monuments. History of French literature through the thirteenth century. Dougherty.
- RL 523, 524, 525. **Vulgar Latin and Old Provençal.** 2 hours each term.
- RL 535, 536, 537. **Old Spanish.** 3 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. González-Muela.

Slavic Languages

LOWER-DIVISION COURSES

- SL 50, 51, 52. **First-Year Russian.** 4 hours each term.
The elements of the Russian language. Elementary reading, composition, and conversation. Bowman, Steussy, Chicherin.
- SL 101, 102, 103. **Second-Year Russian.** 4 hours each term.
Continued study of grammar and composition; reading of representative works by great authors. Bowman, Steussy.
- SL 201, 202, 203. **Readings in Russian Literature.** 3 hours each term.
Study in Russian of selected literary masterpieces of the modern period. Same as SL 311, 312, 313, but may not be counted for upper-division credit. Bowman, Steussy.

UPPER-DIVISION COURSES

- SL 311, 312, 313. **Readings in Russian Literature.** 3 hours each term.
For description, see SL 201, 202, 203. Not open to students who have completed that sequence. Bowman. Steussy.
- SL 314, 315, 316. **Intermediate Russian Composition and Conversation.** 2 hours each term.
Exercises in pronunciation, comprehension, and composition; ample opportunity for conversation. Conducted in Russian. Prerequisite: two years of college Russian or equivalent. Bowman.
- AL 331, 332, 333. **Survey of Russian Literature.** 3 hours each term.
Russian literature from 1825 to 1917, with extensive reading in the works of Gogol, Dostoevsky, and Tolstoy. Bowman.
- AL 340, 341, 342. **Russian Culture and Civilization.** 3 hours each term.
Main currents of Russian intellectual, literary, and artistic life. Bowman.
- SL 403. **Thesis.** Hours to be arranged.
- SL 405. **Reading and Conference.** Hours to be arranged.
- SL 407. **Seminar.** (g) Hours to be arranged.
- AL 411, 412, 413. **The Russian Novel.** (g) 3 hours each term.
Fall: Pushkin, Gogol, Goncharov, Turgenev; winter: Dostoevsky; spring: Tolstoy. Knowledge of the Russian language not required; but Russian majors must do selected readings in the original. Offered alternate years. Bowman.
- AL 421, 422, 423. **Modern Russian Short Story, Poetry, Drama.** (g) 3 hours each term.
Fall: the short story—Gogol, Turgenev, Dostoevsky, Tolstoy, Chekhov, Gorky, Soviet authors; winter: poetry—evolution of Russian poetry from the beginnings into the Soviet period, with selected readings; spring: drama—modern Russian drama from the eighteenth century. Knowledge of Russian not required; but Russian majors must do selected readings in the original. Offered alternate years. Bowman.
- SL 461, 462, 463. **Advanced Russian Composition and Conversation.** (g) 2 hours each term.
Extensive oral practice and composition of original themes. Conducted in Russian. Normally required of Russian majors. Prerequisite: SL 314, 315, 316 or equivalent.

Geography

Professor : S. N. DICKEN (department head).

Associate Professor : C. P. PATTON.

Assistant Professors : C. L. JOHANNESSEN, G. E. MARTIN, F. R. PITTS.

Assistants : D. E. GRAHAM, R. D. SMITH, T. A. TIBBETS, PETER VAN DUSEN.

THE DEPARTMENT OF GEOGRAPHY serves three classes of students: (1) professional major students; (2) nonprofessional major students who wish to build a broad cultural education around a central interest in geography; and (3) students majoring in other fields who wish some acquaintance with the contribution of geography to the understanding of the world and its problems.

The department offers work in four fields of specialization for major students: (1) cultural geography, including economic, urban, and population geography; (2) physical geography, including climatology and geomorphology; (3) regional geography; and (4) techniques and methodology, including cartography, the interpretation of aerial photographs, and field geography.

High-school students planning to major in geography at the University are advised to include in their high-school program: algebra, plane geometry, trigonometry, geography, physics, chemistry, general science.

Major Curriculum in Geography. The following course are required for an undergraduate professional major in geography:

Lower Division. Introductory Geography (Geog 105, 106, 107) or World Economic Geography (Geog 201, 202, 203); General Geology (Geol 101, 102).

Upper Division. Geography of North America (Geog 301, 302, 303); Climatology (Geog 390); Geomorphology (Geog 391); Field Geography (Geog 421, 422); Geography Seminar (Geog 407); additional courses in geography to make a total of 45 hours, including 36 upper-division hours.

It is strongly recommended that the student limit his work in geography to not more than 53 hours.

For the nonprofessional undergraduate major, a total of 45 hours in geography are required, of which 36 must be upper division. The 36 upper-division hours must include 9 hours in physical geography.

Graduate Study. The department offers graduate work leading to the M.A., M.S., and Ph.D. degrees. To qualify for the master's degree the student must complete successfully 45 term hours of graduate work, of which 36 hours must be in the field of geography. All candidates are required to complete 9 hours in advanced physical geography, 9 hours in advanced cultural geography, and 6 hours in geography seminars at the 500 level. The student's preparation for graduate work must include undergraduate courses in cartography, field geography, and physical geography.

Fields of Study. The courses in geography fall into four broad fields: (1) cultural geography, (2) physical geography, (3) regional geography, and (4) techniques and methodology. The student's program may be enriched through related courses offered by other schools and departments of the University. The courses in each of these four broad fields of geography, together with closely related courses in other divisions, are listed below:

Cultural Geography

Introductory Geography (Geog 106, 107)
 Political Geography (Geog 320)
 Urban Geography (Geog 435)
 Adv. Cultural Geography (Geog 515, 516,
 517)

RELATED COURSES

Intro. to Cultural Anthropology (Anth 207,
 208, 209)
 Peoples of the World (Anth 314, 315, 316)
 Beginnings & Development of Civilizations
 (Anth 420, 421, 422)

Principles of Economics (Ec 201, 202, 203)
 Economics of Public Utilities & Transporta-
 tion (Ec 335)
 Urban Politics (PS 416)
 Social Psychology (Psy 334, 335)
 General Sociology (Soc 204, 205, 206)
 Community Structure & Social Organization
 (Soc 431, 432)
 World Population & Social Structure (Soc
 308)

Physical Geography

Introductory Geography (Geog 105)
 Climatology (Geog 390)
 Geomorphology (Geog 391)
 Regional Geomorphology (Geog 392)
 Adv. Physical Geography (Geog 511, 512,
 513)

RELATED COURSES

General Biology (Bi 101, 102, 103)

Principles of Ecology (Bi 464, 465, 466)
 Systematic Botany (Bi 334)
 General Geology (Geol 101, 102, 103)
 General Chemistry (Ch 201, 202, 203)
 Elementary Meteorology (Ph 105)
 General Physics (Ph 201, 202, 203)

Regional Geography

World Economic Geography (Geog 201, 202,
 203)
 Geography of North America (Geog 301, 302,
 303)
 Geography of Europe (Geog 426)
 Geography of the Soviet Union (Geog 427)
 Geography of Asia (Geog 451, 452, 453)
 Geography of Latin America (Geog 461, 462)
 Geography of Africa (Geog 432)

RELATED COURSES

Peoples of the Pacific (Anth 423, 424, 425)
 Peoples of Africa (Anth 435)
 Peoples of the Near East (Anth 436)
 Peoples of Interior Asia (Anth 437)
 Peoples of Southern & Eastern Asia (Anth
 438, 439, 440)

Economic Problems of the Pacific (Ec 345)
 Economy of the Pacific Northwest (Ec 415)
 International Economics (Ec 440, 441, 442)
 Economic History of Modern Europe (Ec 466,
 467, 468)
 American Economic History (Ec 487, 488,
 489)
 Far East in Modern Times (Hst 391, 392,
 393)
 Hispanic America (Hst 350, 351, 352)
 History of Russia (Hst 447, 448, 449)
 International Relations (PS 205)
 Governments of Southeast Asia (PS 317, 318)
 Far Eastern Governments & Politics (PS 330,
 331, 332)

Techniques and Methodology

Cartography (Geog 334, 335, 336)
 Field Geography (Geog 421, 422)
RELATED COURSES
 Applied Anthropology (Anth 454)
 Linguistics (Anth 441, 442, 443)
 Use of the Library (Lib 117)
 Bibliography & Reference (Lib 381)
 Elements of Statistical Methods (Mth 425,
 426, 427)

Essentials of Photography (Ph 161)
 Introduction to Social Research (Soc 327)
 Seminar: Interviewing (Soc 407)
 Seminar: Theory Building (Soc 507)
 Theory & Methods of Population Analysis
 (Soc 435)
 Advanced Expository Writing (Wr 317)
 City Planning I (AA 353, 354, 355)
 City Planning II (AA 499)

LOWER-DIVISION COURSES

Geog 105, 106, 107. **Introductory Geography.** 3 hours each term.

A general introduction to the field of geography, in sequence as follows: Geog 105, physical elements; Geog 106, 107, cultural elements. 2 lectures; 1 quiz period. Patton, Martin, Pitts.

Geog 201, 202, 203. **World Economic Geography.** 3 hours each term.

A study of the major types of production and their geographic background.

UPPER-DIVISION COURSES

Geog 301, 302, 303. **Geography of North America.** 3 hours each term.

Physical and economic geography of the North American continent north of Mexico. Fall: Oregon; winter: western United States and western Canada; spring: eastern United States and eastern Canada. Dicken.

- Geog 320. **Political Geography.** 3 hours spring.
Geopolitical principles; boundaries and aspirations of nations as they grow out of natural regional settings. The strategy of men, lands and raw materials, colonies, migration, foreign-trade relations. Pitts.
- Geog 334, 335, 336. **Cartography.** 3 hours each term.
Systematic study of maps and aerial photographs. Fall: aerial photographs and their interpretation; winter and spring: maps and diagrams. Patton, Martin.
- Geog 390. **Climatology.** 4 hours.
The elements of weather and climate; intensive study and comparison of climates of the earth, based on Köppen, Thornthwaite, and human-use classifications. Patton.
- Geog 391. **Geomorphology.** 4 hours.
Systematic study of land forms. Field trips. 1 two-hour laboratory period. Prerequisite: Geol 101, 102.
- Geog 392. **Regional Geomorphology.** 4 hours.
Study of selected geomorphic regions of the earth with the aid of maps and aerial photographs. Prerequisite: Geog 391.
- Geog 401. **Research.** Hours to be arranged.
- Geog 405. **Reading and Conference.** Hours to be arranged.
- Geog 407. **Seminar.** Hours to be arranged.
- Geog 421, 422. **Field Geography.** (G) 3 hours each term, fall and spring.
Field techniques in geography applied to special areas and problems. Martin.
- Geog 425. **Geography of Conservation.** (g) 3 hours.
The geographic distribution of American resources; methods for maintaining the optimum resource use.
- Geog 426. **Geography of Europe.** (G) 3 hours.
Some of the special problems of Europe today studied in light of the geography of the continent. Prerequisite: Geog 105, 106, 107 or Geog 201, 202, 203. Patton.
- Geog 427. **Geography of the Soviet Union.** (G) 3 hours.
Geography of the Soviet Union; its resources, peoples, and world position. Prerequisite: Geog 105, 106, 107 or Geog 201, 202, 203. Martin.
- Geog 432. **Geography of Africa.** (G) 3 hours.
Physical geography of the continent; the main economic, social, and political problems viewed in relation to geography. Prerequisite: Geog 105, 106, 107 or Geog 201, 202, 203. Pitts.
- Geog 435. **Urban Geography.** (G) 3 hours.
World distribution of great cities; urban patterns, forms, and functions; systems of urban land classification; forces affecting urban land use; geographic aspects of city planning. Prerequisite: Geog 201, 202, 203; Geog 334. Pitts.
- Geog 451, 452, 453. **Geography of Asia.** (G) 3 hours each term.
Land forms, climates, population, and resources of Asia and adjacent islands. Fall: East Asia; winter: South Asia; spring: Southeast Asia and adjacent islands. Prerequisite: Geog 105, 106, 107 or Geog 201, 202, 203. Martin, Pitts.
- Geog 461, 462. **Geography of Latin America.** (G) 3 hours each term.
Regional geography of the Latin American countries. Winter: South America; spring: Mexico and the Caribbean area. Prerequisite: 6 hours in lower-division geography courses or consent of instructor. Martin.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

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

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

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

Geog 507. **Seminar.** Hours to be arranged.

Principles of Geography.

Periodical Literature.

Historical Geography.

History of Geography.

Geog 511, 512, 513. **Advanced Physical Geography.** 3 hours each term.

Theories and techniques in the geographic study of land forms, soils, water, climate, vegetation, and animal life. Prerequisite: Geog 391, Geog 421.

Geog 515, 516, 517. **Advanced Cultural Geography.** 3 hours each term.

Procedures in the geographic study of nations, peoples, industries, and transportation. Prerequisite: Geog 320, Geog 435.

Geology

Professors: L. W. STAPLES (department head), E. M. BALDWIN,* A. C. WATERS, W. L. YOUNGQUIST.

Associate Professors: E. H. LUND, J. C. STOVALL.

Assistant Professors: V. E. McMATH, E. A. WALTER.

Instructor: L. R. KITTLEMAN.

Assistants: R. L. BATEMAN, W. D. KLECK, R. F. MORRISON, P. V. PATTERSON, R. A. SCHNAIBLE.

THE DEPARTMENT OF GEOLOGY serves three classes of students: (1) professional major students; (2) nonprofessional major students who wish to build a broad cultural education around a central interest in geology; and (3) students majoring in other fields who wish some acquaintance with the contributions of geological studies to the understanding of the world and its problems.

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, or general science).

Major Curriculum in Geology. The following courses are required for an undergraduate major in geology:

Lower Division. General Geology (Geol 101, 102, 103); Mathematics (Mth 101, 105, 106); General Chemistry (Ch 201, 202, 203, Ch 204, 205, 206); General Physics (Ph 201, 202, 203); Principles of Economics (Ec 201, 202, 203).

Upper Division. Mineralogy (Geol 311, 312, 313); Introduction to Paleontology (Geol 331, 332, 333); Geomorphology (Geog 391); Stratigraphy (Geol 392); Field Methods (Geol 393); Field Geology (Geol 406); Seminar (Geol 407), three terms; Economic Geology (Geol 421, 422, 423); Lithology and Petrogenesis (Geol 411) or Petrology and Petrography (Geol 414, 415, 416); Structural Geology (Geol 491).

* On leave of absence 1959-60.

Graduate Study. The department offers graduate work leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. A satisfactory rating on a Graduate Record Examination is required for admission to candidacy for a graduate degree. All candidates are required to write a thesis. Suggested minor fields are: chemistry, physics, biology, or mathematics.

Facilities. The Condon Museum of Geology contains extensive collections of rocks, minerals, and fossils; its resources are supplemented by working collections for classroom and laboratory use. The varied geological terrain of the state of Oregon offers an exceptionally interesting field laboratory. Field camps in various parts of the state are operated during the summer months.

LOWER-DIVISION COURSES

Geol 101, 102, 103. **General Geology.** 4 hours each term.

Earth materials, processes, and forms; formation of economic mineral deposits; the main events in earth history. Lectures, laboratory, and field trips.

Geol 290. **Introduction to the Geology of Oregon.** 3 hours.

Lectures, assigned reading, and field trips, to acquaint the student with some of the salient features of the geology of the state. Baldwin.

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

Common minerals and rocks; origin, lore, and properties of precious, semi-precious, and ornamental stones; economically important rocks and minerals. 2 lectures; 1 three-hour laboratory period. Stovall.

Geol 292. **Elementary Areal Geology.** 3 hours.

A study of regional geology primarily for nonmajors; areal distribution of sedimentary, igneous, and metamorphic rocks in Oregon. Field studies of selected areas, with emphasis on the relationships between rock type, structure, and topography. Prerequisite: Geol 101, 102, 103. 1 lecture; 6 hours field work.

UPPER-DIVISION COURSES

Geol 301, 302, 303. **Geologic History of Life.** 3 hours each term.

Fall: origins and early history of life, as revealed by the fossil remains of animals and plants; winter: geologic history of vertebrates; spring: geologic history of the Primates. Not intended for majors. Stovall.

Geol 311, 312, 313. **Mineralogy.** 4 hours each term.

Descriptive and determinative mineralogy; geometric and X-ray crystallography; optical mineralogy. Prerequisite: Ch 201, 202, 203; Ch 204, 205, 206; Geol 101, 102, 103. Staples.

Geol 331, 332, 333. **Introduction to Paleontology.** 3 hours each term.

Structure and evolution of invertebrates and vertebrates, and their distribution in geologic time. Prerequisite: Geol 103. Kittleman.

Geog 391. **Geomorphology.** 4 hours.

For description see page 148.

Geol 392. **Stratigraphy.** 3 hours.

Genesis and subsequent history of stratified rocks; sedimentation, induration, weathering; the methods of correlating such formations. Prerequisite: Geol 101, 102, 103. Baldwin.

Geol 393. **Field Methods.** 3 hours.

Elementary topographic mapping; use of field instruments; field mapping of selected areas. Stovall.

Geol 401. **Research.** Hours to be arranged.

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

- Geol 406. **Field Geology.** Hours to be arranged.
Prerequisite: Geol 393, HEc 250. Staples.
- Geol 407. **Seminar.** Hours to be arranged.
Current Geological Literature.
Classical Geological Literature.
Geological Report Writing.
Problems in Geology.
- Geol 411. **Lithology and Petrogenesis.** (g) 3 hours.
The origin, occurrence, and classification of the principal rock types of the earth's crust. Laboratory examination and classification of rocks in hand specimens. 2 lectures; 1 laboratory period. Prerequisite: Geol 312. Lund.
- Geol 414, 415, 416. **Petrology and Petrography.** (G) 4 hours each term.
Origins, occurrences, and classifications of rocks. Laboratory work in both megascopic and microscopic examination of rocks. Prerequisite: Ph 201, 202, 203; Geol 311, 312, 313. Lund.
- Geol 421, 422, 423. **Economic Geology.** (G) 3 hours each term.
The general principles of the formation of metallic and nonmetallic economic geologic deposits; principal economic deposits, domestic and foreign. 2 lectures; 1 laboratory period. Prerequisite: Ec 201, 202, 203; Geol 311, 312, 313. Baldwin, Staples.
- Geol 440. **Micropaleontology.** (G) 3 hours.
Survey of microfossil groups; stratigraphic distribution; methods of separation from matrices; classification. 1 lecture; 2 laboratory periods. Prerequisite: Geol 331, 332. Youngquist.
- Geol 451, 452. **Pacific Coast Geology.** (G) 3 hours each term.
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 101, 102, 103; senior or graduate standing. Baldwin, Youngquist.
- Geol 491. **Structural Geology.** (G) 3 hours.
Origin, interpretation, and mapping of major and minor geologic structures. 3 lectures. Prerequisite: Geol 101, 102; Ph 201, 202, 203. McMath.
- Geol 492. **Advanced Stratigraphy.** (G) 3 hours.
Review of stratigraphic terminology; applied stratigraphy and facies analysis; stratigraphy of the United States and other countries. Prerequisite: Geol 392. Baldwin.
- Geol 493. **Petroleum Geology.** (G) 3 hours.
The origin and accumulation of petroleum and related products; the stratigraphy and structure of oil fields; methods of locating oil and gas. 2 lectures; 1 laboratory period. Prerequisite: Geol 392, Geol 491. Youngquist.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

- Geol 501. **Research.** Hours to be arranged.
- Geol 503. **Thesis.** Hours to be arranged.
- Geol 505. **Reading and Conference.** Hours to be arranged.
- Geol 506. **Advanced Field Geology.** Hours to be arranged.
- Geol 507. **Seminar.** Hours to be arranged.
Founders of Geology.
Regional Geologic Studies.
Classical Geologic Treatises.
Classical Problems in Geology.
Advanced Structural Geology.

Geol 511, 512, 513. **Advanced Microscopy.** 4 hours each term.

Microtechniques in connection with the petrographic microscope, goniometer, X-ray diffractometer, and spectroscope; chemical microscopy; photomicrography. Prerequisite: Geol 313. Staples.

Geol 514, 515, 516. **Advanced Petrology and Petrography.** 3 hours each term.

Advanced study of topics relating to the origins and occurrences of rocks; microscopic examination of rock suites selected for study of special problems. Prerequisite: Geol 414, 415, 416. Lund.

Geol 520. **Advanced Economic Geology.** 3 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 421, 422, 423. Staples.

Geol 531, 532, 533. **Advanced Paleontology.** 3 hours each term.

Methods of collecting, preparing, and identifying fossil faunas; detailed study of selected fossil groups. Prerequisite: Geol 331, 332, 333. Walter.

Geol 551. **Advanced Physical Geology.** 3 hours.

Comprehensive appraisal of earth materials and processes, based on the study of original sources in classical and current literature of geology. McMath.

COURSES OFFERED ONLY IN SUMMER SESSIONS

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

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

History

Professors: E. S. POMEROY (department head), QUIRINUS BREEN, P. S. DULL,*
V. R. LORWIN, K. W. PORTER, W. H. STEPHENSON, O. M. WILSON.

Associate Professors: E. R. BINGHAM, J. C. CHENG, R. W. SMITH, L. R. SORENSON.

Assistant Professors: GUSTAVE ALEF, RAMSAY MACMULLEN, S. A. PIERSON, J. E. SELBY, V. F. SNOW.

Instructor: P. S. HOLBO.

Associate: MABEL E. McCLAIN (emeritus).

Fellows: D. D. ALDER, R. C. COOKE, W. M. DICK, D. V. DU FAULT, G. T. EDWARDS, T. G. GOERTNER, S. T. FREAR, W. T. HALL, A. A. LAFERRIERE, D. R. LEGG, D. C. MACMICHAEL, N. P. ROSS, A. W. SCHATZ.

Assistants: J. T. BUSHMAN, S. L. CAMPBELL, J. T. COVERT, D. P. DUNCAN, R. W. HANSEN, L. D. HYBERTSON, R. J. KERR, M. J. LO PICCOLO, R. L. PRITCHARD, J. G. RUSSELL, R. D. SPIDELL.

THE DEPARTMENT OF HISTORY offers instruction in American, European, British, and East Asian history, and major programs designed for general education and in preparation for public-school teaching and for graduate study and research.

Requirements for the Bachelor's Degree. For a bachelor's degree with a major in history a student must complete a minimum of 42 term hours in history (of which 24 must be upper division, including 15 upper-division hours at the University of Oregon).

The following courses are required: (1) History of Western Civilization (Hst 101, 102, 103) *or* History (Sophomore Honors) (SSc 107, 108, 109); and (2) a

* On sabbatical leave 1959-60.

year sequence in United States history. With the approval of the department a student who demonstrates unusually strong preparation in European history may substitute combinations of other European history courses for Hst 101, 102, 103 or SSc 107, 108, 109. History majors should take work in allied fields that will contribute to a well-balanced liberal education. The department recommends work in foreign language and literature extending, if possible, beyond the second-year level and leading to a thorough reading knowledge of a language. Seminar (Hst 407) or Senior Colloquium (Hst 408) is recommended for seniors who plan to do graduate work.

Honors in History. Students who meet University requirements for honors work (see page 67) and obtain the approval of the department may enroll in a program leading to the bachelor's degree with honors in history. In this program, regular course work is supplemented by a junior honors seminar and, during the senior year, by informal reading in a special field of history and the writing of a senior honors essay. At the end of his senior year, the honors student is given an oral examination with emphasis on two selected fields of history and the honors essay. The student may choose his honors fields from (1) ancient Greece and Rome, mediaeval Europe, or Europe in the Renaissance and Reformation, (2) modern Europe, (3) the United States, (4) the Far East or Latin America; one field must be chosen from (1) or (2).

The department recommends that candidates for honors elect additional informal work in seminars or reading and conference. Arrangements can normally be made for enrollment for extended reading in connection with upper-division courses in history.

Graduate Work. The department offers graduate instruction leading to the degrees of Master of Arts and Doctor of Philosophy. For requirements for graduate degrees, see GRADUATE SCHOOL. A detailed statement of departmental requirements may be obtained in the department office.

LOWER-DIVISION COURSES

- Hst 101, 102, 103. **History of Western Civilization.** 3 hours each term.
Origins and development of Western civilization from ancient times to the present. Alef, Breen, MacMullen, Pierson, Smith, Snow, Sorenson.
- SSc 107, 108, 109. **History (Sophomore Honors).** 3 hours each term.
For description, see page 108.
- Hst 201, 202, 203. **History of the United States.** 3 hours each term.
From colonial times to the present. Bingham, Holbo, Pomeroy, Porter, Selby, Stephenson.
- Hsts 207, 208, 209. **English History.** 3 hours each term.
A general survey, covering political, economic, social, intellectual, and religious developments. Smith.

UPPER-DIVISION COURSES

- Hst 341, 342, 343. **Europe since 1789.** 3 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. Lorwin, Pierson.
- Hst 350, 351, 352. **Hispanic America.** 3 hours each term.
A survey of Hispanic America from the early Indian civilizations through the periods of Spanish conquest and colonization; the wars of independence; the rise of national states; their internal development and foreign relations. Holbo.

- Hst 377. **Oregon History.** 2 hours.
Brief survey of the building of civilization in the Oregon Country. Not offered 1960-61. Bingham.
- Hst 391, 392, 393. **Far East in Modern Times.** 3 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. Dull.
- Hst 403. **Thesis.** Hours to be arranged.
For honors students
- Hst 405. **Reading and Conference.** Hours to be arranged.
Directed reading for honors students.
- Hst 407. **Seminar.** Hours to be arranged.
Junior Honors Seminar. Lorwin, MacMullen, Pomeroy, staff.
Senior Seminar. Pierson, Porter, Smith, staff.
Senior Honors Colloquium. Pomeroy, staff.
- Hst 408. **Senior Colloquium in American History.** 3 hours each term.
Study of significant historical writings from colonial times to the present, with emphasis on methods and interpretations. Prerequisite: consent of instructor. Stephenson.
- Hst 411. **History of Greece.** (G) 3 hours fall.
Political and cultural history of ancient Greece. MacMullen.
- Hst 412, 413. **History of Rome.** (G) 3 hours each term, winter and spring.
Winter: history of Rome from its earliest beginnings to the end of the Republic; spring: the period of the Empire. MacMullen.
- Hst 421, 422, 423. **Middle Ages.** (G) 3 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. Breen.
- Hst 424, 425. **Early Modern Europe.** (G) 3 hours each term.
Political, economic, and cultural history of Europe from the Counter-Reformation to the French Revolution. Europe overseas, the rise of absolutism, the Age of Reason, and enlightened despotism. Snow.
- Hst 430, 431. **Renaissance.** (G) 3 hours each term, fall and winter.
Fall: the Renaissance in Italy; winter: the northern Renaissance. Breen.
- Hst 432. **Reformation.** (G) 3 hours spring.
The Protestant and the Catholic reform of the sixteenth century. Breen.
- Hst 434, 435, 436. **Western Institutions and Ideas.** (G) 3 hours each term.
Intensive study of selected ideas and institutions that have influenced the history of Western civilization. Prerequisite: a college-level introductory course in European history. Sorenson.
- Ed 440. **History of Education.** (G) 3 hours.
A general review of the growth and development of education in relation to the civilization of the times; emphasis on development of educational philosophies. Breen.
- Hst 441, 442, 443. **History of France.** (G) 3 hours each term.
Fall: Old Regime, Revolutionary and Napoleonic era, nineteenth century to 1870; winter: Third Republic, 1870-1940; spring: since 1940. Lorwin.
- Hst 445. **Europe since 1939.** (G) 3 hours.
Background and course of World War II; postwar developments in the European states. Not offered 1960-61. Pierson.

- Hst 446. **Modern Germany.** (G) 3 hours.
The German Empire, the republican experiment of 1918-33, the National Socialist regime, World War II and after. Pierson.
- Hst 447, 448, 449. **History of Russia.** (G) 3 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.
- Hst 454, 455, 456. **Economic History of Modern Europe.** (G) 3 hours each term.
The economic development and economic institutions of modern Europe. Fall: commercial revolution, mercantilism, beginnings of the Industrial Revolution; winter: the Industrial Revolution, industrial, agricultural, financial, social change to 1914; spring: since 1914. Lorwin.
- Hst 457. **The Era of American Sectional Conflict.** (G) 3 hours.
Forces, events, and persons that contributed to unity and particularism in the United States during the first half of the nineteenth century. Stephenson.
- Hst 458. **The Era of the Civil War.** (G) 3 hours.
Intensive study of the critical decade before the Civil War and of the course of that conflict. Stephenson.
- Hst 459. **The Era of Reconstruction.** (G) 3 hours.
Problems of the tragic era following the Civil War; their continuing effects to the end of the nineteenth century. Stephenson.
- Hst 460, 461, 462. **History of American Thought and Culture.** (G) 3 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 instructor. Bingham.
- Hst 463. **History of Canada.** (G) 3 hours.
A survey of the growth of Canada from colony to nation, emphasizing the period after confederation. Smith.
- Hst 465. **British Empire.** (g) 3 hours.
History of the British Empire since 1815; colonial nationalism and the development of the commonwealth. Smith.
- Hst 466. **Tudor England.** (G) 3 hours.
The political, social, economic, and intellectual development of England through the reigns of the Tudor sovereigns, 1485-1603. Not offered 1960-61. Smith, Snow.
- Hst 468. **Victorian England.** (G) 3 hours.
Social, political, economic, and intellectual history of England from 1815 to 1870. Smith.
- Hst 469. **Twentieth-Century England.** (G) 3 hours.
Social, political, economic, and intellectual changes in Great Britain in the twentieth century. Smith.
- Hst 473, 474, 475. **American Foreign Relations.** (G) 3 hours each term.
The origins, character, and consequences of American foreign policies from the Revolutionary War to the present. Holbo.
- Hst 476, 477. **History of the West.** (G) 3 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 hours.
Detailed study of the building of civilization in the Pacific Northwest. Not open to students who have taken Hst 377. Prerequisite: Hst 201, 202 or consent of instructor. Bingham, Porter.

- Hst 479. **Forces and Influences in American History.** (G) 3 hours.
Geographic influences; influence of the frontier; inheritance and tradition; economic forces; nationalism; sectionalism; manifest destiny; democracy. Selby.
- Hst 480, 481, 482. **The United States in the Twentieth Century.** (G) 3 hours each term.
Fall: to 1918; winter: 1918-38; spring: since 1938. Pomeroy.
- Hst 484, 485, 486. **Early History of the American People.** (G) 3 hours each term.
From the discovery of America to the administration of George Washington. Not offered 1960-61. Selby.
- Hst 487, 488, 489. **American Economic History.** (G) 3 hours each term.
The economic development of the United States. Selby.
- Hst 494, 495, 496. **History of China.** (G) 3 hours each term.
Fall: from legendary times through the T'ang Dynasty (618-907); winter: from the Sung Dynasty (960-1276) to the "Second Treaty Settlement" of the Manchus in 1860; spring: 1860 to the present. Not offered 1960-61. Dull.
- Hst 497, 498, 499. **History of Japan.** (G) 3 hours each term.
History of Japan, from its beginnings to the present. Dull.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

- Hst 501. **Research.** Hours to be arranged.
- Hst 503. **Thesis.** Hours to be arranged.
- Hst 505. **Reading and Conference.** Hours to be arranged.
- Hst 507. **Seminar.** Hours to be arranged.
Greek and Roman History. MacMullen.
European History. Alef, Breen, Lorwin, Pierson, Snow, Sorenson.
European Social and Economic History. Lorwin.
English History. Smith.
American Historiography. Stephenson.
American History. Bingham, Holbo, Pomeroy, Porter, Selby, Stephenson.
History of the Far East. Dull.
Historical Theory. Sorenson.
- Hst 520. **Historical Method.** 3 hours.
Introduction to the method of research and writing in history. Stephenson.
- Hst 530, 531, 532. **European History: Problems and Interpretations.** 3 hours each term.
Readings, reports, and group discussions of major trends, problems, and interpretations in modern European history. Hst 530: Renaissance and Reformation; Hst 531: the seventeenth and eighteenth centuries; Hst 532: 1789 to the present. Breen, Snow, Lorwin, Pierson, Smith.

COURSES OFFERED ONLY IN SUMMER SESSIONS

- Hst 418, 419. **Studies in Western Civilization.** (g) 4 hours each term.
- Hst 490. **Problems of the Pacific.** (g) 4 hours.

Home Economics

Professor: MABEL A. WOOD (department head).

Assistant Professors: FAITH JOHNSTON, LOIS E. NELSON, FRANCES VAN VOORHIS, MARGARET J. WEISE.

LOWER-DIVISION and service courses in home economics are offered at the University. By action of the State Board of Higher Education in 1932, all major work in the Oregon State System of Higher Education leading to baccalaureate and advanced degrees in home economics was confined to the School of Home Economics at Oregon State College, and lower-division work (instruction in the freshman and sophomore years) was assigned to both the State College and the University.

The lower-division work in home economics is essentially the same at both institutions. While it is recommended that students intending to major in home economics enter the institution at which major work is offered at the beginning of their freshman year, they may, if they wish, spend their freshman and sophomore years at the University, and transfer to the State College for their major work at the beginning of the junior year, without loss of credit and with fundamental requirements for upper-division standing fully met.

At both institutions, the lower-division program is intended, not only to lay the foundation for specialization in home economics, but also to serve the needs of students majoring in other fields. In addition to lower-division work, the University offers upper-division service courses in home economics.

The foods and clothing laboratories of the department of Home Economics are designed and equipped in accordance with the best modern standards for instruction in these fields.

LOWER-DIVISION COURSES

HEc 111, 112, 113. **Clothing Construction.** 2 hours each term.

Adaptation of patterns, fitting of garments, and the basic processes of the construction of clothing. Students must have taken HEc 114, 115, 116, or must take this sequence at the same time. 2 two-hour laboratory periods.

HEc 114, 115, 116. **Clothing Selection.** 1 hour each term.

Selection of clothing from the standpoints of design, textile, material, hygiene, and cost for homemade and ready-made clothing.

HEc 125. **Textiles.** 2 hours any term.

Textile fibers and their relation to dress and household textiles. Suggested parallel for HEc 111.

HEc 211, 212, 213. **Foods.** 3 hours each term.

Introduction to foods; selection, preparation, and serving of meals. 2 recitations; 2 two-hour laboratory periods.

HEc 222. **Family Relationships.** 2 hours any term.

Designed to give the student with no particular background in sociology or psychology an understanding of the problems and adjustments of family life. Does not satisfy any requirement in sociology.

HEc 225. **Principles of Dietetics.** 2 hours any term.

The nutritive value of food; the selection of a proper diet for health, based on dietetics principles. Open to men and women.

HEc 250. **Camp Cookery.** 1 hour any term.

Fundamental principles of cookery applied to simple meals in home and camp. 1 three-hour laboratory period. Open to men only.

UPPER-DIVISION COURSES

HEc 325. **Child Care and Training.** 3 hours any term.

The growth, development, care, and training of the young child. requisite.

HEc 331. **Home Planning and Furnishing.** 3 hours any term.

Principles involved in the planning and furnishing of a home.

HEc 339. **Household Management.** 3 hours any term.

Management principles applied to household processes. The choice of household equipment in terms of efficiency, use, and care.

HEc 340. **Purchasing Problems of the Home.** 3 hours any term.

The management of the family's money; information needed for wise choice of consumer goods.

Mathematics

Professors: A. F. MOURSUND (department head), PAUL CIVIN, I. M. NIVEN, P. B. SIMPSON.

Associate Professors: F. C. ANDREWS, R. L. BLAIR, K. S. GHENT, L. E. WARD, JR., BERTRAM YOOD.

Assistant Professors: F. W. ANDERSON, L. W. ANDERSON, A. T. BEARUCHA-REID, J. S. MAYBEE, D. R. TRUAX.

Instructors: MARIE R. MASON, F. L. McMAINS, JR., R. E. ODEH.

Fellows: D. W. BAILEY, BARBARA J. CHICKS, C. H. CHICKS, J. Q. DENTON, D. J. DONOHUE, G. B. GALE, J. K. HARRIS, L. A. HINRICHS, GERALDINE A. JENSEN, BURKE ZANE.

Assistants: S. R. ANDERSON, A. P. BAARTZ, R. B. CRITTENDEN, JOYCE E. FIELDS, R. I. JEWETT, J. B. LANE, R. J. LINDAHL, A. J. NADAS, J. J. SEMBER, J. D. STAFNEY, G. F. WALTERS.

MATHEMATIC COURSES at the University are designed to provide the training in rigorous thinking and analytical processes which is fundamental to a liberal education; to provide basic mathematical and statistical training for students in the social, biological, and physical sciences and in the professional schools; to prepare prospective teachers of mathematics; and to 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 high-school courses in algebra (at least one and one-half years) and plane geometry, and, if possible, courses covering trigonometry, solid geometry, and more advanced topics.

Majors usually begin University work in mathematics with Introductory College Mathematics (Mth 105, 106, 107) or Analytic Geometry and Calculus (Mth 204, 205, 206). The latter sequence is recommended for well-prepared freshmen whose high-school program includes trigonometry. Students not prepared for one of the above sequences must make up their deficiencies in one or both of the following courses: Elements of Algebra (Mth 10), Essentials of Mathematics (Mth 101).

Students may enter Mth 204, 205, 206 upon completion of Mth 106; students electing Mth 101, 102, 103 must take Mth 106, 107 if they wish to enroll for Differential and Integral Calculus (Mth 201, 202, 203).

Science Group Requirement. The following sequences are correlated to make up an integrated year's work to satisfy the science group requirement; Mth 101, 105, 106; Mth 101, 105, 108; Mth 101, 102, 103; Mth 101, 102, 108; Mth 105, 106, 107; Mth 105, 106, 204; Mth 201, 202, 203; Mth 204, 205, 206; Mth 301, 302, 303. Majors in business administration should choose a sequence which includes Mth 108.

Mth 204, 205, 206 is the recommended sequence for all exceptionally well-prepared students. Mth 105, 106, 107 is the standard sequence for students who enter with one and one-half years of high-school algebra, and who intend to major

in mathematics, the physical sciences, or architecture, or to take more than one year's work in college mathematics. The department will recommend suitable sequences in the light of the individual student's interests and mathematics placement-test score.

Requirements for Bachelor's Degree. To qualify for a bachelor's degree with a major in mathematics, a student must complete 48 term hours of work in the field, including Differential and Integral Calculus (Mth 201, 202, 203) or Analytic Geometry and Calculus (Mth 204, 205, 206) and at least 24 term hours in upper-division mathematics courses exclusive of Mth 313 and Mth 425, 426, 427. Not more than 15 hours selected from Mth 301, 302, 303, Mth 441, 442, 443, and Mth 447, 448, 449 may be counted toward the minimum major requirement.

Students preparing for graduate work in mathematics should include in their programs: Mth 412, 413, 414; Mth 421, 422, 423; Mth 431, 432, 433; and Mth 447, 448, 449. Students preparing for graduate work in statistics should follow the same program. Attainment of a reading knowledge of at least one of the following languages is highly recommended: French, German, Russian.

Recommendations for Prospective Teachers. Students intending to teach high-school mathematics must plan their programs to include the courses required for certification (see SCHOOL OF EDUCATION). To receive the unqualified recommendation of the department, prospective mathematics teachers should also complete Fundamentals of Algebra (Mth 341, 342, 343) or Linear Algebra and Coordinate Geometry (Mth 315, 316) and Number Theory (Mth 317); Fundamentals of Geometry (Mth 344, 345); Fundamentals of Statistics (Mth 346); and one term of calculus (Mth 201 or Mth 205). More advanced regular session courses with similar content and special upper-division courses offered during summer sessions are acceptable substitutes for courses listed above.

Students preparing for elementary-school teaching should take Mathematics for Elementary Teachers (Mth 51, 52).

Graduate Work. The Department of Mathematics offers graduate work leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Candidates for the Ph.D. degree are accepted in the fields of algebra and number theory, analysis, and probability and mathematical statistics. Students interested in graduate work should consult the head of the department concerning departmental requirements.

Applied Statistics. Elements of Statistical Methods (Mth 425, 426, 427) is the basic sequence in statistics at the University of Oregon; one or more terms are prerequisite to most of the courses in applied statistics offered in other departments and schools. The following courses in applied statistics are available: Mathematical Economics (Ec 480, 481, 482); Correlation Analysis of Economic Data (Ec 484), Research and Survey Methods in Economics (Ec 485); Laboratory in Psychological Statistics (Psy 416); Laboratory in Advanced Psychological Statistics (Psy 417, 418); Measurement: Theory and Applications (Psy 543, 544); Theory and Construction of Tests (Psy 545); Factor Analysis (Psy 546); Advanced Business Statistics (BS 433); Educational Statistics (Ed 515, 516, 517); Statistical Methods in Physical Education (PE 540, 541). A major option in applied statistics, with special emphasis on application to economic and business problems, is offered by the Department of Economics.

A Statistical Laboratory, equipped with electric and hand-operated calculating machines, is maintained in Deady Hall. The facilities of the laboratory and the advice of laboratory assistants are available to all students whose work involves statistics.

Consultation Service. The Department of Mathematics provides a consultation service for University schools, departments, faculty members, and graduate

students who need assistance or advice in connection with statistical or other mathematical problems. No charge is made for this service, except for long computations, which are performed at standard rates set by the department.

LOWER-DIVISION COURSES

Mth 10. Elements of Algebra. No credit.

A remedial course intended primarily for students entering with less than one year of elementary algebra. 4 class meetings a week.

Mth 51, 52. Mathematics for Elementary Teachers. 3 hours each term.

Basic concepts of arithmetic, elementary algebra, and plane geometry; applications to statistics and mathematics of finance. For prospective elementary teachers; not open to other students. 4 recitations.

Mth 101, 102, 103. Essentials of Mathematics. 4 hours each term.

Fundamental concepts of algebra, mathematics of finance, trigonometry, analytic geometry, calculus, and statistics. The second and third terms are intended primarily for students majoring in the humanities, the biological sciences, or the social sciences. Prerequisite: one year of high-school algebra.

Mth 105, 106, 107. Introductory College Mathematics. 4 hours each term.

A unified treatment of college algebra, trigonometry, analytic geometry, and elementary calculus. Prerequisite: one and one-half years of high-school algebra or Mth 101.

Mth 108. Mathematics of Finance. 4 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, 102 or Mth 105.

Mth 201, 202, 203. Differential and Integral Calculus. 4 hours each term.

Standard sequence for students of physical, biological, and social sciences. Prerequisite: Mth 107. Not open to students who have credit for Mth 204, 205, 206.

Mth 204, 205, 206. Analytic Geometry and Calculus. 5 hours each term.

A unified treatment of analytic geometry and calculus; equivalent of Mth 107 and Mth 201, 202, 203. Prerequisite: high-school trigonometry and a high placement score; or Mth 106.

UPPER-DIVISION COURSES

Mth 301, 302, 303. Basic Concepts of Mathematics and Statistics. 3 hours each term.

Basic ideas of mathematics; selected topics, such as elements of mathematical logic and set theory; statistical reasoning, methods, and applications. Prerequisite: upper-division standing; Mth 101 or equivalent. Truax.

Mth 313. Calculus. 4 hours.

Applications of differential and integral calculus. Prerequisite: Mth 201, 202; junior standing. Not open to students with credit for Mth 203 or Mth 206.

Mth 316, 317. Linear Algebra and Coordinate Geometry. 3 hours each term.

Vector spaces, matrices, quadratic forms; applications to coordinate geometry. Prerequisite: analytic geometry. Blair, F. W. Anderson, Ghent.

Mth 318. Number Theory. 3 hours.

Divisibility, congruences, number theoretic functions, Diophantine equations. Prerequisite: analytic geometry. F. W. Anderson, Ghent.

Mth 341, 342, 343. Fundamentals of Algebra. 3 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. Offered in alternate years with Mth 344, 345, Mth 346. Prerequisite: analytic geometry. Niven, Ghent.

Mth 344, 345. **Fundamentals of Geometry.** 3 hours each term.

Geometric topics, for prospective secondary-school teachers of mathematics. 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. Offered in alternate years with Mth 341, 342. Prerequisite: analytic geometry. Ghent, Niven.

Mth 346. **Fundamentals of Statistics.** 3 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. Offered in alternate years with Mth 343. Prerequisite: analytic geometry. Andrews, Truax.

Mth 403. **Thesis.** Hours to be arranged.

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

Mth 412, 413, 414. **Introduction to Abstract Algebra.** (G) 3 hours each term.

Sets, relations, mappings; introduction to the theory of groups, rings, fields, polynomial rings; linear algebra and matrix theory. Prerequisite: Mth 317 or consent of instructor. L. W. Anderson, F. W. Anderson, Ghent.

Mth 416, 417. **Projective Geometry.** (G) 3 hours each term.

Elements of synthetic and analytical projective geometry. Prerequisite: calculus. Ghent.

Mth 421, 422, 423. **Introduction to Applied Mathematics.** (g) 3 hours each term.

Calculus of several variables, fundamental concepts of differential equations, Fourier series, vector analysis, complex variables, with applications. Prerequisite: calculus. Niven, Blair, Maybee.

Mth 425, 426, 427. **Elements of Statistical Methods.** (g) 3 hours each term.

A basic sequence in statistical analysis; not intended for mathematics majors. Presentation of data; sampling theory; tests of significance; analysis of variance and covariance; regression and correlation; sequential analysis; design of experiments; distribution-free techniques. Prerequisite: one year of high-school algebra; junior standing. Bharucha-Reid, Simpson, Truax.

Mth 431, 432, 433. **Advanced Calculus.** (G) 3 hours each term.

A rigorous treatment of topics introduced in elementary calculus and of more advanced topics basic to the study of real and complex variables. Prerequisite: calculus. Civin, Moursund.

Mth 441, 442, 443. **Introduction to Statistical Theory.** (g) 3 hours each term.

Designed primarily for nonmajors who have a working knowledge of calculus and for mathematics majors intending to take no further work in statistics. Topics covered include: elementary theory of probability, sampling theory, estimation, hypothesis testing, sequential and nonparametric methods, elementary decision theory. Prerequisite: calculus. Truax, Odeh.

Mth 447, 448, 449. **Mathematical Statistics.** (G) 3 hours each term.

Combinatorial probability; development of distribution theory from the theory of probability; derivation of sampling distributions; introduction to theory of statistical estimation and inference. Prerequisite: calculus and consent of instructor. Andrews, Truax, Odeh.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

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

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

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

Mth 507. **Seminar.** Hours to be arranged.

Algebra. Blair.

Number Theory. Niven.

Topology. L. W. Anderson, Ward.

Applied Mathematics. Bharucha-Reid, Maybee.

Banach Algebras. Yood.

Harmonic Analysis. Civin.

Statistics and Stochastic Processes. Andrews, Truax.

Algebraic Systems of Continuous Functions. F. W. Anderson, Blair.

Mth 541, 542, 543. **Abstract Algebra.** 3 hours each term.

Group theory, fields, Galois theory, algebraic numbers, matrices, rings, algebras. Niven, Blair, F. W. Anderson.

Mth 544, 545, 546. **Structure of Rings and Algebras.** 3 hours each term.

Rings with minimum condition; the Wedderburn theory for semisimple rings; dense rings of linear transformations; the Jacobson radical; primitive rings; structure of primitive algebras; semisimple algebraic algebras of bounded degree. Selected topics of nonassociative ring theory. Blair, Yood.

Mth 547, 548, 549. **Algebraic Number Theory.** 3 hours each term.

Algebraic, irrational, transcendental, and normal numbers; approximation of algebraic and transcendental numbers by rationals. Niven.

Mth 551, 552, 553. **Theory of Functions.** 3 hours each term.

Introduction to measure and integration, analytic function theory. Moursund, Civin.

Mth 554. **Measure Theory.** 3 hours.

General theory of measure and integration. Civin, F. W. Anderson.

Mth 555, 556. **Theory of Probability.** 3 hours each term.

Probability in abstract spaces, random variables, independence, cumulative distribution functions, characteristic functions, moments, convergence of distributions, the central limit problem, infinitely divisible distributions; applications to statistics. Andrews, Truax.

Mth 557, 558, 559. **Topics in Classical Analysis.** 3 hours each term.

Fourier series, Fourier transforms, integral equations, linear operations in Hilbert space, spectral theory. Civin, Yood, Maybee.

Mth 561, 562, 563. **Modern Theories in Analysis.** 3 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. Prerequisite: Mth 571. Civin, Yood.

Mth 571, 572, 573. **Topology.** 3 hours each term.

Set theory, topologies, comparison of topologies, product and quotient topologies, convergence, continuity, metrization, compactification, uniform structures, introduction to algebraic topology. L. W. Anderson, Civin, Ward.

Mth 581, 582, 583. **Theory of Estimation and Testing Hypotheses.** 3 hours each term.

Classical theory of testing and estimation, BAN estimates, moment estimates, sequential analysis. Andrews, Truax.

Mth 587, 588. **Stochastic Processes.** 3 hours each term.

A non-measure-theoretic introduction to the theory of stochastic processes; processes discrete in space and time, discrete in space and continuous in time, continuous in space and time; applications. Prerequisite: Mth 431, 432, 433; Mth 447, 448, 449. Andrews, Bharucha-Reid.

Mth 591, 592, 593. **Advanced Mathematical Statistics.** 3 hours each term.

Topics selected from: analysis of variance and design of experiments; multivariate analysis; sampling from finite populations; nonparametric methods. Laboratory work included. Andrews.

Mth 594. **Theory of Games.** 3 hours.

The theory of games, with special emphasis on zero-sum two-person games. Prerequisite: Mth 551. Truax.

Mth 595, 596. **Statistical Decision Theory.** 3 hours each term.

Statistical decision theory based on the theory of games; sequential decision theory; comparison of experiments. Prerequisite: Mth 594. Truax.

COURSES OFFERED ONLY IN SUMMER SESSIONS

Mth 468, 469. **Probability and Statistics.** (g) 3 hours each term.

Mth 478, 479. **Algebra.** (g) 3 hours each term.

Mth 488, 489. **Geometry.** (g) 3 hours each term.

Mth 498, 499. **Foundations of Mathematics.** (g) 3 hours each term.

Mth 569. **Probability and Statistics.** 3 hours.

Mth 579. **Algebra.** 3 hours.

Mth 589. **Geometry.** 3 hours.

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

Medical Technology

THE UNIVERSITY offers a four-year curriculum in medical technology, leading to the bachelor's degree. The student takes three years of work on the Eugene campus and one year at the Medical School in Portland. The University program satisfies the requirements of the National Registry of Medical Technologists.

	Term Hours		
	F	W	S
First Year			
Mathematics (course dependent on score in placement test).....	4	4	4
English Composition (Wr 111, 112, 113).....	3	3	3
Group-satisfying sequence in arts and letters.....	3	3	3
General Biology (Bi 101, 102, 103).....	4	4	4
Physical education	1	1	1
	15	15	15
Second Year			
General Chemistry (Ch 201, 202, 203).....	3	3	3
General Chemistry Lab. (Ch 204, 205, 206).....	2	2	2
Group-satisfying sequence in social science.....	3	3	3
Essentials of Physics (Ph 101, 102, 103).....	3	3	3
Electives	6	6	6
	17	17	17
Third Year			
Organic Chemistry (Ch 334, 335).....	4	4	..
Elementary Quantitative Analysis (Ch 320).....	..	..	5
Introduction to Bacteriology (Bi 311).....	3	..	..
Microbiology (Bi 412).....	..	3	..
Advanced biology .....	..	..	3
Group-satisfying sequence in social science.....	3	3	3
Group-satisfying sequence in arts and letters.....	3	3	3
Electives	3	3	3
	16	16	17

	Fourth Year (Medical School)		
	Term Hours		
	F	W	S
Clinical Bacteriology (MT 410, 411).....	4	6	..
Clinical Biochemistry (MT 424, 425).....	5	6	..
Laboratory Orientation (MT 413).....	2	..	..
Principles of Hermatology (MT 430).....	5	..	..
Special Hermatology (MT 431).....	..	3	..
Urinalysis (MT 414).....	..	..	4
Histological Technique (MT 420).....	..	..	4
Applied Serology (MT 436).....	..	..	5
Clinical Parasitology (MT 437).....	..	..	3
	16	15	16

Medicine, Preparatory

A PREMEDICAL CURRICULUM, including courses prescribed by the American Medical Association for entrance to standard medical schools, is offered at the University. The program is supervised by a special advisory committee, of which Dr. R. T. Ellickson, professor of physics, is chairman.

For entrance to a standard medical school, the student must not only complete certain prescribed work but also show an aptitude for medical studies. The Medical College Admission Test is given each year to all students who expect to apply for admission to a medical school. Further knowledge of the student's ability is obtained through conferences between the student and his instructors and authorized premedical advisers.

For admission to the University of Oregon Medical School, the student must have completed satisfactorily 138 term hours of college work, exclusive of military science. The following subjects are prescribed:

	Term Hours
Chemistry	24
General inorganic, which may include qualitative analysis.....	12
Quantitative analysis, emphasis on volumetric analysis.....	4
Organic	8
Biology	15
General biology or zoology.....	9
Selections from general embryology, vertebrate anatomy, or general physiology	6
Physics	12
Mathematics	6
English	9

Foreign language is not specifically required for admission to the Medical School, but some knowledge of a major modern foreign language (German, French, Russian, Spanish) is highly recommended as a part of the cultural training of a physician. Students anticipating research in the medical sciences should obtain a basic knowledge of German and French. The premedical student should keep in mind that some medical schools require credit in foreign language for admission.

The work in organic chemistry must include the chemistry of both aliphatic and aromatic compounds. Biochemistry will not be accepted toward meeting the requirement. At least 25 per cent of all the required work in chemistry must be laboratory work.

Human anatomy is not accepted toward meeting the minimum requirements in biology.

The work in physics must include the divisions of mechanics, heat and sound, light, and electricity.

The work in mathematics should be of standard college grade, and include subjects such as algebra, elementary analysis, trigonometry, or calculus.

Recommended Elective Subjects. The student preparing to study medicine is advised to plan a balance in elective courses between courses in liberal arts and courses, beyond the minimum requirements, in subjects prescribed for admission to the Medical School. Subjects suggested are: history, economics, sociology, psychology, English, public speaking, and foreign languages.

The University of Oregon Medical School also requires that the student who enters without a Bachelor of Arts or a Bachelor of Science degree must complete

the work for one of these degrees at the University of Oregon or at the institution at which he received his premedical preparation, before entering upon the work of the third year at the Medical School. Under University regulations, a maximum of 48 term hours of work in medicine may be counted as credit earned in residence toward the bachelor's degree.

Before entering the Medical School, the student should satisfy all requirements for a degree (including University requirements and major requirements in the College of Liberal Arts) that cannot be satisfied at the Medical School. The following premedical curriculum meets the requirements stated above:

	Term Hours		
	F	W	S
First Year			
General Chemistry (Ch 201, 202, 203).....	3	3	3
General Chemistry Lab. (Ch 204, 205, 206).....	2	2	2
*Mathematics (above level of Mth 10).....	4	4	4
English Composition (Wr 111, 112, 113).....	3	3	3
General Biology (Bi 101, 102, 103) or Biological Science (Soph. Honors) (GS 201, 202, 203).....	4	4	4
Physical education	1	1	1
Military science (men)	1	1	1
	18	18	18
Second Year			
Organic Chemistry (Ch 334, 335, 336).....	4	4	4
Group-satisfying sequence in arts and letters.....	3	3	3
Group-satisfying sequence in social science.....	3	3	3
Foreign language	4	4	4
Physical education	1	1	1
Military science (men)	1	1	1
	18	18	18
Third Year			
Elementary Quantitative Analysis (Ch 320).....	5	..	..
Comparative Anatomy (Bi 325).....	..	4	..
Vertebrate Embryology (Bi 326) or Animal Physiology (Bi 314).....	..	..	4
General Physics (Ph 201, 202, 203).....	5	5	5
Foreign language or other group-satisfying sequence in arts and letters	4-3	4-3	4-3
Group-satisfying sequence in social science.....	3	3	3
Electives	2	2-3	2-3
	18-19	18	18

Kenneth A. J. Mackenzie Memorial Scholarships. For information concerning these scholarships for premedical and medical students, see page 86.

Nursing

Professor: JEAN E. BOYLE (director).

Associate Professor: GUHLI J. OLSON (in charge of prenursing program).

THE UNIVERSITY offers on the Eugene campus a three-term prenursing curriculum to prepare students for admission to the University of Oregon School of Nursing on the campus of the University of Oregon Medical School in Portland. The professional program requires three additional years of work, plus a summer session after the sophomore year, on the Medical School campus. On completion of the program, the student is granted the Bachelor of Science degree from the University of Oregon.

* Students are enrolled in mathematics courses for which they have adequate preparation; as a basis for placement, high-school records are supplemented by a placement examination.

The minimum 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, college, or university whose program is acceptable for transfer of credit to the University of Oregon.

(2) A grade-point average of at least 2.00 for the freshman-year program.

(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.

Application for admission to the School of Nursing should be made after the completion of the freshman prenursing program. 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.

The required freshman prenursing program is outlined below:

	Term Hours		
	F	W	S
Elementary Chemistry (Ch 101, 102, 103).....	4	4	4
English Composition (Wr 111, 112, 113).....	3	3	3
Literature (Eng 101, 102, 103 or Eng 104, 105, 106 or Eng 107, 108, 109 or AL 101, 102, 103).....	3	3	3
Principles of Dietetics (HEC 225).....	..	..	2
Fundamentals of Speech (Sp 111).....	..	3	..
General Psychology (Psy 201).....	..	..	3
Physical education	1	1	1
Electives	6	3	..
	17	17	16

For a detailed outline of the total nursing program, see the School of Nursing Catalog.

LOWER-DIVISION COURSE

Nur 111. **Backgrounds of Nursing.** 3 hours.

The historical background of modern social and health movements; the relation of these to the evolution of nursing as a profession. Olson.

Philosophy

Professors: ALBUREY CASTELL (department head), B. E. JESSUP,* ALEXANDER MASLOW.

Assistant Professors. V. H. DYKSTRA, R. J. RICHMAN.†

Instructors: RUTH A. MATHERS, ARNULF ZWEIG.

THE DEPARTMENT OF PHILOSOPHY offers a major program leading to the Bachelor of Arts or Bachelor of Science degree. The lower-division courses in philosophy provide an introductory survey; the upper-division courses provide a more intensive study of selected philosophical problems and authors.

The minimum major requirement is 45 term hours of work in philosophy with grades of C or better, including 36 hours in upper-division courses. The 45-hour requirement must include History of Philosophy (Phl 301, 302, 303) and other courses arranged in consultation with the department head.

* On leave of absence 1959-60.

† On sabbatical leave 1959-60.

Students may satisfy the social-science group requirement with any three of the four courses, Phl 201, Phl 202, Phl 203, Phl 204.

The department also offers a graduate program leading to the Master of Arts degree.

LOWER-DIVISION COURSES

- Phl 201. **Problems of Philosophy.** 3 hours.
An introduction to the study of some of the persistent problems of philosophy.
- Phl 202. **Elementary Ethics.** 3 hours.
An introduction to the philosophical study of morality, e.g., right and wrong, free will and determinism, morals and society, etc.
- Phl 203. **Elementary Logic.** 3 hours.
An introduction to the study of reasoning. How to recognize, analyze, criticize, and construct the main types of argument and proof.
- Phl 204. **Elementary Aesthetics.** 3 hours.
An elementary 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. Jessup.

UPPER-DIVISION COURSES

- Phl 301, 302, 303. **History of Philosophy.** 3 hours each term.
Survey of European philosophy from the Greeks to the twentieth century. Dykstra, Zweig.
- Phl 304, 305, 306. **Social Philosophy.** 3 hours each term.
A review of social philosophy from Rousseau to Marx and Lenin. Castell.
- Phl 321, 322. **Philosophy of Mind.** 3 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. Zweig.
- Phl 324. **Intermediate Logic.** 3 hours.
The study of deductive inference, with consideration of both traditional and modern analyses. Mathers.
- Phl 325. **Scientific Method.** 3 hours.
Study of scientific method, with emphasis on analysis in terms of hypothesis and confirmation. Attention given to such topics as induction, probability, causality, measurement, and classification. Mathers.
- Phl 326. **Introduction to Semantics.** 3 hours.
Current theories of linguistic meaning. Implications of semantic principles for philosophy, science, and religion. Critical examination of the popular claims of "general semantics." Richman.
- Phl 328, 329. **Modern American Philosophy.** 3 hours each term.
Intensive study of selected works of major American philosophers from the late nineteenth century to the present. Jessup.
- Phl 331, 332, 333. **Contemporary Philosophy.** 2 hours each term.
Some common phases of recent philosophical theory. Jessup.
- Phl 341. **The Philosophy of John Dewey.** 3 hours.
Study of the primary ideas of John Dewey's philosophy; special emphasis on his theory of evaluation and his conception of the nature and function of intelligence. Dykstra.
- Phl 361, 362. **Advanced Ethics.** 3 hours each term.
Study of the most important traditional ethical theories; modern philosophical analysis of moral terms and statements. Dykstra.

- Phi 405. **Reading and Conference.** Hours to be arranged.
- Phi 407. **Undergraduate Seminar.** Hours to be arranged.
- Phi 411, 412. **English Social Philosophy.** (G) 3 hours each term.
English social philosophy from Hobbes and Locke to Sidney Webb and the Fabian socialists, studied as a commentary on revolution and reform. Castell.
- Phi 421, 422. **Russell and His Contemporaries.** 3 hours each term.
Bertrand Russell's major writings on the theory of knowledge, examined in the context of parallel studies by his contemporaries, G. E. Moore and Wittgenstein. Zweig.
- Phi 431, 432. **Philosophy in Literature.** (G) 3 hours each term.
Selective study of major philosophical ideas and attitudes expressed in the literature of Europe and America. Jessup.
- Phi 435. **Existentialism.** (G) 3 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 negatively has generated the existentialist "rebellion." Jessup.
- Phi 441, 442, 443. **Aesthetics.** (G) 3 hours each term.
Systematic study of the meaning and value of aesthetic experience in everyday life and in the arts—painting, music, literature, etc. Jessup.
- Phi 461, 462. **Symbolic Logic.** (G) 3 hours each term.
Elements of modern symbolic logic. Formal methods of determining logical validity and consistency. Mathers.
- Phi 471. **Philosophy of Science.** (G) 3 hours.
Analysis of basic concepts of science, such as "explanation," "chance," "causation," etc. Nature of mathematics and its relation to science. Mathers.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

- Phi 503. **Thesis.** Hours to be arranged.
- Phi 505. **Reading and Conference.** Hours to be arranged.
- Phi 507. **Seminar.** Hours to be arranged.
Plato. Dykstra.
Recent Idealism. Castell.
Theory of Knowledge. Richman.

Physics

Professors: J. L. POWELL (department head), S. Y. CH'EN, E. G. EBBIGHAUSEN, R. T. ELLICKSON.

Associate Professors: BERND CRASEMANN, F. E. DART.

Assistant Professors: D. W. BERREMAN, H. T. EASTERDAY, K. L. ZANKEL.

Instructor: R. A. BLUMENTHAL.

Associate: V. CHANDRASEKHARAN.

Fellows: L. J. APLET, MARY E. CUNNINGHAM, W. R. DOHERTY, WILLIAM MALKMUS, HERBERT MATTHEWS, J. G. PENGRA, P. V. RAO, R. L. SMITH, D. R. THAYER, R. A. WILSON.

Assistants: ROBERT BLICKENSBERFER, T. W. CANNON, C. W. FOUNTAIN, L. R. HALBERG, W. HARTFORD, K. LIU, W. D. MILLER, R. D. NEIFERT, HERSCHEL NEUMANN, C. R. SHONK, A. A. TEMPERLEY, JUDITH K. TEMPERLEY, R. J. TUTTLE.

COURSES OFFERED by the Department of Physics are planned to provide basic training for (1) professional physics majors, (2) persons desiring a broad liberal arts education centered around a major in physics, (3) major students in other science fields, (4) premedical and pre dental students, and (5) students planning to teach the physical sciences in the secondary schools. The major requirements for a bachelor's degree in physics are:

Freshman Year. General Physics (Ph 201, 202, 203); Introductory College Mathematics (Mth 105, 106, 107).

Sophomore Year. Analytical Mechanics (Ph 317, 318, 319); Differential and Integral Calculus (Mth 201, 202, 203); General Chemistry (Ch 201, 202, 203, Ch 204, 205, 206).

Junior and Senior Years. Electricity and Electronics (Ph 431, 432, 433); and three additional sequences chosen from the following: Modern Physics (Ph 411, 412, 413); Advanced Optics (Ph 441, 442, 443); Thermodynamics and Kinetic Theory (Ph 451, 452, 453); Introduction to Theoretical Physics (Ph 471, 472, 473); Introduction to Applied Mathematics (Mth 421, 422, 423); Physical Chemistry (Ch 441, 442, 443).

Students planning to teach in the secondary schools must take required courses in education (see SCHOOL OF EDUCATION).

Advanced Degrees. The Department of Physics offers graduate work leading to the degrees of Master of Arts, Master of Science, and Doctor of Philosophy.

Course requirements for a master's degree with a major in physics normally include, in addition to the substantial equivalent of the undergraduate requirements listed above: two year sequences in physics, at least one of which must be a 500 sequence; one of the following sequences in mathematics—Advanced Calculus (Mth 431, 432, 433); Introduction to Applied Mathematics (Mth 421, 422, 423); seminar in applied mathematics (Mth 507); or Theory of Functions (Mth 551, 552, 553).

The department is prepared to accept candidates for the doctor's degree in the fields of nuclear physics, physics of solids, and spectroscopy.

LOWER-DIVISION COURSES

Ph 101, 102, 103. **Essentials of Physics.** 3 hours each term.

Fundamental principles of physics, intended for students not majoring in science; requires less mathematical preparation than Ph 201, 202, 203. 2 lectures; 1 three-hour laboratory period. Prerequisite: Mth 10.

Ph 104. **Descriptive Astronomy: Solar System.** 4 hours fall.

Descriptive treatment of the solar system, including the sun, eclipses, planets, comets, and meteors. 4 lectures. Ebbighausen.

Ph 105. **Elementary Meteorology.** 4 hours winter.

Elementary treatment of weather phenomena, including discussion of instruments, cloud types, fog and rain production, frontal phenomena, and map analysis. 4 lectures. Ebbighausen.

Ph 106. **Descriptive Astronomy: Stellar System.** 4 hours spring.

Descriptive treatment of the stellar system, including variable and double stars, clusters, galaxies, and extragalactic nebulae. 4 lectures. Ebbighausen.

Ph 161. **Essentials of Photography.** 2 hours.

For those interested in photography as an avocation and for the occasional user of photography. Introduction to principles; cameras, enlargers, films, papers, chemicals, lighting; composition. 1 lecture; 1 three-hour laboratory period. No prerequisite. Ch'en.

Ph 201, 202, 203. **General Physics.** 5 hours each term.

Standard first-year college physics. 4 lectures; 1 three-hour laboratory period. Prerequisite: mathematics equivalent of Mth 105, 106 or consent of instructor. Ellickson, Easterday.

UPPER-DIVISION COURSES

Unless an exception is noted in the course description, general physics and calculus are prerequisite to all upper-division and graduate courses.

Ph 314, 315, 316. **Physical Measurements.** 1 or 2 hours each term.

A laboratory course open only to physics majors. Students carry out experiments of their own choice from the fields of mechanics, heat, electricity, and optics. 1 or 2 three-hour laboratory periods.

Ph 317, 318, 319. **Analytical Mechanics.** 3 hours each term.

Statics, dynamics of a particle, dynamics of rigid bodies. 3 lectures. Blumenthal, Powell.

Ph 411, 412, 413. **Modern Physics.** (G) 3 hours each term.

Introduction to the fundamental concepts of atomic, nuclear, and solid-state physics, in terms of experimental developments during the last fifty years. Kinetic theory, Bohr atom, atomic and molecular spectra, nuclear structure, radioactivity. 3 lectures. Prerequisite: Ph 201, 202, 203; must be preceded by or accompanied by calculus. Easterday.

Ph 431, 432, 433. **Electricity and Electronics.** (g) 4 hours each term.

Electrostatics; electrolytics; d-c and a-c currents; electromagnetism; electronics; circuit theory; ultra-high frequencies; high-voltage generators. 3 lectures; 1 three-hour laboratory period.

Ph 441, 442, 443. **Advanced Optics.** (G) 4 hours each term.

Theory of optical images, aberration, effects of apertures, optical instruments, interference, diffraction, polarization, double refraction, optical activity, dispersion, absorption, scattering, theory of reflection, radiation by solids, molecules, atoms, and atomic nuclei, magneto- and electro-optics. Ch'en.

Ph 444. **Spectrochemical Analysis.** (G) 3 hours.

Methods of excitation, qualitative analysis, photographic photometry; methods of quantitative analysis, analysis of absorption spectra; practical applications to various fields of industry and research. 2 lectures; 1 three-hour laboratory period. Ch'en.

Ph 451, 452, 453. **Thermodynamics and Kinetic Theory.** (G) 3 hours each term.

Thermodynamics, statistical mechanics, kinetic theory; applications to gases, liquids, solids, atoms, molecules, and the structure of matter.

Ph 471, 472, 473. **Introduction to Theoretical Physics.** (G) 3 hours each term.

Intended to serve as a foundation for more advanced theoretical courses. Major emphasis on basic problems in mechanics, electromagnetic theory, and quantum mechanics. Berreman.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

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

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

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

Ph 507. **Seminar.** Hours to be arranged.

Current Periodical Literature.
Theory of Relativity.
Quantum Theory of Radiation.
Physics of Solids.
Microwave Spectroscopy.
X-Rays and Crystal Structure.

Ph 517, 518, 519. **Quantum Mechanics.** 3 hours each term.

The physical basis of wave mechanics; the Schroedinger equation; the hydrogen atom and other problems with exact solutions; approximation methods; time-independent and time-dependent perturbation theory; collision theory. 3 lectures. Powell.

Ph 524, 525, 526. **Nuclear Physics.** 3 hours each term.

Properties of nuclei; interaction of radiation with matter; alpha, beta, and gamma emission; theory of the deuteron, scattering, nuclear forces; nuclear reactions. 3 lectures. Crasemann.

Ph 528, 529, 530. **Nuclear Physics Laboratory.** 1 hour each term.

A series of experiments designed to acquaint the student with techniques and equipment used in nuclear physics; particle detection techniques, interaction of radiation with matter, experiments in neutron physics. Prerequisite: Ph 411, 412, 413 or Ph 524, 525, 526. Easterday.

Ph 534, 535, 536. **Advanced Physical Measurements.** 1 or 2 hours each term.

Laboratory work, open only to physics majors. Development of experimental techniques in such fields as high vacua, interferometry, electronics, nuclear physics and radioactivity, and X-ray diffraction and absorption. For 2 three-hour laboratory periods.

Ph 538, 539, 540. **Theoretical Mechanics.** 3 hours each term.

Lagrange's equations; Hamilton's principle and equations; potential theory; applications to gravitation, hydrodynamics, and theory of elasticity. 3 lectures.

Ph 541, 542, 543. **Theoretical Nuclear Physics.** 3 hours each term.

Nuclear forces, two-body problem, structure of complex nuclei, nuclear reactions, beta decay. 3 lectures. Powell.

Ph 544, 545, 546. **Theory of Electricity and Magnetism.** 3 hours each term.

Electrostatics, magnetostatics, dia-, para-, and ferromagnetism; electromagnetic waves; diffraction; dispersion; and electro- and magneto-optics. 3 lectures.

Ph 551, 552, 553. **Atomic Spectra.** 3 hours each term.

Relation of observed spectra to the theory of atomic and molecular structure; quantum mechanical model, electron configuration, spectral terms. Zeeman effect and the hyperfine structure of atomic lines, rotation, vibration and electronic bands, infrared and Raman spectra, energy of dissociation of molecules. 3 lectures. Ch'en.

Ph 554, 555, 556. **Experimental Spectroscopy.** 1 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 photography photometry. 1 three-hour laboratory period. Ch'en.

Ph 578, 579, 580. **Solid State Physics.** 3 hours each term.

Thermal, dielectric, and magnetic properties of solids; band theory; semiconductors; luminescence; photoconductivity; dislocations. 3 lectures. Prerequisite: quantum mechanics. Offered alternate years.

Political Science

Professors: E. S. WENGERT (department head), C. P. SCHLEICHER, WALDO SCHUMACHER (emeritus).

Associate Professors: R. E. AGGER, H. E. DEAN, HERMAN KEHRLI, L. G. SELIGMAN.

Assistant Professor: L. C. MARQUIS.

Instructors: C. A. AMLUND, IRENE BLUMENTHAL,* J. R. FISZMAN, M. N. GOLDSTEIN.

Lecturer: D. M. DUSHANE.

Fellows: G. R. FIELD, J. J. HERZIG, YASUMASA KURODA, L. C. MILLIGAN, R. E. MINER, J. E. VINCENT, S. L. WASBY, S. N. WELLS, D. C. WILSON, D. A. ZIBLATT.

Assistants: F. F. ABRAHAMS, R. W. CROOKS, GUSTAVE FEISSEL, A. E. LAPITAN, J. K. MASSON, R. L. MEEK, S. A. PEARL, R. G. SWENSTON, J. J. THIESSEN.

FOR CITIZENS, for prospective public servants, and for future teachers and research workers, the Department of Political Science offers instruction in politics and government in the local community, the state, the nation, and among nations.

At the lower-division level, the department offers two terms of study of American national government (PS 201, 202), followed by a third term devoted to either state and local government (PS 203) or to international relations (PS 205). Majors in political science are ordinarily required to complete PS 201, 202 and one of the third-term options.

The advanced courses and seminars offered by the department fall into six fields: (1) American government and public law (PS 314, 315, 316, PS 482, PS 483, PS 484, 485, 486); (2) political parties and public opinion (PS 414, 415, 416); (3) public administration (PS 411, 412, 413); (4) foreign and comparative governments (PS 317, 318, PS 328, PS 330, 331, 332, PS 440, 441, 442); (5) international relations (PS 320, 321, PS 322, PS 391, 392, 393, PS 420, 421, PS 422); and (6) political theory (PS 430, 431, 432, PS 433, 434).

For the bachelor's degree, majors in political science are required to take courses in at least three of these fields and, in addition, Principles of Political Science (PS 311) and a senior seminar (PS 407).

For the master's degree, the student is expected to build his program of study so that he will become familiar with (1) the content and uses of political theory, (2) characteristics of political institutions and behavior, and (3) a major field of public policy or public law. With the usual undergraduate preparation in political science, a student may ordinarily achieve the required competence through an advanced year's sequence or seminar work in three of the six fields listed above. A year of course or seminar work in another social science is recommended. A thesis is required for the demonstration of the student's ability in independent analysis and presentation of complex materials.

Doctoral candidates are expected to show a comprehensive knowledge of political science and substantial understanding of a related field in another social science. Comprehensive written and oral examinations in four fields in political science and in one minor field test the student's grasp of political theory, institutions and behavior, and policy and public law. The dissertation is a measure of the student's depth of study, and is expected to be a significant original contribution to knowledge.

Properly qualified graduate students have access to the library and other facilities of the Bureau of Municipal Research and Service for study and research.

LOWER-DIVISION COURSES

PS 201, 202, 203. **American Governments.** 3 hours each term.

Fall and winter: national government; spring: state and local governments.

PS 205. **International Relations.** 3 hours.

Analysis of the nature of relations among states, with particular reference to contemporary international issues; a study of motivating factors, including nationalism, imperialism, economic rivalries, quest for security, etc.; study of the problem of national sovereignty and its relation to international cooperation.

* Resigned Jan. 31, 1960.

UPPER-DIVISION COURSES

- PS 311. **Principles of Political Science.** 3 hours fall.
Analysis of major concepts underlying the study of politics and administration, designed to provide a systematic introduction to the field for political-science majors. Marquis.
- PS 314, 315, 316. **Government of State, Local, and Regional Affairs.** 3 hours each term.
Analysis of the functioning and interrelationships of local, state, and regional politics, with special attention to social, economic, and party systems, and to the psychology of political participation. Agger.
- PS 317, 318. **Government and Politics of South and Southeast Asia.** 3 hours each term, fall and winter.
The political forces and institutions, and international relations, of the independent countries and colonial areas extending from Pakistan to the Philippines. Emphasis on common problems and trends. Schleicher.
- PS 320, 321. **World Politics.** 3 hours each term, fall and winter.
Basic principles of the modern state system; analysis of factors making for conflict and cooperation. Emphasis, during second term, on the foreign policies of the leading states, exclusive of the United States. Schleicher.
- PS 322. **American Diplomacy.** 3 hours spring.
Contemporary foreign relations of the United States; objectives, world and domestic factors affecting American foreign policy, governmental institutions concerned with development and execution of foreign policy, major issues and problems. Schleicher.
- PS 328. **Governments in the British Commonwealth.** 3 hours.
Special attention to the governments of Canada and Australia.
- PS 330, 331, 332. **Far Eastern Governments and Politics.** 3 hours each term.
A study of the forms of government, internal politics, and international relations of the Far East; the foreign policy of the United States with reference to China, Korea, and Japan. Dull.
- PS 391, 392, 393. **Far East in Modern Times.** 3 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. Cheng, Dull.
- PS 403. **Thesis.** Hours to be arranged.
- PS 405. **Reading and Conference.** Hours to be arranged.
- PS 407. **Seminar.** Hours to be arranged.
- PS 411, 412, 413. **Public Administration and Policy Development.** (G) 3 hours each term.
How administrative officials create and carry out public policies; theoretical analyses and case studies. Amlund, Wengert.
- PS 414, 415, 416. **Political Parties and Public Opinion.** (G) 3 or 4 hours each term.
Analysis of the structure and functions of political parties and public opinion, in terms of historical development and roles on various levels of government. Political attitudes, propaganda, the politics of urban life, interest groups. Need not be taken in sequence. Seligman.
- PS 420, 421. **International Organization.** (G) 3 hours each term, fall and winter.
A survey and analysis of the development of public international organization, with chief emphasis on the United Nations and its affiliated organizations; consideration of the leading problems of the United Nations; international administration. Blumenthal.

- PS 422. **International Law.** (G) 3 hours spring.
Introduction to international public law. Forces influencing its development; the nature and sources of international law; codification; the International Court of Justice. Rules of international law respecting more important subjects. Blumenthal.
- PS 430, 431, 432. **Political Theory: The Western Tradition.** (G) 3 hours each term.
Enduring problems of government as discussed by the leading political thinkers from Plato to the present; the nature and proper functions of the state; the control of power; freedom and authority; the regulation of property; law and the state; democratic and authoritarian traditions. Fiszman.
- PS 433, 434. **Political Theory: The American Tradition.** (G) 3 hours each term, fall and winter.
The development of American thought about government and its proper relation to life, liberty, and property. Dean.
- PS 440, 441, 442. **Governments of Major European Powers.** (G) 3 hours each term.
Governmental institutions and political processes in Great Britain, France, Germany, and the Soviet Union. Marquis, Blumenthal.
- PS 482. **The Legislature in American Government.** (G) 3 hours fall.
Study of the work of representative lawmaking bodies in a modern technological society; how legislatures are organized and operate in the Federal and state governments.
- PS 484, 485, 486. **The Supreme Court in American Government.** (G) 3 hours each term.
The role of the Supreme Court in the American constitutional system; the nature of the judicial process; limitation of the powers of the national and state governments by guarantees of life, liberty, and property; constitutional law and the shaping of public policy. Dean.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

- PS 501. **Research.** Hours to be arranged.
- PS 503. **Thesis.** Hours to be arranged.
- PS 505. **Reading and Conference.** Hours to be arranged.
- PS 507. **Seminar.** Hours to be arranged.
Scope and Methods of Political Science.
Political Parties, Interest Groups, Public Opinion. Seligman.
Comparative Community Politics. Agger.
Comparative Political Institutions. Fiszman.
Political Psychology. Agger.
United States Foreign Policy. Schleicher.
International Organization. Schleicher.
International Politics. Schleicher.
International Law. Blumenthal.
Public Administration and Policy Development. Wengert.
Comparative Studies in Public Administration. Wengert.
Comparative Study of Political Parties. Marquis.
Comparative Politics and the Novel. Marquis.
Constitutional Law and the Judicial Process. Dean.
Problems in Political Theory. Dean.

COURSES OFFERED ONLY IN EXTENSION AND SUMMER SESSIONS

- PS 340, 341, 342. **Issues and Evaluation of American Foreign Policy.** 3 hours each term (extension).

PS 424. **The Struggle for Asia: Democracy vs. Communism.** (g) 4 hours (summer sessions).

PS 440. **Competing Ideologies in the World Today.** (G) 3 hours (extension).

PS 441. **Area Tensions in the World Today.** (G) 3 hours (extension).

Psychology

Professors: R. W. LEEPER (department head), J. V. BERREMAN, R. A. LITTMAN, A. R. MOORE (emeritus), LEONA E. TYLER.

Associate Professors: FRED ATTNEAVE, R. E. BUEHLER, J. S. CARLSON, H. R. CROSLAND (emeritus), F. R. FOSMIRE, N. D. SUNDBERG.*

Assistant Professors: R. F. FAGOT, LAUREL HODGDEN, P. J. HOFFMAN, REID KIMBALL, R. W. LEARY, G. R. PATTERSON, P. H. SCHOGGEN, H. A. SHOEMAKER, J. A. STRAUGHAN, V. T. THOMPSON, H. W. VON HOLT, JR., C. F. WARNATH.

Instructor: ANN GLASS.

Fellow: J. E. CRANDALL.

Assistants: B. F. ANDERSON, ALICE J. BIERNOFF, C. K. CHAPMAN, M. EBNER, P. R. ESKILDSEN, B. W. GIVEN, W. C. HINSEY, R. J. KING, R. E. KNOX, ELIZABETH LYNN, D. L. McMANIS, LILA J. McQUEEN, H. L. MUNSINGER, D. W. ROSE, I. W. SCHONBERGER, C. B. SENGSTAKE, HELEN SIMMONS, D. A. STEVENS, A. J. STYNES, R. B. WALLACE.

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 nonmajors, 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 sciences and in such professional fields as education, business, and journalism.

The courses are planned with the thought that all students, regardless of their majors, will have to deal responsibly with many significant psychological problems in their relations with other people, in their later experiences as parents, in their own individual decisions, and in their efforts to understand the processes and problems of modern society.

A minimum of 9 term hours of lower-division work in psychology is a prerequisite for all upper-division courses—except that General Sociology (Soc 204, 205) may serve as the prerequisite for Social Psychology (Psy 334, 335) or Introduction to Industrial Psychology (Psy 447). Additional prerequisites are required for most courses at the 400 level.

To graduate with a major in psychology, a student must complete a minimum of 36 term hours in the field, including at least 24 upper-division hours. Six term hours in statistics may be included in the major requirement. Unless exception is granted by the department, majors are required to take General Psychology Laboratory (Psy 208, 209, 210) or equivalent upper-division laboratory work in psychology. The courses presented in satisfaction of the 36-hour minimum requirement must be completed with a grade average of C or better.

Preparation for Graduate Study. Majors in psychology should recognize that a bachelor's degree is seldom a sufficient qualification for professional work, and that even the simpler professional openings require at least a year of graduate study.

* On leave of absence 1959-60.

Students should not undertake graduate work unless their grades in undergraduate psychology courses and courses in related fields have averaged somewhat better than B.

Students intending to do graduate work in psychology are urged to take not more than 48 term hours of work in the field as undergraduates. The undergraduate program should include courses at the 300 and 400 (g) levels which cannot be taken for graduate credit in psychology, rather than courses at the 400 (G) level. Prospective graduate students should take a course in statistics, preferably in the junior year. Undergraduate work should be planned to provide a rich background in related fields. If a student's graduate program is to emphasize experimental psychology, his undergraduate work should include courses in biology, mathematics, physics, and chemistry. If his graduate work is to emphasize the clinical or social aspects of psychology, his undergraduate program should include courses in anthropology and other social sciences, and should include some physiology. Students who may wish to do professional psychological work in the public schools, e.g., special education or guidance, should take the required background courses in the School of Education.

Any student who intends to work for the Doctor of Philosophy degree should acquire a reading knowledge of two foreign languages, preferably German and French or Russian.

Graduate Work. The department offers graduate work leading to the degrees of Master of Arts, Master of Science, and Doctor of Philosophy. Areas of specialization include learning, perception, comparative, quantitative methods, individual differences, personality, clinical, child-clinical, and counseling. The department maintains, in addition to the general experimental laboratory, a child-study center and child-guidance clinic, rat and monkey laboratories, and a laboratory for research in human judgment. A thesis is required for all advanced degrees. Further information concerning the graduate program in psychology may be obtained on request to the department. For general regulations governing graduate work at the University, see GRADUATE SCHOOL.

All students applying for admission for graduate work in psychology must take either the Miller Analogies Test or the Graduate Record Examination (Verbal and Quantitative). Data from one of these tests must be submitted to the department before admission will be approved.

Students beginning graduate work in psychology are required to take a year proseminar providing a survey of all the fields of psychology at an advanced level.

Combined programs with speech correction, special education, or anthropology may be arranged.

Clinical and Counseling Psychology. The University offers special programs leading to the Ph.D. degree in clinical and counseling psychology. The clinical and counseling programs differ mainly in part of the practicum training. Counseling students may, however, place emphasis on courses dealing with vocations, industrial problems, educational administration, and personnel relations, while clinical students may place emphasis on courses dealing with psychopathology and with physiological and medical topics.

Students in these programs should plan their work to prepare themselves both in academic subjects for the Ph.D. preliminary examinations and for practical work in clinical and counseling settings. Practicum facilities in the University Counseling Center, the University Child Guidance Clinic, and the Oregon State Hospital in Salem are used extensively in all stages of training. Opportunities for supervised experience are also available in the University School Psychological Services and Speech clinics, the Fairview Home in Salem, and the Community Child Guidance Clinic and the Oregon Psychiatric Services for Children in Portland. A number of traineeships are available in Veteran Administration facilities in Roseburg and Portland. The University's doctoral programs in counseling and

clinical psychology have been approved by the American Psychological Association.

School Psychologist Program. A special undergraduate and graduate program is offered, through the cooperation of the Department of Psychology and the School of Education, to prepare students for positions as school psychologists. The undergraduate work leads to a bachelor's degree with a major in psychology and to a provisional teaching certificate, which qualifies the student for the teaching experience required for certification as a school psychologist. The graduate work leads to a master's degree with a major in psychology and satisfies all requirements for the Oregon school-psychologist certificate; a minimum of five terms of graduate study is needed for the completion of the program. It is not possible to take all the required work in summer sessions.

The student's program is planned in consultation with his adviser; the courses included depend, to some extent, on the individual student's background of education and experience. The number of trainees who can be accommodated in the essential clinical-experience courses is strictly limited. Students wishing admission to these courses should consult one of the program advisers not later than the beginning of the first year of graduate work.

Rehabilitation Counseling. The Department of Psychology and the School of Education sponsor jointly a two-year program of graduate training in rehabilitation counseling leading to a master's degree. The program is administered through the Center for Social Service Training and Research.

LOWER-DIVISION COURSES

Psy 201, 202. **General Psychology.** 3 hours each term.

Introductory study of behavior and conscious processes. Survey of experimental studies of motivation, learning, thinking, perceiving, and individual differences. Attneave, Fagot, Fosmire, Hodgden, Hoffman, Leary, Littman, Shoemaker, Straughan.

Psy 204. **Psychology of Adjustment.** 3 hours.

The nature and origins of differences in personality; means of making desired changes. Fosmire, Leary, Straughan.

Psy 205. **Applied Psychology.** 3 hours.

Applications of psychology in personnel selection and training; human factors in equipment design. Prerequisite: Psy 201, 202. Shoemaker.

Psy 208, 209, 210. **General Psychology Laboratory.** 1 hour each term.

Introduction to experimental methods. Laboratory work coordinated with Psy 201, 202, Psy 204, Psy 205. 1 laboratory period. Hoffman, Shoemaker.

UPPER-DIVISION COURSES

Psy 334, 335. **Social Psychology.** 3 hours each term.

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

Psy 401. **Research.** Hours to be arranged.

Psy 403. **Thesis.** Hours to be arranged.

Open only to students eligible to work for honors.

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

Open only to students eligible to work for honors.

Psy 407. **Seminar.** (G) Hours to be arranged.

Psy 416. Laboratory in Psychological Statistics. 1 hour.

Exercises in computational procedures, testing statistical hypotheses, and applying correlational methods. Prerequisite: enrollment in Mth 425 or completion of this course or equivalent. Fagot.

Psy 417, 418. Laboratory in Advanced Psychological Statistics. (G) 1 hour each term.

Designed to familiarize the student with the principal applications of statistical methods in psychological research. Emphasis on correlational methods, including partial and multiple correlation, analysis of variance, and design of experiments. Prerequisite: enrollment in Mth 426, 427 or completion of this sequence or equivalent. Hoffman, Straughan.

Psy 421, 422. Principles and Methods of Psychological Assessment. (g) 3 hours each term.

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

Psy 435. Counseling Procedures. (G) 3 hours.

Counseling problems of various types; methods of interviewing for different purposes; sources of vocational information; diagnosis of individual cases; evaluation of counseling programs. Prerequisite: Psy 421, 422 or equivalent. Warnath.

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

Development, functioning, and measurement of personality in normal individuals; emphasis on the mode of operation of the social environment on personality. Prerequisite: Psy 204 or equivalent. Patterson.

Psy 441, 442. Group and Individual Differences. (G) 3 hours each term.

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. Tyler.

Psy 447. Introduction to Industrial Psychology. (g) 3 hours.

Application of psychological principles to human problems in industrial situations. Emphasis on the understanding of individual needs and motivation; problems of satisfaction and morale; uses of group processes. Prerequisite: Psy 201, 202; or Soc 204, 205 and 3 hours in psychology. Warnath.

Psy 448. Industrial Psychology. (G) 3 hours.

Problems of industrial motivation and morale; prevention of fatigue, monotony, and accidents; principles underlying job analysis and classification; use of psychological tests in the selection and placement of employees; interviews, questionnaires, aptitude scales, and ratings as psychological measures in personnel work; evaluation of service. Prerequisite: introductory courses in statistics and testing. Warnath.

Psy 449. Occupational Choice and Psychology of Careers. (G) 3 hours.

Theories of occupational choice and their importance for the theory of counseling; factors related to vocational development and the patterning of careers; sources of vocational information, and its evaluation and uses in educational and counseling situations. Warnath.

Psy 450. Abnormal Psychology. (g) 3 hours fall or winter.

Various forms of unusual behavior, including anxiety states, hysteria, hypnotic phenomena, and psychoses. Normal motives and adjustment mechanisms as they are exaggerated in the so-called neurotic person. Buehler.

Psy 451. Physiological Psychology. (G) 2 or 3 hours.

Elementary neuroanatomy and neurophysiology; psychological effects of brain destruction and brain stimulation. Students may undertake laboratory projects by special arrangement. Leary.

- Psy 460. **Developmental Psychology I: Infancy and Childhood.** (g) 3 hours.
- Psy 461. **Developmental Psychology II: Adolescence and Maturity.** (g) 3 hours.
Development of behavior and psychological activity through the prenatal period, infancy, childhood, adolescence, maturity, and old age. Changes of intelligence, motor capacity, emotional response, language, and social behavior. Emphasis on social influence. Fosmire, Littman, Schoggen.
- Psy 465. **Motivation.** (G) 2 hours spring.
Review of changing conceptions of motivation, particularly as a result of clinical studies, experimental work on animal behavior, and the contributions of topological psychology. Littman.
- Psy 470. **Animal Psychology.** (g) 2 hours.
A survey of learning, motivation, and perception in selected species of animals; phylogenetic comparison and the modern viewpoint. Concurrent enrollment in Psy 471 normally required. Leary.
- Psy 471. **Laboratory in Animal Psychology.** (g) 1 or 2 hours.
Laboratory experience in experiments with rats and monkeys. Leary.
- Psy 490. **Psychology of Learning.** (g) 3 hours.
Survey of fundamental concepts of conditioning, rote learning, discrimination, problem solving, memory, and motor skill. Theory and experimental literature. Littman.
- Psy 491. **Laboratory in Learning.** (g) 2 hours.
Laboratory work in design, conduct, and analysis of experiments in learning. Littman.
- Psy 492. **Psychology of Perception.** (g) 3 hours.
Survey of fundamental concepts of vision, audition, somesthesia, etc. Psychophysiological factors and psychophysical methodology. Attneave.
- Psy 493. **Laboratory in Perception.** (g) 2 hours.
Laboratory work in design, conduct, and analysis of experiments in perception. Attneave.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

- Psy 501. **Research.** Hours to be arranged.
- Psy 502. **Research Symposium.** Hours to be arranged.
- Psy 503. **Thesis.** Hours to be arranged.
- Psy 505. **Reading and Conference.** Hours to be arranged.
- Psy 507. **Seminar.** Hours to be arranged.
The seminars vary from year to year depending on faculty interests and student needs. Those most frequently given are:
Proseminar. Leeper.
Teaching of Psychology. Hoffman.
Basic Concepts in Rehabilitation. Schoggen, Thompson.
Medical Aspects of Rehabilitation. Schoggen, Thompson.
Advanced Counseling Psychology. Tyler.
Recent Research with Primates. Leary.
Psychopathology. Fosmire.
Group Dynamics. Buehler.
Contemporary Literature in Psychology. Littman.
Experimental Design. Fagot.
Somatopsychology. Schoggen.
Advanced Child Psychology. Hodgden.
Socialization. Littman, Patterson.
Research Methods in Developmental Psychology. Schoggen.
Psychotherapy. Buehler.

Current Developments in Rehabilitation. Schoggen, Thompson.
 Special Problems in Rehabilitation. Schoggen, Thompson.
 Cybernetics. Attneave.
 Decision Theory. Fagot.
 Psychophysical Theory. Attneave, Fagot.

Psy 508. **Clinical Work with Children.** 3 hours any term .

Work in the University Child Guidance Clinic. Enrollment limited. Prerequisite: Psy 424, 425, Psy 530, 531; consent of instructor. Patterson, Sundberg.

Psy 509. **Prepracticum Experience.** Hours to be arranged.

Work in selected agencies providing diagnostic and counseling services. Enrollment limited. Prerequisite: Psy 424, 425; consent of instructor.

Psy 521, 522, 523. **History and Systems of Psychology.** 2 hours each term.

The development of empirical research and theoretical formulations in psychology and its several fields. Littman.

Psy 524, 525. **Individual Intelligence Testing.** 3 hours each term.

Supervised practice in the administration, scoring, and interpretation of intelligence tests, chiefly the Stanford-Binet, the Wechsler intelligence scale for children, and the Wechsler adult intelligence scale. Prerequisite: Psy 421. von Holt.

Psy 530, 531. **Foundations of Clinical and Counseling Practice.** 3 hours each term.

Basic concepts and principles of psychological work with individuals; the job of the clinician; psychodiagnosis; clinical research; case-study methods. Required of all candidates for the Ph.D. degree in clinical and counseling psychology. Buehler, Fosmire.

Psy 532, 533. **Advanced Personality Assessment.** 3 hours each term.

Principles and methods of measurement of various aspects of personality, including both "projective" and "objective" approaches. Supervised administration, scoring, and interpretation of test protocols. Sundberg, von Holt.

Psy 535. **Advanced Social Psychology.** 3 hours.

Social behavior in relation to current psychological theory and research. Hoffman, Littman.

Psy 537, 538, 539. **Personality Theory and Research.** 4 hours fall; 2 hours each term, winter and spring.

Intensive study of selected aspects of the various theories of personality which have been developed by academic, clinical, and psychiatric writers. Problems of formulating a theory and conducting research in the field of personality. Review of selected studies. von Holt, Leeper.

Psy 543, 544. **Measurement: Theory and Application.** 3 hours each term.

The nature of measurement; theory and application of psychological scaling methods; logic of measurement; the axiomatic method in measurement; the role of measurement in psychological theory. Prerequisite: Mth 426 or equivalent. Fagot.

Psy 545. **Theory and Construction of Tests.** 3 hours.

Basic theory of test scores; reliability and validity of tests; methods of standardizing and equating test scores; problems of norms and units; weighting and differential prediction; item analysis. Fagot, Hoffman.

Psy 546. **Factor Analysis.** 3 hours.

Systematic and critical development of the theory of factor analysis; applications in psychology. Prerequisite: Mth 426. Fagot.

Psy 551, 552, 553. **Advanced Experimental Psychology.** 3 hours each term.

Thorough study of periodical literature of general psychology. The point of view is consistently experimental. Opportunity offered for an experimental project to coordinate with class discussions.

- Psy 560. **Advanced Physiological Psychology.** 2 hours.
Theory of nervous-system function in learning, motivation, and perception. Detailed study of special areas. Leary.
- Psy 566. **Advanced Psychology of Perception.** 3 hours.
Basic problems and phenomena of perception. Attneave.
- Psy 567. **Advanced Laboratory in Perception.** 3 hours.
Practice in design, conduct, analysis, and reporting of experiments. Individual projects. Attneave.
- Psy 570. **Advanced Animal Psychology.** 2 hours.
Special topics in animal learning, motivation, and species comparison. Leary.
- Psy 572, 573, 574. **Advanced Psychology of Learning and Thinking.** 3 hours each term.
Survey of research methods and findings on learning and thinking. Analysis and comparison of various viewpoints in modern learning theory. Detailed study of special topics in learning, thinking, and problem solving. Shoemaker, Straughan.
- Psy 575. **Advanced Laboratory in Learning.** 3 hours.
Practice in design, conduct, analysis, and reporting of experiments. Individual projects. Shoemaker.

Religion

Professor : DOUGLAS STRATON (department head).

THE DEPARTMENT OF RELIGION 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 authoritative 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 over men's lives and over the destiny of civilization.

LOWER-DIVISION COURSES

- R 111, 112, 113. **Introduction to Religious Thought.** 3 hours each term.
Introduction to the major ideas and problems of religious faith, and to methods of studying these problems. Some of the common questions men have asked about God, the soul, good and evil, the nature and destiny of man, immortality, prayer, religion and society. Criteria for evaluating a religious interpretation of reality.
- R 201, 202, 203. **Great Religions of the World.** 3 hours each term.
Study of Hinduism, Buddhism, Confucianism, Islam, Judaism, and Christianity, according to their basic scriptures. Special attention to the origins, organization, and philosophy of these religions; analysis of their world views and conceptions of God, man, ethics, and human destiny.
- R 214, 215, 216. **Historical Background of the Bible.** 3 hours each term.
Survey of the social and religious history of Israel through the time of Jesus. The growth of ethical and religious ideas, the origin and messages of major Old and New Testament books; the historical background of Christianity, and the life and teachings of Jesus.

UPPER-DIVISION COURSES

R 301, 302, 303. **Religions of Mankind.** 3 hours teach term.

Fall: theories of the origin of religion; animistic religion; Egyptian, Babylonian, Greek, Roman religions; religions of the Graeco-Roman world. Winter: Judaism, Christianity, and Islam; how these religions arose, the social conditions bearing on their development, their internal struggles, their beliefs. Spring: living religions of the Orient; Zoroastrianism, Islam, Hinduism, Buddhism, Confucianism, Taoism, Shinto, etc., with special reference to origins, organization, philosophy, and sacred literature of the several religions.

R 421. **Religion in Contemporary Society.** (g) 3 hours.

The relation of religion to social institutions. Religion and the state, totalitarian and democratic. The social teachings of the various churches and religious groups. The religious situation today. Criteria for evaluating religion as a social force.

R 422. **Psychology of Religion.** (g) 3 hours winter.

Contributions of psychology to the understanding of various forms of religious behavior.

R 423. **Philosophy of Religion.** (g) 3 hours spring.

An inquiry into the nature of religion and its basic underlying convictions. An analysis of the factor of religion and religious thought in culture and civilization.

Sociology

Professors: W. T. MARTIN (department head), HARRY ALPERT, J. V. BERREMAN, ROBERT DUBIN,* J. M. FOSKETT.

Associate Professors: HERBERT BISNO, WILL DRUM, F. R. FOSMIRE.

Assistant Professors: T. B. JOHANNIS, JR., G. B. JOHNSON, JR., MIRIAM JOHNSON, L. S. WISHNEFF.

Instructors: P. J. MCGILLIVRAY, J. L. PRICE.

Associate: M. N. GOLDSTEIN.

Fellows: R. T. BOWLES, J. T. BORHEK, D. L. DODGE, R. C. LEONARD, MARTIN MEISSNER, D. L. SPENCE, CURT TAUSKY.

Assistants: R. E. BLUMSTOCK, P. A. JOHNSON, J. P. KOVAL, N. K. LINTON, R. E. O'TOOLE, CLYDE POPE, F. L. RICHMOND, G. B. RUSH, W. M. SLUSSER, S. L. SPRAY.

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 at the University is designed: (1) to prepare students for graduate work leading to professional careers in the field; (2) to provide a basic background for those preparing for careers in personnel work, journalism, organizational management, social work and public welfare, city and regional planning, teaching of social studies, and research in human relations; and (3) to provide a scientific basis, in knowledge and understanding, for constructive adult citizenship.

The graduate program, leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees, provides intensive study designed to train professional sociologists fully qualified for teaching, research, and administrative positions in sociology and related fields.

* On leave of absence 1959-60.

Alpha Kappa Delta, a national sociology honorary society, has a chapter on the University campus; all students who have completed their junior year and have had at least 20 hours of sociology with a grade-point average of 3.00 or higher are eligible for membership. Membership in the Sociology Club is open to all sociology majors and to other students of the social sciences.

Requirements for Bachelor's Degree. Candidates for the bachelor's degree with a major in sociology must satisfy all general requirements of the University and the College of Liberal Arts and complete the following required courses in sociology:

	Term Hours
General Sociology (Soc 204, 205, 206).....	9
World Population & Social Structure (Soc 308).....	3
American Society (Soc 309).....	3
Introduction to Social Research (Soc 327).....	3
Social Psychology (Soc 334, 335).....	6
Upper-division sociology electives	12-24

Courses presented in satisfaction of the minimum 36-hour major requirement must be completed with a grade average of C or better. All majors are expected to attain a broad background in the social sciences. Not more than 48 hours in sociology may be counted toward the bachelor's degree.

Graduate Work. Early in their undergraduate years students who are interested in graduate preparation for careers as professional sociologists should consult with a sociology adviser about the department's undergraduate preparatory program for research and teaching. Requirements in this program include: (1) satisfaction of the language requirement for the B.A. degree; (2) a three-term sequence in mathematics; (3) Soc 450, Soc 451, Soc 452; (4) at least one three-term sequence at the upper-division level in two of the following fields—anthropology, economics, political science, psychology.

All students applying for admission for graduate work in sociology must submit to the department letters of recommendation from three persons qualified to evaluate their academic achievement, transcripts of all work done at the college level, and scores on the Miller Analogies Test. These materials must be submitted at least one month before the student plans to begin graduate work.

Students are not advised to seek an advanced degree in sociology unless they have achieved a grade-point average of 3.00 or better in their undergraduate work in the field; students whose undergraduate major has been in another field should have a grade-point average of 3.00 in all social science courses taken.

Candidates for advanced degrees will be expected to achieve a general knowledge of the entire field of sociology and special competence in selected areas of concentration. The areas of concentration are: (1) general theory, (2) methodology, (3) social psychology, (4) formal organization, (5) marriage and the family, (6) social stratification, (7) population and ecology, (8) deviant behavior, (9) industrial sociology, (10) belief and value systems, (11) community organization and analysis, (12) organization of societies.

All candidates for advanced degrees must include in their programs the areas of general theory and methodology. Candidates for the master's degree must select three additional areas and candidates for the doctor's degree four additional areas, including organization of societies. With the approval of his advisory committee, a candidate may select an area of concentration not included in the list given above.

As an exception to these requirements, a graduate student who wishes to acquire a broad knowledge in sociology and related social sciences for the purpose of teaching general social science may, with the approval of his advisory committee, arrange a more general program of study. Such candidates must demonstrate a breadth of knowledge in sociology and in one or more related disciplines.

All graduate students in sociology must have preparation in statistics and research methods equivalent to Mth 425, 426, 427 and Soc 447, 448, 449, with the exception that a student working toward a terminal master's degree, with the approval of his adviser, may satisfy the requirement with Soc 447 and Mth 425. Graduate students who lack this preparation must complete the required courses in addition to course work normally required for a graduate degree.

Candidates for the master's degree, especially the M.S., are advised to develop a strong area of concentration in a related discipline. All master's candidates are required to present an acceptable thesis.

Candidates for the doctor's degree must demonstrate clearly their basic and serious commitment to a professional career in the social sciences, with particular emphasis on sociology. The department encourages interdisciplinary studies, and provides opportunity for the development of original programs of study designed to broaden the student's professional preparation.

The qualifying examination for the doctor's degree covers the basic fields of sociology; the work required for the master's degree will usually prepare the candidate for this examination. The preliminary examination covers the selected areas of concentration and a cognate or minor field outside the department. It is an intensive test of the candidate's mature grasp of the field and his capacity for constructive and imaginative scholarly growth; it is a written examination, given over a period of several days, and requires not less than twelve hours for completion.

The doctoral candidate's dissertation must embody the results of research and show evidence of originality and ability in independent investigation. It is recommended that work on the dissertation be begun early in the doctoral program, so that the candidate's research experience will be an integral part of his total program of study.

Candidates for advanced degrees who choose sociology as a minor must demonstrate competence in the general field of sociology and a depth of knowledge in one of the areas of concentration.

A brochure providing additional information about the graduate program in sociology may be obtained upon request to the department. For detailed requirements for graduate degrees, see GRADUATE SCHOOL.

LOWER-DIVISION COURSES

Soc 204, 205, 206. **General Sociology.** 3 hours each term.

The basic findings of sociology concerning the individual, culture, group life, social institutions, and factors of social change. Prerequisite: sophomore standing or consent of instructor.

UPPER-DIVISION COURSES

Soc 307. **Principles of Sociology.** 3 hours.

Fundamental concepts and empirical findings in the field of sociology. Not open to students who have completed Soc 204, 205. Berreman.

Soc 308. **World Population and Social Structure.** 3 hours.

Introduction to the general field of population studies, providing within a sociological framework an analysis of historical, contemporary, and anticipated population conditions and trends, as these are related to social situations and the organization of society. Prerequisite: Soc 204, 205, 206 or Soc 307. Martin.

Soc 309. **American Society.** 3 hours.

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

Soc 327. Introduction to Social Research. 3 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: Soc 204, 205, 206 or consent of instructor. Foskett.

Soc 334, 335. Social Psychology. 3 hours each term.

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

Soc 338. Marriage and the Family. 3 hours.

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

Soc 401. Research. Hours to be arranged.**Soc 403. Thesis for Honors Candidates.** Hours to be arranged.**Soc 405. Reading and Conference.** Hours to be arranged.**Soc 407. Seminar.** (G) Hours to be arranged.

Family Life Education. Johannis.
Sociology of Religion. Johnson.
Juvenile Delinquency. Bisno.
Interviewing. Bisno.
Social Aspects of Family Economics. Johannis.
Methodology. Wishneff.
Political Sociology. Wishneff.

Soc 414. Social Institutions. (G) 3 hours.

Analysis of social organization in terms of a system of interrelated and interdependent institutions; structural and functional components of institutional complexes; institutions as systems of patterned relations; the institutional basis of personality; processes of institutional change. Foskett.

Soc 415. Social Organization. (G) 3 hours.

Systematic examination of the basic theoretical problems of social stability and change. Attention given to the nature of theory and to the various levels of analysis on which conceptualization is possible. Price.

Soc 416, 417. Criminology and Delinquency. (G) 3 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 204, 205; or Psy 201, 202; or Soc 307. McGillivray.

Soc 421. Social Change. (G) 3 hours.

Sociological analysis of purposive social change as manifest in various programs of social reform and reconstruction. Doctrines examined in relation to the contexts out of which they have evolved. Bisno.

Soc 425, 426, 427. Theory of Social Groups. (G) 3 hours each term.

Analytical study of the forms and types of human association. Fall: society and the great associations; winter: formal organizations; spring: primary social groups. Dubin.

Soc 431, 432. Community Structure and Organization. (G) 3 hours each term.

Analysis of the human community. First term: origin and development of communities; world urbanization patterns; functional organization and spatial structure of cities. Second term: social structure of communities; social class; differential participation in informal and formally organized associations; leadership roles and influence patterns; community conflict. Martin.

Soc 434. Social Stratification. (G) 3 hours.

Systematic analysis of the nature of social classes and castes, their determinants and historical development, and their consequences for society.

Soc 435. Theory and Methods of Population Analysis. (G) 3 hours.

Modern demographic trends, underlying factors, social and economic implications; analysis of trends in fertility, mortality, population size and composition, and population redistribution. Martin.

Soc 436. Social Control. (G) 3 hours.

Techniques and agencies by which the behavior of crowds, classes, associations, and publics is controlled. Prerequisite: Soc or Psy 334, 335 or consent of instructor. Berreman.

Soc 437. Sociology of Race Relations. (G) 3 hours.

The development of "race consciousness" and emergent problems of race-culture contacts. Prerequisite: introductory course in sociology, anthropology, or psychology. Berreman.

Soc 438. Collective Behavior. (G) 3 hours.

A social-psychological study of the behavior of persons in such collective contexts as crowds, mobs, and publics, i.e., in the less stable and predictable phases of group life. Fads, crazes, rumor, panics, riots, and mass hysteria analyzed in terms of social and psychological determinants and consequences. Prerequisite: Soc or Psy 334, 335 or equivalent. Berreman.

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

Analysis of the dynamics of group interaction; significance and applications of the principles of group behavior for the group worker. Prerequisite: 9 hours in sociology or psychology; or consent of instructor.

Soc 442. Community Welfare Organization. (g) 3 hours.

Analysis of the process of bringing about a progressive adjustment between individual and group welfare needs and community resources; the organizational framework within which the process operates; the social structure and dynamics of the community setting. Prerequisite: 9 hours in sociology or consent of instructor. Bisno.

Soc 444, 445, 446. Sociology of Social Work. (g) 3 hours each term.

Social work, as a form of institutional behavior within the structure of organized public and private social services, analyzed in terms of theory, principles, and methods, past and present. Variations of ideology, organizational provisions, and practices related to the broader social milieu. Prerequisite: 9 hours in sociology or consent of instructor; the work of each term is prerequisite to that of the following term. Bisno.

Soc 447, 448, 449. Methods of Social Research. (G) 3 hours each term.

The basic methodology and techniques in the design of social research projects, the collection of data, the application of statistical procedures to the analysis of the data, and the interpretation of the results of social research projects. The work of each term is prerequisite to that of the following term; Mth 425 must be taken as a prerequisite or concurrently with the first term of the sequence.

Soc 450. History of Social Thought. (G) 3 hours.

An historical analysis of Western social thought in terms of its recurrent problems, its basic concepts, and its relation to contemporary sociological theory. Foskett.

Soc 451. Development of American Sociology. (G) 3 hours.

The emergence of American sociology in the nineteenth century; the problems, concepts, and theories of leading American sociologists to 1930. Foskett.

Soc 452. Contemporary Sociology. (G) 3 hours.

Analysis of the work of leading contemporary sociologists, with special emphasis on the problems, concepts, and methods of current sociological inquiry. Foskett.

Soc 455. **Sociology of Work.** (G) 3 hours.

Analysis of the basic sociological features of work in modern society. The theory of work organizations; the working population; technological, formal, nonformal, and informal aspects of working; the managerial problem of directing working behavior. Dubin.

Soc 456. **Industrial Sociology.** (G) 3 hours.

Analysis of union-management relations in American society. The nature of industrial management and the bases of management's labor decisions; the origins, nature, and functions of labor unions; industrial relations; the consequences of union-management relations for social welfare. Dubin.

Soc 465, 466. **The Family in American Culture.** (G) 3 hours each term.

First term: the family as a social institution, and its relations to other institutions. Second term: the dynamics of family interaction throughout the family life cycle. Prerequisite: 9 hours in sociology. Johannis.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

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

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

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

Soc 507. **Seminar.** Hours to be arranged.

Sociology of Science. Alpert.

Population Analysis. Martin

Comparative Family Systems. Johannis.

Theory Building. Dubin.

Urbanization. Martin.

The Professions. Bisno.

Mental Health and Social Structure. Bisno, Sundberg.

Primary Human Interaction. Dubin.

Family as a Small Group. Johannis.

Problems of Social Psychology. Berreman.

Systematic Sociology. Price.

Community Analysis. Foskett.

Social Stratification. Wishneff.

Marriage and Family Counseling. Johannis, Warnath.

Soc 537. **Social Movements.** 3 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 or Psy 334, 335 and graduate standing; or consent of instructor. Berreman.

Soc 556. **Experimental Sociology.** 3 hours.

Critical analysis of selected experiments in sociology; each student formulates a research problem and designs an experiment suitable for the testing of the hypothesis. Prerequisite: Mth 425 or consent of instructor.

COURSES OFFERED ONLY IN SUMMER SESSIONS AND EXTENSION

Soc 346. **Social Case Methods in Nursing.** 3 hours (extension).

Soc 347. **Social Welfare Resources and Organization.** 3 hours (extension).

Soc 508. **Workshop.** Hours to be arranged (summer sessions).

SW 507. **Seminar.** Hours to be arranged (extension).

SW 511, 512, 513. **Social Case Work.** 3 hours each term (extension).

SW 516, 517. **Personality Development.** 2 hours each term (extension).

SW 521. **Social Group Work.** 2 hours (extension).

- SW 556, 557. **Medical Information for Social Work.** 2 hours each term (extension).
- SW 572. **Community Organization for Social Welfare.** 3 hours (extension).
- SW 580. **Introduction to Public Welfare.** 3 hours (extension).
- SW 581. **The Child and the State.** 3 hours (extension).
- SW 582. **Administration of Social Insurances.** 3 hours (extension).
- SW 584. **Public Assistance: Policy and Method.** 3 hours (extension).

Speech

Professors: BOWER ALY, R. D. CLARK, H. W. ROBINSON, K. S. WOOD.

Associate Professors: HERMAN COHEN, W. A. DAHLBERG, E. A. KRETSINGER, K. E. MONTGOMERY, OTILIE T. SEYBOLT (emeritus), D. G. STARLIN (department head).

Assistant Professors: W. S. NOBLES, C. M. PECK, H. L. RAMEY, J. R. SHEPHERD, N. B. YOUNG.

Instructors: G. H. BARRETT, R. D. GROSS, A. J. JACOBS, W. R. MCGRAW, P. H. TUTTLE, K. K. ZOLLER.

Assistants: E. H. CRISTLER, R. B. DEVIN, D. G. DOUGLAS, W. Z. IRON, LOUISE A. KRAABEL, D. D. LEV, A. S. MILLER, V. L. THOMPSON.

THE DEPARTMENT OF SPEECH offers major curricula leading to the Bachelor of Arts, Bachelor of Science, Master of Arts, Master of Science, and Doctor of Philosophy degrees, with opportunities for study in rhetoric and public address, radio and television broadcasting, speech and hearing therapy, and theater.

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.

Practical experience in the various phases of the departmental program is provided through the University Theater, the University Symposium and forensic activities, the University Broadcasting Studios, and the Speech and Hearing Clinic.

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. The following requirements relate to this objective:

(a) To complement work in the department, the student must elect a minimum of 40 term hours of work in other departments which is of substantial value in relation to his major program; at least 18 term hours must be in upper-division courses. At the beginning of his senior year, each student must submit, for the approval of the faculty of the department, a list of the courses which he proposes to offer for the satisfaction of this requirement.

(b) A maximum of 60 term hours of work in speech may be included in the student's program for a bachelor's degree.

(2) Sufficient work in the several fields of speech instruction to provide an appreciation of the different areas of communication. The following requirements relate to this objective:

(a) Fundamentals of Speech (Sp 111, 112, 113) is required of all majors.

(b) Each student must complete one or more courses in each of two areas of

speech instruction outside his field of concentration. These courses must be chosen from the following: Argumentation, Persuasion, and Discussion (Sp 321); Public Discussion (Sp 221 or Sp 331); Theory and Literature of Rhetoric (Sp 301); Oratory (Sp 421, 422, 423), any term; Speech Science (Sp 371); Speech Pathology (Sp 481); Audiology (Sp 487); Radio and Television Workshop (Sp 341); Radio and Television Script Writing (Sp 347); Radio and Television and the Public (Sp 448); Theater Principles (Sp 261, 262, 263), three terms; Technique of Acting (Sp 351); Play Direction (Sp 364); History of the Theater (Sp 464, 465, 466), one term.

(c) A minimum of 40 term hours in speech courses is required, at least 25 of which must be upper-division courses.

(d) A minimum of 9 term hours of work in general psychology or in history is required of all majors.

(3) The mastery of at least one of the four following fields: rhetoric and public address, radio and television broadcasting, speech and hearing therapy, theater. The minimum requirements in the four fields are as follows:

(a) *Rhetoric and Public Address*: Public Discussion (Sp 221) or Advanced Public Discussion (Sp 331); Argumentation, Persuasion, and Discussion (Sp 321, 322, 323); Theory and Literature of Rhetoric (Sp 301, 203, 203) or Classical Oratory (Sp 421), British Oratory (Sp 422), American Oratory (Sp 423); Radio and Television Workshop (Sp 341); Phonetics (Sp 370) or Speech Pathology (Sp 481, 482).

(b) *Radio and Television Broadcasting*: Fundamentals of Broadcasting (Sp 241); Theater Principles (Sp 261, 262, 263) or Play Direction (Sp 364); Radio and Television Workshop (Sp 341); Radio Workshop (Sp 342, 343) or Television Workshop (Sp 344, 345); Radio and Television Script Writing (Sp 347, 348, 349); Phonetics (Sp 370); Radio and Television and the Public (Sp 448).

(c) *Speech and Hearing Therapy*: Phonetics (Sp 370); Speech Science (Sp 371); Speech Pathology (Sp 481, 482, 483); Clinical Speech Therapy (Sp 484, 485, 486); Audiology (Sp 487).

(d) *Theater*: Theater Principles (Sp 261, 262, 263); Production Workshop (Sp 264, 265, 266); 5 term hours selected from Pantomime (Sp 251) and Technique of Acting (Sp 351, 352); Appreciation of Drama (Sp 267, 268) and Appreciation of the Motion Picture (Sp 269) or History of the Theater (Sp 464, 465).

Rhetoric and Public Address

LOWER-DIVISION COURSES

Sp 111, 112, 113. **Fundamentals of Speech.** 3 hours each term.

Projects in extempore speaking. Primary emphasis on content and organization, with attention also to the student's adjustment to the speaking situation, effective delivery, audience motivation, and language of speech. Sp 111, 112 not open to students who have taken Sp 235.

Sp 221. **Public Discussion.** 2 hours winter or spring.

Preparation of speeches for delivery before public audiences. Nobles.

Sp 235. **Public Speaking.** 5 hours any term.

Theory and practice of public speaking, with constructive criticism of performance. Particular attention to individual problems in speechmaking. Not open to freshmen or to students who have taken either Sp 111 or Sp 112.

UPPER-DIVISION COURSES

- Sp 301, 302, 303. **Theory and Literature of Rhetoric.** 3 hours each term.
Selected readings on the principles of rhetoric and public address from Plato to modern times. Cohen.
- Sp 321, 322, 323. **Argumentation, Persuasion, and Discussion.** 3 hours each term.
Fall: argumentation; winter: audience motivation and nature of audience response; spring: principles and practice in various discussion forms. Dahlberg, Nobles.
- Sp 331, 332. **Advanced Public Discussion.** 2 hours each term, winter and spring.
Preparation of speeches to be delivered before public audiences. Prerequisite: consent of instructor. Nobles.
- Sp 407. **Seminar.** Hours to be arranged.
- Sp 411. **Speech for the Classroom Teacher.** 3 hours spring.
Instruction in speech and speech forms designed for use in the school classroom. Dahlberg.
- Sp 421. **Classical Oratory.** (G) 3 hours.
Rhetorical criticism of masterpieces of Greek and Roman oratory. Aly, Dahlberg.
- Sp 422. **British Oratory.** (G) 3 hours.
British oratory from Pitt to modern times. Aly, Cohen, Montgomery.
- Sp 423. **American Oratory.** (G) 3 hours.
Study of selected American orations. Aly, Nobles.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

- Sp 501. **Research.** Hours to be arranged.
- Sp 503. **Thesis.** Hours to be arranged.
- Sp 505. **Reading and Conference.** Hours to be arranged.
- Sp 507. **Seminar.** Hours to be arranged.
Introduction to Graduate Study.
Argumentation and Debate.
- Sp 511. **Eighteenth-Century Rhetorical Theory.** 3 hours.
The neoclassical interpretation of the canons of ancient rhetorical theory, and its relationship to the literary criticism, aesthetics, and logic of the period. Cohen.
- Sp 512. **American Public Address.** 3 hours.
The history of public speaking in the United States, with emphasis on the relation of historical development to current problems in criticism. Aly.
- Sp 513. **Recent Rhetorical Criticism.** 3 hours.
The revival of the Aristotle-Cicero canon; the impact of contemporary literary criticism on rhetoric; the relevance of content analysis to rhetorical criticism. Clark.

COURSES OFFERED ONLY IN SUMMER SESSIONS AND EXTENSION

- Sp 225, 226. **Public Speaking for Business and Professional Men and Women.** 2 hours each term.
- Sp 424. **Speech Forms and Techniques in Group Control.** (g) 3 hours.

Radio and Television Broadcasting

LOWER-DIVISION COURSE

Sp 241. Fundamentals of Broadcasting. 2 hours any term.

General survey of broadcasting, including history, growth, social aspects, laws and policies, station and network organization, programming, the advertiser, the listener, public interest, standards of criticism, comparison of broadcast systems, international broadcasting and propaganda. Shepherd.

UPPER-DIVISION COURSES

Sp 341. Radio and Television Workshop. 2 hours.

Broadcast performance technique; physical, acoustic, and mechanical theory and its application; interpretative theory and its application. Prerequisite: consent of instructor. Shepherd, Kretsinger.

Sp 342, 343. Radio Workshop. 2 hours each term.

Theory and practice of radio broadcasting. Prerequisite: Sp 341. Starlin.

Sp 344, 345. Television Workshop. 2 hours each term.

Theory and practice of television broadcasting. Prerequisite: Sp 341. Shepherd, Kretsinger.

Sp 347, 348, 349. Radio and Television Script Writing. 2 hours each term.

Radio and television writing techniques; theory and practice in the writing of all major continuity types. Prerequisite: junior standing. Kretsinger, Starlin.

J 407. Seminar. Hours to be arranged.

Radio-television station policies. Television problems.

Sp 407. Seminar. Hours to be arranged.

J 431. Radio-Television News I. 3 hours.

For description see SCHOOL OF JOURNALISM.

J 432. Radio-Television News II. (G) 3 hours.

For description see SCHOOL OF JOURNALISM.

J 441. Radio-Television Advertising. (G) 3 hours.

For description see SCHOOL OF JOURNALISM.

Sp 444. Radio-Television Direction. (G) 3 hours.

Theory and technique involved in the broadcasting directorial assignment. Practice in directing typical formats developed for radio and television. Prerequisite: consent of instructor. Shepherd.

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

Problems and procedures in the synthesis of talent, material, sponsorship, etc. in broadcast production. Preparation and production of live broadcasts. Prerequisite: Sp 444; consent of instructor. Shepherd.

Sp 446. Radio-Television Programming. (G) 3 hours.

Analysis of values, trends, and procedures in programming broadcast schedules; problems in planning program structure to meet community and public service needs. Prerequisite: consent of instructor. Shepherd.

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

The influence and importance of broadcasting as a social, political, and cultural force; the development of broadcasting; commercial versus service broadcasting; the rights and duties of listeners; public opinion and propaganda influence. Shepherd, Starlin.

Sp 469. Lighting for Television. (G) 2 hours.

Functions of light in the television studio; theories, methods, and special equipment for lighting television productions. Prerequisite: Sp 263 or consent of instructor. Peck, Ramey.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

- Sp 501. **Research.** Hours to be arranged.
- Sp 503. **Thesis.** Hours to be arranged.
- Sp 505. **Reading and Conference.** Hours to be arranged.
- Sp 507. **Seminar.** Hours to be arranged.
Introduction to Graduate Study.
Problems of Education by Television.
- Sp 541. **Theory and Criticism of Broadcasting.** 3 hours.
A comparative study of systems of broadcasting; the development of ethical, artistic, and critical standards in radio and television. Starlin.
- Sp 544. **Radio-Television Program Evaluation.** 3 hours.
Background and development of broadcast measurements; experimental and survey procedures applicable to the testing of hypotheses in these media. Prerequisite: Mth 425 or equivalent. Kretsinger, Shepherd.

Speech and Hearing Therapy

LOWER-DIVISION COURSE

- Sp 120. **Voice and Diction.** 3 hours any term.
Study and practice of the principles of tone production. Phonetic analysis of English sounds as a basis for correct and effortless diction. Intended for students who have slight deviations in voice and diction. Montgomery.

UPPER-DIVISION COURSES

- Sp 370. **Phonetics.** 3 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. Montgomery.
- Sp 371. **Speech Science.** 3 hours.
A study of the anatomy, psychology, and physics of speech. Wood.
- Sp 407. **Seminar.** Hours to be arranged.
- Sp 472. **Experimental Phonetics.** (G) 3 hours.
Experimental methods in voice and phonetics; analysis and measurement of variables in the production of speech. 1 hour of laboratory work required. Prerequisite: Sp 370, Sp 371 or consent of instructor. Wood.
- Sp 481, 482, 483. **Speech Pathology.** (G) 3 hours each term.
Symptoms, causes, and treatment of speech abnormalities. Fall: functional articulatory defects, delayed speech, emotional speech disorders; winter: organic speech disorders, including deviations due to congenital malformation, injury, deafness, and neurological impairment; spring: public school speech correction, specific techniques in the diagnosis and treatment of major speech problems. Sp 370, Sp 371 or consent of instructor. Wood.
- Sp 484, 485, 486. **Clinical Speech Therapy.** (G) 2 hours each term.
Supervised clinical work with speech-defective children and adults enrolled for counseling, testing, and treatment in the Speech and Hearing Clinic; group discussion of case histories and techniques. Prerequisite: Sp 481, 482 or consent of instructor. Wood.
- Sp 487, 488, 489. **Audiology.** (G) 3 hours each term.
The auditory function, hearing impairment, and the education or re-education of persons with hearing loss. Fall: anatomy of the ear, psychophysics of hearing, physical attributes of speech sounds, types and causes of hearing loss, speech involvements of deafness; winter: auditory tests and their clinical in-

terpretation, selection and use of hearing aids; spring: lip reading, speech and auditory training, psychology of deafness, school and vocational problems. Prerequisite: Sp 370, Sp 371 or consent of instructor. Young, Wood.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

- Sp 501. **Research.** Hours to be arranged.
 Sp 503. **Thesis.** Hours to be arranged.
 Sp 505. **Reading and Conference.** Hours to be arranged.
 Sp 507. **Seminar.** Hours to be arranged.
 Introduction to Graduate Study.
 Psychology of Speech.

COURSES OFFERED ONLY IN SUMMER SESSIONS AND EXTENSION

- Sp 392. **Principles and Techniques of Speech Correction.** 3 hours (extension and summer sessions).
 Sp 490. **Lip Reading for the Deaf and Hard-of-Hearing.** (G) 3 hours (extension).
 Sp 491. **Advanced Language Development for the Deaf.** (G) 3 hours (extension).
 Sp 492. **Voice and Speech for the Deaf.** (G) 3 hours (extension).

Theater

LOWER-DIVISION COURSES

- Sp 211. **Interpretation.** 2 hours.
 The application of the principles of oral reading to literature. McGraw, Tuttle.
 Sp 251. **Pantomime.** 2 hours.
 Elementary principles of acting technique. McGraw, Robinson.
 Sp 252. **Make-Up.** 1 hour.
 The history, purpose, and techniques of application of theatrical make-up; the use of make-up in the various theatrical media, with emphasis on stage and television performers. Peck, Tuttle.
 Sp 261, 262, 263. **Theater Principles.** 1 hour each term.
 Development of the physical theater; the mechanics of its stage and shops; planning and construction of stage settings and properties; basic principles of stage lighting. Peck.
 Sp 264, 265, 266. **Production Workshop.** 2 or 3 hours each term.
 Practical experience in the construction, painting, and handling of scenery, and in the lighting of plays. Prerequisite: Sp 261, 262, 263 or concurrent enrollment. Peck.
 Sp 267, 268. **Appreciation of Drama.** 2 hours each term.
 Study of design, acting, and playwriting, for the purpose of achieving a better appreciation of the drama. McGraw.
 Sp 269. **Appreciation of the Motion Picture.** 2 hours.
 Study of the motion picture as a dramatic art form. Robinson.

UPPER-DIVISION COURSES

- Sp 311, 312. **Advanced Interpretation.** 2 hours each term.
 Instruction in the discovery and oral expression of meaning and feeling in prose, poetry, and dramatic literature. Prerequisite: Sp 211 or consent of instructor. Tuttle.

- Sp 315. **Costume Workshop.** 3 hours.
Instruction in the art and craft of stage costuming; practical experience in the design, construction, and maintenance of theatrical costumes. Peck.
- Sp 351. **Technique of Acting: Voice.** 3 hours.
Problems in the use of voice in dramatic roles. Robinson.
- Sp 352. **Technique of Acting: Characterization.** 3 hours.
Problems in the analysis and presentation of characters. Robinson.
- Sp 353. **Advanced Acting.** 3 hours.
Advanced problems in acting technique; study, rehearsal, and performance. Prerequisite: Sp 251, Sp 351, 352; consent of instructor. Robinson.
- Sp 364. **Play Direction.** 3 hours.
Sources of dramatic material, choice of plays, casting and rehearsal of players, production organization; practical experience in directing. 6 or more laboratory periods. McGraw, Tuttle, Robinson.
- Sp 365. **Direction of Children's Theater.** 3 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. Prerequisite: Sp 364. Tuttle.
- Sp 366. **Advanced Play Direction.** 3 hours.
Advanced practice in direction of plays for public performance. Prerequisite: Sp 364 or consent of instructor. Tuttle.
- Sp 407. **Seminar.** Hours to be arranged.
- Sp 461. **Introduction to Scene Design.** (G) 3 hours.
Basic principles and techniques of theatrical design for the school and community theater. Prerequisite: Sp 261, 262, 263 or consent of instructor. Peck.
- Sp 462. **Styles in Scene Design.** (G) 3 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: Sp 461. Peck.
- Sp 463. **Advanced Problems in Scene Design.** (G) 3 hours.
Selected problems in the design of dramatic productions. Prerequisite: Sp 461, Sp 462; consent of instructor. Peck.
- Sp 464, 465, 466. **History of the Theater.** (G) 3 hours each term.
A historical study of the theater from ancient to modern times. Tuttle.
- Sp 467, 468. **Lighting for the Stage.** (G) 2 hours each term.
The functions of lighting on the stage. Fall: the qualities of light, lighting instruments, control systems; winter: theories and methods of lighting stage productions. Prerequisite: Sp 263 or consent of instructor. Peck.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

- Sp 501. **Research.** Hours to be arranged.
- Sp 503. **Thesis.** Hours to be arranged.
- Sp 505. **Reading and Conference.** Hours to be arranged.
- Sp 507. **Seminar.** Hours to be arranged.
Introduction to Graduate Study.
Technical Problems of the Theater.
Interpretation.
- Sp 551, 552, 553. **Theory of Dramatic Production.** 3 hours each term.
Fall: theory of acting; winter: theory of dramatic direction; spring: theory of dramatic structure. Robinson, Tuttle.

Bureau of Municipal Research and Service

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THE BUREAU OF MUNICIPAL RESEARCH AND SERVICE carries on a comprehensive program of research and service in the field of local government. A reference library is maintained and an information service provided for public officials and civic groups on various aspects of municipal administration and public finance. Special studies are conducted, at the request of legislative interim committees and public officials, in the broader fields of state government, public finance, and public law. The bureau cooperates with the League of Oregon Cities in providing a consultation service on problems related to local legislation, charter revision, ordinance codification, municipal budgeting, revenue and taxation, law and general administration. A program of planning assistance to city and regional governmental agencies in Oregon, authorized by the Oregon Legislature, is administered by the bureau.

Assistance is provided in conducting in-service training programs for local officials in cooperation with the Oregon Finance Officers Association and the Oregon Association of City Police Officers.

The bureau publishes several series of bulletins, intended primarily as a service to city officials in the state of Oregon, as well as special research studies.

School of Architecture and Allied Arts

WALTER GORDON, M.F.A. in Arch., Dean of the School of Architecture and Allied Arts.

FRANCES S. NEWSOM, M.A., Architecture and Allied Arts Librarian.

Professors: W. S. BALDINGER, H. W. BUFORD, F. A. CUTHBERT, WALTER GORDON, F. T. HANNAFORD, W. S. HAYDEN, D. J. MCCOSH, M. D. ROSS, A. M. VINCENT.*

Associate Professors: G. F. ANDREWS, T. O. BALLINGER, EYLER BROWN, R. R. FERENS, BROWNELL FRASIER, G. S. JETTE, MAUDE I. KERNS (emeritus), VICTORIA A. ROSS, W. M. RUFF,* JACK WILKINSON.

Assistant Professors: J. K. BALZHISER, DALE BENEDICT, P. F. BOGEN, LLOYD BOND, A. S. BOYARSKY, J. L. BRISCOE, S. W. BRYAN, J. W. BURGNER, TING-LI CHO, P. H. DOLE, D. C. FOSTER, C. R. HAUGH, L. F. HODGDEN, R. C. JAMES, E. E. MOURSUND, C. B. RYAN, JAN ZACH.

Instructors: A. E. EDELMAN, ELIZABETH FINKENSTAEDT, JANE GEHRING, C. M. NIXON, J. V. SOEDER, PAUL TETZNER.

Lecturer: J. H. QUINER.

Assistants: CRAIG CHESHIRE, CHARLES FORRESTER, DAVID HOSFIELD, C. E. KAUFMAN, PAULINE H. LILJE, R. W. NEPERUD.

THE SCHOOL OF ARCHITECTURE AND ALLIED ARTS offers instruction leading to baccalaureate and advanced degrees in the fields of architecture, interior architecture, landscape architecture, urban planning, drawing and painting, sculpture, ceramics, weaving, jewelry and metalsmithing, art history, and art education. All lower-division courses in the school, and all courses in art history, may be elected by nonmajors.

The school is organized as an integrated unit, without formal departmentalization. This form of organization reflects and facilitates the school's policy of cooperative teaching to bring the resources and insights of the several arts to bear on common problems of design.

Admission. The major curricula in the fields listed above are organized on an upper-division and graduate basis. Freshman students intending to major in any of these fields are enrolled in the College of Liberal Arts and pursue, for two years, a program combining liberal arts courses with introductory preprofessional courses in the School of Architecture and Allied Arts.

The lower-division preprofessional courses are planned to provide continuity of training and experience in the several major fields throughout the student's undergraduate years. Educational continuity is further insured through the assignment of members of the faculty of the School of Architecture and Allied Arts as advisers to preprofessional students.

Before admission as professional majors, students must satisfy all lower-division requirements of the University and the College of Liberal Arts.

Students transferring to the University from other collegiate institutions for work in the School of Architecture and Allied Arts must satisfy the regular lower-

* On sabbatical leave 1959-60.

division requirements, including both liberal arts and preprofessional requirements, before admission as professional majors. Credit may be transferred for courses that are the equivalent of University offerings; but transfer students wishing credit, toward major requirements, for upper-division professional work completed at another institution must first submit evidence of ability for performance at an advanced level.

Facilities. The school is housed in Lawrence Hall, named in memory of Ellis F. Lawrence, first dean of the School of Architecture and Allied Arts. The building contains drafting rooms, exhibition rooms, studios, classrooms, a library, and staff offices.

The school provides desks, easels, and certain materials that are not readily available for individual purchase. Students supply their own instruments and drawing materials; these materials are obtainable from a branch of the University Co-operative Store maintained in Lawrence Hall.

The Architecture and Allied Arts Library is a reference collection of about 4,500 books, administered as a branch of the University Library.

All work done by students is the property of the school unless other arrangements are approved by the instructor.

Graduate Work. The School of Architecture and Allied Arts offers graduate work leading to master's degrees in architecture, landscape architecture, urban planning, drawing and painting, sculpture, ceramics, weaving, art education, and art history. Graduate programs may emphasize either creative work or technical, theoretical, and historical studies. The following degrees are granted:

Master of Architecture—for creative work in architectural design or urban planning.

Master of Landscape Architecture—for creative work in landscape design or urban planning.

Master of Fine Arts—for creative work in drawing and painting, sculpture, ceramics, or weaving.

Master of Arts, Master of Science—for historical and theoretical studies in the visual arts, art education, and urban planning.

Graduate work in the school is governed by the regulations of the University Graduate School and by special requirements of the School of Architecture and Allied Arts. These special requirements, which apply particularly to graduate work of a creative nature leading to the M.Arch., M.L.Arch., or M.F.A. degree, are as follows:

(1) A student applying for admission for creative work at the graduate level must submit to the dean of the School of Architecture and Allied Arts photographs of recent work or other materials indicating creative ability.

(2) The student's qualifying examination, required by the Graduate School before the completion of 15 term hours of graduate work, must include a display of creative work done both before and after admission to graduate standing.

(3) The requirements for the M.Arch., M.L.Arch., and M.F.A. degree include the completion of a creative terminal project. The student's plan for his terminal project must be approved by his graduate committee before it is undertaken.

(4) On the completion of his terminal project, the student must submit as a supplement three copies of a typewritten report describing the development of the project, the materials and equipment employed, and the technical procedures followed, and giving other essential information bearing on the project; the report should be documented by photographs.

(5) After the completion of the terminal project, but before his final examination, the student must install a public exhibition presenting the several parts of the project. The School of Architecture and Allied Arts reserves the right to retain any part of the material exhibited as an indefinite loan.

(6) After the installation of the exhibition, but before public showing, the project is given a final review by the graduate committee, in the presence of the candidate. The review is accompanied by an oral examination of the candidate, which may be supplemented by a written examination.

Architecture

THE CURRICULUM IN ARCHITECTURE, leading to the degree of Bachelor of Architecture, is a three-year program following two years of preprofessional work. The preprofessional program includes lower-division courses which provide acquaintance with the more elementary aspects of architecture; these courses are organized to insure continuity with the professional work begun in the third year. The following courses are required for admission to an upper-division major in architecture:

	Term Hours
Design Studio I (AA 187).....	6
Painting (AA 290).....	6
Elementary Sculpture (AA 293).....	6
Architectural Design (AA 287).....	6
Construction Materials (AA 121).....	2
Interior Design (AA 288).....	2
Landscape Design (AA 289).....	2
Graphics (AA 211, 212, 213).....	6
Survey of Visual Arts (AA 201, 202, 203).....	9
*Mathematics (Mth 105, 106, 107 or Mth 201, 202, 203).....	12
*Essentials of Physics (Ph 101, 102, 103).....	9
Social science	9

Because the upper-division program is planned in continuity with the basic courses offered during the first two years, students intending to major in architecture at the University of Oregon are strongly advised to enter the University as freshmen, in order to profit by this continuous training. In special cases, however, students transferring from other institutions, with preprofessional preparation differing in some respects from the pattern indicated above, may be admitted to the professional curriculum.

The major option in design includes the following required courses:

Third Year	Term Hours
Architectural Design (AA 387).....	12
Mechanical Equipment of Buildings (AA 320, 321, 322).....	9
Theory of Structures I (AA 369, 370, 371).....	12
History of Architecture I (AA 337, 338, 339).....	9
City Planning I (AA 353, 354, 355).....	6
Fourth Year	
Architectural Design (AA 487).....	15
Theory of Structures II (AA 469, 470, 471).....	9
History of Architecture II (AA 340, 341, 342).....	9
Surveying for Architects (AA 317).....	2
Fifth Year	
Architectural Design (AA 587).....	18
Ethics & Practice (Architecture) (AA 529).....	2
Working Drawings, Specifications & Estimating (AA 417, 418, 419).....	6
Architecture & art electives	15

The requirements for the structural option include the courses listed above and, in addition:

Differential and Integral Calculus (Mth 201, 202, 203).....	12
Theory of Structures III (AA 472, 473, 474).....	12

* Satisfies also science group requirement in liberal arts.

The following regulations govern the curriculum in architecture and the granting of the degree of Bachelor of Architecture:

(1) A student may obtain each year credits in excess of those called for in the curriculum, by demonstrating through examination that he has professional training, through experience or otherwise, which will justify the granting of additional credit and more rapid progress toward the degree.

(2) The student must earn 220 term hours of credit, of which 147 hours must be in the School of Architecture and Allied Arts. He must have completed all of the professional work of the five-year program, and must have satisfied all University requirements for graduation. A minimum of one year of residence is required.

(3) A student may take elective subjects in addition to the electives scheduled in the curriculum, provided his record for the preceding years show no grade below C.

(4) Before the professional degree is granted, the student must complete satisfactorily each division of design. By special permission of the dean, a student may be allowed to do the work required in the courses in design as rapidly as he is able. By arrangement with the Registrar, credit for work done in these courses before formal registration will be entered in the student's record when certified by the dean.

(5) The five-year program is planned for students of average preparation and ability. Students with superior preparation and ability may, through examination as provided under Rule 1, or by presenting work in design as provided under Rule 4, complete the required number of hours of professional work and graduate in less than five years.

Graduate work is offered in architecture, leading to the Master of Architecture degree. For requirements, see pages 197-198.

The curriculum in architecture is accredited by the National Architectural Accrediting Board.

Business and Construction. Under the joint supervision of the School of Architecture and Allied Arts and the School of Business Administration, the University offers a five-year program of study for students who plan to enter the construction industry. The program, which leads to a bachelor's degree with a major in business administration, combines training in business methods and in the structural phases of architecture. For requirements see pages 229-230.

LOWER-DIVISION COURSES

AA 121. Construction Materials. 2 hours any term.

Materials and techniques of construction used in buildings and their furnishings. Materials utilized in framing, fabrication, enveloping, surfacing, and finishing. Aspects of color, scale, texture; techniques for use. Manufacture, distribution, availability, maintenance, and depreciation. Field trips, demonstrations, illustrated lectures, and laboratory investigation. Bryan.

AA 187. Design Studio I. 2 hours any term.

No-grade course. Human environment and design processes. Integration of natural materials with man-made materials in studio exercises. Color phenomena and their use in architectural design. Three-dimensional design applied to structural space. Model construction. 6 hours required for majors in architecture, interior architecture, and landscape architecture. Foster, Hayden, Hodgden, James.

AA 211, 212, 213. Graphics. 2 hours each term.

Intensive study of systems of drawing. Orthographic projection, descriptive geometry. Integration of the media and methods controlling delineation and other expressions of architectural subjects. 6 hours required for majors in architecture. Edelman, Brown, Moursund.

AA 287. Architectural Design. 2 hours each term.

No-grade course. Design and planning processes by which architectural structures are conceived and executed. Site location, function, organization of space and form, scale, proportion, etc. Review of executed models and drawings. Required of all majors in architecture, interior architecture, and landscape architecture. Prerequisite: AA 187. Andrews, Bogen, Cho, Ferens, Moursund.

UPPER-DIVISION COURSES

- AA 317. **Surveying for Architects.** 2 hours fall or spring.
Elements of plane surveying adapted to the needs of architects; field practice in the use of steel tape, level, and transit; determination of building-plot contours and their interpretation on plot-plan drawings; methods of calculating excavations and fills for building purposes. Quiner.
- AA 320, 321, 322. **Mechanical Equipment of Buildings.** 3 hours each term.
Principles of plumbing, heating, ventilation, lighting, acoustics. Prerequisite: Ph 101, 102, 103; Mth 105. Balzhiser.
- AA 369, 370, 371. **Theory of Structures I.** 4 hours each term.
Application of mathematics to the design of building structures. Wood and steel construction; beams, columns, and simple frames; the relationship of structural design to architectural design. Prerequisite: algebra and trigonometry. Briscoe.
- AA 387. **Architectural Design.** 1 to 8 hours any term.
No-grade course. Planning and design, beginning a three-year sequence of intensive study in programming, theoretical analysis, and problem solution. Instruction includes field trips, seminars, and discussions. Prerequisite: AA 287, AA 288, AA 289. Benedict, Bryan, Dole, Ferens.
- AA 401. **Special Studies.** Hours to be arranged.
- AA 405. **Reading and Conference.** Hours to be arranged.
- AA 407. **Seminar.** Hours to be arranged.
- AA 417, 418, 419. **Working Drawings, Specifications, and Estimating.** 2 hours each term.
The preparation of working drawings, including scale and full-sized details; architectural specifications; field supervision of building construction. Bryan.
- AA 420, 421, 422. **Building Materials and Construction.** 3 hours each term.
Study of the materials and methods of building construction. Contract documents and their use. Materials and labor estimating methods used by contractors and material dealers. Hannaford.
- AA 469, 470, 471. **Theory of Structures II.** (G) 3 hours each term.
Wood and steel building trusses, reinforced-concrete building construction; retaining walls, footings, and foundations for buildings. Prerequisite: AA 369, 370, 371. Hannaford.
- AA 472, 473, 474. **Theory of Structures III.** (G) 4 hours each term.
Continuous frames, rigid frames, and their effects on architectural design. A series of problems, presented in conjunction with fifth-year architectural design. Elective for design majors, required for structural majors. Hannaford.
- AA 487. **Architectural Design.** 1 to 10 hours any term.
No-grade course. Second year of design sequence. Students work in the drafting room under individual observation of staff members. Field trips, seminars. Prerequisite: 12 term hours in AA 387. Andrews, Bogen, Cho.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

- AA 501. **Special Studies.** Hours to be arranged.
- AA 505. **Reading and Conference.** Hours to be arranged.
- AA 507. **Seminar.** Hours to be arranged.
- AA 509. **Terminal Creative Project.** Hours to be arranged.
- AA 529. **Ethics and Practice (Architecture).** 2 hours fall or spring.
No-grade course. Problems of professional ethics, business relations, office management, etc. Open only to fifth-year students. Gordon.

AA 587. Architectural Design. 1 to 12 hours any term.

No-grade course. Third year of design sequence. The student assumes greater individual responsibility in the execution of design and planning studies. Second half of the year devoted to development of final qualifying professional project. Field trips, seminars. Prerequisite: 15 term hours in AA 487. Boyarsky, Hayden, Hodgden.

Interior Architecture

THE CURRICULUM IN INTERIOR ARCHITECTURE, leading to the degree of Bachelor of Interior Architecture, is a three-year upper-division program following two years of preprofessional work. The preprofessional program includes lower-division courses which provide an orientation in the more elementary aspects of interior design, organized to provide continuity with the professional work begun in the third year. The curriculum is planned to prepare students for professional practice in the field.

For students who do not intend to practice professionally, the school also offers a two-year upper-division program in interior design, following two years of preprofessional work; this program leads to the Bachelor of Science degree.

The following lower-division courses are required in the preprofessional program:

	Term Hours
Design Studio I (AA 187).....	6
Painting (AA 290).....	6
Sculpture (AA 293).....	6
Architectural Design (AA 287).....	6
Construction Materials (AA 121).....	2
Interior Design (AA 288).....	2
Landscape Design (AA 289).....	2
Graphics (AA 211, 212, 213).....	6
Survey of Visual Arts (AA 201, 202, 203).....	9

In the upper-division program, the student is assigned individual problems in interior planning; emphasis is placed on creative development. Individual criticism is supplemented by lectures by members of the school faculty. The student works in the same drafting room and is closely associated with the students and instructors in architecture and landscape design. The following courses are required in the three-year upper-division program:

	Term Hours
Third Year	
Interior Design (AA 388).....	12
Materials of Interior Architecture (AA 330, 331, 332).....	9
Ceramics (AA 255) or Weaving (AA 256).....	6
History of Architecture I (AA 337, 338, 339).....	9
Fourth Year	
Interior Design (AA 488).....	15
History of Interior Architecture (AA 443, 444, 445).....	6
Furniture & Accessories (AA 424).....	2
Custom Cabinet & Furniture Design (AA 425, 426).....	8
Advanced Ceramics (AA 455) or Advanced Weaving (AA 456).....	6
History of Architecture II (AA 340, 341, 342).....	9
Fifth Year	
Interior Design (AA 588).....	18
Ethics & Office Practice (Interior) (AA 530).....	2
Working Drawings in Interior Arch. (AA 462, 463, 464).....	9
Workroom Procedures in Interior Design (AA 449).....	1
Electives in art & architecture.....	9

The curriculum in interior architecture and the granting of the degree of Bachelor of Interior Architecture are governed by the same regulations set forth above for the curriculum and professional degree in architecture (see page 199).

LOWER-DIVISION COURSES

AA 223. **Elements of Interior Design.** 2 hours.

Introduction to the techniques of interior design; materials, colors, textures. Primarily for nonmajors. Frasier.

AA 288. **Interior Design.** 2 hours any term.

No-grade course. Design and planning processes by which interior spaces and forms are studied and executed. Required of all majors in architecture, interior architecture, and landscape architecture. Open to nonmajors. Frasier, Benedict.

UPPER-DIVISION COURSES

AA 330, 331, 332. **Materials of Interior Design.** 3 hours any term.

Study of the nature and general uses of all types of raw, processed, and finished materials used in interior design. Fibers, fabrics, woods, synthetics, paper, ceramics, etc. used in wall and floor coverings, furnishings, and accessories. Open only to professional majors. Frasier.

AA 388. **Interior Design.** 1 to 8 hours any term.

No-grade course. A series of problems in interior design, beginning intensive study in the analysis of professional problems. Individual criticisms. Prerequisite: AA 287, AA 288, AA 289. Frasier, Benedict.

AA 401. **Special Studies.** Hours to be arranged.AA 405. **Reading and Conference.** Hours to be arranged.AA 407. **Seminar.** Hours to be arranged.AA 424. **Furniture and Accessories.** 2 hours.

Analysis of standard lines of decorator furniture and accessories, with emphasis on their design qualities, materials, methods of manufacture, etc. Benedict.

AA 425, 426. **Custom Cabinet and Furniture Design.** 4 hours each term.

First term: series of projects in design of custom cabinets and furniture; second term: preparation of detailed shop drawings for construction of projects designed during the winter term. Prerequisite: AA 424. Open to nonmajors with consent of instructor.

AA 449. **Workroom Procedure in Interior Design.** 1 hour.

Procedures in patterning, cutting, and assembly of drapery, upholstery, and related interior materials. Visits to workrooms. For professional majors only. Frasier.

AA 462, 463, 464. **Working Drawings in Interior Architecture.** 3 hours each term.

Preparation of working drawings, specifications, and estimates for materials and labor on projects in interior design. For professional majors only. Benedict.

AA 488. **Interior Design.** 1 to 10 hours any term.

No-grade course. A series of problems in interior design, intended to develop the analytical approach, with emphasis on integration with architecture. Some attention to period design. Individual criticisms. Prerequisite: 12 term hours in AA 388. Benedict, Frasier.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

AA 501. **Special Studies.** Hours to be arranged.AA 505. **Reading and Conference.** Hours to be arranged.AA 507. **Seminar.** Hours to be arranged.AA 509. **Terminal Creative Project.** Hours to be arranged.

AA 530. Ethics and Practice (Interior). 2 hours.

Ethics and office procedure for the interior designer in private practice; trade contracts, discounts, interprofessional relations; sources of materials.

AA 588. Interior Design. 1 to 12 hours any term.

No-grade course. Professional interior-design problems of increasing complexity. Individual criticisms, public presentations. One term devoted to a terminal project. Frasier, Benedict.

Landscape Architecture and Urban Planning

THE CURRICULUM IN LANDSCAPE ARCHITECTURE, leading to the degree of Bachelor of Landscape Architecture, is a three-year program following two years of preprofessional work. The following courses are required for admission to an upper-division major in landscape architecture:

	Term Hours
Design Studio I (AA 187).....	6
Construction Materials (AA 121).....	2
Graphics (AA 211, 212, 213).....	6
Architectural Design (AA 287).....	6
Interior Design (AA 288).....	2
Landscape Design (AA 289).....	2
Survey of Visual Arts (AA 201, 202, 203).....	9
Painting (AA 290).....	6
Sculpture (AA 293).....	6
Science group	12
Humanities group	9

The program provides the student with a broad educational background, together with technical studies essential for the professional practice of landscape architecture. Courses in the field are supplemented by courses in art, architectural design, construction, and city planning. Majors in landscape architecture work side by side with students of architecture and interior architecture, and have the benefit of design criticism from the entire faculty of the School of Architecture and Allied Arts. Opportunities are provided for collaboration on design problems by landscape and architecture students. The instructional program includes field trips to acquaint students with outstanding examples of the design and construction of parks, cemeteries, airports, private properties and subdivisions, golf courses, and planned civic developments—and for study of the use of various plant materials under difficult conditions of climate, soil, and exposure.

Students planning to major in landscape architecture may obtain necessary preparation in mathematics by completing courses in high-school mathematics through trigonometry.

The following upper-division courses are required for a major in landscape architecture:

	Third Year	Term Hours
Landscape Design (AA 389).....	9	9
Plant Materials (AA 326, 327, 328).....	9	9
Landscape Structures (AA 366).....	3	3
Landscape Maintenance (AA 359, 360).....	4	4
Landscape Construction I (AA 361, 362).....	2	2
City Planning I (AA 353, 354, 355).....	6	6
Surveying for Architects (AA 317).....	2	2
Fourth Year		
Landscape Design (AA 489).....	12	12
Plant Composition (AA 430, 431, 432).....	9	9
Landscape Field Practice (AA 459).....	3	3
Landscape Construction II (AA 460, 461).....	6	6
History & Literature of Landscape Architecture (AA 356, 357).....	6	6
History of Architecture II (AA 342).....	3	3

Fifth Year	Term Hours
Landscape Design (AA 589).....	18
Ethics & Practice (Landscape) (AA 433, 434, 435).....	3
City Planning II (AA 499).....	6
Seminar in Planning & Housing (AA 508).....	6
Electives	6

The curriculum in landscape architecture and the granting of the degree of Bachelor of Landscape Architecture are governed by the same regulations set forth above for the curriculum and professional degree in architecture (see page 199).

Graduate work is offered in landscape architecture, leading to the degree of Master of Landscape Architecture, and in urban planning, leading to the degree of Master of Arts or Master of Science. For requirements, see pages 197-198.

The curriculum in landscape architecture is accredited by the American Society of Landscape Architects.

LOWER-DIVISION COURSE

AA 289. Landscape Design. 2 hours any term.

No-grade course. Study of the background and principles of landscape design; lectures, field trips, design of small properties. Required of all majors in architecture, interior architecture, and landscape architecture. Open to nonmajors. Jette, Haugh.

UPPER-DIVISION COURSES

AA 326, 327, 328. Plant Materials. 3 hours each term.

The characteristics, identification, and design uses of trees, shrubs, vines, and flowers. Open to nonmajors with consent of instructor. Jette.

AA 353, 354, 355. City Planning I. 2 hours each term.

Fall and winter: history and significance of city planning; modern achievements in zoning, housing, and city and regional planning. Spring: economic, practical, and aesthetic factors. Dole.

AA 359, 360. Landscape Maintenance. 2 hours each term.

Cultivation of landscape plant materials; maintenance problems in relation to landscape architecture. Ruff.

AA 361, 362. Landscape Construction I. 1-3 hours each term.

Elementary problems in the construction of landscape features. Haugh.

AA 366. Landscape Structures. 3 hours.

The design and construction of simple wood and masonry landscape structures. Briscoe.

AA 389. Landscape Design. 1 to 8 hours any term.

No-grade course. A series of problems in landscape architecture, beginning a three-year sequence of intensive study in analysis, solution, and presentation. Seminars and field trips. Prerequisite: AA 287, AA 288, AA 289.

AA 401. Special Studies. Hours to be arranged.

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

AA 407. Seminar. Hours to be arranged.

AA 413, 414, 415. Parks, School Grounds, and Recreation Areas. (g) 3 hours each term.

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. Jette.

- AA 430, 431, 432. **Plant Composition.** (G) 3-6 hours each term.
No-grade course. Design of plantings of trees, shrubs, and flowers. Lectures, field trips, and drafting. Prerequisite: AA 326, 327, 328. Cuthbert.
- AA 433, 434, 435. **Ethics and Practice (Landscape).** (G) 1 hour each term.
Professional ethics, office management, and principles of superintendence. Cuthbert, Jette, Ruff.
- AA 459. **Landscape Field Practice.** (G) 3 hours.
Problems in making surveys, calculating grading, road layout, and siting. Ruff.
- AA 460, 461. **Landscape Construction II.** (G) 3 hours each term.
Advanced problems in landscape construction; retaining walls, drainage, irrigation; specification writing. Ruff.
- AA 489. **Landscape Design.** 1 to 10 hours any term.
No-grade course. A series of advanced problems in landscape architecture, with emphasis on broad planning problems and integration with architecture. Field trips and seminars. Prerequisite: 9 term hours in AA 389.
- AA 499. **City Planning II.** (G) 1 to 6 hours any term.
No-grade course. Urban and regional planning. Seminars, field study, design laboratory. Prerequisite: AA 353, 354, 355. Cho, Hayden.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

- AA 501. **Special Studies.** Hours to be arranged.
- AA 505. **Reading and Conference.** Hours to be arranged.
- AA 507. **Seminar.** Hours to be arranged.
Planning administration. Buford.
- AA 508. **Seminar in Planning and Housing.** 2 or 3 hours any term.
Discussions of housing and of urban and regional planning problems, led by faculty members and consultants. Assigned reading. Prerequisite: AA 353, 354, 355, fifth-year or graduate standing; consent of seminar coordinator. Cuthbert.
- AA 509. **Terminal Creative Project.** Hours to be arranged.
- AA 589. **Landscape Design.** 1 to 12 hours any term.
No-grade course. Landscape-design problems of increasing complexity. Collaborative problems, field trips, seminars. Third term devoted to terminal project. Prerequisite: 12 hours in AA 489.

Drawing, Painting, and Graphic Arts

WORK IN DRAWING AND PAINTING at the lower-division level is offered both for students preparing for advanced professional study and for other University students who wish some experience in creative work as a part of a liberal education. Sufficient studio work is provided to insure adequate technical training as a basis for an upper-division major in drawing and painting.

At the upper-division level, the special interests of students (landscape, portraiture, mural design, commercial applications, etc.) are given attention and encouragement. All teaching is through individual criticism. The student works at his easel or drawing board on his particular problem, and receives individual help from the instructor.

The following lower-division courses in art are required as preparation for a major in drawing and painting:

	Term Hours
Basic Design (AA 295).....	6
Survey of the Visual Arts (AA 201, 202, 203).....	9
Painting (AA 290).....	12-15
Drawing (AA 291).....	6-9
Water Color (AA 292).....	2-3

The upper-division major program leading to a bachelor's degree must include a minimum of 75 hours, normally distributed as follows:

	Third Year	Term Hours
Painting (AA 390).....		9
Drawing (AA 391).....		9
Composition & Visual Theory (AA 392).....		6
Art history		9
Art electives		6
	Fourth Year	
Advanced Painting (AA 490).....		9
Advanced Drawing (AA 491).....		6
Composition & Visual Theory (AA 492).....		9
Art electives		12

Graduate work leading to the degree of Master of Fine Arts is offered in the field of drawing and painting. For requirements, see pages 197-198.

LOWER-DIVISION COURSES

AA 290. Painting. 2 to 3 hours any term.

Instruction in the use of oil color, water color, and other media. Registration permitted any term, but it is desirable that the work be started in the fall. 12 term hours required for upper-division standing. Vincent, Ryan, Soeder, Wilkinson.

AA 291. Drawing. 1 to 3 hours any term.

Training in observation and selection of significant elements. Registration permitted any term, but it is desirable that the work be started in the fall. 6 term hours required for upper-division standing. Ryan, Soeder.

AA 292. Water Color. 2-3 hours.

The technique and use of water color, with special attention to its characteristics as a painting medium. Emphasis on landscape material. May be substituted for third term of AA 291 to meet lower-division major requirement. Open to nonmajors with 4 hours of work in AA 291 or with consent of instructor. Soeder.

AA 295. Basic Design. 2 hours each term.

No-grade course. Studio participation exercises involving the basic principles of design; a three-term introductory sequence. Open to nonmajors. Ryan.

AA 298. Sketching. 1 hour any term.

No-grade course. Sketching from costumed models, to develop ability to observe clearly and record accurately. Offered especially for nonmajor students who have had no previous training in sketching or drawing. Soeder.

UPPER-DIVISION COURSES

AA 381. Water Color. 2 to 3 hours.

Continuation of AA 292. The technique and use of water color, with particular attention to landscape material. Wilkinson.

AA 390. Painting. 2-4 hours any term.

Third-year painting. Still life, figure, portrait, and landscape; pattern and space organization; color and design studies; various media and processes. Prerequisite: 9 hours in AA 290. McCosh.

- AA 391. **Drawing.** 1-4 hours any term.
Second sequence in drawing. Space and form representation; analysis and statement of form; linear and total statement; structure and movement as factors in drawing; still life and figure; use of various media. Prerequisite: 6 hours in AA 291 or AA 292. Vincent.
- AA 392. **Composition and Visual Theory.** 2-4 hours any term.
Light, color, and design as they relate to painting problems; relationship of painting to architecture; mural design and other problems. Open to nonmajors with consent of instructor. Wilkinson.
- AA 401. **Special Studies.** Hours to be arranged.
- AA 405. **Reading and Conference.** Hours to be arranged.
- AA 407. **Seminar.** Hours to be arranged.
- AA 480. **Graphic Arts.** (g) 2-4 hours any term.
Principles and methods of lithography; practice in all stages from the preparation of stones to the hand printing of editions. Special emphasis on the medium's contribution to drawing. McCosh.
- AA 481. **Water Color.** 2 to 4 hours spring.
Advanced work in water color, with particular attention to landscape material. Open to nonmajors with consent of the instructor. Continuation of AA 381. McCosh.
- AA 482. **Anatomy for Artists.** 2 to 4 hours winter.
Study of the principles and formation of the skeletal and muscular structure of the human figure, as an aid to observation for graphic statements. Prerequisite: AA 290 or AA 291. Wilkinson, McCosh.
- AA 490. **Advanced Painting.** (g) 2 to 4 hours any term.
Advanced problems in portrait figure, landscape, and still life, in all media. Prerequisite: 12 hours in AA 290 or AA 390. Vincent.
- AA 491. **Advanced Drawing.** (g) 1 to 4 hours any term.
Advanced work in drawing. Study of form from the figure. Prerequisite: 6 hours in AA 291 or AA 391. McCosh.
- AA 492. **Composition and Visual Theory.** (G) 2 to 4 hours any term.
A study of light, color, and visual processes as they relate to easel and mural painting. Wilkinson.
- AA 493. **Visual Continuity.** 1-3 hours any term.
Study of problems of image sequence and continuity in printed material, display, photography, and film. Prerequisite: AA 295. Open to nonmajors. Foster.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

- AA 501. **Special Studies.** Hours to be arranged.
- AA 505. **Reading and Conference.** Hours to be arranged .
- AA 507. **Seminar.** Hours to be arranged.
- AA 509. **Terminal Creative Project.** Hours to be arranged.
- AA 580. **Graduate Studies in Print Making.** Hours to be arranged.
Advanced work in lithography and engraving. Black-and-white and multiple-color process. McCosh.
- AA 590. **Graduate Studies in Painting, Drawing, and Design.** Hours to be arranged.
Work at an advanced level with problems of color and form, techniques, processes, and visual theories. McCosh, Vincent, Wilkinson.

Sculpture and Applied Design

THE PROGRAM IN SCULPTURE AND APPLIED DESIGN includes instruction and major curricula in sculpture, ceramics, weaving, and jewelry and metalsmithing.

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 required as preparation for a major in sculpture:

	Term Hours
Basic Design (AA 295).....	6
Survey of the Visual Arts (AA 201, 202, 203).....	9
Elementary Sculpture (AA 293).....	9
Drawing or Painting (AA 290 or AA 291).....	6

The upper-division major program in sculpture, leading to a bachelor's degree, includes the following required courses:

Third Year	Term Hours
Techniques of Sculpture (AA 393).....	15
History of Sculpture (AA 376, 377, 378).....	9
Advanced Drawing (AA 491).....	6
Fourth Year	
Advanced Sculpture (AA 494).....	15
Senior Seminar (AA 407).....	6
Background of Modern Art (AA 476, 477, 478).....	9

For the requirements for the Master of Fine Arts degree with a major in sculpture, see pages 197-198.

Applied Design. The University offers instruction and major programs in the following fields of applied design: ceramics, weaving, and jewelry and metalsmithing. The following lower-division courses in art are required as preparation for a major:

	Term Hours
Basic Design (AA 295).....	6
Survey of the Visual Arts (AA 201, 202, 203).....	9
Drawing or Painting (AA 290 or AA 291).....	6
Applied design	9

The curriculum is designed to acquaint the student with the general character, techniques, and materials of applied design. Emphasis is placed on individual development through individual projects.

The upper-division major program in applied design, leading to a bachelor's degree, includes the following required courses.

Third Year	Term Hours
Advanced applied design	12
Advanced studio course (drawing, painting, or sculpture).....	6
Introduction to History of Art (AA 363, 364, 365).....	9
Art electives	9

Fourth Year

	Term Hours
Advanced applied design	18
Advanced studio course.....	9
Background of Modern Art (AA 476, 477, 478).....	9

For the requirements for the Master of Fine Arts degree with a major in ceramics or weaving, see pages 197-198.

LOWER-DIVISION COURSES

- AA 255. **Ceramics.** 2 to 4 hours any term.
Introduction to ceramic techniques and materials. Throwing, molding, and hand building. Surface decoration of two- and three-dimensional surfaces. Students participate in stacking, firing, and drawing the kilns. Open to nonmajors. Victoria Ross, James.
- AA 256. **Weaving.** 2 to 4 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 12-harness looms. Nixon.
- AA 257. **Jewelry and Metalsmithing.** 2 to 4 hours any term.
Introduction to the handworking of nonferrous metals—copper, brass, pewter, silver, gold. Development of design for metal objects. Enameling on metal; centrifuge casting; lapidary work. Nixon.
- AA 293. **Elementary Sculpture.** 2 to 4 hours any term.
Introduction to materials. Elementary considerations of form; technical and compositional exercises in clay, plaster, wood, and stone. Sections for pre-dental students and other nonmajors. Zach.

UPPER-DIVISION COURSES

- AA 393. **Techniques of Sculpture.** 2 to 6 hours any term.
Modeling problems in portraiture, figure study, and group composition. Technical and aesthetic considerations of the several sculpture and media. Zach.
- AA 401. **Special Studies.** Hours to be arranged.
- AA 405. **Reading and Conference.** Hours to be arranged.
- AA 407. **Seminar.** Hours to be arranged.
- AA 455. **Advanced Ceramics.** (G) 2 hours any term.
Advanced studio work; individual projects. Emphasis on creative form. Study of material, texture, and functional relationships. Body and glaze making; earthenware, stoneware, and porcelain. Kiln atmospheres and effects on body and glaze. Students assume responsibility for firing their own work. 30 term hours required for majors. Prerequisite: 6 term hours in AA 255. James, Victoria Ross.
- AA 456. **Advanced Weaving.** (G) 2 to 6 hours any term.
Emphasis on creative work. Production of a wide variety of handwoven fabrics. Historical studies, fabric analysis, spinning, dyeing. 30 term hours required for majors. Nixon.
- AA 457. **Advanced Jewelry and Metalsmithing.** (G) 2 to 6 hours any term.
Emphasis on creative work. Advanced problems in forging, sand and centrifuge casting, enameling, etching, lapidary work, brazing, welding, repoussé, and tool making. Nixon.
- AA 458. **Textile Printing.** (G) 2 to 4 hours.
Advanced problems in design and color, applied to standard textiles. Technique in pattern design and yardage printing. Silk screen, block print, etc.
- AA 494. **Advanced Sculpture.** (G) 2 to 8 hours any term.
No-grade course. Coordination of sculpture with related fields of architectural, landscape, interior, and industrial design. Zach.

AA 496. **Ceramic Sculpture.** (G) 2 hours any term.

Techniques in building, modeling, molding, and surfacing terra cotta. 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 AA 293, three terms of AA 255.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

AA 501. **Special Studies.** Hours to be arranged.

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

AA 507. **Seminar.** Hours to be arranged.

AA 509. **Terminal Creative Project.** Hours to be arranged.

Art History

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; and (3) a core of studies for a major curriculum in the history of art.

The art-history major combines historical study with creative studio practice. It 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:

	Term Hours
Elementary studio courses (drawing, painting, sculpture, or applied design).....	12
Survey of the Visual Arts (AA 201, 202, 203).....	9
Two years of French or German.....	24

The upper-division major program in art history, leading to a bachelor's degree, includes the following required courses:

Third Year	Term Hours
History of art (selected)	18
Art studio course.....	9
Language or literature.....	9
Liberal arts elective (recommended: history, anthropology, or philosophy).....	9
Fourth Year	
History of art (selected).....	18
Aesthetics (Ph 441, 442, 443).....	9
Art studio course.....	9
Elective (recommended: language or literature, history, anthropology, speech, or music).....	9

LOWER-DIVISION COURSES

AA 201, 202, 203. **Survey of Visual Arts.** 3 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. Baldinger, Finkenstaedt.

UPPER-DIVISION COURSES

AA 337, 338, 339. **History of Architecture I.** 3 hours each term.

Descriptive and critical analysis of architecture from prehistoric times to the Renaissance in Italy. Includes the study of ancient, mediaeval, Islamic, and pre-Columbian American architecture. Open to nonmajors. M. D. Ross.

- AA 340, 341, 342. **History of Architecture II.** 3 hours each term.
Descriptive and critical analysis of architecture from the Renaissance in Italy to the present day. Development of modern architecture. Open to nonmajors. M. D. Ross.
- AA 346, 347, 348. **History of Painting.** 3 hours each term.
Chronological and interpretive study of the language of painting. Fall: prehistoric through Italian Renaissance; winter: Renaissance and baroque in northern Europe and Spain; spring: Oriental painting, modern European and American painting. Open to nonmajors. Finkenstaedt.
- AA 356, 357. **History and Literature of Landscape Architecture.** 3 hours each term, fall and winter.
History of gardens as an outgrowth of living conditions from early Egyptian times to modern American; intended to develop knowledge and judgment concerning landscape design. Majors in landscape architecture complete a year sequence with AA 342. M. D. Ross.
- AA 363, 364, 365. **Introduction to the History of Art.** 3 hours each term.
An 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. Designed for nonmajor students, as well as for majors in art history. Finkenstaedt.
- AA 376. **History of Sculpture.** 3 hours each term.
A chronological and interpretative study of sculpture in relation to the fundamental institutions and ideas of the Western tradition. Fall: prehistoric, ancient Mediterranean, and Near East; winter: early Christian through the European baroque; spring: Oriental, African, postbaroque through contemporary. Open to nonmajors. Finkenstaedt.
- AA 401. **Special Studies.** Hours to be arranged.
- AA 405. **Reading and Conference.** Hours to be arranged.
- AA 407. **Seminar.** Hours to be arranged.
- AA 440. **American Architecture.** (G) 3 hours.
History of architecture in the United States. Special emphasis on regional building in the Pacific Northwest. Seminar discussions and assigned research. Students wishing to devote additional time to special research projects may enroll also under AA 401. M. D. Ross.
- AA 443, 444, 445. **History of Interior Architecture.** 2 hours each term.
History of interior architecture, including the study of contemporary furniture, textiles, rugs, etc., as an art expression. Open to nonmajors. Frasier.
- AA 446, 447, 448. **History of Oriental Art.** (G) 3 hours each term.
Comparative study of architecture, sculpture, landscape design, and painting as expressions of individual and social experience in the cultures of the Far East. Fall: Indian and Indonesian; winter: Chinese; spring: Japanese. Open to nonmajors. Baldinger.
- AA 450, 451, 452. **Art in Latin America.** (G) 3 hours each term.
Preconquest art of the Andean, Mexican, Mayan, and related cultures. Development of architecture, painting, and sculpture in the Spanish and Portuguese colonies from the sixteenth to the nineteenth centuries, with emphasis on the fusion of European and indigenous elements. Development of modern art in the twentieth century in Mexico and Brazil. Open to nonmajor students. M. D. Ross.
- AA 476, 477, 478. **Background of Modern Art.** (G) 3 hours each term.
Intensive study of contemporary architecture, sculpture, painting, and other arts. Conducted as a seminar. Open to nonmajors. Prerequisite: AA 201, 202, 203 or AA 363, 364, 365, or equivalent. Baldinger.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

- AA 501. **Special Studies.** Hours to be arranged.
 AA 503. **Thesis.** Hours to be arranged.
 AA 505. **Reading and Conference.** Hours to be arranged.
 AA 507. **Seminar.** Hours to be arranged.

Art Education

THE CURRICULUM IN ART EDUCATION leads to the bachelor's degree and to a provisional Oregon state teacher's certificate. The aim of the program is to prepare students for the teaching or supervision of art in the elementary schools and in the junior and senior high schools. The following lower-division courses are required as preparation for a major in art education:

	Term Hours
Basic Design (AA 295).....	6
Survey of Visual Arts (AA 201, 202, 203).....	9
Art electives	24
The School in American Life (Ed 310).....	3
Human Development (Ed 311).....	4
Educational Psychology (Ed 312).....	4

The students' lower-division program must also include 9 term hours in psychology and 9 to 12 term hours in courses in a second teaching field. The following courses are required for an upper-division major in art education:

Third Year	Term Hours
Introduction to Art Education (ArE 314).....	3
Art in the Junior High School (ArE 315).....	3
Art in the Senior High School (ArE 414).....	3
Art electives	16
Special Secondary Methods (Ed 408).....	3
Student Teaching: Junior and Senior High Schools (Ed 416).....	10
Fourth Year	
Art history	9
Art (studio) electives	18
Art education electives	6
Second teaching field and university electives.....	18

A fifth year of preparation is required for permanent secondary-school teacher certification in Oregon. Students working toward the completion of the fifth-year requirements are advised individually concerning the selection of courses. Students completing a properly planned fifth-year program may qualify for a master's degree.

UPPER-DIVISION COURSES

ArE 311, 312, 313. **Art and Craft for the Elementary Teacher.** 3 hours each term.

Art activities for the classroom teacher. Basic tools and materials. Planning the art program to meet the needs of the child. Art in the school curriculum. Art experiences in relation to child growth and development. Lectures and laboratory work. Ballinger, Burgner.

ArE 314. **Introduction to Art Education.** 3 hours fall.

Study of the visual arts through the investigation of graphic expression of children from the preschool through the elementary years. Art in the secondary-school curriculum. Laboratory use of materials appropriate for differ-

ent stages of growth and development. Required of all majors. Prerequisite: Ed 310, Ed 311, Ed 313, completed or taken concurrently; two years of art studio and art history. Ballinger.

ArE 315. **Art in the Junior High School.** 3 hours winter.

Laboratory work with art media appropriate to the pre-adolescent age group. Critical evaluation of ideas, materials, and program content in terms of student experiences in junior high school. Course offered concurrently with the first term of student teaching in junior high. Required of all majors. Prerequisite: ArE 314 or consent of instructor. Ballinger.

ArE 401. **Special Studies.** Hours to be arranged.

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

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

Ed 408. **Special Secondary Methods.** 3 hours winter or spring.

Art activities in the total school curriculum; the program of the integrated program; current studies and research in the field; new materials; classroom procedure. Prerequisite: Ed 310, Ed 312, Ed 314. Ballinger.

ArE 411. **Methods and Research Materials: Art in Elementary Schools.** (G) 3 hours.

Current trends in elementary public school art education. Methods and laboratory practice in the effective use of motivation, materials, and ideas in creative activities. Significant research and literature in the field. Prerequisite: ArE 311, 312 or one year of teaching experience. Burgner.

ArE 414. **Art in the Senior High School.** 3 hours spring.

Art in the senior high school examined in terms of program, content, materials, etc. Evaluation of current thinking and practice in the field of high-school teaching of art. Required of all majors. Prerequisite: ArE 314, 315 or consent of instructor. Ballinger.

Ed 416. **Supervised Teaching: Junior and Senior High School.** 3 to 15 hours any term.

No-grade course. Teaching experience in the public schools. One hour a day, five days a week, for two terms during the fourth year. Maximum credit, 15 hours for two terms. Ballinger.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

ArE 501. **Special Studies.** Hours to be arranged.

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

ArE 507. **Seminar.** Hours to be arranged.

ArE 532, 533. **Art in the Elementary School.** 3 hours any term.

Designed to enable elementary art teachers and administrators to gain a better understanding of the significance of creative art activity. Lectures are closely integrated with laboratory work. Levels of creative development in children; direction and supervision of this development; building of a basic curriculum. Burgner.

ArE 535. **Art and Architecture for the School Administrator.** 3 hours.

Problems of the school administrator in the general field of art and architecture, including problems of school-plant design, problems concerning the place of art in the school curriculum, and problems of community planning. Lectures and studio demonstrations.

School of Business Administration

RICHARD W. LINDHOLM, Ph.D., Dean of the School of Business Administration.

WESLEY C. BALLAINE, Ph.D., Director of the Bureau of Business Research.

NORMAN E. TAYLOR, Ph.D., Director of the Forest Industries Management Center.

THE SCHOOL OF BUSINESS ADMINISTRATION offers a program of professional study, undergraduate and graduate, to prepare young men and women for positions of responsibility and leadership in business administration, research, and teaching. The school recognizes a primary obligation to provide the business leadership and trained personnel needed to carry on the rapidly expanding business life of the state of Oregon, the nation, and the entire free world.

The instructional program of the School of Business Administration is organized under four departments, each of which offers several major options:

Accounting and Business Statistics—accounting; business statistics.

Business Education and Secretarial Science—office administration; business teacher education.

Finance and Business Economics—banking; investments; real estate; finance management; foreign operations; business economics.

Management, Production, and Marketing—marketing; production; personnel management; insurance; transportation, traffic management, and utilities; business and construction.

The undergraduate major programs lead to the Bachelor of Business Administration, Bachelor of Arts, or Bachelor of Science degree. The school also offers graduate work leading to the Master of Business Administration, Master of Arts, Master of Science, and Doctor of Business Administration degrees.

The School of Business Administration was established in 1914 as the School of Commerce; the present name was adopted in 1921. It has been a member of the American Association of Collegiate Schools of Business since 1923.

The following business honorary societies have active chapters at the University: Beta Gamma Sigma, business administration scholastic honorary; Beta Alpha Psi, accounting; Delta Nu Alpha, transportation; Eta Mu Pi, merchandising; Phi Chi Theta, business women; Propeller Club, foreign trade.

Admission. The major curricula in business administration are organized on an upper-division and graduate basis. Freshman students intending to major in business administration are enrolled in the College of Liberal Arts for a two-year prebusiness program, which combines liberal arts courses with introductory preprofessional courses in the School of Business Administration. The lower-division prebusiness courses are planned to provide continuity of training throughout the student's undergraduate years. Educational continuity is further insured through the assignment of members of the faculty of the School of Business Administration as advisers to prebusiness students.

Before admission as a professional major in business administration, the student must satisfy all lower-division requirements of the University and the College of Liberal Arts, must maintain a C average in English Composition (Wr 111, 112, 113), and must complete the following required courses:

	Term Hours
*Essentials of Mathematics (Mth 101).....	4
Public Speaking (Sp 235).....	5
Business Law (FBE 216).....	5
Business Statistics (BS 232).....	5
Principles of Economics (Ec 201, 202, 203).....	9
Fundamentals of Accounting (Ac 211, 212, 213).....	9

Business Environment (MPM 125, 126, 127) is recommended as a freshman elective, but is not required.

Major Requirements. To qualify for a bachelor's degree with a major in the School of Business Administration, the student must complete: (1) a group of core courses required of all majors, (2) the specialized courses required in one of the several major options offered by the school, and (3) a minimum of 90 term hours in courses outside the School of Business Administration, exclusive of University requirements in physical education and military science. The upper-division core courses are:

Junior Year	Term Hours
Organization & Interpersonal Relations (MPM 321).....	5
Financial Institutions (FBE 320).....	5
Elements of Marketing (MPM 323).....	5
†Production Management (MPM 329).....	5

Senior Year

Two of the following courses:

Business Policy (MPM 453).....	5
Business Cycles (FBE 466).....	5
Business History (MPM 480).....	5

The special requirements of the several major options are listed in the departmental sections below.

Graduate Work. For admission to graduate work in business administration leading to the master's degree (M.B.A., M.A., or M.S.), a student must hold a bachelor's degree from an accredited college or university.

A minimum of 45 term hours of graduate work is required for the master's degree, of which 12 to 15 hours may be in an approved allied field selected as a minor. The student must select his courses from three areas of concentration or two areas and a minor; comprehensive written examinations covering these areas are required on the completion of the program. The student is expected to enroll for graduate core studies designed to insure a broad background in managerial techniques and problems. At the discretion of his examining committee, the student submits a thesis or prepares three business research reports as a part of his regular course work; a final oral examination, based on the thesis or research reports, is required.

For admission to candidacy for the D.B.A. degree, the student must show, through a qualifying examination, a basic knowledge of economics, accounting, quantitative methods (mathematics and statistics), finance, marketing, business organization and production, and business law. Studies leading to the degree must include work in five fields: (1) business-organization theory and policy, (2) economics, (3) one field chosen from accounting, finance, marketing, insurance, personnel management, production management, or transportation, (4) statistics, (5) a minor field outside the fields of business and economics. Comprehensive written examinations are given in each of these fields. The candidate is also required to present an acceptable dissertation and to pass an oral examination based primarily on his dissertation.

* Students who receive a grade of 3 on a mathematics placement test given all entering students are exempt from this requirement.

† Not required for the option in business teacher education.

Reading knowledge of foreign languages is not required, but may be substituted for the minor field outside the fields of business and economics.

The doctoral program normally requires three years of study beyond the bachelor's degree; completion of formal requirements for a master's degree are not required.

Bureau of Business Research. The Bureau of Business Research conducts a continuing program for the study of business and economic problems, with emphasis on problems related to Oregon and the Pacific Northwest. Studies are frequently undertaken for state and Federal governmental agencies, as well as for foundations and private business firms. Opportunity is provided for research by graduate students. The bureau publishes the OREGON BUSINESS REVIEW, a monthly periodical devoted principally to the analysis of current business and economic trends of interest to the Oregon business community.

Forest Industries Management Center. The Forest Industries Management Center conducts a comprehensive program of service to the forest industries, a vital segment of Oregon's economy, including research, conferences and workshops, counseling and placement of students interested in careers in forest industries, and management consultation. The primary purpose of the program is the improvement of industrial administration in this field.

Foreign Trade Advisory Board. The Foreign Trade Advisory Board, a group of Oregon businessmen and officials concerned with the international trade of the Pacific Northwest, provides advice and assistance to the school and its students in connection with foreign-trade education.

Accounting and Business Statistics

Professors: C. E. JOHNSON (department head),* O. K. BURRELL, C. E. KELLY (emeritus), A. B. STILLMAN (emeritus).

Associate Professor: J. W. SOHA.

Assistant Professors: D. A. BAERNCOFF, D. S. HARWOOD, JR., M. F. MOSS, A. L. PEETERSON.

Instructors: R. M. GILLIS, LOUIS HAMILL, I. R. NISSEN.

Assistants: ADELINA A. ALCARAZ, D. L. DAO, JR., D. W. DONACA, D. C. HOWARD, SONDR A. J. ROARK, THERESA T. TENG, R. W. TURNBULL, C. E. WILLIAMS.

THE PROGRAM IN ACCOUNTING and business statistics is designed to prepare students for professional careers in these special fields and to provide all students of business with an understanding of the theory and techniques of quantitative analysis as a basis for administrative decision making.

Accounting. The major curriculum in accounting prepares the student for a career as a certified public accountant or in the accounting area of private business or government. The major requirements, in addition to the core program of the School of Business Administration, are listed below. All students who plan to major in accounting are expected to take one year of college mathematics during their lower-division years.

	Term Hours
Accounting Theory & Practice (Ac 483, 484, 485).....	9
Principles of Cost Accounting (Ac 312).....	3
Advanced Cost Accounting (Ac 487).....	3
Income-Tax Procedure (Ac 479, 480).....	4
Special Topics in Accounting (Ac 489).....	3
Auditing Concepts and Practice (Ac 492).....	3
Minimum of 5 term hours selected from electives listed below.....	5
	30

* On sabbatical leave 1959-60.

ELECTIVES	Term Hours
Income-Tax Procedure (Ac 481).....	2
Advanced Cost Accounting (Ac 488).....	3
Special Topics in Accounting (Ac 490).....	3
Advanced Accounting Theory (Ac 491).....	3
Auditing Concepts and Practice (Ac 493).....	3
Special Topics in Auditing (Ac 494).....	3
Fund Accounting (Ac 486).....	3
Management Information Systems (Ac 496, 497).....	6
Advanced Business Law (FBE 418).....	5

Business Statistics. The major program in business statistics prepares the student for a career in business research, with emphasis on the application of statistical methods to the solution of business problems. Majors in business statistics must complete work in basic mathematics through calculus (equivalent of Mth 201, 202, 203 or Mth 204, 205, 206). The major requirements, in addition to the core program of the school, are as follows:

	Term Hours
Advanced Business Statistics (BS 433).....	3
Managerial Accounting (Ac 313).....	3
Advanced College Algebra (Mth 314).....	3
Economic Theory (Ec 375, 376).....	6
Seminar: Operations Research (MPM 407).....	3
Minimum of 9 term hours selected from electives listed below.....	9
	27

ELECTIVES	
Management Information Systems (Ac 496, 497).....	6
Regional Studies in Business (FBE 315).....	3
Seminar: Marketing Research (MPM 407).....	3
Introduction to Statistical Theory (Mth 441, 442, 443).....	9
Statistical Economics (Ec 483, 484, 485).....	9
Mathematical Economics (Ec 480, 481).....	6
National Income Analysis (Ec 483).....	3
Economic Theory (Ec 377).....	3
Industrial Psychology (Psy 447, 448).....	6
Theories & Methods of Population Analysis (Soc 435).....	3
Seminar: Industrial Sociology (Soc 407).....	3

Majors in business statistics must include Business Cycles (FBE 466) as a part of their senior core program.

Accounting

LOWER-DIVISION COURSES

Ac 211, 212, 213. **Fundamentals of Accounting.** 3 hours each term.

Study of the function of accounting as a tool for the planning and administration of business enterprise. Primary emphasis on analysis and interpretation of financial data, rather than on collection and presentation. Fall: position and income statements, conceptual bases for collecting and presenting data, flows of cost, the accounting cycle, depreciation, formation of working capital. Winter: inventory and its control, risk-equity relationships, interest and annuities, analysis of position and income statements, fund statements, manufacturing costs, organization for and administration of cost and budgetary control. Spring: application of cost concepts to decision making, taxation and its effect on planning, break-even analysis, internal control, capital budgeting, information theory applied to accounting reports, the impact of price-level changes on accounting data. Prerequisites: sophomore standing or consent of instructor. Johnson, Harwood.

UPPER-DIVISION COURSES

Ac 312. **Principles of Cost Accounting.** 3 hours.

The basic principles of cost accounting developed and applied to industrial sit-

uations. Emphasis on cost accounting as a management tool to facilitate planning and control, as well as a technique for income determination and inventory valuation. Survey of the two basic techniques of collecting cost data, job order and process cost accounting; introduction to standard costing; accounting for material, labor, and manufacturing overhead; basic principles of cost reports to management; principles of cost distribution; introduction to budgeting. Prerequisite: Ac 211, 212, 213. Moss.

Ac 313. Managerial Accounting. 3 hours.

Designed for students not specializing in accounting; emphasis on the use of accounting data by management. Preparation, analysis, and interpretation of financial statements, including fund statements, internal accounting reports, budgets, and special cost studies. Credit not granted for both Ac 313 and Ac 483, 484, 485. Prerequisite: Ac 213. Moss.

Ac 379. Federal Income Tax. 3 hours.

Designed for students not specializing in accounting. Emphasis on the impact of Federal income and estate taxes on decisions of business management, such as decisions to invest, to merge, to distribute earnings, to establish retirement programs. Students not admitted to both Ac 379 and Ac 479, 480. Prerequisite: Ac 213. Lindholm.

Ac 407. Seminar. Hours to be arranged.

Ac 479, 480, 481. Income-Tax Procedures. (G) 2 hours each term.

Professional study and analysis of the Federal and Oregon income-tax structure, and of the problems involved in determining income tax liabilities. Determination of taxable income and computation of taxes for individuals, partnerships, corporations, estates, and trust; introduction to tax research. Prerequisite: Ac 213. Peiterson.

Ac 483, 484, 485. Accounting Theory and Practice. (G) 3 hours each term.

Professional and technical study of accounting principles and procedures, with reference both to the creation of accounting data and to the interpretation and use of such data. Emphasis in the first two terms on asset valuation and income measurement. Topics covered in the third term include corporate accounts and statements, analysis of financial statements, and fund statements. Prerequisite: Ac 213. Burrell, Johnson.

Ac 486. Fund Accounting. (G) 3 hours.

Financial administration and reporting requirements of Federal, state, and local governmental units, with emphasis on the use of fund accounting as a basis for budgetary control in these and other nonprofit organizations. Study of laws relating to the budgetary, financial, accounting, and auditing requirements of Oregon municipalities, and of recent developments in Federal performance budgeting. Prerequisite: Ac 213. Harwood.

Ac 487, 488. Advanced Cost Accounting. (G) 3 hours each term.

Presentation and analysis of cost information to aid management in performing the functions of planning and control. First term: the concept of the budget, various concepts of capacity in relation to overhead rates, standard costing, cost-volume-profit relationships, distribution costing, joint and byproduct costing. Second term: function of the controller in planning and control, break-even analysis, direct costing, capital and operating budgeting, intrafirm pricing, cost reports to management, cost accounting and pricing policy, including differential costing. Current cost accounting literature examined in connection with case studies. Prerequisite: Ac 312. Moss.

Ac 489, 490. Special Topics in Accounting. (G) 3 hours each term.

Professional study of specialized problems relating to financial accounting: application of compound-interest computations to the problem of valuation, special problems in partnership accounting, accounting for firms in financial difficulties, consolidated financial statements, estate and trust accounts and reports. Prerequisite: Ac 485, one year of college mathematics. Johnson.

Ac 491. Advanced Accounting Theory. (G) 3 hours.

Advanced topics and current controversial areas in accounting theory; readings in accounting literature, discussion of current problems, with emphasis on the effect of changing prices and price levels on accounting statements. Prerequisite: Ac 489, 490 or equivalent. Johnson.

Ac 492, 493. Auditing Concepts and Practice. (G) 3 hours each term.

Auditing standards and procedures observed by certified public accountants in the examination of the financial statements of business and other organizations. Audit standards and objectives, collection of evidence, evaluation of internal control, problems of verification and application of procedures, preparation of programs, work papers, and reports. Prerequisite: Ac 485, 487. Soha.

Ac 494. Special Topics in Auditing. (G) 3 hours.

Readings in auditing literature, discussion of current developments, such as reporting standards, internal auditing, application of statistical sampling techniques to auditing, problems posed by electronic data processing and other machine systems, as well as such innovations in auditing concepts and practice as the continued examination approach. Prerequisite: Ac 492, 493. Soha.

Ac 496, 497. Management Information Systems. (G) 3 hours each term.

Elements of data processing within the business firm or government unit; conceptual and procedural problems associated with the programming and use of data-processing equipment; principles of systems design; use of basic analysis tools in programming machines and in designing systems and procedures; critical analysis of modern concepts of administrative control and the function of the controller as they relate to interpretive reporting and the processing of business information. Prerequisite: Ac 213; senior standing or consent of instructor. Soha.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

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

Accounting Theory. Johnson.
Accounting Trends. Soha.
Business Control. Baerncof, Soha.

Ac 520, 521. C.P.A. Problems. Hours to be arranged.

Study of problems in professional examinations given by the American Institute of Accountants. Emphasis on problem analysis and development of working papers. Prerequisite: consent of instructor. Moss.

COURSES OFFERED ONLY IN SUMMER SESSIONS AND EXTENSION

Ac 508. Workshop. Hours to be arranged.**Business Statistics**

LOWER-DIVISION COURSE

BS 232. Business Statistics. 5 hours.

An introductory course emphasizing the applications of statistics to business decision making. While descriptive procedures, such as the construction of charts and tables are discussed, considerably more time is spent on the elements of statistical inference. 4 lectures; 1 two-hour laboratory period. Baerncof, Gillis, Hamill.

UPPER-DIVISION COURSE

BS 433. Advanced Business Statistics. (G) 3 hours.

Development of competence in applying the ideas of probability and statistics

to business situations. Subjective probability, pay-off tables, expected profits; the Bayes theorem and modern utility analysis; joint and conditional probability distributions; normal and binomial distributions; elementary consideration of game theory; introduction to inventory and waiting-line problems. Applications to business situations emphasized. Baerncopt.

Business Education and Secretarial Science

Associate Professor: JESSIE M. SMITH (department head).*

Assistant Professor: CATHERINE M. JONES.

Instructors: ANN M. MARNIX, MARGARET I. PHY, R. C. RAMPTON.

THE SCHOOL OF BUSINESS ADMINISTRATION offers, through the Department of Business Education and Secretarial Science, major options in office administration and business teacher education and service courses in secretarial science.

Office Administration. The option in office administration prepares young men and women for administrative positions as office managers and junior executives. The major requirements, in addition to the core program of the School of Business Administration, are as follows:

	Term Hours
Office Organization & Management (BEd 333).....	2
Federal Income Tax (Ac 379).....	3
Personnel Management (MPM 412).....	3
Government Control of Private Business (Ec 334).....	3
Business English (Wr 214).....	3
Typing (SS 121, 122, 123) or equivalent.....	2-6
Office Practice Techniques (SS 323, 324, 325).....	6
Minimum of 6 term hours selected from electives listed below.....	6

28-32

ELECTIVES

Principles of Advertising (MPM 341).....	3
Wage & Salary Administration (MPM 413).....	3
Investments (FBE 463, 464).....	6
Problems in Personnel Management (MPM 414).....	3
Marketing Management (MPM 435).....	4
Business Finance (FBE 322).....	5

Business Teacher Education. The option in business teacher education provides a thorough background in business administration, secretarial skills, and professional courses in education to prepare students for the teaching of business subjects in the secondary schools. The student must complete the core program of the school—except Production Management (MPM 329)—and the following additional major requirements:

	Term Hours
Office Organization & Management (BEd 333).....	2
Business Techniques for Teachers (BEd 371, 372, 373).....	9
Principles of Business Education (BEd 421).....	3
Problems in Business Education (BEd 422, 423).....	6
Seminar: Business Law (FBE 407).....	1
Federal Income Tax (Ac 379).....	3
Typing (SS 121, 122, 123) or equivalent.....	2-6
Stenography (SS 111, 112, 113) or equivalent.....	9
Applied Stenography (SS 211, 212, 213).....	9
Office Practice Techniques (SS 323, 324, 325).....	6
School in American Life (Ed 310).....	3
Seminar: Human Development & Learning (Ed 407).....	5
Principles of Secondary Teaching (Ed 314) or Special Secondary Methods (Ed 408).....	10
Business English (Wr 214).....	3

* Serving with University of Oregon Economic Development Advisory Group in Korea.

The following electives are recommended: Personnel Management (MPM 412), Government Control of Private Business (Ec 334), Managerial Accounting (Ac 313).

Business Education

UPPER-DIVISION COURSES

BEd 333. Office Organization and Management. 2 hours.

The 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, mailing activities, records management, communications, duplicating. Prerequisite: junior standing. Jones.

BEd 371, 372, 373. Business Techniques for Teachers. 3 hours each term.

For prospective teachers of business subjects. Classroom problems; methods of instruction; individual technique improvement; laboratory. Fall: type-writing; winter: bookkeeping; spring: shorthand. Prerequisite: consent of instructor. Rampton.

BEd 407. Seminar. (G) Hours to be arranged.

BEd 421. Principles of Business Education. (G) 3 hours.

Aims and objectives of business education; history, trends, issues; curriculum construction at the high-school and junior-college levels; instructional problems; professional organizations; research in business education. Prerequisite: senior standing, consent of instructor. Jones.

BEd 422, 423. Problems in Business Education. (G) 3 hours each term.

Current literature and text material; work-experience programs; standards of achievement; guidance program; placement and follow-up; in-service training for teachers; business entrance tests; evaluation of current methods; auditory and visual aids. Special attention in BEd 423 to individual needs of students enrolled. Prerequisite: consent of instructor. Jones.

COURSES OFFERED ONLY IN SUMMER SESSIONS AND EXTENSION

BEd 508. Workshop. Hours to be arranged.

Secretarial Science

LOWER-DIVISION COURSES

SS 111, 112, 113. Stenography. 3 hours each term.

Gregg shorthand. SS 111, 112 devoted to the study of basic shorthand theory; SS 113 devoted to the development of speed in business letter dictation and transcription. Students must also take SS 121, 122, 123, unless they have had equivalent training. Students who have had one year of high-school shorthand may not take SS 111 for credit. Section of SS 111 also offered in Brief-hand, a system of abbreviating longhand, using only alphabetical characters. 4 recitations. Marnix, Rampton.

SS 121, 122, 123. Typing. 2 hours each term.

Principles of touch typing; emphasis on development of speed and accuracy; typing of business letters, manuscripts, and various kinds of business forms; production standards stressed. Students who have had one year of high-school typing may not take SS 121 for credit. 5 hours laboratory.

SS 211, 212, 213. Applied Stenography. 3 hours each term.

Combination of shorthand, typewriting, and English into an employable skill; emphasis on speed development in dictation and transcription; phrasing techniques, vocabulary development; efficient and correct procedures for the preparation of business letters, forms, manuscripts, and reports. Prerequisite: SS 113, SS 122, or equivalent. 4 hours recitation. Marnix.

UPPER-DIVISION COURSES

SS 323. **Office Practice Techniques.** 2 hours each term.

Study of all types of adding and calculating machines, with practical application to business procedures; introduction of machine bookkeeping. Designed for secretarial, business-education, accounting, and other business students. Jones.

SS 324, 325. **Office Practice Techniques.** 2 hours each term.

Advanced secretarial instruction; general secretarial duties, responsibilities, and procedures; different methods of duplicating; filing systems and their use in business; training in the operation of voice-writing machines. Jones.

Finance and Business Economics

Professors: E. W. REED (department head), W. C. BALLAINE, O. K. BURRELL, R. W. LINDHOLM, V. P. MORRIS.*

Associate Professor: W. J. ROBERT.

Assistant Professors: C. E. BROWNING, D. F. MARBLE,† D. A. WATSON.

Instructors: V. V. MILLER, M. A. RAZA.

Lecturer: W. G. JOHANNSSEN.

Assistants: J. A. COX, K. M. F. EDELMAN, A. S. GONZALES, A. M. LAND, JR., J. A. O'BRIEN, B. M. VAN DER STICHELE.

THE DEPARTMENT OF FINANCE AND BUSINESS ECONOMICS offers a program designed to prepare students for careers in the basic fields of domestic and foreign finance and managerial economics. The courses provide a fundamental understanding of the application of economic analysis to the solution of problems of business management, and of business finance and financial institutions with special attention to the relation of financial policies and operations to the functioning of the economic system as a whole.

The department offers six major options: banking, investments, real estate, finance management, foreign operations, and business economics.

Banking. The option in banking is designed to prepare students for careers in banks and related financial institutions. The major requirements in addition to the core program of the School of Business Administration, are listed below:

	Term Hours
Public Finance (Ec 319).....	3
Introduction to Real Estate & Urban Land Use (FBE 330).....	5
Fundamentals of Risk & Insurance (MPM 454).....	4
Commercial Bank Management (FBE 460).....	5
Investments (FBE 463).....	3
Minimum of 5 term hours selected from electives listed below.....	5
	25

ELECTIVES

Business Finance (FBE 322).....	5
Income Tax (Ac 379).....	3
Monetary & Banking Theory (Ec 411, 412, 413).....	9
Investments (FBE 464).....	3
Foreign Exchange & International Finance Management (FBE 474).....	5

Investments. The option in investments is designed to prepare students for careers in investment banking, investment management, and stock brokerage. The major requirements, in addition to the core program of the school, are listed below:

* Serving with University of Oregon Economic Development Advisory Group in Korea.

† Resigned Dec. 31, 1959.

	Term Hours
Business Finance (FBE 322).....	5
Income Tax (Ac 379).....	3
Investments (FBE 463, 464).....	6
A minimum of 12 term hours selected from electives listed below.....	12
	26

ELECTIVES

Public Finance (Ec 319).....	3
Monetary & Banking Theory (Ec 411, 412, 413).....	9
Life Insurance (MPM 456).....	3
Commercial Bank Management (FBE 460).....	5

Real Estate. The option in real estate is designed to provide professional training in the development, financing, marketing, and management of real estate. The major requirements, in addition to the core program of the school, are listed below :

	Term Hours
Advanced Business Law (FBE 418).....	5
Introduction to Real Estate & Urban Land Use (FBE 330).....	5
Advanced Real Estate & Urban Land Use (FBE 430).....	3
Property & Liability Insurance (MPM 455).....	5
Minimum of 7 term hours selected from electives listed below.....	7
	25

ELECTIVES

Public Finance (Ec 319).....	3
Business Finance (FBE 322).....	5
Federal Income Tax (Ac 379).....	3
Commercial Bank Management (FBE 460).....	5
Investments (FBE 463).....	3

Finance Management. The option in finance management prepares students for careers as financial administrators, comptrollers, and treasurers in business enterprises. The major requirements, in addition to the core program of the school, are listed below :

	Term Hours
*Managerial Accounting (Ac 313).....	4
Business Finance (FBE 322).....	5
Commercial Bank Management (FBE 460).....	5
Minimum of 12 term hours selected from electives listed below.....	12
	26

ELECTIVES

Government Control of Private Business (Ec 334).....	3
Economics of Public Utilities & Transportation (Ec 335).....	3
Economics of Competitive Industries (Ec 336).....	3
Federal Income Tax (Ac 379).....	3
Investments (FBE 463, 464).....	6
*Accounting Theory & Practice (Ac 483, 484, 485).....	9
Fundamentals of Risk & Insurance (MPM 354).....	4

Foreign Operations. The option in foreign operations is designed to prepare students for careers in overseas and foreign divisions of domestic businesses. The major requirements, in addition to the core program of the school, are listed below :

	Term Hours
Seminar: Foreign Business Operations (FBE 407).....	5
Seminar: Foreign Commercial Law (FBE 407).....	3
Property & Liability Insurance (MPM 457).....	5
Foreign Exchange & International Finance Management (FBE 474).....	5
Foreign-Trade Marketing (MPM 475, 476, 477).....	9
	27

Students are advised to enrich their training through a wide selection of courses in foreign languages, geography, history, and political science and additional courses in economics and business administration.

* Ac 483, 484, 485 may be substituted for Ac 313.

Business Economics. The option in business economics is designed to integrate economic theory with business practice; the courses provide a broad background in the principles of economics, with special attention to the relation of these principles to the management of industrial firms. The major requirements, in addition to the core program of the school, are listed below:

	Term Hours
Regional Studies in Business (FBE 315).....	3
Government Control of Private Business (Ec 334).....	3
Economic Theory (Ec 376, 377).....	6
Advanced Business Statistics (BS 433).....	3
Seminar: Forecasting (FBE 407).....	3
*Introductory College Mathematics (Mth 107).....	4
Minimum of 9 term hours selected from electives listed below.....	9
	31

ELECTIVES

	Term Hours
Marketing Research (MPM 415).....	3
Introduction to Statistical Theory (Mth 441, 442, 443).....	9
National Income Analysis (Ec 483).....	3
Correlation Analysis of Economic Data (Ec 484).....	3
Research & Survey Methods in Economics (Ec 485).....	3
Management Information Systems (Ac 496, 497).....	6

Majors in business economics are required to take Business Cycles (FBE 466) as one of their senior-year core courses.

LOWER-DIVISION COURSE

FBE 216. Business Law. 5 hours.

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

UPPER-DIVISION COURSES

FBE 315. Regional Studies in Business. 3 hours.

Differences in business structure and activity in the important regions of the United States, and the reasons for these differences. Historical developments that have brought about such differences. The effect of such factors as transport development and costs, resource endowment, capital availability, entrepreneurship, and public policy on regional development. The relationship between these factors and some formal theories of location. Regional business forecasting in the light of the analysis of regional differences. Hamill.

FBE 320. Financial Institutions. 5 hours.

The functions and economic significance of the major financial institutions in the economy that make the savings of society available to consumers, businesses, and governments, including commercial banks, savings banks, savings and loan associations, credit unions, insurance companies, investment trusts, various governmental lending agencies, and international financial institutions. Analysis of each institution and the part it plays in providing the short, intermediate and long-term credit needs of the users of funds. The commercial banking system in relation to its function of supplying the nation's money supply. The nature and functions of money and credit and the interrelationship of money, credit, and prices as they affect business decisions. Prerequisite: Ec 201, 202, 203. Read.

FBE 322. Business Finance. 5 hours.

Problems of the financial management of a business unit. Financial analysis and planning, including capital budgeting, the acquisition of funds, and the

* Calculus recommended.

management of those funds. The financial manager in his role as decision maker. How to determine the financial condition of the firm. Money and capital markets, trade credit, commercial bank loans, sources of intermediate-term funds, and long-term money in the form of bonds and stocks examined to discover their relative usefulness and applications. The internal day-to-day problems of maintaining an even flow and turn of assets to their best use. Prerequisite: FBE 320. Watson.

FBE 330. Introduction to Real Estate and Urban Land Use. 5 hours.

Designed to acquaint the student with the principal concepts in the field of real estate and urban land economics. Economic and social determinants of land use, land-use competition, the relation between land use and land value, the impact of regional and urban economic structures upon land use and land value; urban function and growth; the impact of institutional factors; the relation of land-use patterns to transport systems; the functioning of the various real-estate markets. Prerequisite: Ec 201, 202, 203. Browning.

FBE 407. Seminar. Hours to be arranged.

FBE 418. Advanced Business Law. (G) 5 hours.

Study of the several fields of law related to business: negotiable instruments; sales of personal property; real property, including landlord and tenant and mechanic's liens; security devices for credit transactions; business torts; government regulation of business; labor law. Prerequisite: BA 215. Robert.

FBE 430. Advanced Real Estate and Urban Land Use. (G) 3 hours.

The principles and practices involved in real-estate financing; how real-estate value is determined; the impact of public policies on real estate. Prerequisite: FBE 330 or consent of instructor. Browning.

FBE 459. Problems in Business Finance. (G) 5 hours.

Analysis and appraisal of selected problems in finance concerned with the organization, operation, and management of business enterprises. Prerequisite: FBE 322. Watson.

FBE 460. Commercial Bank Management. (G) 5 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 322; senior standing. Reed.

FBE 463. Investments. (G) 3 hours.

Economic and mathematical principles relating to the investment valuation process; corporate practices and financial institutions and organizations that serve the investor; analysis of various types of securities and other investment media; investment policy for both individuals and institutions. Prerequisite: Ec 201, 202, 203; Ac 211, 212, 213. Burrell.

FBE 464. Investments. (G) 3 hours.

Special methods used in analysis of industrial, public utility, railroad, and other securities; taxation of investment income in relation to investment policy; development of sound principles of timing and selection of securities to meet the needs of various types of investment funds. Prerequisite: FBE 463. Burrell.

FBE 466. Business Cycles. (G) 5 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. Lindholm, Miller.

FBE 474. Foreign Exchange and International Finance Management. (G) 5 hours.

The role played by 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. The instruments of foreign exchange, the setting of exchange rates, and the institutions, both national and international, which participate in the worldwide flow of funds and goods. Prerequisite: senior standing. Johannsen, Watson.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

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

The Money Market. Reed.

Economic Potentials of Oregon. Morris.

Problems in Business Forecasting. Lindholm.

Financial Policies of Business. Watson.

Taxation and Business Management. Lindholm.

FBE 511. Methods in Business Research. 3 hours.

Research techniques in business; Project design, analysis of data, presentation of research findings. Ballaine.

FBE 522. Problems in Business Finance. 5 hours.

Selected problems in the financing of business enterprise, including short-term financial arrangements. Credit management, short-term bank borrowing, the preparation and use of financial information, the uses and difficulties of forecasting money needs, the choice between debt and equity, the cost of capital, and other problems. Classroom discussion of cases. Watson.

FBE 530. Managerial Economics. 3 hours.

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

FBE 565. Security Analysis. 3 hours.

Each student selects a specific industry for intensive study, prepares a comprehensive appraisal of its financial problems, and subjects typical companies within the industry to critical examination on a comparative basis. Burrell.

FBE 566. Investment Policy. 3 hours.

Development of sound principles of investment management through the study of cases. Relation of investment policy to money markets and business fluctuations; selection of securities for investment portfolios in the light of long- and short-range objectives of the individual investor or institution. Burrell.

FBE 575. The Money Market. 3 hours.

Money-market instruments and institutions, and the part they play in the money market of the nation; analysis of the factors that influence the cost and availability of credit and money, including the influence of the Federal Reserve System and the Treasury. The aim is to develop an ability to analyze and appraise money-market trends and developments. Reed.

COURSES OFFERED ONLY IN SUMMER SESSIONS AND EXTENSION

FBE 425. Real-Estate Fundamentals. 3 hours (extension).**FBE 426. Real-Estate Practice.** 3 hours (extension).

FBE 427. **Real-Estate Appraising.** 3 hours (extension).

FBE 508. **Workshop.** Hours to be arranged (summer sessions and extension).

Management, Production, and Marketing

Professors: N. H. COMISH (emeritus), A. L. LOMAX.

Associate Professors: M. R. GREENE (department head),* E. F. BEAL, T. G. JOHNSON, W. D. RICHINS, F. J. SEUBERT,† S. D. WALTON, C. F. ZIEBARTH.

Assistant Professors: S. T. FORD, R. E. NELSON, R. J. SAMPSON, N. E. TAYLOR.

Instructors: ADOLF DIEGEL, G. R. THOMAS.

Lecturers: W. F. BRISSENDEN, W. F. RAU.

Assistants: R. A. AASETH, D. D. BROWN, JR., M. R. BURRELL, E. L. GRUBB, SHOJIRO MAKINO, M. MARTINI, JAMES PAGE, F. D. STURDIVANT, R. K. VAN ALLEN.

THE EDUCATIONAL OBJECTIVES of the Department of Management, Production, and Marketing are: (1) to provide an understanding of basic management functions involved in the production and distribution of goods and services, (2) to acquaint the student with specialized management problems related to retailing, insurance, personnel, production, advertising, transportation, foreign trade, etc., and (3) to provide the student with an opportunity to develop skill in devising fruitful approaches to the solution of management problems.

The department offers major options in marketing, production, management, personnel management, insurance, transportation, traffic management, and utilities, and business and construction.

Marketing. The option in marketing is designed to provide preparation for careers in retailing and industrial marketing, with opportunities for specialization in sales management, marketing research, advertising, and purchasing. The major requirements, in addition to the core program of the School of Business Administration, are listed below:

	Term	Hours
Merchandising Control (MPM 330).....	3	3
Principles of Advertising (MPM 341).....	3	3
Marketing Research (MPM 415).....	3	3
Government Regulation of Distribution (MPM 434).....	4	4
Marketing Management (MPM 435).....	4	4
Retail Store Management (MPM 436).....	4	4
Minimum of 6 term hours selected from electives listed below.....	6	6
	27	27

ELECTIVES

Retail Buying (MPM 439).....	3
Buying Behavior (MPM 442).....	3
Advertising Problems (J 444).....	3
Advanced Problems in Marketing Management (MPM 444).....	3
Domestic Transportation & Traffic Management (MPM 449).....	5
Foreign-Trade Marketing (MPM 475, 476, 477).....	9
Seminar: Marketing Problems (MPM 407).....	3

Production. The production option provides specialized knowledge in preparation for careers in production management in manufacturing, with emphasis on such areas as time studies, production control, and quality control. The major requirements, in addition to the core program of the school, are listed below:

* On leave of absence 1959-60.

† Serving with University of Oregon Economic Development Advisory Group in Korea.

	Term Hours
Principles of Cost Accounting (Ac 312).....	3
Manufacturing (MPM 428).....	3
Problems in Production Management (MPM 430).....	3
Seminar: Operations Research (MPM 407).....	3
Seminar: Time Study or Production Control or Quality Control (MPM 407)....	3
Minimum of 12 term hours selected from electives listed below.....	12
	27
ELECTIVES	
Social Psychology (Soc 334, 335).....	6
Industrial Psychology (Psy 447).....	3
Seminar: Industrial Sociology (Soc 407).....	3
Personnel Management (MPM 412).....	3
Wage & Salary Administration (MPM 413).....	3
Collective Bargaining (Ec 447, 448, 449).....	6
Advanced Cost Accounting (Ac 487, 488).....	6

Personnel. The personnel option is designed to prepare students for careers in personnel management and labor relations in business, government, and labor organizations. The major requirements, in addition to the core program of the school, are listed below:

	Term Hours
Personnel Management (MPM 412).....	3
Wage & Salary Administration (MPM 413).....	3
Problems in Personnel Management (MPM 414).....	3
Seminar: Personnel Management (MPM 407).....	3
Minimum of 12 term hours selected from electives listed below.....	12
	24
ELECTIVES	
Labor Economics (Ec 325).....	3
Organized Labor (Ec 326).....	3
Labor Legislation (Ec 327).....	3
Collective Bargaining (Ec 447, 448, 449).....	9
Social Psychology (Soc 334, 335).....	6
Group Dynamics (Soc 440, 441).....	6
Industrial Psychology (Psy 447).....	3
Industrial Sociology (Soc 456).....	3
Social Insurance (MPM 458).....	3
Seminar: Industrial Psychology (MPM 407).....	3
Seminar: Management (MPM 407).....	3

Management. The management option provides specialized study of the major organizational and administrative problems of a business enterprise and its several subdivisions and of the techniques available for their effective solution. The program is intended to prepare graduates for the management of their own business enterprises and for postgraduate management training in programs maintained by business and government. The major requirements, in addition to the core program of the school, are listed below:

	Term Hours
Managerial Accounting (Ac 313).....	3
Seminar: Management (MPM 407).....	3
Seminar: Operations Research (MPM 407).....	3
Three of the following:	
Business Finance (FBE 322).....	5
Seminar: Problems in Interpersonal Relations (MPM 407).....	3
Seminar: Problems in Marketing (MPM 407).....	3
Problems in Production Management (MPM 430).....	3
Minimum of 11 or 12 term hours selected from electives listed below.....	10-12
	30
ELECTIVES	
Office Organization & Management (BE 333).....	2
Government Control of Private Business (Ec 334).....	3
Marketing Research (MPM 415).....	3
Fundamentals of Risk & Insurance (MPM 354).....	4
Management Information Systems (Ac 496, 497).....	6
Seminar: Industrial Psychology (MPM 407).....	3

Insurance. The insurance option is designed to provide specialized education for the student interested in a career in the insurance industry or as an insurance specialist in business or government. The major requirements, in addition to the core program of the school, are listed below :

	Term	Hours
Fundamentals of Risk & Insurance (MPM 354).....		4
Property & Liability Insurance (MPM 455).....		5
Life & Health Insurance (MPM 456).....		4
Social Insurance (MPM 458).....		3
*Minimum of 6 term hours selected from electives listed below.....		6
		22

ELECTIVES

Buying Behavior (MPM 442).....	3
Business Finance (FBE 322).....	5
Introduction to Real Estate & Urban Land Use (FBE 330).....	5
Investments (FBE 463).....	3
Building Materials & Construction (AA 420).....	3
Advanced Business Statistics (BS 433).....	3
Seminar: Life Insurance (MPM 407).....	3
Seminar: Problems in Insurance (MPM 407).....	3
Seminar: Management (MPM 407).....	3
Business Cycles (FBE 466).....	5

Students interested in qualifying for certification as a C.L.U. (chartered life underwriter) or a C.P.C.U. (chartered property casualty underwriter) should consult their adviser concerning courses outside the School of Business Administration which are of special value in meeting the educational qualifications for these certificates.

Transportation, Traffic Management, and Utilities. This option is designed to prepare students for careers with transportation or utility companies, for traffic positions with industrial or commercial firms or trade associations, and for governmental positions with regulatory agencies or publicly owned utilities. World Economic Geography (Geog 201, 202, 203), American Governments (PS 201, 202, 203), and a year sequence in mathematics should be included in the student's lower-division program. The major requirements, in addition to the core program of the School of Business Administration, are listed below :

	Term	Hours
Domestic Transportation & Traffic Management (MPM 449).....		5
Ocean Transportation & Traffic Management (MPM 450) <i>or</i>		
Public Utility Management (MPM 467).....	3-5	
Transportation Regulatory Laws & Procedures (MPM 451).....		3
Economics of Transportation & Public Utilities (Ec 335).....		3
Minimum of 8 or 10 term hours selected from electives listed below (those taking MPM 467 will elect 10 hours).....		8-10
		24

ELECTIVES

Public Utility Management (MPM 467) <i>or</i>		
Ocean Transportation & Traffic (MPM 450).....	3-5	
Special Problems in Transportation & Traffic Management (MPM 452).....		3
Highway Transportation (MPM 447).....		3
Air Transportation (MPM 448).....		3
Principles of Cost Accounting (Ac 312).....		3
Advanced Business Statistics (BS 433).....		3
Public Administration & Policy Development (PS 411).....		3
Government Control of Private Business (Ec 334).....		3
Economic Problems of Government Regulation (Ec 437).....		2

Business and Construction. A five-year program of study for students who plan to enter the construction industry is offered under the joint supervision of the

* Students interested in actuarial work may elect certain courses in mathematics for the satisfaction of this requirement.

School of Business Administration and the School of Architecture and Allied Arts. The program, which leads to the bachelor's degree with a major in business administration, combines sound training in business methods and in the structural phases of architecture.

The major requirements, in addition to the core program of the School of Business Administration, are listed below:

Lower Division	Term Hours
Construction Materials (AA 121).....	2
Graphics (AA 211).....	2
Architectural Design (AA 278).....	2
Mathematics (Mth 105, 106, 108).....	12
Essentials of Physics (Ph 101, 102, 103).....	9
Upper Division	
Regional Studies in Business (FBE 315).....	3
Advanced Business Law (FBE 418).....	5
Introduction to Real Estate & Urban Land Use (FBE 330).....	5
Advanced Real Estate & Urban Land Use (FBE 430).....	3
Business Finance (FBE 322).....	5
Principles of Cost Accounting (Ac 312).....	3
Office Organization & Management (BEd 333).....	2
Personnel Management (MPM 412).....	3
Surveying for Architects (AA 317).....	2
Mechanical Equipment of Buildings (AA 320, 321, 322).....	9
History of Architecture II (AA 340, 341, 342).....	9
Theory of Structures I (AA 369, 370, 371).....	12
Theory of Structures II (AA 469, 470, 471).....	9
Building Materials & Construction (AA 420, 421, 422).....	9
Electives in business and architecture (the courses listed below are recommended).....	30
ELECTIVES	
Domestic Transportation & Traffic Management (MPM 449).....	5
Fundamentals of Risk & Insurance (MPM 354).....	4
Property & Liability Insurance (MPM 455).....	5
Managerial Accounting (AC 313).....	3
Federal Income Tax (Ac 379).....	3
Graphics (AA 212, 213).....	4
History of Architecture I (AA 337, 338, 339).....	9
American Architecture (AA 440).....	3
Theory of Structures III (AA 472, 473, 474).....	12

LOWER-DIVISION COURSES

MPM 125, 126, 127. Business Environment. 2 hours each term.

The social, political, and economic environment within which business functions in the United States; emphasis on the groups confronting business, their attitudes and behavior, and on the social, political, and economic responsibilities of business. Walton.

UPPER-DIVISION COURSES

MPM 321. Organization and Interpersonal Relations. 5 hours.

Principles of management applied to commercial and industrial concerns; business planning, policy formulation, establishment of procedures, operations; theory and design of organizational structure; impact of work-flow plans, leadership patterns, and control systems upon human behavior. Beal.

MPM 323. Elements of Marketing. 5 hours.

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

MPM 329. Production Management. 5 hours.

The planning, operations, and control of mass-production manufacturing; procurement, handling, and control of materials and control of quantity and quality.

ty. Ways of setting standards and improving methods; use of motion and time study; automation and automatic processing equipment. Supervision of operating employees and personnel relations as they affect production work. Emphasis on principles and relationships rather than specific techniques. Laboratory sessions (including field trips) illustrate selected methods, techniques, and management tools. Diegel.

MPM 330. Merchandising Control. 3 hours.

Application of quantitative methods to the control of merchandising activity; relation of profit-and-loss statements to merchandise planning; determination and averaging of mark-up and mark-up percentages; development of price lines; dollar and unit control of inventory; application of the transactions method of sales and expense analysis; calculation of open-to-buy; control of mark-downs. Prerequisite: MPM 323. Richins.

BEd 333. Office Organization and Management. 2 hours.

For description see page 221.

MPM 341. Principles of Advertising. 2 or 3 hours.

Advertising as a factor in the distributive process; the advertising agency; the "campaign"; the function of research and testing; the selection of media—newspapers, magazines, broadcasting, outdoor advertising, direct mail. Prerequisite: MPM 323. Taylor, Wales.

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

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

MPM 407. Seminar. Hours to be arranged.

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

Personnel management in the modern business organization; personnel policies and practices conducive to good relations with employees; personnel problems of small organizations. Beal.

MPM 413. Wage and Salary Administration. (G) 3 hours.

Systematic wage and salary programs as an essential part of an efficient personnel program; basic methods for determining individual wage rates and wage structures; job evaluation. Prerequisite: MPM 412. Beal.

MPM 414. Problems in Personnel Management. (G) 3 hours.

Specific personnel problems at various organizational levels. Each student proposes solutions, and group solutions are attempted through class discussion, in the light of various viewpoints and sound personnel principles. Prerequisite: MPM 412, MPM 413; consent of instructor. Beal.

MPM 415. Marketing Research. 3 hours.

Marketing research in the decision-making process; its effect on the executive who must use it; uses and misuses. Research design; experimentation; basic observational requirements. Problem formulation; exploratory research; specific methodology used for the specific problem; data analysis and interpretation; reporting. Cases studied to illustrate each of the topics covered. Prerequisite: MPM 435 or MPM 436. Johnson.

MPM 428. Manufacturing. 3 hours.

Manufacturing industries of the United States; their raw materials, processes, and current technological and marketing developments.

MPM 430. Problems in Production Management. (G) 3 hours.

A "model enterprise" built, and its production management problems ana-

lyzed, using methods of linear programming, statistics, and economics. Planned to acquaint the students with tools of scientific analysis which are applicable to problems in production management. Diegel.

MPM 434. Governmental Regulation of Distribution. (G) 4 hours.

Critical study of governmental regulation of marketing; historical and institutional background of current marketing policies; open markets and exchanges; analysis of specific pricing policies; forms of government regulations; impact of marketing decisions on the economic system. Prerequisite: MPM 435 or consent of instructor. Richins.

MPM 435. Marketing Management. (G) 4 hours.

The role of marketing in effective management; basic market forces; organization; analysis of individual marketing strategies; programming marketing effort; planning and control of the product, its price, and distribution channels; problems of communication; appraisal of marketing theory and development. Major emphasis on problem solving and decision making, with pertinent references to research and experience in other disciplines. Richins, Taylor.

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

Retail policies and problems. Stock-control systems, buying, methods of sales promotion, plant operation, personnel, credit, turnover, pricing, expense classification and distribution. Prerequisite: MPM 323. Thomas.

MPM 439. Retail Buying. (G) 3 hours.

Buying problems; merchandising organizations; merchandising resources; determination of what and when to buy; model stock and buying plans; buying offices; group, central, and cooperative buying; techniques of selecting mer-
chandise and distribution. Prerequisite: MPM 323. Thomas.

MPM 442. Buying Behavior. (G) 3 hours.

The consumer, studied in terms of concepts drawn from contemporary behavioral and social science; principles of perception, learning, and motivation; concepts of class and status. Implications of these basic concepts for advertising, merchandise display, appearance of retail establishments, salesmanship, and relationship between buyer and seller. Johnson.

MPM 444. Advanced Problems in Marketing Management. (G) 3 hours.

Merchandising problems of distributors, dealers, and manufacturers; marketing structure and its relation to the choice of distribution channels; problems encountered in the integration of marketing functions; developments in agricultural marketing; problems in cooperative marketing, including voluntary chain activity; dealer and distributor relations; integration of promotional activity; problems of price discrimination and price maintenance. Prerequisite: MPM 435. Richins, Taylor.

MPM 449. Domestic Transportation and Traffic Management. (G) 5 hours.

Designed to acquaint the student with principles and practices of transportation which should be known to every businessman engaged in production or distribution. The physical transportation plant of the United States and its performance; carrier responsibilities, services, and cooperation. The economic and legal basis of rates, the process of freight classification and tariff preparation and interpretation, various kinds of rate structures, and relationships between transportation and the location of economic activity. Organization, management, and services of industrial traffic departments. Prerequisite: Ec 201, 202, 203 or consent of instructor. Sampson.

MPM 450. Ocean Transportation and Traffic Management. (G) 5 hours.

The basic laws and policies of the United States relating to the merchant marine in foreign trade and national defense; construction and operating differential subsidies and control of trade routes. Ocean carrier organization; departmental controls as these affect the operation of the ship; the handling and stowage of cargo, terminal administration, harbor belt lines, and documentary procedures. Prerequisite: Ec 201, 202, 203 or consent of instructor. Sampson.

MPM 451. Transportation Regulatory Laws and Procedures. (G) 3 hours.

The 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: MPM 449, Ec 335; or consent of instructor. Sampson.

MPM 452. Special Problems in Transportation and Traffic Management. (G) 3 hours.

Major national and regional transportation problems. In addition to classroom work, each student makes an intensive exploration of a particular problem or phase of transport or traffic management of regional or national economic significance, or a detailed study of a type of carrier related to his specific career interest. Prerequisite: MPM 449; MPM 450 or MPM 467; or consent of instructor. Sampson.

MPM 453. Business Policies. (G) 5 hours.

The interdependence of the different departments of a business concern. Designed to provide an integrated view of business operations, and to coordinate the more specialized instruction of the school. Prerequisite: senior standing. Greene, Johnson.

MPM 455. Property and Liability Insurance. (G) 5 hours.

The more important methods of reducing business and personal risks from physical and moral hazards; major contracts of insurance to indemnify for losses from such perils as fire, windstorm, explosion, transportation, legal liability, dishonesty, and insolvency of others; loss adjustment practices, underwriting problems, reinsurance, rate making, consequential losses. Greene.

MPM 456. Life and Health Insurance. (G) 3 hours.

The chief methods of handling personal risks, in business as well as individual applications. Analysis of life insurance, annuity, and health insurance contracts from the viewpoint of the insurance consumer; legal and economic bases of life and health insurance; interpretation of major policy provisions; importance of rate making and reserve practices to the policy holder; integration of private policies with social-insurance coverages; estate planning and the role of income and estate taxation; business and personal uses of wills and trust; settlement options; pension planning. Greene.

MPM 458. Social Insurance. (G) 3 hours.

Analysis of the major kinds of compulsory insurance and their interrelations; old-age and survivors' insurance, unemployment insurance, workmen's compensation, nonoccupational disability insurance, and compulsory automobile insurance; comparison of social and private insurance. Greene.

MPM 467. Public Utility Management. (G) 3 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, etc.). Organizational structures, price policies, marketing of services, short- and long-range planning, public relations, the potential impact of atomic energy development. Particular emphasis on problems affecting the Pacific Northwest. Prerequisite: Ec 201, 202, 203 or consent of instructor. Sampson.

MPM 475, 476, 477. Foreign-Trade Marketing. (G) 3 hours each term.

Fall: export and import department organization, foreign-trade advertising, communications, channels of distribution; winter: standard sales-contract terms, foreign credits and collections, arbitration; spring: United States tariffs, commodity marketing, market surveys. Prerequisite: MPM 435.

MPM 480. Business History. (G) 5 hours.

Evolving business systems in the changing American business environment since the colonial period; study of individual business firms and businessmen that illustrate these systems at critical times in their development; the results

of decisions made at such junctures examined for their significance for business management. Prerequisite: MPM 125, 126, 127 or consent of instructor. Walton.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

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

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

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

MPM 507. **Seminar.** Hours to be arranged.

Personnel Management. Beal.

Social Philosophy of Business. Beal.

Transportation Management. Sampson.

Production Management.

Foreign Trade.

Merchandising. Greene.

Retail Management Problems. Richins.

Pricing Policies. Taylor.

Social Insurance. Greene.

Problems in Insurance. Greene.

Business History. Walton.

MPM 520. **Marketing Problems and Policies.** 3 hours.

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

MPM 521. **Pricing Policies.** 3 hours.

The development of individual company pricing policies; intra-industry pricing policies and their competitive aspects; influence of trade associations in price determination; legislation and pricing; effect of specific court rulings on price policy. Taylor.

MPM 531. **Theory of Business Organization.** 3 hours.

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

MPM 532. **Problems in Business Policies.** 3 hours.

Policy formation and administration; a systematic approach to company-wide problems developed through the solution of actual business problems. The viewpoint is that of general rather than functional management.

COURSES OFFERED ONLY IN SUMMER SESSIONS AND EXTENSION

MPM 447. **Highway Transportation.** (G) 3 hours (extension).

MPM 448. **Air Transportation.** (G) 3 hours (extension).

MPM 508. **Workshop.** Hours to be arranged (summer sessions and extension).

Dental School

HAROLD J. NOYES, D.D.S., M.D., Dean of the Dental School.

ERNEST A. HURLEY, D.M.D., Assistant to the Dean and Registrar.

THOMAS H. CAHALAN, M.S. in L.S., Librarian.

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 (founded in 1893) and the Oregon College of Dentistry (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, oral pathology, pedodontics, pharmacology, and physiology, and a two-year program of training for dental hygienists.

The professional curriculum in dentistry is organized to provide the basic scientific knowledge, the mechanical skills, and the clinical experience essential for competence and success in the profession. The curriculum requires four years of didactic and clinical training, following three academic years of preprofessional work in liberal arts in an accredited college or university. The University offers, on the Eugene campus, a three-year pre dental curricula which satisfy the admission requirements of the Dental School.

Students completing the two-year dental-hygiene program may, by taking two additional years of work on the Eugene campus, satisfy the requirements for the Bachelor of Science degree with a major in health education.

Detailed information concerning the Dental School is published in a separate catalog; copies will be furnished on request.

School of Education

PAUL B. JACOBSON, Ph.D., Dean of the School of Education.

Professors: C. E. AVERY, H. W. BERNARD, QUIRINUS BREEN, C. D. BYRNE, ALBUREY CASTELL, H. H. CLARKE, F. B. HAAR, A. C. HEARN, CLARENCE HINES, C. W. HINTZ, C. L. HUFFAKER (emeritus), P. B. JACOBSON, J. R. JEWELL (emeritus), P. E. KAMBLY, R. E. NYE, M. C. ROMNEY, P. B. SIMPSON, V. S. SPRAGUE, F. L. STETSON (emeritus), D. E. TOPE, H. B. WOOD.

Associate Professors: F. C. ANDREWS, T. O. BALLINGER, JACK CULBERTSON,* W. A. DAHLBERG, E. W. DILS, ELIZABETH FINDLY, D. W. FULLMER, KEITH GOLDHAMMER, GRACE GRAHAM, W. R. HILL, JR., R. N. LOWE, JESSIE L. PUCKETT, CLIFF ROBINSON, J. F. RUMMEL, A. A. SANDIN, R. S. VAGNER, P. E. WATSON, RUTH A. WILLARD.

Assistant Professors: ABBEY ADAMS, EXINE A. BAILEY, R. A. KEHL, C. J. KOLSON, SILVY A. KRAUS, WINIFRED C. LADLEY, JOHN LALLAS, L. L. LOVELL, R. H. MATTSO, R. P. NELSON, VERNICE T. NYE, BERNICE M. RISE, G. P. PETERSEN, O. F. SCHAAF, J. W. STARR III, J. E. SUTTLE, V. T. THOMPSON, MILDRED H. WILLIAMS.

Instructors: JANE GEHRING, EVELYN PIPER, D. P. TEN BRINKE.

Fellows: H. M. ANDERSON, R. P. ENDRES, L. D. GARMIRE, A. V. JOHNSTON, A. D. LEINBACH, T. K. MCLEAN, L. W. MYERS, HENRY OSIBOV, J. E. RICH, R. R. ROSS, R. C. SABIN, S. W. TIEDT.

Assistants: R. B. BALLOU, JR., T. A. BILLINGS, WILLIAM DUSHENSKI, P. J. ELICH, T. E. GADDIS, W. D. KNILL, J. J. MANEY, L. H. MCCLELLAN, J. S. MURRAY, WILLIAM STEWARD, CHERRY TAYLOR.

THE SCHOOL OF EDUCATION offers undergraduate and graduate work in teacher education at both the elementary and secondary levels, instruction, principally at the graduate level, in the fields of school administration, school psychological services, and higher education, and basic professional training for school and public librarians.

Admission to Courses in Education. Students may be admitted to courses in education only with the consent of the School of Education. A grade-point average of 2.00 for the student's first two years of University work is required for admission to all 300 courses. Ed 310 and Ed 312 are prerequisite to all 400 and 500 courses in education, unless an exception is indicated in the course description.

Undergraduate Professional Program. In planning its program, the School of Education has recognized three qualifications for a good teacher: (1) a broad and liberal education; (2) mastery of subject matter; (3) an understanding of child and adolescent psychology and of professional problems and techniques.

To encourage prospective secondary-school teachers to devote their first two years at the University exclusively to liberal arts and to basic work in the subject fields, the University of Oregon has organized its professional instruction in education on an upper-division and graduate basis, and requires junior standing for admission to major work in the School of Education. Lower-division students planning to major in education enroll in the College of Liberal Arts.

Students preparing for secondary-school teaching are also encouraged to complete their work for a bachelor's degree with a major in a subject field—

* On leave of absence 1959-60.

taking as electives the professional courses in education required for teacher certification. An undergraduate major program in education is, however, available, principally for students preparing for elementary-school teaching. The program leads to the Bachelor of Arts, Bachelor of Science, or Bachelor of Education degree.

Before the end of their senior year, undergraduate education majors should take sufficient elective work in education, in addition to courses required for certification, to satisfy the 36-hour major requirement for a baccalaureate degree. General Psychology (Psy 201, 202) may be counted toward the satisfaction of the major requirement, but may not be counted toward the professional requirement for secondary certification.

Graduate Program. Professional work in education beyond the undergraduate courses required for certification is offered principally at the graduate level. Specialized graduate work is offered in: school administration and supervision, school psychological services, curriculum and instruction, elementary education, secondary education, higher education, history and philosophy of education. Graduate work in education leads to the following degrees: Master of Arts, Master of Science, Master of Education, Doctor of Philosophy, Doctor of Education.

Special programs of graduate study are also offered toward the satisfaction of the Oregon state requirement of a fifth year of college work for regular high-school teacher certification. The student may qualify, on the completion of the fifth year, for an interdisciplinary M.A. or M.S. in a program planned especially for teachers for a departmental degree with a major in a subject field or in education.

Bureau of Educational Research. Through the Bureau of Educational Research, the School of Education provides consultant and field services for the school districts of the state. Expert assistance is offered in the planning of school facilities, school organization, curriculum and instruction, staff personnel administration, auxiliary services, school and community relationships, financial and business organization, and guidance and testing programs. Affiliated with the bureau is the Oregon School Study Council, which is supported by school districts of the state, with the cooperation of the Oregon State Department of Education, the Oregon School Boards Association, and the University of Oregon. The offices of the council are located on the University campus.

Curriculum Laboratory. The Curriculum Laboratory provides excellent facilities for specialized study of the public-school curriculum and for practical research on curriculum problems. The equipment of the laboratory includes: (1) the most 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) a complete 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) selected professional books on the curriculum; (6) bibliographies on various phases of the public-school curriculum.

Placement Service. The University maintains a central Placement Service for the assistance of graduating students and alumni seeking new or better positions—including positions in school teaching and administration. See page 75.

General Education

BROAD FUNDAMENTAL COURSES offered by the School of Education for students preparing for teaching and administration at all levels of education are listed below.

LOWER-DIVISION COURSE

Ed 111. Orientation to Teaching. 1 hour.

No-grade course. An elective course, designed to help beginning students understand the University's teacher-education program, opportunities in education, and the problems of teaching at various levels. Open to freshmen and sophomores only.

UPPER-DIVISION COURSES

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

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

Ed 311. Human Development. 4 hours.

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

Ed 312. Educational Psychology: Learning. 4 hours.

Theoretical and practical study of learning and of factors affecting learning by children and youth in school. Theories of learning, motivation, guidance; learning activity, transfer, evaluation of achievement; principles of learning applicable to learners of varying levels of maturity. Laboratory training in observation and analysis of the teaching-learning situation from a psychological viewpoint. Prerequisite: Psy 201, Ed 311.

Ed 317, 318. Social Foundations of Teaching. 3 hours each term.

First term: the nature and influence of such social determinants of child behavior as family, class structure, peer groups, mass media of communication, etc.; the social status of childhood, emerging rights, agencies concerned with children. Second term: the social role of the school, including a study of community-analysis techniques as an approach to the school environment; community resources for teaching, and ways of utilizing these resources; educational implication of children's out-of-school activities and problems; community beliefs and practices, and their relation to the curriculum. Graham.

Ed 405. Reading and Conference. Hours to be arranged.**Ed 407. Seminar.** (G) Hours to be arranged.**Ed 435. Audio-Visual Aids.** (G) 4 hours.

The development and use of audio-visual aids in education. Emphasis on actual learning situations in which radio, recordings, films, slides, pictures, maps, charts, etc. are utilized. Sources of materials and equipment; administration of audio-visual programs.

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

A general review of the growth and development of education in relation to the civilization of the times; emphasis on development of educational philosophies. Breen.

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

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

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

An examination of educational philosophies proposed by recent leaders and critics of American educational theory and practice. Castell.

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

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

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

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

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

Ed 501. Research. Hours to be arranged.**Ed 503. Thesis.** Hours to be arranged.**Ed 505. Reading and Conference.** Hours to be arranged.**Ed 507. Seminar.** Hours to be arranged.**Ed 508. Workshop.** Hours to be arranged.

Opportunity for group work on special problems.

Ed 545. School and Society in the Recent Past. 3 hours.

The liberal evolution in modern education; the state and education; freedom in teaching; education and social ends; the place of religion in secular education. Castell.

Ed 565. Curriculum Foundations. 4 hours.

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

Ed 566. Curriculum Construction. 4 hours.

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

Ed 567. Curriculum Materials. 4 hours.

Effective use and organization of curriculum materials; text and reference books, supplementary pamphlet materials, films and slides, records and recordings, pictures, radio, etc.; techniques of unit construction.

Ed 587. Adult Education. 3 hours.

History and philosophy of the adult-education movement; its aims, ranging from the specifically vocational to the cultural. Representative work and methods in adult education.

COURSES OFFERED ONLY IN EXTENSION AND SUMMER SESSIONS

Ed 447. Radio Education. (G) 3 hours (extension and summer sessions).**Ed 475. Parent-Teacher Organizations.** 2 hours (extension and summer sessions).**Ed 478. Improvement of Instruction in Reading.** (G) 3 hours (extension).**Ed 482. Intercultural Education.** (G) 3 hours (extension and summer sessions).**Ed 499. Utilization of Regional Resources.** (G) 3 hours (extension and summer sessions).

Elementary Education

THE UNIVERSITY OF OREGON offers, in the field of elementary education, (1) a four-year program leading to a bachelor's degree and a regular five-year Oregon state elementary certificate and (2) a full program of graduate work leading to advanced degrees.

Undergraduate Program. The undergraduate program in elementary education offered by the University is planned to meet the requirements of the Oregon State Board of Education for elementary certification. For Oregon-trained teachers, the Board of Education requires graduation from a four-year elementary teacher-training curriculum offered by a standard Oregon normal school, teacher's college, college, or university approved by the board for the preparation of elementary teachers. The program recommended by the University is as follows:

First Year	Term Hours
English Composition (Wr 111, 112, 113).....	9
Survey of Eng. Lit. (Eng 101, 102, 103) <i>or</i> Appreciation of Lit. (Eng 104, 105, 106), <i>or</i> World Lit. (Eng 107, 108, 109).....	9
*Gen. Biology (Bi 101, 102, 103).....	12
Introductory Geography (Geog 105, 106, 107).....	9
*Mathematics for Elementary Teachers (Mth 51).....	3
Use of Library (Lib 117).....	1
Orientation to Teaching (Ed 111).....	1
Second Year	
*History of the United States (Hst 201, 202, 203).....	9
Any two of the following: Fund. Body Movement, Posture & Tumbling (PE 223), Games for Elementary School (PE 221), Rhythms for Elementary School (PE 22)	4
Field Experience (Ed 330).....	2
Fundamentals of Speech (Sp 111).....	3
General Psychology (Psy 201).....	3
*Physical-Science Survey (GS 104).....	4
†Human Development (Ed 311).....	4
†Educ. Psych.: Learning (Ed 312).....	4
School in American Life (Ed 310).....	3
Third Year	
Music for Elementary Teachers (MuE 381, 382).....	6
Music Methods for El. Teachers (MuE 383).....	3
Arts & Crafts for El. Teachers (ArE 311, 312, 313).....	9
Child & Curriculum: Language Arts (Ed 352).....	5
Child & Curriculum: Arithmetic (Ed 353).....	3
Child & Curriculum: Social Studies, Science (Ed 354).....	5
Children's Literature (Lib 490).....	3
Soc. Found. of Teaching (Ed 317).....	3
Fourth Year	
Student Teaching: Grades 1-6 (Ed 415).....	15
Seminar: Elementary Student Teaching (Ed 404).....	2
Oregon History (Hst 377) <i>or</i> Hist. of Pac. Northwest (Hst 478).....	2-3
Elementary-Sch. Health Ed. (HE 450).....	3
Methods in Elementary Sch. Phys. Ed. (PE 420).....	3

Candidates for a degree in elementary education and for certification are required to meet certain standards of scholarship, personal and professional aptitudes, and speech and language usage.

Graduate Program. The University's program of graduate study in elementary education is planned to meet the needs of both teachers and administrators. Included are courses which acquaint the student with the latest research and developments in the various areas of instruction in the elementary school, and courses providing preparation for all types of administrative and supervisory credentials.

UPPER-DIVISION COURSES

Ed 330. Field Experience. 2 hours.

Work with school-age children after school hours. Students plan and conduct recreational activities in youth organization in the Eugene area. Kraus.

* Alternatives may be arranged in consultation with adviser.

† Seminar: Human Development & Learning (Ed 407), 5 hours, may be taken to satisfy the state requirement in place of both Ed 311 and Ed 312.

- Ed 352. **The Child and his Curriculum: Language Arts.** 2-5 hours.
Language development from kindergarten through the elementary school. Emphasis on language as a means of communication and as a tool for thinking. Reading, reading readiness, the psychology of the reading process, reading skills in relation to other parts of the curriculum, diagnostic and remedial measures. Materials and teaching procedures in oral and written communication, spelling, and handwriting. Prerequisite: Ed 311, Ed 312. Willard.
- Ed 353. **The Child and his Curriculum: Arithmetic.** 3 hours.
Arithmetic in the elementary-school program. Types of instruction, criteria for selection, placement, and organization of content. Prerequisite: Ed 311, Ed 312. Starr.
- Ed 354. **The Child and his Curriculum: Social Studies, Science.** 2-5 hours.
Social studies and science in the elementary-school curriculum. Ways of developing basic concepts in human relationships and community living. Emphasis on the effective use of instructional media and on related problems of individual differences, cultivation of critical thinking, provision for growth and retention, and methods of evaluating results of instruction. Prerequisite: Ed 311, Ed 312. Suttle.
- Ed 404. **Seminar: Elementary Student Teaching.** 2 hours.
No-grade course.
- Ed 414. **Student Teaching: Kindergarten.** 3-15 hours (15 hours maximum credit).
No-grade course.
- Ed 415. **Student Teaching: Grades 1-6.** 3-15 hours (15 hours maximum credit).
No-grade course.
- Ed 451. **Preprimary Education.** (G) 3 hours.
Relationship of the development of young children to the educational programs provided for them. Program planning; group behavior; individual behavior; the place of the teacher; equipment; activities; books and music for young children.
- Psy 460. **Development Psychology I: Infancy and Childhood.** (g) 3 hours.
For description, see page 179.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

- Ed 534. **Science in the Elementary School.** 3 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. Kambly.
- Ed 535. **Social Studies in the Elementary School.** 3 hours.
Social-education objectives; children's social problems; unit development; work-study skills; organization of the program; materials; research findings basic to the social education of children. Willard.
- Ed 536. **Language Arts in the Elementary School.** 3 hours.
The 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. Willard.
- Ed 537. **Reading in the Elementary School.** 3 hours.
Nature of the reading process, objectives, organization of a desirable reading program; reading readiness, reading skills; procedures and materials for developing children's reading abilities; methods of diagnosing difficulties and evaluating progress; research findings concerning the teaching of children to read. Willard.

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

Number abilities needed by children; research findings in mathematics education; designing number experiences; theories of teaching, desirable teaching procedures, selection and use of materials. Starr.

Ed 552. Elementary-School Problems. 4 hours.

Selected current problems; issues and theories of elementary education; characteristics of modern teaching; major current trends. Sandin.

Ed 553. Elementary-School Curriculum. 4 hours.

A systematic study of the elementary-school curriculum, including pupil needs in everyday life situations, objectives, essentials of a good program, varying curriculum designs, organization of learning experiences, evaluation of learning, and appraisal of newer curriculum practices. Sandin.

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

For mature students of elementary education who are preparing for administrative or supervisory positions. Characteristics of good elementary schools, leadership responsibilities and processes, school organization patterns, pupil personnel policies, school-community relationships. Sandin.

COURSES OFFERED ONLY IN EXTENSION

Ed 455. Primary-Education Workshop. (G) 5 hours.**Ed 457. Intermediate and Upper-Grade Education (Workshop).** (G) 2-5 hours.

Secondary Education

UNDER OREGON SCHOOL LAW, five years of collegiate preparation, including specified work in education and in subject fields, is required for a regular secondary-school teacher's certificate. Graduates of standard colleges and universities who are progressing toward the completion of the fifth-year program may, however, be granted a series of five one-year provisional certificates pending the satisfaction of the full requirement for regular certification.

For each provisional certificate after the first, 9 term hours of work toward the completion of the fifth-year program are required.

The following University program is recommended to satisfy the Oregon state course requirements for secondary certification:

Junior Year	Term Hours
School in American Life (Ed 310).....	3
* Human Development (Ed 311).....	4
* Educational Psych: Learning (Ed 312).....	4
Princ. of Secondary Teaching (Ed 314) <i>or</i> Special Secondary Methods (Ed 408)	3
Senior Year	
† Student Teaching: Junior & Senior High School (Ed 416).....	9-10
† Special Secondary Methods (Ed 408).....	3
(A student who has earned the bachelor's degree and has completed the courses listed above under "junior year" and "senior year," and has adequate preparation in subjects taught in high school, is eligible for the first provisional certificate.)	
Graduate Year	
‡ Subjects taught in high school.....	21
Courses in any two or more of the following fields of education: curriculum & instruction, guidance & counseling, measurement & evaluation, social foundations of education, improvement of reading in high school.....	9-10
Electives (upper-division or graduate courses).....	15

* Seminar: Human Development & Learning (Ed 407), 5 hours, may be taken to satisfy the state requirement in place of both Ed 311 and Ed 312.

† This work may be taken in the graduate year, but may not be applied toward a graduate degree; Ed 416 is required for the first provisional certificate.

‡ Of these courses, at least 15 term hours must be at the upper-division or graduate level.

The courses should be taken in the sequence indicated above; the sequence should be varied only with the approval of the School of Education. Students who have taken part of their preparatory work at other institutions, especially out-of-state institutions, should consult the School of Education concerning allowed equivalents for the satisfaction of Oregon requirements.

Before assignment to student teaching, students are required to meet certain standards of scholarship, personal and professional aptitude, and speech and language usage.

Subject Preparation. Under regulations adopted by the Oregon State Board of Education, new teachers employed in approved high schools may be assigned to teach only in those subject fields in which they have completed a stated minimum of college preparation. University courses which satisfy these minimum state requirements in the several fields are listed on the following pages, together with additional courses to meet University standards of adequate subject preparation.

The University finds it difficult to place a beginning high-school teacher who has not prepared himself, through suitable University courses, for the teaching of at least two subjects.

One of the student's subject fields must be a field in which the University offers supervised teaching, namely: art, biological science, business, chemistry, drama, English, French, general science, German, health education, journalism, Latin, library, mathematics, music, physical education, physics, social science, Spanish, speech.

Art

Adviser: T. O. BALLINGER

MINIMUM REQUIREMENTS OF STATE BOARD OF EDUCATION

Art: 24 term hours distributed among all of the following fields: art education; art history; crafts; studio experience in design or composition; drawing, painting, or sculpture (or any combination of these). Requirement should be satisfied with the following courses:

Intro. to Art Educ. (ArE 314).....	3
Survey of Visual Arts (AA 201).....	3
Ceramics (AA 255), Weaving (AA 256), or Jewelry (AA 257).....	6
Design Studio I (AA 187) or Basic Design (AA 295).....	6
Painting (AA 290).....	2
Drawing (AA 291).....	2
Sculpture (AA 293).....	2

ADDITIONAL COURSES TO MEET UNIVERSITY STANDARDS

Art in Junior High School (ArE 314).....	3
Art in Senior High School (ArE 414).....	3
Survey of Visual Arts (AA 202, 203).....	6
Art history (selected).....	9
Drawing (AA 391).....	6
Painting (AA 390).....	6
Water Color (AA 292).....	2-3
Sculpture, applied design (selected).....	9

Biological Science

Adviser: A. L. SODERWALL

Biology: 18 term hours. Requirement should be satisfied with the following courses:

Gen. Biology (Bi 101, 102, 103) or Biol. Sc. (Soph. Honors) (GS 201, 202, 203)	12
Upper-division biology courses.....	6

Selections from Invert. Zoology (Bi 324), Comp. Anatomy (Bi 325), Vert. Embryology (Bi 326), Plant Morphology (Bi 332, 333), Systematic Botany (Bi 334)	16
Animal or Plant Physiology (Bi 314 or Bi 315).....	4
Intro. to Genetics (Bi 442).....	3
Other upper-division biology courses.....	4-12

Business

Adviser: CATHERINE M. JONES

**MINIMUM REQUIREMENTS OF STATE BOARD
OF EDUCATION**

Business Education: shorthand, 12 term hours; typing, 6 term hours; bookkeeping, 9 term hours; commercial law, 6 term hours; office practice, 6 term hours (regularly certified teachers may substitute demonstrable competency, gained through business-college courses or practical experience, for the minimum training required). Requirement should be satisfied with the following courses:

Stenography (SS 111, 112, 113).....	9
Applied Stenography (SS 211).....	3
Office Practice (SS 323, 324, 325).....	6
Typing (SS 121, 122, 123).....	6
Fund. of Accounting (Ac 211, 212, 213)....	9
Business Law (FBE 216).....	5

**ADDITIONAL COURSES TO MEET
UNIVERSITY STANDARDS**

Additional courses required for a major in business education (see page 220).

Chemistry

Adviser: D. F. SWINEHART

Chemistry: chemistry, 12 term hours; physics, 6 term hours. Requirements should be satisfied with the following courses:

General Chemistry (Ch 201, 202, 203, Ch 204, 205, 206).....	15
General Physics (Ph 201, 202).....	10

Organic Chemistry (Ch 334, 335).....	8
Element. Quantitative Analysis (Ch 320)..	5

Drama

Adviser: H. W. ROBINSON

Dramatics: 9 term hours. Requirements should be satisfied with the following courses:

Theater Principles (Sp 261).....	3
Production Workshop (Sp 264).....	3
Play Direction (Sp 364).....	3

Additional courses required for a major in theater (see page 189).

English

Adviser: N. H. OSWALD

English: 42 term hours, including work in each of the following fields: English composition (including work beyond the basic freshman course); English literature; American literature; speech; English language development. Requirements should be satisfied with the following courses:

English Composition (Wr 111, 112, 113)..	9
Survey of Eng. Lit. (Eng 101, 102, 203), or Appreciation of Lit. (Eng 104, 105, 106), or World Lit. (Eng 107, 108, 109), or Lit. (Soph. Honors) (AL 101, 102, 103)	9
Shakespeare (Eng 201, 202, 203).....	9
English Comp. for Teachers (Wr 411).....	3
Intro. to Mod. English (Eng 491) or Mod. Eng. Language (Eng 492, 493)....	3-6
Survey of American Lit. (Eng 253, 254, 255) (two terms) or Lit. Foundations of Am. Life (Eng 475, 476, 477)	6
(two terms)	6
Speech for Classroom Teacher (Sp 411)....	3
Corrective English (Wr 50) is not accepted toward the satisfaction of the requirement.	

Lit. for Teachers (Eng 488).....	3
Upper-division courses in English and American Literature as follows:	
Periods	9
Types	6
Authors	6

French

Adviser: D. M. DOUGHERTY

MINIMUM REQUIREMENTS OF STATE BOARD OF EDUCATION

Foreign Languages: 30 term hours or equivalent of college preparation in each language to be taught. Requirement in French should be satisfied with the following courses:

Second-Year French (RL 101, 102, 103)....	12
French Lit. (RL 201, 202, 203 or RL 311, 312, 313)	9
Inter. French Comp. (RL 314, 315, 316)..	6
Fr. Pron. & Phonetics (RL 331, 332, 333) (two terms)	4

For students who have not studied French in high school:

First-Year French (RL 50, 51, 52).....	12
Second-Year French (RL 101, 102, 103)....	12
Fr. Pron. & Phonetics (RL 331, 332, 333) or Intermediate Fr. Comp. (RL 314, 315, 316)	6

ADDITIONAL COURSES TO MEET UNIVERSITY STANDARDS

Adv. French Comp. (RL 467, 468, 469)....	6
French Cult. & Civil. (RL 429, 430, 431)..	9

General Science

Adviser: A. F. MOURSUND

Ninth-Grade Science: 24 term hours in the natural sciences, including at least 9 term hours in physical science and 9 term hours in biological science. Requirement should be satisfied with the following courses:

Year sequence in biology.....	12
Year sequence in physics or chemistry.....	15

Year sequence in physics (if chemistry taken for state requirement) or chemistry (if physics taken for state requirement)	15
Additional year sequence in science (geology recommended)	12

German

Adviser: D. M. DOUGHERTY

See State Board requirements under *French*. Requirement in German should be satisfied with the following courses:

First-Year German (GL 50, 51, 52).....	12
Second-Year German (GL 101, 102, 103)..	12
Ger. Conv. & Comp. (GL 334, 335, 336)....	6

German Lit. (GL 201, 202, 203 or GL 343, 344, 345)	9
Adv. Ger. Comp. (GL 424, 425, 426).....	6
Ger. Cult. & Civil. (GL 340, 341, 342).....	6

Health Education

Adviser: F. B. HAAR

Health Education: 18 term hours selected from at least four of the following fields: personal hygiene, community health problems, nutrition, school health services (including guidance and counseling), school health education. Requirement should be satisfied with the following courses:

Prin. of Dietetics (HEc 225).....	2
Community Health Problems (HE 362)....	3
Personal Health Problems (HE 361).....	3
Commun. & Noncommun. Diseases (HE 363)	3
Health Instruction (HE 464).....	3
School Health Service (HE 465).....	3
First Aid (HE 252).....	3

General Biology (Bi 101, 102, 103).....	12
Intro. to Bacteriology (Bi 311).....	3
Social Hygiene (HE 463).....	3
Intro. to Public Health (HE 364).....	3
Safety Education (HE 358).....	3

Home Economics

Adviser: MABEL A. WOOD

**MINIMUM REQUIREMENTS OF STATE BOARD
OF EDUCATION**

Homemaking: 27 term hours distributed as follows: foods and nutrition (including a course in nutrition), 9 term hours; clothing, 8 term hours; child development, family relations, home management, 9 term hours, including work in each field. Requirement should be satisfied with the following courses:

Clothing Constr. (HEc 111, 112, 113).....	6
Clothing Select. (HEc 114, 115, 116).....	3
Foods (HEc 211, 212, 213).....	9
Child Care & Train. (HEc 325).....	3
Household Mgt. (HEc 339).....	3
Home Plan. & Furnish. (HEc 331).....	3
Princ. of Dietetics (HEc 225).....	2

**ADDITIONAL COURSES TO MEET
UNIVERSITY STANDARDS**

One of the following:

Textiles (HEc 125).....	2
Family Relationships (HEc 222).....	2

Student teaching in home economics is not offered at the University.

Journalism

Adviser: C. T. DUNCAN

Journalism: 9 term hours. Requirement should be satisfied with the following courses:

Intro. to Journalism (J 211, 212, 213).....	6
Reporting (J 361).....	2
Copy Editing I (J 371).....	2

Mechanics of Publishing (J 321).....	3
History of Journalism (J 487).....	3
Journalism & Public Opinion (J 494) or Press & Related Media (J 457).....	2-3
News Photography I (J 335).....	3
Supervision of School Pub. (J 455).....	3

Latin

Adviser: D. M. DOUGHERTY

See State Board requirements under *French*. Requirement in Latin should be satisfied with the following courses:

Second-Year Latin (CL 104, 105, 106)....	12
Latin Composition (CL 347, 348, 349).....	6
Latin Literature: Augustan Age (CL 204, 205, 206 or CL 331, 332, 333).....	9
Literature of Ancient World (AL 306).....	3
For students who have not studied Latin in high school:	
First-Year Latin (CL 60, 61, 62).....	12
Second-Year Latin (CL 104, 105, 106).....	12
Latin Composition (CL 347, 348, 349).....	6

Latin Literature: Republican Period (CL 361, 362, 363).....	9
Literature of Ancient World (AL 304, 305)	6
For students who have not studied Latin in high school:	
Latin Literature: Augustan Age (CL 204, 205, 206 or CL 331, 332, 333).....	9
Literature of Ancient World (AL 304, 305, 306)	9

Library

Adviser: WINIFRED C. LADLEY

Library: 9-21 term hours training in library science, including book selection, cataloging, and library administration. Requirement should be satisfied with selections from the following courses, including Lib 386, Lib 484, and Lib 488:

Bibliography & Reference (Lib 381).....	3
Intro. to Cataloging & Class. (Lib 386).....	3
Children's Lib. (Lib 490).....	3
School Lib. Administration (Lib 484).....	3
Adv. Bibliography (Lib 485).....	3
Cataloging & Classification (Lib 487).....	3
Books for Young People (Lib 488).....	3
Book Selection (Lib 382).....	3
Storytelling (Lib 491).....	3

Lit. of Humanities (Lib 492).....	3
Lit. of Sciences (Lib 494).....	3
Lit. of Social Sciences (Lib 495).....	3
Library in Mod. Community (Lib 496).....	3

Mathematics

Adviser: I. M. NIVEN

MINIMUM REQUIREMENTS OF STATE BOARD OF EDUCATION

Mathematics: 18 term hours, including college algebra and geometry (analytic, non-Euclidean, or projective) and courses selected from: trigonometry, calculus, mathematics of finance, statistics, history of mathematics, basic concepts or secondary mathematics. Requirement should be satisfied with the following courses:

Intro. College Math. (Mth 105, 106, 107) or Analytic Geometry & Calculus (Mth 204, 205, 206)	12-15
Fund. of Algebra (Mth 341)	3
Fund. of Geometry (Mth 344)	3

Mth 51, 52 cannot be counted toward the minimum requirement.

ADDITIONAL COURSES TO MEET UNIVERSITY STANDARDS

Fund. of Algebra (Mth 342, 343)	6
Fund. of Geometry (Mth 345)	3
Fund. of Statistics (Mth 346)	3
Diff. & Int. Calculus (Mth 201, 202, 203) ..	12
Linear Algebra & Coord. Geometry (Mth 316, 317)	6
Number Theory (Mth 318)	3

(These courses are listed in order of preference.)

Music

Advisers: R. E. NYE, R. S. VAGNER

Music: 24 term hours, including courses in each of the following fields: music history and literature, music theory, instrumental or vocal ensemble, applied music, conducting. Requirement should be satisfied with the following courses:

Music Theory I (Mus 111, 112, 113)	12
Music History & Lit. (selected)	6
Applied Music—instrumental or voice	3

Vocal option:

Choral Conducting (MuE 323)	2
Chorus	1

Instrumental option:

Instrumental Conducting (MuE 320)	2
Band, Orchestra, or Chorus	1

Applied Music—instrumental or voice	9-15
Music Theory II (Mus 211, 212, 213)	9
Keyboard Harmony (Mus 214, 215, 216) ..	3
Band, Orchestra, Chorus	11-17
History of Music (Mus 360, 361, 362)	9

Vocal option:

Music Education (MuE 317, 318, 319)	9
Choral Conducting (MuE 324, 325)	4
Choral Arranging (Mus 357)	2
Instrumental classes	3

Instrumental option:

Instrumental Conducting (MuE 321, 322) ..	4
Instrumental classes	10
Instrumental & Arranging (Mus 329, 330, 331)	6
Voice Class (MuE 351)	2
Super. of Gen. Music Program (MuE 426)	3

For all students: demonstration of reasonable proficiency on the piano.

Physical Education

Advisers: JESSIE L. PUCKETT, V. S. SPRAGUE

Physical Education: 18 term hours, distributed as follows: 9 term hours in professional courses, including work in each of the following: principles and programs, methods and evaluation, organization and administration; 9 term hours in professional activity courses selected from at least four of the following: team sports, individual and dual sports, gymnastics and tumbling, rhythms, aquatics, fundamentals of body movement. Requirement should be satisfied with the following courses:

Princ. & Pract. of P.E. (PE 341)	3
Class Techniques in P.E. (PE 342)	3
School Program (PE 445)	3

(Continued on page 248)

Organiz. & Administration of P.E. (PE 343)	3
Tests & Measurements in P.E. (PE 446) ..	3

(Continued on page 248)

Physical Education (continued)

MINIMUM REQUIREMENTS OF STATE BOARD
OF EDUCATION

Men:	
Prof. Activities: Mov. & Games, Apparatus & Tumb. (PE 195).....	4
Prof. Activities: Folk & Square Dance (PE 295).....	2
Prof. Activities: Tennis, Badminton, Soccer, Football, Volleyball (PE 395).....	4
Women:	
Prof. Activities: Contemp. Dance, Field Sports, Folk, Square & Ballroom Dance, Bowling, Small Court Games, Swim. (PE 294).....	6
Prof. Activities: Fundamental Activities, Field Sports, Tumbling, Basketball, Volleyball (PE 394).....	4

ADDITIONAL COURSES TO MEET
UNIVERSITY STANDARDS

Men:	
Prof. Activities: Track & Field (PE 195)	2
Prof. Activities: Baseball, Basketball, Aquatics (PE 295).....	4
Women:	
Prof. Activities: Track & Field, Softball, Swimming (PE 394).....	2
Prof. Activities: Folk, Square & Ballroom Dance, Tennis (PE 494).....	4

Physics

Adviser: E. G. EBBIGHAUSEN

Physics: physics, 12 term hours; chemistry, 6 term hours. Requirement should be satisfied with the following courses:

Gen. Physics (Ph 201, 202, 203).....	15
Elementary Chem. (Ch 101, 102) <i>or</i> Gen. Chem. (Ch 201, 202).....	8-10

Mod. Physics (Ph 411, 412, 413) <i>or</i> Electricity & Electronics (Ph 431, 432, 433).....	9-12
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Social Science

Advisers: T. B. JOHANNIS, RAMSAY MACMULLEN, R. W. SMITH, J. C. STOVALL,
M. D. WATTLES, E. S. WENGERT

Social Studies: 42 term hours, including 9 term hours in United States history and 9 term hours in history of western civilization or world civilization, and work in each of the following fields: geography, economics, sociology, political science. Requirement should be satisfied with the following courses:

Hist. of U.S. (Hst 201, 202, 203).....	9
Hist. of West. Civ. (Hst 101, 102, 103) <i>or</i> Europe since 1789 (Hst 341, 342, 343)	9
Intro. Geog. (Geog 105, 106) <i>or</i> Econ. Geog. (Geog 201, 202).....	6
American Govts. (PS 201, 202).....	6
Princ. of Econ. (Ec 201, 202).....	6
Princ. of Sociology (Soc 307).....	3
World Pop. & Soc. Structure (Soc 308) <i>or</i> American Society (Soc 309).....	3

Eighteen additional term hours in the social sciences recommended by the student's adviser (upper-division courses preferred).

Spanish

Adviser: D. M. DOUGHERTY

See State Board requirements under *French*. Requirement in Spanish should be satisfied with the following courses:

Second-Year Spanish (RL 107, 108, 109).. Spanish Lit. (RL 207, 208, 209, <i>or</i> RL 341, 342, 343).....	9
Inter. Span. Comp. (RL 347, 348, 349).....	6
Adv. Span. Comp. (RL 461, 462, 463) (two terms).....	4

Adv. Spanish Comp. (RL 461, 462, 463).. 6

For students who have not studied Spanish in high school:

First-Year Spanish (RL 60, 61, 62).....	12
Second-Year Spanish (RL 107, 108, 109).. Inter. Span. Comp. (RL 347, 348, 349)....	6

Speech

Adviser: W. A. DAHLBERG

MINIMUM REQUIREMENTS OF STATE BOARD OF EDUCATION	ADDITIONAL COURSES TO MEET UNIVERSITY STANDARDS
<i>Speech: 9 term hours.</i> Requirement should be satisfied with the following courses:	Additional courses required for a major in public speaking.
Argument, Persuas. & Discussion (Sp 321)	
3	
Argument, Persuas. & Discussion (Sp 322 or Sp 323) or Public Dis- cussion (Sp 221)	
3	
Speech for Classroom Teacher (Sp 411)....	
3	

Graduate Work. The University's program of graduate study in the field of secondary education, leading to master's and doctor's degrees, is planned to suit the needs of both teachers and administrators.

Many students, while meeting the fifth-year requirements for regular secondary teacher certification, find it possible to satisfy, at the same time, the requirements on interdisciplinary master's degree or for a departmental master's degree in a subject field or in education.

UPPER-DIVISION COURSES

Ed 314. Principles of Secondary Teaching. 3 hours.

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

Ed 408. Special Secondary Methods. 1 to 3 hours.

Six hours maximum allowed toward education requirement for certification. Not more than 3 hours credit may be earned in any one field. Prerequisite: Ed 310, Ed 312; for English and social studies, Ed 314.

Ed 416. Student Teaching: Junior and Senior High School. 3-15 hours (15 hours maximum credit).

No-grade course.

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

For description, see page 179.

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

Origin and functions of the junior high school; characteristics and needs of the early adolescent; administration of the junior high school; curriculum and instruction; guidance; school activities; evaluation. Hearn.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

Ed 522. Secondary-School Curriculum. 3 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.

Ed 523. School Activities. 3 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. Hearn.

Ed 527. Secondary-School Administration and Supervision. 3 hours.

The secondary-school principalship; principles of administration, staff relationships, public relations, and professional growth; business administration;

administration of guidance services, curriculum, and school activities; evaluation of the secondary school. Hearn.

Ed 593. **Methods in Secondary-School Language Arts.** 3 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. Kraus.

Ed 594. **Methods in Secondary-School Mathematics.** 3 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.

Ed 595. **Methods in Secondary-School Science.** 3 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. Ten Brinke.

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

Trends in the social-studies curriculum; the unit method of teaching; the core curriculum; social-studies materials and teaching techniques; teaching reflective thinking; teaching current affairs. 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. Williams.

COURSE OFFERED ONLY IN EXTENSION

Ed 453. **Secondary-Education Workshop.** (G) 5 hours.

School Psychological Services

THE SCHOOL PSYCHOLOGICAL SERVICES PROGRAM, administered through the DeBusk Memorial Center, coordinates instruction in corrective and remedial education, special education, educational psychology, school counseling, vocational rehabilitation counseling, and juvenile correction.

The program, in all of its phases, is interdisciplinary in character, involving cooperation of the faculties of the School of Education and of several departments of the College of Liberal Arts. The courses listed below are those for which the School of Education has the principal responsibility; students working in the several fields also take selected courses offered in the College.

The school psychological services program is planned principally for graduate students working toward master's and doctor's degrees; however, many of the courses are also adapted to the needs of students completing the general requirements for teacher certification. The program of the individual student is developed in the light of his background, experience, and professional objectives.

In all fields, supervised practical experience is provided in schools and other agencies concerned with learning and adjustment problems of children and adults. With the cooperation of these agencies, opportunities for such experience have been arranged in a wide variety of settings.

Practicum instruction is organized on two levels. Students who are receiving their first experience in a field and require relatively close supervision are enrolled in Ed 409; advanced students who are able to work more independently are enrolled in Ed 509.

The programs in rehabilitation counseling and in juvenile correction are administered through the Center for Social Service Training and Research. Both programs lead to the master's degree, and normally require two years for completion. For further information see Center for SOCIAL SERVICE TRAINING AND RESEARCH.

The DeBusk Memorial Center is named for its founder and first director, the late Dr. Burchard W. DeBusk.

Corrective and Remedial Education

UPPER-DIVISION COURSES

- Ed 409. **School Psychology Practicum.** (G) Hours to be arranged.
Corrective and Remedial Education—Elementary. Hill
Corrective and Remedial Education—Secondary. Hill.
- Ed 465. **Diagnostic and Corrective Techniques in the Basic Skills.** (G) 3 hours.
Introduction to extreme learning problems; factors associated with retardation in the basic skills; general principles of diagnosis and correction; survey of diagnostic instruments and corrective materials; specific corrective techniques and programs. Concerned with problems at both the elementary and the secondary level. Hill.
- Ed 468. **Diagnostic and Remedial Techniques in Reading.** (G) 3 hours.
Review of research in reading disability; diagnostic instruments and techniques relating to reading; corrective and remedial reading methods, materials, and programs. Concerned with problems at both the elementary and the secondary level. Prerequisite: Ed 465 or consent of instructor. Hill.
- Ed 469. **Reading in High School and College.** (G) 3 hours.
Basic principles of reading instruction; nature and scope of the total reading program; methods, materials, and organization of the developmental and corrective reading programs in high school and college. Hill.
- Ed 480. **Psychology of Reading Instruction.** (G) 3 hours.
Nature of the reading process; factors of learning and development related to reading achievement; psychological foundations of methods and materials of reading instruction. Hill.

GRADUATE COURSES

- Ed 505. **Reading and Conference.** Hours to be arranged.
Intensive study of problems relating to the education of children with difficulties in the mastery of the basic skills, including reading, arithmetic, spelling, etc. Hill.
- Ed 507. **Seminar.** Hours to be arranged.
Corrective and Remedial Education. Hill.
Psychology of Reading. Hill.
- Ed 509. **School Psychology Practicum.** Hours to be arranged.
Corrective and Remedial Education—Elementary. Hill.
Corrective and Remedial Education—Secondary. Hill.

Special Education

UPPER-DIVISION COURSES

- Ed 409. **School Psychology Practicum.** Hours to be arranged.
Exceptional Children—The Mentally Retarded. Mattson.
Exceptional Children—The Gifted. Mattson.
Exceptional Children—The Emotionally Disturbed. Lowe.

Exceptional Children—The Physically Handicapped. Mattson.
 Exceptional Children—The Visually Handicapped. Mattson.
 Exceptional Children—The Hard-of-Hearing. Mattson.

Ed 439. **The Gifted Child.** (G) 3 hours.

The psychology, education, and guidance of the mentally superior and the extraordinarily gifted child. Lovell.

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

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

Ed 463. **The Maladjusted Child.** (G) 3 hours.

The discovery and treatment of the emotionally and socially maladjusted child; the home, school, and community in relation to the child's mental health. Opportunities for the observation of family counseling techniques. Lowe.

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

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

Ed 471. **Administration of Special Education.** (G) 3 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. Mattson.

GRADUATE COURSES

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

Intensive study of problems relating to educating the handicapped. Areas of study are selected in light of the student's interests and professional plans. Mattson.

Ed 507. **Seminar.** Hours to be arranged.

The Mentally Retarded. Mattson.

The Gifted. Lovell.

The Visually Handicapped. Mattson.

The Physically Handicapped and Children with Special Health Problems. Mattson.

The Hard-of-Hearing. Mattson.

The Emotionally and Socially Maladjusted. Lowe.

Arts and Crafts for the Mentally Retarded. Ballinger.

Ed 509. **School Psychology Practicum.** Hours to be arranged.

Exceptional Children—The Mentally Retarded. Mattson.

Exceptional Children—The Gifted. Mattson.

Exceptional Children—The Physically Handicapped. Mattson.

Exceptional Children—The Emotionally Disturbed. Lowe.

Exceptional Children—The Visually Handicapped. Mattson.

Exceptional Children—The Hard-of-Hearing. Mattson.

Educational Psychology

UPPER-DIVISION COURSES

Ed 409. **School Psychology Practicum.** (G) Hours to be arranged.

Psychometry. Lovell, Lowe, Rummel.

School Psychology. Lovell.

Clinical Procedures in Education. Mattson, staff.

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

Use and interpretation of informal and standardized tests as supervisory and guidance instruments for the diagnosis, analysis, evaluation, and improvement of instruction in the elementary and secondary schools. Test planning, item

writing, essay testing, administration and scoring, analysis of scores and grade assignment. Simple statistics of test interpretation. Rummel, Lovell.

GRADUATE COURSES

Ed 509. **School Psychology Practicum.** Hours to be arranged.

Psychometry. Lovell, Lowe, Rummel.

School Psychology. Lovell.

Clinical Procedures in Education. Mattson, staff.

Ed 512. **Research Procedures in Education.** 3 hours.

The nature and procedures of research in education; special techniques of thesis, field study, research paper, and dissertation. Open to graduate students majoring in other fields. Does not take the place of individual supervision of the student's thesis. An introductory course in statistics is desirable preparation. Rummel.

Ed 515, 516, 517. **Educational Statistics.** 3 hours each term.

Technique in quantitative and experimental methods. Calculus not required. Admission after fall term only with consent of instructor. Rummel.

Ed 525. **Theory and Technique of Educational Measurement.** 3 hours.

The theoretical bases and principles of educational measurement; item writing, try-out, selection and revision, reproduction and administration; nature of measurement; units and norms; reliability and validity; batteries and profiles; local and wide-scale testing programs. Designed primarily for advanced students in educational psychology and human development. Prerequisite: Ed 424, Ed 515, or equivalent. Rummel, Lovell.

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

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

Ed 529, 530, 531. **Advanced Educational Psychology.** 2 hours each term.

Review of some modern viewpoints in educational psychology, with particular attention to theories of learning and their application to problems of school learning. Must be completed in sequence; students who have had a course in the psychology of learning may be permitted to enter the winter term. Lovell.

Ed 564. **Mental Tests.** 4 hours.

Selection, administration, and interpretation of individual tests. Problems in testing exceptional and extremely deviate children. Prerequisite: Ed 424, Ed 525. Lovell, Lallas.

School Counseling

UPPER-DIVISION COURSES

Ed 409. **School Psychology Practicum.** Hours to be arranged.

High-School Counseling. Lallas, Lowe, Thompson.

Elementary-School Counseling. Lowe.

Family Counseling. Lowe.

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

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

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

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

GRADUATE COURSES

Ed 509. **School Psychology Practicum.** Hours to be arranged.

High-School Counseling. Lallas, Lowe, Thompson.
Elementary-School Counseling. Lowe.
Family Counseling. Lowe.

Ed 526. **High-School Counseling.** 3 hours.

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

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

Principles and functions of guidance; organizing the guidance program; guidance personnel; evaluation of the school's guidance services. Lowe, Lallas.

Rehabilitation Counseling

UPPER-DIVISION COURSE

Ed 409. **School Psychology Practicum.** (G) Hours to be arranged.

Rehabilitation counseling. Thompson.

GRADUATE COURSES

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

Opportunity for individual study of counseling with the disabled; the blind, deaf, mentally retarded, mentally ill, etc. Thompson.

Ed 507. **Seminar.** Hours to be arranged.

Medical Aspects of Rehabilitation. Schoggen, Thompson.
Basic Concepts in Rehabilitation. Thompson.

Ed 509. **School Psychology Practicum.** Hours to be arranged.

Rehabilitation counseling. Thompson.

Higher Education

THE PROGRAM IN HIGHER EDUCATION, offered at the graduate level, includes the following courses, together with seminars, individual study, and research.

GRADUATE COURSES

Ed 590. **Higher-Education Survey.** 3 hours.

Problems of higher education. Organization, administration, finance; philosophy, purposes, curricula; student and faculty personnel; extension and special services.

Ed 591. **Teacher-Education Survey.** 3 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. Kambly.

Ed 592. **Administration of Colleges and Universities.** 3 hours.

The administration of liberal arts colleges and of complex institutions, such as universities; business affairs; administration of schools and departments.

Educational Administration

THE PROGRAM IN EDUCATIONAL ADMINISTRATION includes preparation for positions of leadership in the administration of unified school systems,

elementary schools, secondary schools, school psychological services, and higher education. The University of Oregon offers all work required for each of the five types of administrative certificates issued by the Oregon State Department of Education and graduate work leading to master's and doctor's degrees.

By act of the Oregon Legislature, all persons employed in the Oregon public schools in administrative or supervisory capacities must hold an appropriate administrative certificate. The requirements for the several certificates are as follows:

Superintendent's Certificate. (1) A regular Oregon teacher's certificate, either elementary or secondary. (2) Five years of school experience at the elementary and secondary levels, with at least two years in an administrative capacity and at least two years in a teaching capacity. (3) A master's degree from a standard college or university. (4) Twelve term hours of credit, beyond the master's degree, in professional or nonprofessional studies at the upper-division or graduate level. (5) the following graduate courses:

	Term Hours
Public School Administration (Ed 572).....	3
School Finance (Ed 575).....	3
School Buildings (Ed 576).....	3
School Supervision (Ed 574); <i>or</i> Elementary-School Supervision & Administration (Ed 554); <i>or</i> Secondary-School Administration & Supervision (Ed 527)	3
Curriculum Construction (Ed 566); <i>or</i> Curriculum Foundations (Ed 565); <i>or</i> Secondary-School Curriculum (Ed 522); <i>or</i> Elementary-School Curriculum (Ed 553)	3
School Law & Organization (Ed 476); <i>or</i> Seminar: Advanced School Law (Ed 507)	2

If an applicant holds only a secondary teacher's certificate, he is required to complete 12 term hours of work in elementary-school methods or curriculum. If he holds an elementary teacher's certificate, he must complete 12 term hours of work in secondary methods or curriculum.

Secondary Principal's Certificate. (1) A regular Oregon secondary teacher's certificate. (2) Three years of teaching or administrative experience at the secondary level. (3) a master's degree from a standard college or university. (4) Twelve term hours of professional or nonprofessional study at the upper-division or graduate level after earning the master's degree. (5) The following graduate courses:

	Term Hours
Secondary-School Administration & Supervision (Ed 527).....	3
School Supervision (Ed 574); <i>or</i> Elementary-School Supervision & Administration (Ed 554)	3
School Finance (Ed 575)	3
Curriculum Construction (Ed 566); <i>or</i> Curriculum Foundations (565); <i>or</i> Secondary-School Curriculum (Ed 522); <i>or</i> Elementary-School Curriculum (Ed 553)	3
School Law & Organization (Ed 476); <i>or</i> Seminar: Advanced School Law (Ed 507)	2

Elementary Principal's Certificate. (1) A regular Oregon elementary teacher's certificate. (2) Three years of teaching or administrative experience at the elementary level. (3) A master's degree from a standard college or university. (4) The following graduate courses:

	Term Hours
Elementary-School Supervision & Administration (Ed 554).....	3
School Supervision (Ed 574); <i>or</i> Secondary-School Supervision & Administration (Ed 527)	3
School Finance (Ed 575)	3
Curriculum Construction (Ed 566); <i>or</i> Curriculum Foundations (Ed 565); <i>or</i> Secondary-School Curriculum (Ed 522); <i>or</i> Elementary-School Curriculum (Ed 553)	3
School Law & Organization (Ed 476); <i>or</i> Seminar: Advanced School Law (Ed 507)	2

Supervisor's Certificate. (1) A regular Oregon teacher's certificate, either elementary or secondary. (2) Three years of teaching experience. (3) A college major or 45 term hours of work in the area supervised. (4) A master's degree from a standard college or university. (5) The following graduate courses:

	Term Hours
School Supervision (Ed 574); <i>or</i> Secondary-School Administration & Supervision (Ed 527); <i>or</i> Elementary-School Supervision & Administration (Ed 554)	3
Curriculum Construction (Ed 566); <i>or</i> Curriculum Foundations (Ed 565); <i>or</i> Secondary-School Curriculum (Ed 522); <i>or</i> Elementary-School Curriculum (Ed 553)	3
School Law & Organization (Ed 476); <i>or</i> Seminar: Advanced School Law (Ed 507)	2

Special-Education Supervisor's and Director's Certificate. (1) A master's degree from a standard college or university. (2) A regular Oregon teacher's certificate, either elementary or secondary. (3) An Oregon certificate for teaching of exceptional children, or the school psychologist's certificate. (4) Three years of professional experience, including one year in special education or public school psychology. (5) The following graduate courses:

	Term Hours
Administration of Special Education (Ed 460).....	3
School Supervision (Ed 574); <i>or</i> Elementary-School Supervision & Administration (Ed 554); <i>or</i> Secondary-School Administration & Supervision (Ed 527)	3
School Law & Administration (Ed 476); <i>or</i> Seminar: Advanced School Law (Ed 507)	2

GRADUATE COURSES

Ed 507. **Seminar.** Hours to be arranged.

Administrative Problems. Jacobson, Goldhammer, Tope.

Advanced School Law. Romney.

Communication in the Public Schools. Hines.

Nature and Problems of Administrative Behavior. Jacobson, staff.

Problems of Staff Personnel. Romney.

Problems of Government Finance. Macy.

Scope and Method of the Social Sciences. Tope, staff.

School Business Administration. Hines.

Ed 572. **Public School Administration.** 3 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. Romney.

Ed 573. **Public School Organization.** 3 hours.

The schools 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. Romney.

Ed 574. **School Supervision.** 3 hours.

The 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. Hines.

Ed 575. **School Finance.** 3 hours.

The problems of school finance and business management; sources of school income; relationship to the state financial structure; budgeting and accounting. Includes the construction of a school budget. Prerequisite: work in administration and organization; or consent of instructor. Romney.

Ed 576. **School Buildings.** 3 hours.

Study of the problems involved in planning, financing, and construction of school buildings; care and maintenance of buildings; problems of equipment. Includes analysis of the problems of a specific district. Prerequisite: work in administration and organization; or consent of instructor. Hines.

See also under *Elementary Education*, Ed 554; under *Secondary Education*, Ed 527; under *School Psychological Services*, Ed 471, Ed 485, Ed 526, Ed 589; under *Higher Education*, Ed 592.

Library Science

THE UNIVERSITY offers, through the School of Education, a series of courses designed for: (1) students preparing for positions as librarians and teacher-librarians in the public schools; (2) teachers and prospective teachers who wish to become better acquainted with books and other library materials suitable for use with children and young people; (3) school administrators who wish to explore from an administrative viewpoint the place of the library in the instructional program of the school; (4) students preparing for intermediate professional positions in public libraries; (5) University students in general, to acquaint them with the resources of the University Library, and to provide instruction in the efficient use of these resources.

To qualify for position as a high-school librarian in Oregon, a student must have from 9 to 21 term hours of work in library training, depending on the size of the school. For required courses, see page 246.

The following courses are recommended as preparation for positions as elementary-school librarians: Lib 386, Lib 482 or Lib 484, Lib 490; Lib 491 is a desirable elective.

The program in preparation for intermediate positions in public libraries is offered at the graduate level, and leads to the M.A. or M.S. degree.

LOWER-DIVISION COURSE

Lib 117. **Use of Library.** 1 hour any term.

Training in the use of the card catalog, periodical indexes, and reference books; experience in the preparation of bibliographies. As far as possible, problems are coordinated with the individual student's study program.

UPPER-DIVISION COURSES

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

Study of reference materials and services, and of correct bibliographical form; practical problems in the use of reference books in school libraries. Ladley.

Lib 382. **Book Selection and Evaluation.** 3 hours.

Designed to provide a general survey of the best books and authors, old and new, in various fields of writing, and to interpret and apply principles and standards for judging them. Consideration given to the best aids in book selection, the development of personal libraries, and book reviewing. Rise.

Lib 386. **Introduction to Cataloging and Classification.** 3 hours.

Instruction and practice in simplified procedures for the acquisition, preparation, and classification and cataloging of books and related library materials. Ladley.

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

Planned for school administrators as well as librarians. Particular emphasis on the place of the library in the instructional program. Problems of support and control; housing and equipment; standards; evaluation; objectives. Ladley.

- Lib 485. **Advanced Bibliography and Reference.** (G) 3 hours.
Continuation of Lib 381, with emphasis on reference books in the various subject fields; practical experience in bibliography making. Prerequisite: Lib 381 or consent of instructor. Findly.
- Lib 487. **Cataloging and Classification.** (G) 3 hours.
Principles and methods of classification and cataloging of books and related materials. Attention to the more difficult problems in the cataloging and recording of material. Prerequisite: Lib 386. Ladley.
- Lib 488. **Books and Related Materials for Young People.** (g) 3 hours.
The selection and evaluation of books and other materials for the junior and senior high-school library; a study of adolescent reading interests and the library's role in reading guidance. Ladley.
- Lib 490. **Children's Literature.** (g) 3 hours.
An introductory course, designed to give elementary-school teachers and librarians an acquaintance with children's books and their use in the curriculum. Ladley.
- Lib 491. **Storytelling.** (G) 3 hours.
Study of literature, both traditional and modern, suitable for oral presentation to children of all ages. Instruction and practice in the techniques of the art of storytelling. Ladley.
- Lib 493. **Literature of the Humanities.** (G) 3 hours.
Survey of library materials in the humanities; criteria for evaluation and selection.
- Lib 494. **Literature of the Sciences.** (G) 3 hours.
Survey and evaluation of library materials in the fields of science and technology; emphasis on the nature and use of scientific literature, problems of scientific documentation, literature searching methods, and the compilation, classification, and reporting of information.
- Lib 495. **Literature of the Social Sciences.** (G) 3 hours.
Survey of library materials in the social sciences; criteria for evaluation and selection.
- Lib 496. **The Library in the Modern Community.** (G) 3 hours.
The history and development of the principal fields of public library service; major trends and problems, with special attention to public library management.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

- Lib 503. **Thesis.** Hours to be arranged.
- Lib 505. **Reading and Conference.** Hours to be arranged.
- Lib 507. **Seminar.** Hours to be arranged.
- Lib 511. **History of the Book.** 3 hours.
History of the written and printed book, beginning with the development of graphic communication in prehistoric times and concluding with a survey of modern publishing.
- Lib 512. **Government Publications.** 3 hours.
The acquisition, organization, and use of government publications of the United States, selected foreign countries, and international organizations, with special attention to United States government documents.

COURSE OFFERED ONLY IN SUMMER SESSIONS

- Lib 508. **Workshop.** Hours to be arranged.

School of Health, Physical Education, and Recreation

ARTHUR A. ESSLINGER, Ph.D., Dean of the School of Health and Physical Education.

Professors: FLORENCE D. ALDEN (emeritus), H. H. CLARKE,* FRANCES DOUGHERTY, A. A. ESSLINGER, F. B. HAAR, L. A. HARRIS, E. R. KNOLLIN (emeritus), F. N. MILLER, MARIAN H. MILLER, JENNELLE MOORHEAD, MARGARET S. POLEY,† P. O. SIGERSETH, V. S. SPRAGUE, HARRIET W. THOMSON (emeritus), P. R. WASHKE, JANET G. WOODRUFF.

Associate Professors: STEPHEN BELKO, R. M. BLEMKER, W. J. BOWERMAN, L. J. CASANOVA, D. H. KIRSCH, JESSIE PUCKETT, W. P. RHODA, L. C. RODNEY.

Assistant Professors: J. W. BORCHARDT, W. B. BRUMBACH, MAX COLEY, HELEN CONNOR, GERALD FREI, E. D. FURRER, C. PEGGY GAZETTE, JUNE HACKETT, E. R. REUTER, J. J. ROCHE.

Instructors: B. S. ECKLUND, P. I. MCHUGH, THERESA MALUMPHY, PATRICIA MONTGOMERY, CORLEE MUNSON, R. O. OFFICER, ARNE OLSON, STEPHEN STRATTON, D. P. VAN ROSSEN, JEAN WEAKLAND, R. C. WILEY.

Assistants: R. B. ANDERSON, RALPH BALLOU, MATS CARLSSON, EDDIE JO CONNELL, WALTER GREENE, NORMA S. GRIFFEN, ALTA HANSEN, JEAN HUTSELL, JOSEPH KALLA, WALTER KOENIG, LINCOLN MCCLELLAN, RICHARD MUNROE, MARGARET RUTZ, RICHARD STREET, NORMAN WATT, HERBERT WEINBERG.

THE SCHOOL OF HEALTH, PHYSICAL EDUCATION, AND RECREATION is responsible for three programs: (1) service courses in health education and physical education for men and women; (2) intramural sports for men and women; (3) professional study, both undergraduate and graduate, in the fields of health education, physical education, and recreation management.

Service Courses. Courses providing instruction in recreational skills and in the principles of physical conditioning and health are offered for all University students.

The University graduation requirements for all students include five terms of physical education and a course in health education, unless the student is excused by the dean of the school.‡ Students may be exempted from one or more terms of the physical-education requirement on the basis of proficiency examinations.

Courses which satisfy the physical-education requirement are: PE 180 for women, PE 190 for men; not more than one hour of credit may be earned in these courses in any one term. The student's program in physical education is adjusted to his needs and abilities; whenever possible, the work is adapted to remedy physical disabilities. Majors and other students preparing for the teaching of physical education in the schools satisfy the requirement with a series of professional activity courses.

Men students satisfy the health-education requirement with HE 150 or HE 250. Women students satisfy the requirement with HE 250.

* On sabbatical leave, spring term, 1959-60.

† On sabbatical leave 1959-60.

‡ Students who have completed six months of active military service in the Armed Forces of the United States are exempt from three terms of the physical-education requirement.

Elective service courses (regularly scheduled classes) in physical activities are offered for juniors and seniors. A total of not more than 12 term hours may be earned toward graduation in lower-division and upper-division service courses in physical education. Not more than one hour of credit may be earned in any one term.

Intramural Sports. The School of Health, Physical Education, and Recreation sponsors a comprehensive program of intramural sports. A primary purpose of the program is to encourage sportsmanship and friendly relations among the students of the University through athletic competition. Individual and group competitive sports for men are organized under the guidance of the department for men. The department for women provides a wide variety of sports for women students. Student leadership for women's athletics is furnished by the Women's Recreational Association.

Undergraduate Study. Undergraduate major programs are offered in the fields of health education, physical education, and recreation management. Graduates of the school hold positions as: athletic coaches; high-school teachers of physical education and health education; directors of high-school athletics; supervisors of health and physical education; community recreation and playground directors; leaders in Y.M.C.A., Y.W.C.A., 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, and physical education.

Honors Program. Students in the School of Health, Physical Education, and Recreation may participate in the honors program described on page 67. Work in regular courses is supplemented by independent study supervised by a member of the faculty.

Graduate Study. The School of Health, Physical Education, and Recreation offers graduate work leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees.

Candidates for the master's degree may major in one of the following seven areas or in a combination of related areas. (1) administration of programs, buildings, and grounds; (2) school health education; (3) corrective activities and physical therapy; (4) recreation management; (5) anatomy, kinesiology, and physiological training and conditioning factors; (6) morphological, physiological, and motor aspects of child growth; (7) measurement and evaluation in physical education.

Ph.D. candidates are expected to concentrate in one of the following fields of specialization: (1) administration; (2) health education; (3) child growth and development; or (4) corrective physical education. The Ph.D. dissertation must be an original contribution to knowledge.

By arrangement with the School of Education, candidates for the degree of Doctor of Education may select physical education as a major field; the major program is directed by the School of Health, Physical Education, and Recreation.

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 the professional training 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.

Adjoining the Physical Education Building to the south is McArthur Court, the basketball pavilion and athletic center of the Associated Students. McArthur Court seats over 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, the Associated Students' athletic field, has seats for 23,000 spectators. North of Hayward Stadium are six standard concrete tennis courts. Eight additional courts are located south of the Education Building.

Physical Education

THE BASIC UNDERGRADUATE CURRICULUM in physical education, leading to the Bachelor of Science or Bachelor of Physical Education degree, provides a strong program of professional work. During his freshman and sophomore years, the student obtains a sound foundation in the liberal arts and in the sciences basic to professional studies, supplemented by introductory instruction in physical-education theory and activities. The upper-division program is devoted principally to professional studies.

The basic program is planned to satisfy the usual needs of the student planning to teach physical education in the public schools; it includes sufficient work in health education to enable him to qualify for positions which require the teaching of both physical education and health education. Modifications of this program may be arranged for students with special interests in such fields as the dance and physical therapy.

Lower Division	Term Hours
General Biology (Bi 101, 102, 103).....	12
*Elementary Chemistry (Ch 101, 102, 103).....	12
Principles of Dietetics (HEc 225).....	2
General Psychology (Psy 201, 202).....	6
Psych. of Adjustment, (Psy 204) or Applied Psych. (Psy 205).....	3
Introduction to Health & Physical Education (PE 131).....	2
First Aid (HE 252) (women).....	3
Professional activities	2
Upper Division	
Human Anatomy (Bi 371, 372).....	6
Human Physiology (Bi 312, 313).....	6
Princ. & Practices of Physical Education (PE 341).....	3
Class Techniques in Physical Education (PE 342).....	3
Organ. & Adm'n. of Physical Education (PE 343).....	3
Tests & Measurements in Physical Educ. (PE 446).....	3
Care & Prevention of Injuries (PE 361) (men).....	3
School Program (PE 445).....	3
Corrective Physical Education (PE 444).....	3
Kinesiology (PE 472), Physiology of Exercise (PE 473).....	6
Personal Health Problems (HE 361), Community Health Problems (HE 362), Communicable & Noncommunicable Diseases (HE 363).....	9
Health Instruction (HE 464), School Health Service (HE 465).....	6
Professional activities	12

Dance Option. Increasing emphasis is being placed on dance in the total program of physical education. Excellent vocational opportunities exist in the fields of

* This requirement may be modified for students having a strong background in high-school chemistry.

physical education and recreation for persons whose professional preparation stresses dance and the relating arts and sciences. The dance option combines professional work in physical education with special instructions in dance and related arts. The requirements are as follows:

Lower Division	Term Hours
General Biology (Bi 101, 102, 103).....	12
Elementary Chemistry (Ch 101, 102, 103).....	12
General Psychology (Psy 201, 202).....	6
Psych. of Adjustment (Psy 204) or Applied Psych. (Psy 205).....	3
Introduction to Health & Physical Education (PE 131).....	2
Introduction to the Dance (PE 251).....	2
Fundamentals of Rhythm (PE 252).....	2
Rhythms for the Elementary School (PE 222).....	2
Physical-education & dance activities.....	12
Upper Division	
Human Anatomy (Bi 371, 372).....	6
Human Physiology (Bi 312, 313).....	6
Professional physical-education courses (PE 341, 342, 343, 444, 445, 446).....	18
Kinesiology (PE 472), Physiology of Exercise (PE 473).....	6
Elementary Dance Composition (PE 351).....	3
School Dance Program (PE 451).....	3
Physical-education & dance activities.....	14
Two sequences in one or two of the following fields: art, philosophy, music, theater.....	18

A student may major in the dance by arrangement with the dance division. The major program includes a more comprehensive study in dance, movement, rhythmic analysis, art, music, drama, and philosophy.

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, provide 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 requirements for a teacher's certificate.

Service Courses for Men

LOWER-DIVISION COURSES

PE 190. **Physical Education (Men).** 1 hour each term, six terms.

A variety of activities taught for physiological and recreational values. Special sections for restricted and corrective work. A total of five term required for all lower-division men students. 3 hours a week.

UPPER-DIVISION COURSES

PE 390. **Physical Education for Junior and Senior Men.** 1 hour each term, six terms.

3 hours a week.

Service Courses for Women

LOWER-DIVISION COURSES

PE 180. **Physical Education (Women).** 1 hour each term, six terms.

A variety of activities taught for physiological and recreational values. Special sections for restricted and corrective work. A total of five terms required for all lower-division women students. 3 hours a week.

UPPER-DIVISION COURSES

- PE 380. **Physical Education for Junior and Senior Women.** 1 hour each term, six terms.
3 hours a week.

Professional Courses

LOWER-DIVISION COURSES

- PE 131. **Introduction to Health and Physical Education.** 2 hours fall.
Professional orientation; basic philosophy and objectives; professional opportunities and qualifications. Puckett, Wiley.
- PE 194. **Professional Activities (Women).** 1-2 hours each term, three terms.
For professional students. Instruction and practice. Fall: field sports, fundamentals. Winter: tumbling, basketball. Spring: elementary contemporary dance, tennis.
- PE 195. **Professional Activities (Men).** 2 hours each term, three terms.
For professional students. Methods, teaching techniques, and basic skills. Fall: fundamentals of body movement, games. Winter: elementary apparatus, tumbling. Spring: track and field.
- PE 221. **Games for the Elementary School.** 2 hours.
Creative games, games of low organization, fundamental sport skills. Munson.
- PE 222. **Rhythms for the Elementary School.** 2 hours.
The dance program for children in the elementary school, grades one through six. Locomotor and nonlocomotor movement; dramatization and creative dance studies; singing games; traditional dance skills and folk dances for children of the intermediate grades.
- PE 223. **Fundamental Body Movement, Posture, and Tumbling.** 2 hours.
The mechanics of movement, posture, conditioning exercises, stunts, tumbling, self-testing, apparatus, and evaluation for the elementary-school child. Munson.
- PE 251. **Introduction to the Dance.** 2 hours fall.
Overview of the dance. Introduction to dance history and to the significance of the dance as an art form.
- PE 252. **Fundamentals of Rhythm.** 2 hours winter.
Rhythm as a basic factor for movement. Rhythmic devices used in the dance.
- PE 254, 255, 256. **Dance and Physical-Education Laboratories.** 2 hours each term.
Instruction and practice. Fall: contemporary dance; winter: folk and square dancing; spring: contemporary dance, swimming.
- PE 294. **Professional Activities (Women).** 1-2 hours each term, three terms.
For professional students. Instruction and practice. Fall: intermediate contemporary dance, sports. Winter: folk dance, social dance, square dance. Spring: bowling and small-court games, swimming, or intermediate-advanced contemporary dance.
- PE 295. **Professional Activities (Men).** 2 hours each term, three terms.
For professional students. Methods, teaching techniques, and basic skills. Fall: baseball, basketball. Winter: folk, social dance, square dance. Spring: aquatics.

UPPER-DIVISION COURSES

- PE 341. **Principles and Practices of Physical Education.** 3 hours fall.
An interpretative study and analysis of the principles and practices of physical education, through their historical development and in their present application and significance. Sprague.

- PE 342. **Class Techniques in Physical Education.** 3 hours winter.
Organizing and conducting physical-education classes in secondary schools. Sprague, Puckett.
- PE 343. **Organization and Administration of Physical Education.** 3 hours spring.
Planning and organizing the use of buildings, grounds, and recreational areas for the physical-education program; purchase and care of equipment; budgeting equipment and operating costs. Sprague.
- PE 351. **Elementary Dance Composition.** 3 hours fall.
Analysis of the dance medium, and of the aspects of time, force, and space in relation to movement. Principles of form basic to dance composition. Prerequisite: PE 251, PE 252.
- PE 352. **Advance Dance Composition.** 3 hours winter.
Analysis of dance content and its relationship to form and style. Modern dance forms. Prerequisite: PE 351.
- PE 353. **Dance Accompaniment.** 3 hours spring.
Function of accompaniment for dance skills and composition. Types of accompaniment—music, percussion, speech. Prerequisite: PE 351.
- PE 354, 355, 356. **Dance and Physical-Education Laboratories.** 2 hours each term.
Advanced instruction and practice. Fall and winter: dance composition. Spring: ballroom dancing, swimming.
- PE 361. **Care and Prevention of Injuries.** 3 hours winter.
First aid. Bandaging, massage, and other specialized mechanical aids for the prevention of injuries. Analysis of types of injuries; emergency procedures. Prerequisite: Bi 371, 372. Rhoda, Sigerseth.
- PE 394. **Professional Activities (Women).** 1-2 hours each term, three terms.
For professional students. Advanced practice and teaching technique. Fall: fundamental activities, field sports, or dance composition. Winter: tumbling, basketball and volleyball, or dance composition. Spring: track and field, softball, swimming.
- PE 395. **Professional Activities (Men).** 2 hours each term, three terms.
For professional students. Methods, teaching techniques, and basic skills. Fall: tennis, badminton. Winter: wrestling, boxing. Spring: soccer, volleyball, football.
- PE 403. **Thesis.** Hours to be arranged.
Thesis based on student's own investigation. Subject chosen after consultation with adviser. Credit determined by quality of work done.
- PE 405. **Reading and Conference.** Hours to be arranged.
Reading and assignments in connection with other courses for extra credit. Honors reading. Prerequisite: consent of instructor.
- PE 406. **Special Problems.** Hour to be arranged.
- PE 420. **Methods in Elementary-School Physical Education.** 3 hours.
Program development; methods of instruction in elementary-school physical education. The purposes and requirements of the elementary physical-education program, with emphasis on program planning, methods, and materials of instruction. Munson.
- PE 421. **Administration of Elementary-School Physical Education.** (g) 3 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 221, 222, 223, PE 420, or consent of instructor. Conner.

- PE 444. **Corrective Physical Education.** 3 hours spring.
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 371, 372; PE 472. Poley.
- PE 445. **The School Program.** 3 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 446. **Tests and Measurements in Physical Education.** (G) 3 hours.
Use of tests and measurements in physical education; evaluation of objectives, programs, and student achievement through measurement techniques. Clarke.
- PE 451. **School Dance Program.** 3 hours fall.
Dance in education. Construction of dance programs as a part of the total physical-education program for the elementary and secondary schools. Festivals and dance concerts. Prerequisite: PE 351.
- PE 452. **History of the Dance to 1900.** 3 hours winter.
Historical survey of the dance and its relationship to other arts prior to 1900.
- PE 453. **History of the Dance since 1900.** 3 hours spring.
Development of the dance, with primary attention to the United States. Influences of leading dance artists. Dance as a part of the education program.
- PE 454, 455, 456. **Dance and Physical-Education Laboratories.** 2 hours each term.
Advanced instruction and practice. Fall: technique of teaching contemporary dance. Winter: dance workshop. Spring: dance workshop, tennis.
- PE 465. **Football Coaching.** 3 hours winter.
Systems of play, strategy, responsibilities of the coach, public relations, conference organization. Casanova.
- PE 466. **Basketball Coaching.** 2 hours winter.
Coaching methods and problems. Fundamentals of team play; comparison of systems; strategy; training, conditioning; selection of men for positions. Belko.
- PE 467. **Baseball Coaching.** 2 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. Kirsch.
- PE 468. **Track Coaching.** 2 hours spring.
Principles of training; development of performance for each track event. Selection of men for different events; conducting meets. Bowerman.
- PE 472. **Kinesiology.** 3 hours spring.
Action of muscles involved in fundamental movements, calisthenics, gymnastics, and athletics. Prerequisite: Bi 371, 372. Sigerseth.
- PE 473. **Physiology of Exercise.** 3 hours spring.
Physiological effects of muscular exercise, physical conditioning, and training. Significance of these effects for health and for performance in activity programs. Prerequisite: PE 472. Sigerseth.
- PE 494. **Professional Activities (Women).** 1-2 hours each term, three terms.
For professional students. Advanced practice and teaching techniques. Fall: contemporary dance. Winter: ballroom dance, badminton. Spring: archery, tennis.
- PE 495. **Professional Activities (Men).** 2 hours each term, three terms.
For professional students. Methods, teaching techniques, and basic skills. Fall:

advanced aquatics. Winter: advanced gymnastics, folk, square and ballroom dance. Spring: golf, archery.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

- PE 501. **Research.** Hours to be arranged.
- PE 503. **Thesis.** Hours to be arranged .
- PE 505. **Reading and Conference.** Hours to be arranged.
- PE 506. **Special Problems.** Hours to be arranged.
Study of selected problems in the field of physical education.
- PE 507. **Seminar.** Hours to be arranged.
Seminars dealing with special aspects of physical education are conducted. Open to qualified graduate students and required of all candidates for advanced degrees.
Anatomical and Physiological Bases of Physical Education.
Body Growth and Development through Physical Education.
Physiology of Exercise.
Physical Conditioning, Correctives, Reconditioning.
Body Mechanics and Body Movement.
Administration of Physical Education.
- PE 508. **Workshop.** Hours to be arranged.
- PE 515. **History and Theories of Physical Education.** 3 hours fall.
The history of physical education from the Greeks to modern times. Special emphasis on modern development. Washke.
- PE 516. **Intramural Organization and Management.** 3 hours.
Nature and purposes of intramural programs; history of their development. Departmental organization. Relationship of the program to physical-education instruction. Administrative problems. Washke.
- PE 517. **Methods of Research.** 3 hours.
Study of the methods and techniques of research in health, physical education, and recreation; practice in application to problems of current interest. Clarke.
- PE 521. **Basic Procedures in Corrective Physical Education.** 3 hours.
Common postural deviations; causes; basic principles underlying the prescription of exercise for those conditions which may be handled safely by the physical-education teacher; methods of referral when advisable. Prerequisite: Bi 371, 372; PE 472. Poley.
- PE 522. **Advanced Corrective Procedures.** 3 hours.
Survey of the orthopaedic conditions which fall in the province of the corrective physical-education specialist; recommended therapeutic procedures; the orthopaedic examination; organization of the corrective physical-education program in schools and colleges. Prerequisite: PE 521 or consent of instructor. Poley.
- PE 523. **Physical Education of the Handicapped.** 3 hours.
The major crippling conditions, such as cerebral palsy and poliomyelitis, and functional disturbances, such as cardiac and respiratory conditions; planning the physical-education program for these conditions. Poley.
- PE 524, 525, 526. **Corrective Laboratory.** 1 hour each term.
Practical experience in handling corrective cases; to be taken in conjunction with PE 521, 522, 523. Poley.
- PE 530. **Developmental Program in Physical Education.** 3 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. Clarke.

- PE 531. **Muscle Testing and Therapeutic Exercise.** 3 hours.
Fundamentals of muscle re-education. Methods of determining specific muscle weaknesses; restoration of normal function following injury. Poley.
- PE 532. **Heat Therapy and Massage.** 3 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. Poley.
- PE 533. **Techniques of Relaxation.** 3 hours.
The common cause of fatigue and neuromuscular hypertension; methods of combating them. Theories underlying techniques of relaxation; application of those techniques in daily living and in activities. Poley.
- PE 540, 541. **Statistical Methods in Physical Education.** 3 hours each term.
The use of norms, comparable scores, rating scales, multiple regression, curve fitting, and factor analysis as tools of research and interpretation of physical growth, physical status, and physical performance data. Prerequisite: elementary statistics. Clarke.
- PE 542. **Experimental Design in Physical-Education Research.** 4 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. Clarke.
- PE 550. **Current Movements in Physical Education.** 3 hours.
The different schools of thought and practice which determine the purposes and procedures in the professional field of physical education. Analysis of the Oregon and other regional public school programs. Washke.
- PE 551. **Administration of Physical Education.** 3 hours winter.
Organization and administration of the physical-education program at the college level. Esslinger, Rhoda.
- PE 552. **Administration of Athletics.** 3 hours.
Historical development of athletics and their control. Place of athletics in education; purposes, administrative control, management, operational policies, care of equipment and facilities. Sprague.
- PE 553. **Psychology of Motor Skills.** 4 hours.
- PE 556. **Administration of Buildings and Facilities.** 3 hours winter.
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 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 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 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. **Foundations of Physical Growth.** 3 hours fall.
Concept of growth, objectives in studying growth, procedures in collection and analysis of growth data. Physical growth from the beginning of prenatal life to the close of infancy. Prerequisite: Bi 371, 372, PE 472, Ed 515. Poley.

PE 562. Changes in Body Size and Form During Childhood and Adolescence. 3 hours.

Growth in external dimensions and proportions from late infancy to early adulthood. Differences associated with sex, puberty, socio-economic status, race, secular periods, health regimen. Prerequisite: PE 561. Poley.

PE 563. Growth of Body Tissues and Organs. 3 hours.

Study of materials important to teachers and others concerned with child growth. Ossification of the child's skeleton, calcification and eruption of teeth, morphologic development of heart and voluntary musculature, age changes in subcutaneous adipose tissue. Prerequisite: PE 561. Poley.

PE 564. Morphologic and Physiologic Appraisalment of School Children. 3 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. Sigerseth.

PE 566. Research Methodology for Child Growth. 3 hours.

Anthropometric instruments, landmarks, and methods; reliability of measurements and ratings; application of biometric procedures to cross-sectional and longitudinal data. Prerequisite: PE 561 or consent of instructor.

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

Study of the acquisition of motor skills during the first decade of life. Prerequisite: PE 446 or Psy 460, or consent of instructor. Poley.

PE 572. Gross Anatomy Basic to Physical Performance. 3 hours.

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

PE 573. Advanced Kinesiology. 3 hours.

Analysis of complex movements, specialized skills, and motor coordination in terms of the mechanics of skeletal and muscular movement. Sigerseth.

PE 574. Physiological Principles of Advanced Conditioning. 3 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 their major sports and individual activities. Prerequisite: Bi 312, 313; PE 473. Sigerseth.

PE 575. Mechanical Analysis of Motor Skills. 3 hours.

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

COURSES OFFERED ONLY IN EXTENSION AND SUMMER SESSIONS

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

Health Education

A SPECIAL PROGRAM OF UNDERGRADUATE STUDY is offered for students who wish to specialize in health education. A few Oregon public school systems and many schools in other states organize their health instruction as the responsibility of one specially trained teacher. Excellent vocational opportunities are available in such schools and with public and voluntary health agencies for persons with professional training in health education. The curriculum meets the requirements for the Bachelor of Science degree and provides a strong basis for graduate work in health education, public health, physical therapy, and the health sciences. The requirements are as follows:

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Lower Division	Term Hours
General Biology (Bi 101, 102, 103).....	12
Elementary Chemistry (Ch 101, 102, 103).....	12
General Psych. (Psy 201, 202), Psych. of Adjustment (Psy 204).....	4
General Sociology (Soc 204, 205, 206).....	9
Principles of Dietetics (HEc 225).....	2
First Aid (HE 252).....	3
Upper Division	
Intro. to Bacteriology (Bi 311), Human Physiology (Bi 312, 313).....	9
Human Anatomy (Bi 371, 372).....	6
Safety Education (HE 358).....	3
Personal Health Problem (HE 361).....	3
Community Health Problems (HE 362).....	3
Communicable & Noncommunicable Diseases (HE 363).....	3
Introduction to Public Health (HE 364, 365, 366).....	9
Social Hygiene (HE 463).....	3
Health Instruction (HE 464).....	3
School Health Service (HE 465).....	3
Organ. & Evaluation of School Health Education (HE 466).....	3
Corrective Physical Education (PE 444).....	3
Kinesiology (PE 472), Physiology of Exercise (PE 473).....	6

Dental-Hygiene Option. Students who complete the two-year curriculum in dental hygiene, offered by the University of Oregon Dental School in Portland, may satisfy the requirement for a B.S. degree, with a major in health education, on the satisfactory completion of two additional years of work on the Eugene campus of the University. Under an alternative plan, dental-hygiene students may begin their University work with one year of study on the Eugene campus, transfer to the Dental School for two years, and return to the Eugene campus in their senior year to complete general University requirements for a bachelor's degree and requirements for a major in health education.

Service Courses

LOWER-DIVISION COURSES

- HE 150. Health Education.** 1 hour 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. Haar, Evonuk, Brumbach.
- HE 250. Personal Health.** 3 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 and women. Haar, Evonuk, Hackett, Puckett.
- HE 251. Community Health.** 3 hours winter.
Study of 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. Haar.
- HE 252. First Aid.** 3 hours winter or spring.
Study of first aid and safety procedures—for the individual, schools, athletics, and civilian defense; meets certification standards of the American Red Cross. Hackett, Washke.

Professional Courses

UPPER-DIVISION COURSES

- HE 358. Safety Education.** 3 hours spring.
Basic principles of safety education; current safety programs as they apply to

the school, home, and community. Individual and group projects in the organization of materials for teaching safety education in public schools. Washke.

HE 361. Personal Health Problems. 3 hours fall.

For health teachers in the public schools. Hygienic care of the body and other personal health problems important in health instruction. Prerequisite: junior standing in health or physical education, or consent of instructor. Furrer.

HE 362. Community Health Problems. 3 hours winter.

Basic community health problems important in public school health instruction. Designed primarily for teachers and community leaders. Prerequisite: junior standing or consent of instructor. Furrer.

HE 363. Communicable and Noncommunicable Diseases. 3 hours spring.

Nature, prevention, and control of common communicable diseases, considered in relation to health instruction in the public schools. Prerequisite: junior standing in science or health and physical education. Furrer.

HE 364, 365, 366. Introduction to Public Health. 3 hours each term.

Functions and organization of public health; vital statistics; consumer health problems; health education in the Oregon public schools, with special emphasis on health teaching in the junior and senior high schools. Admission after fall term only with consent of instructor. Prerequisite: junior standing in science or health and physical education. Haar.

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

HE 407. Seminar. Hours to be arranged.

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

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

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

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

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

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

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

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

HE 466. Organization and Evaluation of School Health Education. (G) 3 hours.

Organization and development of the public-school health program. Appraisal and evaluation of the program in terms of objectives and standards, with special emphasis on health education in Oregon junior and senior high schools. Prerequisite: HE 361, 362, 363, HE 464, 465; or consent of instructor. Haar.

HE 467. Driver Education and Training. 3 hours.

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

HEALTH, PHYSICAL EDUCATION, RECREATION 271

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

- HE 501. **Research.** Hours to be arranged.
- HE 503. **Thesis.** Hours to be arranged.
- HE 505. **Reading and Conference.** Hours to be arranged.
- HE 506. **Special Problems.** Hours to be arranged.
Study of selected problems in the field of health education.
- HE 507. **Seminar.** Hours to be arranged.
Seminars dealing with special aspects of health education are conducted each term. Open to qualified graduate students.
- HE 508. **Workshop.** Hours to be arranged.
- HE 542. **Basic Issues in Health Education.** 3 hours.
Current basic issues and problems in school health education; economic and social forces affecting health education; implications for programs. Haar.
- HE 543. **Advanced Health Instruction.** 3 hours spring.
Organization of the public-school health-instruction program; for health teachers, supervisors, and coordinators. Basic steps in the development of the program. Prerequisite: HE 464 or consent of instructor. Haar, Hackett.
- HE 552. **Administration of School Health Education.** 3 hours winter.
Organization and administration of the school health program. Haar.
- COURSES OFFERED ONLY IN EXTENSION AND SUMMER SESSIONS
- HE 411, 412, 413. **Health-Education Workshop.** (g) 9 hours total credit.

Recreation Management

AN UNDERGRADUATE MAJOR PROGRAM, leading to the Bachelor of Science degree, is offered for students interested in careers in leadership, supervision, and management of recreation and youth-serving agencies. Men and women with training in this field become directors of recreation in cities, counties, and park districts, directors of community youth centers, directors or leaders in youth-serving agencies, directors of state and Federal recreation and park programs, administrators of industrial recreation, camp directors and counselors, supervisors of recreation for the handicapped in hospitals, recreation directors in the armed services, and youth leaders in the churches. The general requirements of the program are as follows:

Lower Division	Term	Hours
General Sociology (Soc 204, 205, 206).....	9	9
General Psychology (Psy 201, 202), Psych. of Adjustment (Psy 204).....	9	9
Introduction to Recreation Education (Rec 131).....	2	2
First Aid (HE 252).....	3	3
Personal Health (HE 250).....	3	3
Arts & Crafts for Elementary Teachers (ArE 311, 312).....	6	6
Music for Recreation (Mus 338).....	3	3
Fundamentals of Speech (Sp 111).....	3	3
Camp Leadership (Rec 396).....	3	3
Professional activities	6-12	6-12
Upper Division		
History & Theory of Recreation (Rec 391).....	3	3
Organization & Administration of Recreation (Rec 392).....	3	3
Organization & Administration of Camping (Rec 393).....	3	3
Community Health Problems (HE 361).....	3	3
Special Studies: Recreational Arts & Crafts (ArE 401).....	3-6	3-6
Princ. & Practices of Physical Educ. (PE 341).....	3	3
Class Techniques in Physical Education (PE 342).....	3	3
Safety Education (HE 358).....	3	3
Sports in American Life (Rec 350).....	3	3

Youth Agencies (Rec 394).....	3
Methods & Materials in Social Recreation (Rec 395).....	2
Recreational Facilities (Rec 497).....	3
Leadership Training & Development (Rec 494).....	3
Public Relations in Recreation (Rec 498).....	3
Recreation Programs (Rec 499).....	3
Recreation Field Work (Rec 415).....	9
Community Structure & Organization (Soc 431, 432).....	6
Professional activities	6-12

Within the framework of the major in recreation management, students may arrange options in several fields of specialization: (1) youth agencies; (2) special activities (sports, arts and crafts, dance, music, drama, camping and outdoor education); (3) hospital recreation; (4) park management; (5) industrial recreation.

LOWER-DIVISION COURSES

Rec 131. **Introduction to Recreation Education.** 2 hours.

Professional orientation; basic objectives; vocational opportunities; significance of recreation education in modern life. Bowerman.

UPPER-DIVISION COURSES

Rec 350. **Sports in American Life.** 3 hours fall.

The role of sports in American culture; significance of sports in human experience and in the structure of community living; historical analysis. Bowerman.

Rec 391. **History and Theory of Recreation.** 3 hours fall.

Development of the recreation movement; its cultural, social, and economic background and significance. Rodney.

Rec 392. **Organization and Administration of Recreation.** 3 hours winter.

Administration of public recreation; legal provisions, organization, personnel, finance, records and reports; recreation surveys; legal liability for injury. Rodney.

Rec 393. **Organization and Administration of Camping.** 3 hours spring.

Selected organizational and administrative aspects of organized camping, including camp committees, personnel, budgets, camp sites, publicity, recruitments, insurance, nutrition, health and safety, and policies. Rodney.

Rec 394. **Youth Agencies.** 3 hours winter.

Survey of youth-serving recreation agencies; school and community club organization, activities, programs, and membership; significance of club work in youth-agency and recreation planning. Rodney.

Rec 395. **Methods and Materials in Social Recreation.** 2 hours spring.

Methods of developing effective group leadership in social-recreation activities.

Rec 396. **Camp Leadership.** 3 hours spring.

Preparation of men and women for positions in camp counseling; practical as well as theoretical aspects of group and individual leadership and guidance in a camp situation; development and application of outdoor skills.

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

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

Rec 415. **Recreation Field Work.** 1-6 hours any term (9 hours maximum credit).

Supervised field work in recreation centers, playgrounds, camps, churches, and other social agencies. Rodney.

Rec 494. **Leadership Training and Development.** 3 hours.

Techniques of group leadership; interpretation of leadership; analysis of problems at various organization levels; examination of methods. Rodney.

- Rec 497. **Recreational Facilities.** 3 hours fall.
Acquisition, development, construction, and maintenance of recreational areas, facilities, and buildings. Rodney.
- Rec 498. **Public Relations in Recreation.** 3 hours winter.
Study of the relationship between recreational agencies and the communities they serve; policies and techniques fundamental to sound interpretation and public-relation programs for recreational agencies. Rodney.
- Rec 499. **Recreation Programs.** 3 hours spring.
Types of recreational activities considered in relation to sex, age, and individual interest, needs, and capacities; leadership procedures. Rodney.

GRADUATE COURSES

- Rec 501. **Research.** Hours to be arranged.
- Rec 503. **Thesis.** Hours to be arranged.
- Rec 505. **Reading and Conference.** Hours to be arranged.
- Rec 506. **Special Problems.** Hours to be arranged.
- Rec 507. **Seminar.** Hour to be arranged.
- Rec 508. **Workshop.** Hours to be arranged.
- Rec 552. **Principles and Problems of Recreation Supervision.** 3 hours.
The purpose of supervision; principles and techniques of supervision in a modern program of recreation; staff relationships; departmental organization; policies, regulations, problems. Prerequisite: Rec 392, Rec 499; or consent of instructor. Rodney.
- Rec 553. **Administration of Recreation.** 3 hours winter.
Organization and administration of recreation programs in recreational districts, communities, and municipalities; legal aspects, source of funds, types of programs. Rodney.
- Rec 554. **Problems of Camp Management.** 3 hours.
Analysis of problems under various types of camp sponsorship; principles, techniques, resources, administrative practices; principles and problems of leadership and group behavior. Prerequisite: Rec 392, Rec 396; or consent of instructor. Rodney.

School of Journalism

CHARLES T. DUNCAN, M.A., Dean of the School of Journalism.

Professors: C. T. DUNCAN, W. C. PRICE, W. F. G. THACHER (emeritus), G. S. TURNBULL (emeritus).

Associate Professors: R. C. HALL (emeritus), J. L. HULTENG, W. L. THOMPSON, R. M. WALES.

Assistant Professors: B. L. FREEMESSER, R. P. NELSON, C. C. WEBB.

Instructor: R. R. MONAGHAN.

Assistants: R. F. ABELL, B. E. DUCEY, S. P. LAMOREUX, K. J. NESTVOLD, J. H. SEASE.

A DEPARTMENT OF JOURNALISM was organized at the University of Oregon in 1912, and was raised to the rank of a professional school in 1916. The school is fully accredited by the American Council on Education in Journalism in the news-editorial and advertising-newspaper management fields.

The curriculum in journalism is designed to give the student (1) a broad and liberal education, (2) an understanding of the significance of the media of mass communications as social institutions, and (3) technical training in the several phases of news and advertising for printed and broadcast media. In addition to the professional program, service courses are offered for majors in other fields.

Admission. The major program in journalism is organized on an upper-division and graduate basis. Two years of work in liberal arts and satisfaction of University lower-division requirements are required for formal admission. During his freshman and sophomore years, a student planning to specialize in journalism pursues a preprofessional program which will insure a sound educational basis for professional study at the upper-division level.

Introduction to Journalism (J 211, 212, 213) is required of all prejournalism students. The following basic courses are open to sophomores: Mechanics of Publishing (J 321); Reporting (J 361); Principles of Advertising (J 341).

Prejournalism students are advised: (1) to complete as many as possible of the courses in liberal arts which are required and recommended by the school; (2) to gain proficiency in the use of the typewriter; and (3) to participate in extracurricular journalistic activities.

A grade-point average of 2.25 is required for admission to upper-division major work in journalism.

Requirements for Bachelor's Degree. In its requirements for an undergraduate major, the School of Journalism places strong emphasis on courses which will provide a broad liberal education. The requirements in liberal arts are as follows:

Lower Division—(1) English or American literature, 18 term hours, or 9 hours of literature and a year of a foreign language; (2) history, 9 term hours; (3) economics and political science, 9 term hours in each of these fields, or 9 hours in one of these fields plus 9 hours in anthropology, geography, philosophy, psychology, or sociology.

Upper Division—Three terms (9 term hours) of related upper-division courses in each of two of the following fields: anthropology, economics, geography,

history, literature, philosophy, political science, psychology, sociology, science (advertising students may offer, in place of work in one of these fields, acceptable upper-division courses in business administration).

The minimum major requirement in professional journalism courses is 39 term hours; the maximum allowed within the first 186 term hours of an undergraduate program is 46 term hours. The professional course requirements include a group of basic courses, required of all majors, and a group of advanced courses in one of four special fields, chosen by the student in accordance with his main professional interest. The four special fields are news-editorial, advertising, newspaper management, and radio-television journalism. The course requirements are as follows:

(1) Basic courses: Introduction to Journalism (J 211, 212, 213); Journalism and Contemporary Affairs (J 495, 496).

(2) Additional courses in one of the following areas of emphasis:

(a) *Advertising*: Principles of Advertising (J 341); Advertising Copy and Layout (J 446, 447); and at least 9 additional term hours in advertising courses.

(b) *News-Editorial*: Reporting (J 361); Copy Editing (J 371, 372); Reporting of Public Affairs (J 462, 463); History of Journalism (J 487).

(c) *Newspaper Management*: Mechanics of Publishing (J 321); Principles of Advertising (J 341); Reporting (J 361); Copy Editing (J 371); Community Newspaper (J 421, 422).

(d) *Radio-Television Journalism*: Radio-Television News (J 431, 432); at least 12 additional term hours in broadcasting courses (in journalism and speech).

To be recommended for the bachelor's degree with a major in journalism, the student must have earned a minimum cumulative GPA of 2.25.

Graduate Study. The School of Journalism offers work leading to the Master of Arts or Master of Science degree. The program is designed for candidates with considerable journalistic experience and for those with little experience, under the following plans:

Plan A. Thesis required. Designed for students with an extensive background in journalism. The candidate may, on request, be permitted to satisfy the major requirement with less than the normal 30 term hours of work in journalism.

Plan B. Thesis optional. Designed for students with little or no journalistic background. The candidate may take a maximum of 40 term hours of work in journalism. If he elects not to write a thesis, he must submit three term papers, written under the supervision of his adviser.

Facilities. The School of Journalism is housed in Eric W. Allen Hall, a three-story brick structure erected in 1954 and named in memory of the late Eric W. Allen, the first dean of the School of Journalism. Fully equipped laboratories are provided for newswriting, editing, advertising, radio-television news, and advertising (the school has its own broadcasting studios), photography, and typography. Current files of newspaper 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, radio-television, and teletypewriter monitor services of the Associated Press and the United 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 State Broadcasters Association have their offices in Allen Hall. The school and these associations cooperate in providing placement services for journalism graduates. The Oregon Scholastic Press also has its headquarters in Allen Hall.

Scholarships, Awards, and Financial Aid. The following scholarships and fellowships, established specifically for students in journalism, are awarded annually: Eugene *Register-Guard* Allen Scholarships, Crown Zellerbach Scholarships, Mainwaring Memorial Scholarship, Oregon Scholastic Press Scholarships, Pendleton *East Oregonian* Scholarship, Florence Sweet Scholarship (for descriptions see pages 85-90).

The following prizes and awards are given annually for proficiency in journalistic studies and activities: Harpham Prizes in Journalism, Hillsboro *Argus* Award, Sigma Delta Chi Scholarship Award, T. Neil Taylor Awards in Journalism, Turnbull-Hall Award (for descriptions, see pages 92-94).

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.

LOWER-DIVISION COURSES

J 211, 212, 213. **Introduction to Journalism.** 2 hours each term.

Required of prejournalism majors; open to nonmajors. Survey of journalistic fields, with emphasis on career opportunities; instruction in the fundamentals of reporting, copyediting, advertising, and technical processes. Lectures and discussion. Nelson, staff.

UPPER-DIVISION COURSES

J 321. **Mechanics of Publishing.** 3 hours.

Printing processes and machinery, including their history; recognition of type faces, typographical display, copy fitting; typesetting machines, stereotyping, letterpress, offset, rotogravure, engraving; paper and ink; relationship of mechanical to business and editorial departments. Lectures and laboratory. Webb.

J 335. **News Photography I.** 3 hours.

Instruction in use of the news camera and in the processing of film; the role of photography in journalism. Lectures and laboratory. Freemesser.

J 336. **News Photography II.** 3 hours.

Advanced techniques in camera and darkroom work; picture editing; trends in pictorial journalism. Prerequisite: J 335 or consent of instructor. Freemesser.

J 341. **Principles of Advertising.** 2 or 3 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. Wales.

Sp 341. **Radio and Television Workshop.** 2 hours.

Broadcast performance technique; physical, acoustic, and mechanical theory and its application; interpretive theory and its application. May be counted toward a journalism major. Prerequisite: consent of instructor.

Sp 347. **Radio and Television Script Writing.** 2 hours.

Radio and television writing techniques. Theory and practice in the writing of all major continuity types. Prerequisite: junior standing.

J 361. **Reporting.** 2 hours.

Basic training in news writing and reporting. Lectures, individual conferences, and laboratory. Hulteng.

J 371. Copy Editing I. 2 hours.

Instruction and practice in copyreading and headline writing for the newspaper; emphasis on grammar and style. The class edits the daily teleprinter report of the Associated Press or the United Press. Lectures and laboratory. Prerequisite: J 321, J 361. Hulteng, Price.

J 372. Copy Editing II. 2 hours.

Instruction and practice in technical and subjective problems involved in evaluation, display, make-up, and processing of written and pictorial news matter under time pressure. Prerequisite: J 371. Hulteng, Price.

J 401. Research. Hours to be arranged.**J 403. Thesis.** Hours to be arranged.**J 405. Reading and Conference.** Hours to be arranged.**J 407. Seminar.** Hours to be arranged.

The Advertising Agency.
Editorial Cartooning.
Market Research.
Radio-Television Station Policies.
Television Problems.

J 421. Community Newspaper: Editorial Problems. (G) 3 hours.

News and editorial problems of weekly and small daily newspapers; relationships between the community and newspaper staff personnel. Duncan.

J 422. Community Newspaper: Business Problems. (G) 3 hours.

Business problems of weekly and small daily newspapers; advertising and rate structures; circulation promotion and auditing. Webb.

J 423. Community Newspaper: Production Problems. (G) 3 hours.

Mechanical and shop problems of weekly and small daily newspapers; equipment; financing and evaluating newspapers. Webb.

J 425. Advanced Practice. 1 to 3 hours.

No-grade course. Field experience in news and advertising practice. Prerequisite: consent of instructor.

J 431. Radio-Television News I. 3 hours.

Gathering and writing news for broadcast media. Lectures, individual conferences, and laboratory. Monaghan.

J 432. Radio-Television News II. (G) 3 hours.

Advanced aspects of the preparation, reporting, and broadcasting of radio-television news. Special emphasis on the building of news programs. Lectures and laboratory. Prerequisite: J 361 or J 431.

J 440. Advertising Production. (G) 3 hours.

Instruction in the technical aspects of advertising. Printing and engraving, lithography, rotogravure, silk-screen process, paper, ink, and color. Production planning of advertising materials. Lectures and laboratory. Prerequisite: J 321, J 341. Webb.

J 441. Radio-Television Advertising. (G) 3 hours.

Study of the principles of radio-television advertising and of the techniques involved. The place of broadcasting in modern advertising; methods of measuring audience, planning campaigns, writing copy, checking results. Prerequisite: J 341. Wales.

J 443. Newspaper Advertising. (G) 3 hours.

The organization and methods of the advertising department of newspapers and other publications. Prerequisite: J 341, J 446, 447. Wales.

J 444. Advertising Problems. (G) 3 hours.

The student is given an opportunity to cultivate his judgment through consideration of actual marketing and merchandising problems, in the solution of which advertising may be a factor. Prerequisite: J 341. Wales.

Sp 444. Radio and Television Program Production. 3 hours.

Production techniques as they apply to major program types. Critical evaluation of programs, programming patterns, audience-analysis techniques. May be counted toward a journalism major. Prerequisite: consent of instructor.

J 446, 447. Advertising Copy and Layout. (G) 3 hours each term.

Training and practice in the art of writing advertising copy and preparing visual presentation for various media. Study of diction, sentence structure, headlines and slogans, style, design and composition. Lectures and laboratory. Prerequisite: J 341. Nelson, Wales.

J 455. Supervision of School Publications. (g) 3 hours.

The teacher's role in guiding student publications in secondary schools and junior college. Nelson.

J 457. The Press and Related Media. (g) 2 hours.

The organization and operation of American newspapers, leading national magazines, and the media of commercial broadcasting; evaluation of their functions, duties, and responsibilities in contemporary society. Not open to journalism majors. Nelson.

J 459. Publicity and Public Relations. (g) 3 hours.

Basic techniques and methods in publicity programs for business, professional, and social organizations and interest groups; relationship of publicity to the broader concept of public relations. Not open to journalism majors. Nelson.

J 462. Reporting of Public Affairs I. (G) 3 hours.

Advanced news writing, with emphasis on reporting of city and county affairs; reporting and interpretation of special news, including business, labor, agriculture, and science. Lectures, individual conferences, and laboratory. Prerequisite: J 361. Hulteng.

J 463. Reporting of Public Affairs II. (G) 3 hours.

Newspaper reporting of legislative and executive governmental bodies; political news; civil and criminal courts and appellate procedure; legal privilege. Prerequisite: J 361. Price.

J 464. Interpretive Writing. (G) 3 hours.

Application of advanced writing techniques in the analysis and interpretation of news for media of mass communication; the editorial, commentary, column, review, and interpretive article. Prerequisite: J 361. Hulteng.

J 468, 469. Magazine Article Writing. (G) 2 hours each term.

Study of the problems of writing and selling articles, with emphasis on the marketing of manuscripts. Conferences. Individual projects stressed the second term. Nelson.

J 470. Magazine Editing. (G) 3 hours.

Principles and problems of magazine editing; content selection, use of pictures, headline writing, caption writing, layout, make-up, typography; editorial responsibility. Lectures and laboratory. Nelson.

J 481. Newsroom Policies. (G) 2 hours.

Advanced practice in news editing and make-up, including special pages; news judgment, ethical problems of news presentation; management of the news staff. Prerequisite: J 371, J 372. Price.

J 483. Public Relations Problems. (G) 3 hours.

Principles of public relations in contemporary American society, with emphasis on individual projects; the growing need for public relations activities by profit and nonprofit institutions; techniques and methods; role of the media; ethics of public relations. Wales.

J 485. Law of the Press. (G) 3 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 radio news regulation. Price.

J 487. History of Journalism. (G) 3 hours.

Study of the changing character of the newspaper, with emphasis on the contributions of outstanding editors, publishers, and inventors. The evolution of freedom of the press, editorial and business standards, mechanics, and advertising practices. Price.

J 489. Comparative Foreign Journalism. (G) 3 hours.

Channels of foreign news coverage, including American and foreign press associations; analysis of foreign newspapers and study of foreign press personalities; foreign correspondents; censorship. Price.

J 494. Journalism and Public Opinion. (G) 3 hours.

Opinion-shaping role of major communications media; theories of public opinion and propaganda; activities of pressure groups and other organized groups. Duncan.

J 495, 496. Journalism and Contemporary Affairs. (G) 3 hours each term.

Discovery of enlightened opinion on public affairs. Application of the social sciences to problems of the day. Methods by which an editor attains authentic judgment. Thesis required. Duncan, Hulteng.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (g) may be taken for graduate credit.

J 501. Research in Journalism. Hours to be arranged.**J 503. Thesis.** Hours to be arranged.**J 505. Reading and Conference.** Hours to be arranged.**J 507. Seminar.** Hours to be arranged.

Public Opinion Measurement.
Interpretive Writing.
Communications Research Methods.
Advertising Problems.
Literature of Journalism.
The Foreign Press.
History of Journalism.
Propaganda.
Current Problems in Journalism.

School of Law

ORLANDO J. HOLLIS, B.S., J.D., Dean of the School of Law.

LOIS I. BAKER, M.A., Law Librarian.

Professors: O. J. HOLLIS, C. G. HOWARD (emeritus).

Associate Professors: W. M. BASYE, R. S. KELLEY, F. R. LACY, H. A. LINDE.

Special Lecturers: E. C. HARMS, J. P. HARRANG, K. A. POOLE.

THE UNIVERSITY OF OREGON SCHOOL OF LAW was established in 1884 as a night law school in the city of Portland. It was moved to the Eugene campus 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 December 1919; the standards of the school were approved by the American Bar Association in August 1923.

Admission to the School of Law. The minimum requirement for admission to the School of Law is three-fourths of the total credit required for a Bachelor of Arts or Bachelor of Science degree from the institution at which the student completes his prelegal work—but not less than 140 term hours (the requirement for a student completing his prelegal work at the University of Oregon). The minimum requirement may include no work taken by correspondence, and may include a maximum of 14 term hours in nontheory courses in military science, hygiene, domestic arts, physical education, vocal or instrumental music, or other subjects of a nontheoretical nature.

The student's prelegal program must include: (1) courses satisfying all lower-division requirements of the University and the College of Liberal Arts; (2) the basic college course in accounting (Ac 211, 212, 213 or equivalent); (3) a minimum of 36 term hours of credit in courses in the general field of social science. An applicant who has a baccalaureate degree need not comply with requirement (1) above.

For admission to the School of Law, a student must have, for all prelegal work, a cumulative grade-point average of at least 2.25 (computed in accordance with the system of grade-point-average determination used by the University of Oregon). This requirement applies to all applicants, including those who hold degrees.

Applicants for admission to the School of Law in fall term 1961 and thereafter must take the uniform Law School Admission Test administered by the Educational Testing Service, and have a report of the test score sent to the School of Law prior to the first day of August preceding the fall term for which admission is sought. Inquiries concerning the dates, places, and fee for the Law School Admission Test should be addressed directly to the Educational Testing Service, 20 Nassau Street, Princeton, N. J.

All students intending to enter the School of Law must file a formal application for admission with the dean of the school, from whom official application forms may be obtained.

A student intending to transfer to the University of Oregon from another institution and to enter the School of Law must also submit, to the dean of the school, complete records of all school work beyond the eighth grade. For failure to submit complete records, the University may cancel the student's registration. This regulation applies to work taken at other law schools, whether or not the student wishes to transfer credit.

Admission to the School of Law is restricted to students who are candidates for a professional law degree. Students are admitted to the professional study of law only at the opening of the fall term of each academic year.

Prelegal Program. Students pursuing prelegal studies at the University of Oregon are enrolled in the College of Liberal Arts during the three years of the required preparatory program. They are, however, assigned academic advisers from the faculty of the School of Law. The student is allowed considerable freedom of choice in selecting his courses, as long as his program provides a substantial cultural background. The prelegal adviser, after considering the student's high-school record and any available evidence of his native abilities, assists him in working out a program that will provide such a background. The student's program should include courses which will enable him to meet all lower-division requirements by the end of the second year of his prelegal studies.

Law students may qualify for a nonprofessional baccalaureate degree after the satisfactory completion of prelegal requirements and one year of professional work in the School of Law, provided that they have satisfied all general University requirements for such a degree. For a nonprofessional degree, the major requirement in law is 36 term hours (unweighted) in professional courses. The dean of the School of Law will not recommend a student for the B.A. or B.S. degree with a major in law who has been awarded, or is a candidate for, either of these degrees with a major in another field.

Registration and Fees. Law students register and pay their fees at the times set in the University calendar for undergraduate registration. All law students pay the regular undergraduate fees, whether or not they hold baccalaureate degrees; if they are not residents of Oregon, they pay the regular nonresident fee (see pages 70-73).

Curriculum and Degrees. The School of Law offers a standard professional curriculum leading to the Bachelor of Laws or Doctor of Jurisprudence degree. A total of three years of resident professional study in the University of Oregon or another law school of recognized standing is required for a law degree, of which, normally, the two last years must be in residence in the University of Oregon. The curriculum is arranged, as far as possible, to present the fundamental topics of the law during the first year, and the more specialized subjects during the second and third years.

Since the school owes its primary responsibility to the people of the state of Oregon, special emphasis is placed on Oregon substantive law and on Oregon procedure. Courses based upon the common law are organized to provide the student a thorough foundation in the fundamental principles of the common law, and an understanding of the modification of these principles in Oregon by judicial decisions and statutes.

In the list of courses on pages 283-287, elective courses are indicated with an asterisk (*). All other courses are required. The school reserves the right to make any desirable or necessary changes in courses as listed and described.

The School of Law reserves the right to withhold recommendation for the granting of a degree to any student who, in the opinion of the faculty of the school, does not possess the character and abilities essential to the maintenance of the public trust in the legal profession. Regular class attendance is required of students in the School of Law. Credit for any course may be denied for irregular attendance.

An honor system, which has been in operation in the School of Law for more than thirty-five years, is applicable to all students in the school. The system is explained to first-year students at an assembly at the opening of the fall term of each year.

The requirements for the LL.B. and J.D. degrees are as follows:

Bachelor of Laws. Students who have met the requirements for admission to the School of Law, and who have successfully completed courses in law aggregating 123 hours and have otherwise satisfied the requirements of the University and the School of Law, will be granted the degree of Bachelor of Laws (LL.B.). For the LL.B. degree the student must have a minimum grade-point average of 2.00 over the full three years of his work in the School of Law.

Doctor of Jurisprudence. The degree of Doctor of Jurisprudence (J.D.) will be granted to students who, in addition to satisfying the requirements for an LL.B. degree:

(1) Obtain (at least one year before completing work for the law degree) the Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, or an equivalent degree from this University or some other institution of recognized collegiate rank.

(2) Earn a minimum grade-point average of 3.00 in the School of Law.

(3) Complete 3 term hours in Thesis (L 503), involving the preparation, under the direction of the faculty of the School of Law, of a thesis or series of legal writings of high merit.

(4) Comply with such other requirements as the law faculty may from time to time impose.

Transferred Credit. A student as a general rule may transfer not to exceed one year of credit earned in another law school of recognized standing, provided that, at the time he was admitted to the law school from which he wishes to transfer credits, he could have met the then-existing admission requirements of the University of Oregon School of Law. In exceptional cases only, a student 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 admission by a student 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 student is eligible for readmission in good standing to the school previously attended; and (3) the student's cumulative grade-point average for all professional law courses completed is at least 2.00, when computed on the basis of the system of grade-point-average determination used by the University of Oregon. Transferred credit will be accepted, however, only if the student's professional law-school record is of high quality.

In determining whether a student who has transferred credits from another law school has satisfied the 2.00 grade-point-average requirement for the LL.B. degree, only grades earned at the University of Oregon will be considered.

In determining whether a student who has transferred credits from another law school has satisfied the 3.00 grade-point-average requirement for the J.D. degree, the following rules are applied: (1) If the grades earned elsewhere, when expressed in terms of the University grading system, are not equivalent to a grade-point average of 3.00, then both the grades earned elsewhere and the grades earned at the University will be considered in determining whether the student has a minimum average of 3.00. (2) If the grades earned elsewhere, when expressed in terms of the University grading system, are equal to or better than a grade-point average of 3.00, then only the grades earned at the University will be considered in determining whether the student has a minimum average of 3.00.

Facilities. The School of Law is housed in Fenton Hall, a three-story brick structure, with a fireproof annex in which the main book collection of the Law Library is located. Fenton Hall, named in honor of the late William David Fen-

ton, Oregon attorney and benefactor of the school, was formerly the University Library. The building was extensively remodeled in 1938 to provide a permanent home for the School of Law. A new Law Library reading room with modern facilities was provided in 1953.

The holdings of the Law Library total 50,946 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, standard legal digests and encyclopaedias, etc. Its periodical collection includes files of about 190 legal journals. An excellent collection of publications relating to Oregon territorial and state law includes an extensive file of Oregon Supreme Court briefs.

The Law Library reading rooms are adjacent to the stacks, allowing students direct and easy access to the book collections.

Oregon Law Review. The OREGON LAW REVIEW is published quarterly under the editorship of the faculty of the School of Law, with the assistance of a student editorial staff, as a service to the members of the Oregon bar and as a stimulus to legal research and productive scholarship on the part of students. The LAW REVIEW has been published continuously since 1921.

Legal Aid. Members of the third-year law class each year have the opportunity to participate on a voluntary, noncredit basis in the legal-aid program operated by the Lane County Bar Association. For several years the voluntary cooperation of third-year students has been 100 per cent.

Oral Case Analysis Contest. Law students entering the Lane County Bar Association Oral Case Analysis Contest are afforded the unique opportunity of discussing a recent case or legal topic of interest with an audience composed entirely of lawyers. Any registered law student may enter the contest. The Lane County Bar Association offers each year cash prizes of \$65, \$40, and \$25 to the three students judged to have made the best presentations at the weekly luncheon meetings of the bar association.

Order of the Coif. The Order of the Coif, national law-school honor society, maintains a chapter in the University of Oregon School of Law. The Order of the Coif was founded to encourage high scholarship and to advance the ethical standards of the legal profession. Members are selected by the faculty during the spring term each year from the ten per cent of the third-year class who rank highest in scholarship. Character, as well as scholarship, is considered in selecting members.

Fellowships and Scholarships. The following fellowships and scholarships are awarded to students in the School of Law: Henry E. Collier Law Scholarships, Lorianne Conlee Fowler Law Scholarship, Charles G. Howard Law Scholarships, Patterson Memorial Fellowship. For descriptions, see pages 84-87.

Prizes and Awards. The following prizes and awards are given annually to students in the School of Law: American Jurisprudence Prizes; Bancroft-Whitney Prize; Bender-Moss Prize; Bureau of National Affairs Prize; Nathan Burkan Memorial Prizes; Lane County Bar Association Prizes; Lawyers Cooperative Prize. For descriptions, see pages 91-93.

Placement. The School of Law maintains its own placement service for its graduates. Individual attention is given to the wishes of each graduate concerning his placement.

FIRST-YEAR COURSES

L 412, 413. **Contracts.** 4 hours each term, fall and winter.

Formation of simple contracts; consideration; third-party beneficiaries; as-

signments; the Statute of Frauds; performance and breach; illegality; discharge. Patterson, Goble, and Jones, *Cases on Contracts* (4th ed.).

L 414, 415, 416. **Property.** 3 hours each term, fall and winter; 4 hours spring.

Possession as a concept in acquisition, retention, transfer, and loss of chattels. Requisites of valid acquisition and transfer of nonderivative and derivative titles to land; descriptions; covenants of title; fixtures. Landowners' incorporeal interests; easements; licenses; covenants. Creation and characteristics of common-law estates. Classification and protection of nonpossessory future interests. Class gifts; construction problems; rule against perpetuities; powers of appointment; restraints on alienation. Aigler, Smith, Teft, *Cases on Property* (1960). Kelley.

L 418. **Legal Bibliography.** 1 hour winter.

Legal reference materials; legislative enactments; judicial precedents; classes of law books; training in their use. Baker.

L 419. **Common-Law Procedure.** 4 hours fall.

Introductory study of procedure in actions at law. The court system; methods of trial and appellate review; detailed study of common-law actions and pleadings. McBaine, *Introduction to Civil Procedure*. Hollis.

L 420, 421. **Criminal Law and Procedure.** 3 hours fall, 2 hours winter.

Source and function of criminal law; elements of specific crimes and factors limiting culpability; criminal law and its administration as a technique of social order; procedure in criminal cases; protection of individual rights by constitutional and other legal limitations on criminal law enforcement.

L 422, 423. **Torts.** 4 hours each term, winter and spring.

Intentional invasion of interests of personality and property; negligence and causation; plaintiff's conduct as a bar to recovery; liability without legal fault: fraud and deceit; defamation; malicious prosecution; interference with advantageous relations. Smith and Prosser, *Cases on Torts* (2nd ed.). Lacy.

L 427. **Agency.** 3 hours spring.

Nature of agency; creation; agent's duty to principal; rights of agent against principal; claims of third persons; ratification; undisclosed principal; termination. Mechem, *Cases on the Law of Agency* (4th ed.). Basye.

L 429. **Equity I.** 3 hours spring.

General nature and availability of equitable remedies; historical background; specific performance of contracts; injunctions; interests typically protected by courts of equity. Chafee, Simpson, and Maloney, *Cases on Equity* (3rd ed.). Linde.

SECOND-YEAR COURSES

L 432. **Titles.** 4 hours winter.

Methods of conveyancing: deeds—writing, signature, seal, delivery, acceptance; surrender; description; rents; covenants; estoppel by deed; recording. Bade, *Cases on Real Property and Conveyancing*. Kelley.

L 434. **Equity II.** 4 hours fall.

Vendor and purchaser: creation and incidents of the relationship, remedies; Statute of Frauds; sufficiency of memorandum and part performance; equitable defenses and counterclaims to actions at law; equitable remedies for misrepresentation and mistake. Chafee, Simpson, and Maloney, *Cases on Equity* (3rd ed.). Lacy.

L 435, 436. **Commercial Transactions.** 3 hours fall, 4 hours winter.

The Negotiable Instruments Law; negotiability; holders in due course; equities; liabilities of parties; discharge; Uniform Sales Act; the transaction, the Statute of Frauds, transfer of property; documents of title; financing methods; rights and duties of parties.

L 439. **Creditors' Rights.** 4 hours winter.

Remedies of and priorities between individual unsecured creditors; exemp-

tions; fraudulent conveyances; general assignments and creditors' agreements; bankruptcy. Hanna and MacLachlan, *Cases on Creditors' Rights* (5th ed.). Linde.

*L 440. **Insurance.** 3 hours spring.

The insurance business; insurable interest; coverage of contract as to event and insured; subrogation; warranties, representations, and concealment.

*L 441. **Land and Water Resources.** 3 hours.

The legal aspects of problems arising in land, timber, minerals, and water utilization, with special attention to the effect of Federal, state, and local legislation on such problems.

*L 444. **Restitution.** 3 hours spring.

Historical background; availability and operation of quasi contracts and other remedies for unjust enrichment; restitution of benefits tortiously acquired or conferred upon unenforceable contracts or because of mistake or duress. Durfee and Dawson, *Cases on Remedies, Restitution at Law and in Equity*, vol. II. Lacy.

*L 446. **Domestic Relations and Persons.** 3 hours spring.

Nature of marriage; annulment; divorce; adoption; legal incidents of status of husband and wife and parent and child. Jacobs and Goebel, *Cases on Domestic Relations* (3rd ed.).

L 447, 448. **Partnerships and Corporations.** 4 hours fall, 3 hours winter.

A comparative study of partnerships, corporations, and other business associations in launching the enterprise and in transactions prior to formation; management, control, and transfer of control in a going concern; managers' benefits and hazards; asset distributions to members; reorganization of a solvent enterprise; and solvent dissolution. Frey, *Cases on Partnerships and Corporations*. Basye.

L 449, 450. **Constitutional Law.** 3-4 hours each term.

The Federal system under the Constitution of the United States; judicial review in constitutional cases; national and state control over the economy under the commerce clause; the power to tax and spend and other powers of Congress; national power in international relations; guarantees of individual liberty by limitations on governmental power; constitutional issues in state courts. Barrett, Bruton, Honnold, *Cases on Constitutional Law*. Linde.

L 451. **Mortgages.** 3 hours spring.

Real and chattel; legal and equitable; title, possession, rents and profits, waste, foreclosure, redemption; priorities; marshaling; extension; assignment; discharge. Osborne, *Cases on Property Security* (2nd ed.). Kelley.

L 453. **Code Pleading.** 4 hours spring.

Pleading under the codes and the Federal rules of civil procedure; parties; joinder of causes; the pleadings; objections to pleadings; amendments. Cleary, *Cases on Pleading* (2nd ed.). Hollis.

*L 457. **Legal Writing I.** 1 hour fall.

Preparation, under the supervision of a member of the faculty, of a manuscript in the form of a "Recent Case" note suitable for submission to the Board of Editors of the OREGON LAW REVIEW.

THIRD-YEAR COURSES

L 458, 459. **Conflict of Laws.** 3 hours each term, fall and winter.

Theoretical basis of decisions; jurisdiction; foreign judgments; right under foreign law in torts, contracts, sales, security transactions, business organizations, family law. Cheatham, Goodrich, Griswold and Reese, *Cases on Conflict of Laws* (4th ed.). Hollis.

* Elective courses.

L 460, 461. **Trial Practice.** 3 hours each term, winter and spring.

Jurisdiction; venue; process; judgments; juries; introduction of evidence; exceptions; findings; verdicts; motions after verdict. Moot court jury trial spring term. McBaine, *Cases on Trial Practice* (3rd ed.). Hollis.

L 462. **Decedents' Estates.** 4 hours fall.

Intestate succession (descent and distribution); testamentary capacity and intent; execution of wills; incorporation by reference; revocation; republication; effect of fraud, undue influence, and mistake; lapse, ademption, and satisfaction; administration of estates. Rheinstejn, *Law of Decedents' Estates* (2nd ed.). Linde.

*L 471. **Legislation.** 3 hours spring.

The legislative process; the lawyer's role in policy formulation and law making in contrast to litigation; drafting; presentations before legislative committees and other law-making bodies; lobbying and its regulation; legislative history and the interpretation of statutes.

L 472. **Trusts.** 4 hours spring.

Nature of trust; express, resulting, and constructive; charitable; cestui's remedies; transfer of trust property; liability of trustee; investment; extinguishment. Scott, *Cases on Trusts* (4th ed.). Kelley.

*L 476. **Labor Law.** 3 hours spring.

The law of labor-management relations; common-law background and modern development; Federal and state regulation of collective bargaining, strikes, and picketing, and of specific employment conditions and practices; the N.L.R.B. and other agencies of labor-law administration. Linde.

L 477. **Legal Ethics.** 1 hour winter.

Organization of bench and bar; functions of the legal profession in the administration of justice; illegitimate legal practices; canons of professional and judicial ethics. Cheatham, *Cases on the Legal Profession* (2nd ed.).

L 478, 479. **Evidence.** 3 hours each term, fall and winter.

Presumptions; burden of proof; judicial notice; hearsay, opinion, and character evidence; admissions; real evidence; best-evidence rule; parole-evidence rule; witnesses. Ladd, *Cases on Evidence* (2nd ed.). Lacy.

*L 481. **Trade Regulations.** 3 hours.

Intimidating and molesting, disparaging competitor's goods or services, appropriating trade values, including breach of contracts, boycotting, unfair price practices, unfair advertising.

L 482, 483. **Federal Taxation.** 3 hours each term, winter and spring.

What is income and whose income is it under the Federal income tax; deductions and credits; when is it income or deductible—accounting problems; capital gains and losses; income-tax problems in corporate distributions and reorganization; the Federal estate tax—concepts of gross estate, valuation, deductions, credits, and computation of tax; the Federal gift tax; collection of Federal taxes, transferee liability, and criminal penalties. Griswold, *Cases and Materials on Federal Taxation* (4th ed.). Basye.

*L 484. **Administrative Law.** 3 hours spring.

The administrative process; delegation of administrative functions and legislative and executive control of agency action; formulation and enforcement of the administrative program; procedural standards of administrative action; the nature and scope of judicial review. Linde.

*L 487. **Law of Municipal Corporations.** 3 hours spring.

The nature, constitution, powers, and liabilities of municipal corporations. Stason, *Cases and Materials on the Law of Municipal Corporations* (2nd ed.). Harms.

* Elective courses.

L 488. Legal Writing II. 1 hour fall.

Preparation, under the supervision of a member of the faculty, of a manuscript in the form of a "Note and Comment" suitable for submission to the Board of Editors of the OREGON LAW REVIEW.

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

Open to third-year students, by special arrangement only. The student works under the supervision of the instructor in whose field the problem is selected. Not more than 3 hours per term or a total of 9 hours of credit may be earned.

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

A maximum total of 3 hours of credit may be earned.

***L 507. Seminar.** Hours to be arranged.

* Elective courses.

Medical School

DAVID W. E. BAIRD, M.D., LL.D., Dean of the Medical School.

CHARLES N. HOLMAN, M.D., Associate Dean of the Medical School.

WILLIAM A. ZIMMERMAN, B.S., Business Manager and Assistant to the Dean.

CAROLINE H. POMMARANE, B.S., Registrar.

BERTHA B. HALLAM, B.A., Librarian.

THE UNIVERSITY OF OREGON MEDICAL SCHOOL, located in Portland, was established in 1877. The medical department of Willamette University was merged with the Medical School in 1913. The Medical School buildings occupy a 109-acre campus on Marquam Hill, southwest of the city center.

Curriculum in Medicine. The Medical School, which is rated Class A by the American Medical Association, offers a standard professional curriculum in medicine leading to the degree of Doctor of Medicine. Since facilities for instruction provide for the acceptance of only a limited number of applicants, completion of premedical requirements does not guarantee admission to 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 received his premedical preparation, 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 his first two years at the Medical School as credit earned in residence toward the bachelor's degree.

A suggested premedical curriculum for students planning to enter the Medical School is presented on pages 164-165 of this Catalog.

Curriculum in Medical Technology. The University offers a four-year curriculum in medical technology, leading to a bachelor's degree. The student takes three years of work on the Eugene campus and one year at the Medical School. See pages 163-164 of this Catalog.

Medical School Catalog. A separate catalog, containing detailed information concerning the curriculum in medicine, may be obtained on request.

School of Music

THEODORE KRATT, Mus.M., Mus.D., Dean of the School of Music.

STACEY L. GREEN, Mus.M., Administrative Assistant.

Professors: E. A. CYKLER, GEORGE HOPKINS, THEODORE KRATT, R. E. NYE, JANE THACHER (emeritus).

Associate Professors: GEORGE BOUGHTON, S. L. GREEN, H. T. KELLER, R. S. VAGNER.

Assistant Professors: EXINE BAILEY, F. W. BITTNER, MILTON DIETERICH, J. M. GUSTAFSON, JOHN HAMILTON, J. M. JELINEK, I. D. LEE, M. D. RISINGER, W. C. WOODS, EDWARD ZAMBARA.

Instructors: DORIS H. CALKINS, ROBERT CUNNINGHAM, L. C. MAVES, JR., E. L. MYRICK, JOHN STRUBE.

Assistants: W. R. MERCER, VONDIS MILLER

THE SCHOOL OF MUSIC provides, for graduates of high schools and preparatory schools who have demonstrated talent in music, the opportunity to continue their musical studies, either as professional preparation or as an avocation, and to acquire at the same time a broad general education. Instruction is offered in the following fields: organ, piano, violin, cello, harp, orchestral and band instruments, voice, instrumental and choral conducting, musical theory, composition, music literature and history, and music education.

A department of music was established at the University of Oregon in 1886. The School of Music was organized in 1902. The school was admitted to membership in the National Association of Schools of Music in 1930; requirements for admission and for graduation are in accordance with the standards of that association.

Admission. The major curricula in music are organized on an upper-division and graduate basis. Freshman students intending to major in music are enrolled in the College of Liberal Arts and pursue, for two years, a program combining liberal arts courses with introductory work in music theory, music literature, and applied music.

The lower-division courses in music are planned to insure continuity of training and experience throughout the student's undergraduate years. Educational continuity is further insured through the assignment of members of the faculty of the School of Music as advisers to students preparing for a music major.

Before admission as majors, students must satisfy all lower-division requirements of the University and the College of Liberal Arts, and must complete the lower-division courses in music listed under "Curricula in Music" below as requirements for admission to the several major curricula.

Facilities. The School of Music is housed in three adjoining buildings, each planned to serve one of the three principal functions of the school—instruction, practice, and performance. The landscaped grounds surrounding the buildings include an outdoor theater. The instruction wing, completed in the fall of 1949, is a modern brick and concrete structure, acoustically treated with sound-absorbing materials. In addition to school offices, it contains sixteen teaching studios, three large classrooms, and a lecture and rehearsal room seating 100 persons. All teaching studios are equipped with Steinway grand pianos. The practice wing contains forty practice rooms equipped with upright pianos. The auditorium wing seats

600 persons, and has a stage large enough to accommodate a full symphony orchestra; the auditorium is equipped with a four-manual Reuter organ. An annex to the auditorium wing provides band and orchestra rehearsal rooms, a recording room, and twelve practice rooms. The University Theater, on the north campus, provides facilities for the production of opera.

A music library is maintained in the Douglass Room in the University Library. The collections include music scores, the complete works of many of the masters, reference books, and an extensive collection of recordings. The room is equipped with phonographs with earphone attachments for individual listening. The music library is partially supported through a bequest from the late Matthew Hale Douglass, former librarian of the University. The collections also include gifts from the Carnegie Corporation, Phi Beta, and Mu Phi Epsilon.

Musical Organizations. The University Chorus, the University Singers, the University Symphony Orchestra, the University Concert Band, and smaller ensembles offer membership to all students in the University who can qualify. These organizations afford unusually good opportunities, under the direction of members of the faculty of the School of Music, for sight reading and for experience in choral, orchestral, and band routine. The value of thorough and careful study of a large amount of choral and instrumental literature through membership in such organizations cannot be overestimated by the serious student of music.

Concerts and Recitals. Every opportunity possible is provided for students to hear good music and to acquire the experience of public appearance. Faculty and student recitals are presented throughout the year. Concerts are given by the musical organizations listed above.

Music majors are required to attend at least sixty-five per cent of the concerts and recitals sponsored by the School of Music.

Students of the University are admitted free to the concerts of the Eugene and University Civic Music Association. This association brings artists of international fame to the campus each year for concerts.

Music Fees. Special fees are charged for instruction in applied music, in addition to regular registration fees. These fees are due at the time of registration each term.

The applied-music fees for instruction in piano, voice, violin, cello, harp, and organ are: one lesson a week, \$30.00 per term; two lessons a week, \$50.00 per term.

The applied-music fees for instruction in wind and percussion instruments are: one lesson a week, \$20.00 per term; two lessons a week, \$40.00 per term.

Practice rooms may be reserved for the following fees: \$4.00 per term for one hour a day; \$7.00 per term for two hours; \$10.00 per term for three hours; \$12.00 per term for four hours. The organ practice fee is \$20.00 per term for one hour a day.

Curricula in Music

THE SCHOOL OF MUSIC offers undergraduate curricula leading to the Bachelor of Arts, Bachelor of Science, and Bachelor of Music degrees, and graduate work leading to the Master of Arts, Master of Science, and Master of Music degrees. The instructional program is planned to develop not only performers but also musicians. On the practical side, stress is laid on everything that can contribute to mastery of the instrument from the purely technical point of view. Technique, however, is looked upon as a means rather than an end. Notice is taken of the fundamental defects in most preliminary instruction, and suitable remedies are provided.

The work outlined in curricula leading to the Bachelor of Music degree, well and faithfully performed, and augmented by the experience and continued serious

study, will provide a substantial foundation upon which to build a professional career.

Students are advised not to concern themselves in advance with the details of their study programs. The student's faculty adviser, assigned at the beginning of his freshman year, will explain fully general University requirements, school requirements, and desirable electives. Ample time is available for a thorough consideration of each student's qualifications and needs.

The courses listed in the curricula outlined below are minimum requirements. Additional courses may be required to satisfy individual needs.

Curriculum in Music Leading to B.A. or B.S. Degree. This curriculum is designed for students who wish to place equal emphasis on musical and nonmusical subjects. The following lower-division courses are required for admission:

	Term Hours
Applied Music—Instrument or Voice.....	6
Music Theory I (Mus 111, 112, 113).....	12
Band, Orchestra, or Chorus (Mus 195, Mus 196, or Mus 197).....	6

It is recommended that students elect Introduction to Music and Its Literature (Mus 201, 202, 203) as a second sequence in arts and letters for the satisfaction of the lower-division requirement.

The following courses in music are required during the student's upper-division years:

	Term Hours
Music Theory II (Mus 211, 212, 213).....	9
Keyboard Harmony (Mus 214, 215, 216).....	3
Applied Music—Instrument or Voice (upper division).....	6
Band, Orchestra, or Chorus (Mus 395, Mus 396, or Mus 397).....	6
Music electives (upper division).....	9

Curricula in Music Leading to B.Mus Degree. Curricula leading to the Bachelor of Music degree are offered in music education, applied music, and music theory and composition. The following lower-division courses are required for admission to any of these curricula:

	Term Hours
Applied Music—Instrument or Voice (Mus 190, Mus 290).....	6
Music Theory I (Mus 111, 112, 113).....	12
Music Theory II (Mus 211, 212, 213).....	9
Keyboard Harmony (Mus 214, 215, 216).....	3
Band, Orchestra, or Chorus (Mus 195, Mus 196, or Mus 197).....	6

It is recommended that students elect Introduction to Music and Its Literature (Mus 201, 202, 203) as a second sequence in arts and letters for the satisfaction of the lower-division group requirement.

Piano (Mus 1, 2, 3), a no-credit course, is required for students preparing for upper-division work in music education who lack functional keyboard facility.

Curriculum in Music Education. This curriculum is designed for students who wish to prepare themselves for the teaching and supervision of music in both elementary and secondary public schools. Options are provided in the vocal and instrumental fields; students of unusual ability may complete the requirements in both fields in five years.

The following upper-division courses are required in both the instrumental and the vocal options:

	Term Hours
Harmonic & Structural Analysis (Mus 314, 315, 316).....	6
*Applied Music—Instrument or Voice (Mus 390).....	6-12
History of Music (Mus 360, 361, 362).....	9
Band, Orchestra, or Chorus (Mus 395, Mus 396, or Mus 397).....	6-12
Student Teaching (Ed 416).....	10

* For the *vocal* option, a minimum of six terms in voice is required.

In addition to the common group of courses listed above, the following upper-division courses are required in the *vocal* option:

	Term	Hours
Music Education (MuE 317, 318, 319).....	9	9
Choral Conducting (MuE 323, 324).....	4	4
Choral Arranging (Mus 357).....	2	2
Instrumental Conducting (MuE 320).....	2	2
Clarinet & Saxophone (MuE 347).....	1	1
Brass Instruments (MuE 340).....	1	1
Violin & Viola (MuE 332) or Cello & String Bass (MuE 335).....	1	1
Special Teaching Methods: Vocal (MuE 408).....	2-3	2-3
Student Teaching (Ed 415).....	5	5

In addition to the common group of courses listed above, the following upper-division courses are required in the *instrumental* option:

	Term	Hours
Instrumental Conducting (MuE 320, 321).....	4	4
Choral Conducting (MuE 323).....	2	2
*Instrumental classes	10	10
Instrumentation & Arranging (Mus 329, 330).....	4	4
Voice Class (MuE 351).....	2	2
Special Teaching Methods: Instrumental (MuE 408).....	6	6
Supervision of the General Music Program (MuE 426).....	3	3

Before graduation, students must be able to play at sight piano accompaniments of moderate difficulty.

The program outlined above satisfies the Oregon state requirements for certification to teach music in both elementary and secondary schools for one year. Before his second year of teaching, the student must take School in American Life (Ed 310). For regular certification in Oregon, the student must complete five years of collegiate preparation, including 45 term hours of upper-division and graduate work after receiving the bachelor's degree.

Curriculum in Applied Music. This curriculum is designed for students whose talents justify intensive professional training in music, with emphasis on performance and preparation for studio teaching. One of the applied-music subjects (organ, piano, violin, cello, legitimate orchestral or band instrument, or voice) must be carried through the student's four undergraduate years. Students majoring in voice must complete at least two years of one foreign language (French, German, or Italian). The following upper-division courses are required:

	Term	Hours
Applied Music—Instrument or Voice (Mus 390).....	12	12
Applied Music—Instrument or Voice (Mus 490).....	12	12
History of Music (Mus 360, 361, 362).....	9	9
Band, Orchestra, or Chorus (Mus 395, Mus 396, Mus 397).....	6	6
Counterpoint I (Mus 311, 312, 313).....	6	6
Harmonic & Structural Analysis (Mus 314, 315, 316).....	6	6

In addition to these requirements, students are advised to elect upper-division courses from the following:

	Term	Hours
Composition I (Mus 414, 415, 416).....	6	6
Advanced Harmony (Mus 417, 418, 419).....	6	6
Counterpoint II (Mus 420, 421, 422).....	6	6
Seminar in Music History (Mus 408).....	9	9
Chamber Music (Mus 394).....	3	3
Instrumentation & Arranging (Mus 329, 330, 331).....	6	6
Choral Arranging (Mus 357).....	2	2
Choral Conducting (MuE 323, 324, 325).....	6	6
Instrumental Conducting (MuE 320, 321, 322).....	6	6
Opera Workshop (Mus 398).....	3-6	3-6

* Selected from MuE 332, 333, 334, MuE 335, MuE 340, 341, 342, MuE 343, MuE 344, MuE 345, MuE 346, MuE 347, 348, 349.

In their senior year, candidates for the B.Mus. degree with a major in an applied-music field are required to present a public recital, including the following:

Organ Majors—A major work of Bach; representative works of the pre-Bach and French romantic schools; selections from the more important works of modern composers.

Piano Majors—A concerto or chamber-music composition of advanced difficulty, a sonata equivalent in grade of difficulty to Beethoven's Opus 31, E-flat, or any polyphonic work of similar grade; selections from the works of romantic and modern composers.

Violin and Cello Majors—A concerto or chamber-music composition equivalent in grade of difficulty to Brahms's Opus 78; selections from the more important works of some leading modern composers.

Voice Majors—An aria from an opera or an oratorio; a group of classic songs; and a group of modern songs.

Wind-Instruments Majors—Two representative solo works and selected chamber music.

Students selecting a legitimate orchestral or band instrument for major study towards the B.Mus. degree must, in their senior year, demonstrate a thorough command of the instrument and ability to play satisfactorily at sight excerpts from symphonic compositions of the nineteenth century.

Before graduation, all candidates for the B.Mus. degree must be able to play at sight piano accompaniments of moderate difficulty.

Curriculum in Music Theory and Composition. This curriculum, leading to the B.Mus. degree, is planned for students whose major interest is in creative work, and whose talent justifies intensive training in music theory and composition. The following upper-division courses are required:

	Term Hours
History of Music (Mus 360, 361, 362).....	9
Counterpoint I (Mus 311, 312, 313).....	6
Harmonic & Structural Analysis (Mus 314, 315, 316).....	6
Counterpoint II (Mus 420, 421, 422).....	6
Advanced Harmony (Mus 417, 418, 419).....	6
Composition I (Mus 414, 415, 416).....	6

In their senior year, students who are candidates for the B.Mus. degree with a major in theory and composition must submit such original compositions in the smaller or larger forms as may be required by their instructors. Before graduation they must also be able to play at sight piano accompaniments of moderate difficulty.

Graduate Work. The School of Music offers graduate work leading to master's degrees in the following fields: music theory and composition, instrumental music, vocal music, and music education. The following degrees are granted:

Master of Arts, Master of Science—historical and theoretical studies and music education.

Master of Music—theory and composition, instrumental music, vocal music, and music education.

An interdisciplinary program leading to the M.A. or M.S. degree may be arranged by students preparing for public school teaching who wish to combine work in music education with work in another teaching field. Candidates for the degree of Doctor of Education in the School of Education may choose music education as a field of major interest.

Application for admission to graduate study in the School of Music must be made both to the University Director of Admissions and to the dean of the School of Music. Transcripts of the student's previous college work must be submitted, with the application, both to the Director of Admissions and to the dean.

During fall-term registration week, all entering graduate students in music, including graduates of the University of Oregon, are required to take a series of

examinations to test the adequacy of their preparation for graduate study. Deficiencies shown by the examinations must be removed, through undergraduate courses, before the student is admitted to full graduate standing and candidacy for a graduate degree.

Music

LOWER-DIVISION COURSES

Mus 1, 2, 3. **Piano.** No credit.

Remedial class instruction for students who lack a practical knowledge of the keyboard. For majors in music education and elementary education, and for majors in applied music in fields other than piano.

Mus 4. **Voice.** No credit.

Remedial class instruction for students who lack training and experience in the rudiments of singing. For majors in elementary education and recreation education, and for majors in music fields other than voice.

Mus 111, 112, 113. **Music Theory I.** 4 hours each term.

Theory I and II are basic courses for all majors in the School of Music. They provide a thorough groundwork in the elements of music science—melodic, harmonic, and rhythmic—taught through analysis of the styles of Bach, Haydn, Mozart, Beethoven, and other eighteenth- and nineteenth-century composers. Bittner, Cunningham, Dieterich, Jelinek.

Mus 190. **Applied Music.** 1 to 4 hours any term.

Freshman year. Individual instruction in organ, piano, violin, cello, harp, voice, orchestral and band instruments. Prerequisite: qualifying examination; consent of dean.

Organ—Hamilton

Piano—Bittner, Green, Hopkins,
Woods.

Voice—Bailey, Zambara.

Violin—Boughton, Maves.

Cello—Jelinek.

Harp—Calkins.

Woodwind Instruments—Cun-
ningham, Vagner.

Brass Instruments—Lee.

Percussion Instruments—Mercer.

Mus 195. **Band.** 1 hour each term.

Six hours maximum credit. Vagner.

Mus 196. **Orchestra.** 1 hour each term.

Six hours maximum credit. Boughton, Kratt.

Mus 197. **Chorus.** 1 hour each term.

Six hours maximum credit. Kratt, Risinger.

Mus 201, 202, 203. **Introduction to Music and Its Literature.** 3 hours each term.

Cultivation of understanding and intelligent enjoyment of music through a study of its elements, forms, and historical styles. Bittner, Kratt.

Mus 211, 212, 213. **Music Theory II.** 3 hours each term.

For description, see Mus 111, 112, 113. Prerequisite: Mus 111, 112, 113. Bittner, Dieterich, Green.

Mus 214, 215, 216. **Keyboard Harmony.** 1 hour each term.

Application of theoretical principles to the keyboard; exercises in modulation, transposition, and development of extempore playing. Prerequisite: Mus 111, 112, 113. Bittner, Dieterich, Green.

Mus 290. **Applied Music.** 1 to 4 hours any term.

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

UPPER-DIVISION COURSES

- Mus 311, 312, 313. **Counterpoint I.** 2 hours each term.
Practical application of contrapuntal forms, based largely upon the style of J. S. Bach, employing the form of the invention in two- and three-part writing. Prerequisite: Mus 211, 212, 213. Keller.
- Mus 314, 315, 316. **Harmonic and Structural Analysis.** 2 hours each term.
Thorough study of formal analysis, including the phrase unit, period, two- and three-part song forms, developed ternary forms, sonata, symphony, concerto, etc. Green.
- Mus 329, 330, 331. **Instrumentation and Arranging.** 2 hours each term.
A study of the instruments of the orchestra, together with practical study of the art of scoring for the various choirs and for full orchestra. Keller.
- Mus 338. **Music for Recreation.** 3 hours.
Materials and methods for developing musical leadership in community life. Organizing and developing music programs for recreational purposes. A service course for majors in recreation in the School of Health, Physical Education, and Recreation. Nye.
- Mus 354, 355, 356. **Band Arranging.** 2 hours each term.
Scoring for combinations of wind instruments, from quartets to full symphonic bands; special emphasis on arrangements for school bands of various degrees of advancement. Vagner.
- Mus 357. **Choral Arranging.** 2 hours.
Techniques in arranging for various types of choral groups. Prerequisite: Mus 211, 212, 213. Dieterich.
- Mus 360, 361, 362. **History of Music.** 3 hours each term.
A study of the development of music from primitive times to the present day. Cykler.
- Mus 390. **Applied Music.** 1 to 4 hours any term.
Junior year. Individual instruction in organ, piano, violin, cello, harp, voice, orchestral and band instruments. One or two lessons a week. Attendance at class sessions and recitals required. Prerequisite: Mus 290 or equivalent and qualifying examination for upper-division standing. For instructors, see Mus 190.
- Mus 394. **Chamber Music.** 1 hour each term.
Six hours maximum credit for applied-music majors; 3 hours maximum for all other students. Instruction in the art of performing in small ensembles; the established repertory of string or wind-instrument chamber music. Prerequisite: consent of instructor. Jelinek, staff.
- Mus 395. **Band.** 1 hour each term.
Six hours maximum credit. Vagner.
- Mus 396. **Orchestra.** 1 hour each term.
Six hours maximum credit. Boughton, Kratt.
- Mus 397. **Chorus.** 1 hour each term.
Six hours maximum credit. Kratt, Risinger.
- Mus 398. **Opera Workshop.** 1 hour each term.
Six hours maximum credit. Study, translation, analysis, rehearsal, and performance of opera, from the classics of the eighteenth century to modern works. Small works and excerpts from longer operas. Prerequisite: upper-division standing, consent of instructor. Zambara.
- Mus 405. **Reading and Conference.** Hours to be arranged.
- Mus 407. **Seminar.** (G) Hours to be arranged.

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

An intensive study of limited areas of music history, with emphasis on styles of particular composers, schools, and periods. Maximum undergraduate credit, 9 hours; maximum graduate credit, 9 hours. Prerequisite: Mus 360, 361, 362. Cykler, staff.

Mus 414, 415, 416. **Composition I.** (G) 2 hours each term.

Composition in the smaller forms for piano, voice, and other instruments. Prerequisite: Mus 311, 312, 313; Mus 314, 315, 316. Keller.

Mus 417, 418, 419. **Advanced Harmony.** 2 hours each term.

A study of the harmonic practices of the late nineteenth and twentieth centuries. Written work, analysis, and theoretical research. Prerequisite: Mus 211, 212, 213; Mus 311, 312, 313. Keller.

Mus 420, 421, 422. **Counterpoint II.** (G) 2 hours each term.

Writing of instrumental polyphony, based on the style of J. S. Bach. Study of invertible counterpoint and other contrapuntal techniques, with their application in the canon, two- and three-part invention, and fuggetta. Prerequisite: Mus 311, 312, 313. Keller.

Mus 428, 429, 430. **Introduction to Musicology.** (G) 3 hours each term.

Study of the methods of research in music, and application of research technique to particular musical problems. Prerequisite: Mus 360, 361, 362; consent of instructor. Cykler.

Mus 441, 442, 443. **Advanced Conducting.** (G) 2 or 3 hours each term.

The routine and technique of conducting. Problems of the symphony orchestra and choral groups. Score reading. Actual practice in conducting. Prerequisite: Mus 211, 212, 213 or equivalent; consent of instructor. Kratt, Risinger.

Mus 447. **Wind-Instrument Literature.** (G) 3 hours.

Survey of wind-instrument literature from the sixteenth through the twentieth century, with emphasis on interpretation. Vagner.

Mus 490. **Applied Music.** 1 to 4 hours any term.

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

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

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

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

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

Mus 507. **Seminar.** Hours to be arranged.

Composition.
Music Literature.
Music Theory.

Mus 511, 512, 513. **Applied Counterpoint.** 2 or 3 hours each term.

A practical study of the writing of the strict and free-style fugue, both vocal and instrumental. The application of larger contrapuntal forms; passacaglia and contrapuntal variations. Prerequisite: Mus 420, 421, 422. Keller.

Mus 514, 515, 516. **Composition II.** 2 hours each term.

A continuation of Mus 414, 415, 416, applying larger forms and instrumental combinations. Prerequisite: Mus 414, 415, 416; consent of instructor. Keller.

Mus 520, 521, 522. **Interpretation of Symphonic Literature.** 2 or 3 hours each term.

Study of symphonic literature. Presupposes proficiency in techniques of conducting, a major instrument, and knowledge of theory and history of music. Prerequisite: Mus 441, 442, 443 or equivalent; consent of instructor. Kratt.

- Mus 523, 524, 525. **Interpretation of Choral Literature.** 2 or 3 hours each term.
Detailed study of choral literature. Emphasis on the conducting problems of each individual work. Interpretation, tradition, etc. Prerequisite: Mus 441, 442, 443 or equivalent; consent of instructor. Kratt.
- Mus 526, 527, 528. **Composition III.** 2 hours each term.
Intensive work in the larger forms; variations, rondo, and sonata-allegro forms; symphonic form. For students who are candidates for advanced degrees in composition. Prerequisite: Mus 514, 515, 516. Keller.
- Mus 590. **Applied Music.** 1 to 4 hours any term.
Individual instruction in organ, piano, violin, voice, orchestral and band instruments at the graduate level. Bailey, Bittner, Boughton, Green, Hamilton, Hopkins, Jelinek, Lee, Vagner, Zambara.

COURSES OFFERED ONLY IN SUMMER SESSIONS

- Mus 434, 435, 436. **Applied Theory.** (G) 3 hours each term.

Music Education

UPPER-DIVISION COURSES

- MuE 317. **Music Education: Elementary School.** 3 hours.
Survey of methods and materials used in the teaching of vocal music in the public schools, with emphasis on supervision. Nye.
- MuE 318. **Music Education: Junior High School.** 3 hours.
Continuation of MuE 317. Nye.
- MuE 319. **Music Education: Senior High School.** 3 hours.
Continuation of MuE 318. Nye.
- MuE 320, 321, 322. **Instrumental Conducting.** 2 hours each term.
The principles of conducting and training instrumental organizations; practical experience in conducting campus organizations. Consideration given to problems of both elementary-school and secondary-school organizations. Vagner.
- MuE 323, 324, 325. **Choral Conducting.** 2 hours each term.
The principles of conducting and training choral organizations; practical experience in conducting campus organizations. Consideration given to problems of both elementary-school and secondary-school choral organizations. Risinger.
- MuE 332, 333, 334. **Violin and Viola.** 1 hour each term.
Class study of the violin and its place in the string family; rudiments of viola technique. Designed to prepare teachers for both the elementary and the secondary schools. 2 recitations. Boughton.
- MuE 335. **Cello and String Bass.** 1 hour.
Class study of the cello and its place in the string family; rudiments of string-bass technique. Designed to prepare teachers for both the elementary and the secondary schools. 2 recitations. Jelinek.
- MuE 340, 341, 342. **Brass Instruments.** 1 hour each term.
Class study of fundamental problems involved in the playing of the brass instruments. Designed to prepare teachers for both the elementary and the secondary schools. 2 recitations. Lee.
- MuE 343. **Percussion Instruments.** 1 hour.
Class study of fundamental problems involved in the playing of the percussion instruments. Designed to prepare teachers for both the elementary and the secondary schools. 2 recitations.

MuE 344. Flute. 1 hour.

Class study of fundamental problems involved in the playing of the flute. Designed to prepare teachers for both the elementary and the secondary schools. 2 recitations. Cunningham.

MuE 345. Double-Reed Instruments. 1 hour.

Class instruction in fundamental problems involved in the playing of the double-reed instruments. Designed to prepare teachers for both the elementary and the secondary schools. 2 recitations. Cunningham.

MuE 346. French Horn. 1 hour.

Class instruction in fundamental problems involved in the playing of the French horn. Designed to prepare teachers for both the elementary and secondary schools. 2 recitations. Lee.

MuE 347, 348, 349. Clarinet and Saxophone. 1 hour each term.

Class instruction in fundamental problems involved in the playing of the clarinet and saxophone. Designed to prepare teachers for both the elementary and the secondary schools. 2 recitations. Vagner, Cunningham.

MuE 351. Voice Class. 2 hours.

Study of the voice problems involved in the teaching of music in the elementary and secondary schools. Gustafson.

MuE 381, 382. Music for Elementary Teachers. 3 hours each term.

Music activities for the elementary teacher. An introductory sequence designed to build basic musicianship through experiences related to the teaching of music in the elementary-school classroom. The two terms must be taken in sequence. Required of majors in elementary education. Nye, Gustafson.

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

Experiences in teaching the various music activities in the elementary schools. Required of majors in elementary education. Prerequisite: MuE 380, 381 or consent of instructor. Nye, Gustafson.

MuE 405. Reading and Conference. Hours to be arranged.**MuE 407. Seminar.** (G) Hours to be arranged.**MuE 408. Special Teaching Methods.** 1-3 hours any term.

Parallels student teaching in elementary and secondary schools. Observations, reports, and conferences on materials and procedures used in music instruction. Prerequisite: consent of instructor. Instrumental: Vagner, staff. Vocal: Nye, staff.

Ed 415. Student Teaching: Grades 1-6. 3-15 hours (15 hours maximum credit).**Ed 416. Student Teaching: Junior and Senior High School.** 3-15 hours (15 hours maximum credit).**MuE 426. Supervision of the General Music Program.** (G) 3 hours.

The general music class in elementary and secondary schools; organization, content, and teaching procedures. For music-education students following the instrumental option. Nye, Risinger.

MuE 444. Choral Literature for Public Schools. (G) 2 hours.

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

MuE 445. String Literature for Public Schools. (G) 2 hours.

Repertory for orchestra and other stringed-instrument groups in elementary and secondary schools; problems of leadership, presentation, organization, and program planning. Prerequisite: consent of instructor. Boughton.

MuE 446. Wind-Instrument Literature for Public Schools. (G) 2 hours.

Repertory for bands and other wind-instrument groups in elementary and secondary schools; problems of leadership, presentation, organization, and program planning. Prerequisite: consent of instructor. Vagner, Lee.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) may be taken for graduate credit.

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

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

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

MuE 507. **Seminar.** Hours to be arranged.

MuE 532. **Problems in Music Education.** 3 hours.

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

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

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

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

Continuation of MuE 533. Nye.

MuE 535. **Music in the Senior High School.** 3 hours.

Curricula, organization, methods, and materials in all aspects of senior high-school music, both vocal and instrumental. Nye.

School of Nursing

JEAN E. BOYLE, M.N., Director of the School of Nursing.

THE UNIVERSITY OF OREGON has offered professional instruction in nursing in Portland since 1919; a degree curriculum was established in 1926. Until 1932 the program in nursing was administered through the Portland Division of the School of Sociology and the Portland School of Social Work. When the social-work program was discontinued in 1932, instruction in nursing was transferred to the University of Oregon Medical School, where it was offered through the Department of Nursing Education. A graduate program, leading to the 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 three professional programs: (1) a four-year basic program, leading to the B.S. degree, which prepares graduates for beginning positions in all fields of professional nursing, including public health nursing; (2) a program for registered nurses who are graduates of diploma nursing schools, leading to the B.S. degree; and (3) a graduate program, leading to the M.S. degree, to prepare qualified professional nurses for teaching positions in nursing.

The first year of the basic degree program is offered on the Eugene campus of the University of Oregon and by other accredited colleges and universities. The following three years of the basic program and all other nursing programs of the School of Nursing are offered on the campus of the University of Oregon Medical School in Portland. The School of Nursing utilizes the teaching resources of the Hospitals and Clinics of the Medical School and of the General Extension Division of the Oregon State System of Higher Education.

The programs of the School of Nursing are accredited by the National Accreditation Service and the Oregon State Board of Nursing; the school is a member of the Department of Baccalaureate and Higher Degree Programs of the National League for Nursing.

Detailed information concerning the School of Nursing is published in a separate catalog, copies of which will be furnished on request.

Department of Military and Air Science

HORACE D. NEELY, B.S., Colonel, U.S. Air Force; Head of Department; In Charge of Air Force R.O.T.C. Program.

LOUIS D. FARNSWORTH, JR., B.S., Colonel, U.S. Army; In Charge of Army R.O.T.C. Program.

THE DEPARTMENT OF MILITARY AND AIR SCIENCE is organized as a regular instructional division of the University. The department consists of a U. S. Army Instructor Group, Senior Division Reserve Officers' Training Corps, offering instruction in military science and tactics, and a unit of the Air Force Reserve Officers Training Corps, offering instruction in air science.

The mission of the Department of Military and Air Science is to select and prepare students, through a program of instruction at the University of Oregon, to serve as commissioned officers in the United States Army or the United States Air Force, and to promote a better understanding of problems and policies of national security. The program includes a two-year Basic Course and a two-year Advanced Course.

Basic Course. The two-year Basic Course is a lower-division (freshman and sophomore) requirement for all men students who are under 23 years of age on first enrollment in the University and who are citizens of the United States, unless excused. Student members of reserve or National Guard units are not exempt from the Basic Course requirement; students who have completed six months of active military service in the Armed Forces of the United States are exempt, but this exemption does not waive Basic Course requirements of the Army and Air Force for entry into the Advanced Course; veterans are urged to check with the Army or Air Force divisions of the department to determine their individual status in relation to the Advanced Course. As further grounds for exemption, consideration is given to physical incapacity and to conscientious objection to military service. The requirement may be waived or reduced for students who enter the University with advanced standing or prior R.O.T.C. training.

Advanced Course. The third and fourth years of military instruction, plus a six-week summer training period, constitute the Advanced Course. Completion of the Advanced Course and academic requirements for graduation qualifies the student for appointment as a commissioned reserve officer.

The summer training period is conducted at one of the regular installations of the Army or Air Force; the training provides application of theory and familiarization with weapons, operations, organizational methods, and installational activities. This training is normally taken in the summer between the junior and senior years.

Students enrolled in the Advanced Course are paid commutation in lieu of subsistence for a total period not to exceed 595 days (the current rate is 90 cents a day). All payments are in addition to benefits received by veterans under the G.I. Bill of Rights. Advanced Course students are issued all required textbooks and uniform. Students attending summer camp are rationed and quartered, are paid at the rate for enlisted men and airmen of the first grade, and receive a travel allowance of 5 cents a mile to and from camp.

Admission to Advanced Course. Selections for enrollment in the Advanced Course are made from among applicants who meet certain minimum requirements. For eligibility, the student must:

- (1) Be accepted by the University of Oregon as a regularly enrolled student.
- (2) Be selected for advanced training by R.O.T.C. and University officials, with the concurrence of the President of the University of Oregon.
- (3) Be able to complete all requirements for appointment as a second lieutenant before reaching 28 years of age. (If scheduled for Air Force flight training, the student must be able to complete all requirements for appointment as a reserve officer before reaching the age of 26 years, 6 months.)
- (4) Have successfully completed such survey or general screening tests as may be prescribed.
- (5) Have completed, or received a waiver of, Basic Course requirements.
- (6) Be a citizen of the United States.
- (7) Be physically qualified for appointment as a commissioned officer.
- (8) Execute a written agreement with the United States government to complete the Advanced Course, including attendance at summer camp, and to satisfy the service obligation after graduation.

Relation of R.O.T.C. to Selective Service. Enrollment in the R.O.T.C. does not waive the requirements 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 who can qualify as prospective candidates for the Advanced Course may be granted R.O.T.C. deferment after completion of one term of the Basic Course. R.O.T.C. deferment continues through the completion of the Advanced Course and of academic requirements for a bachelor's degree, provided the student remains in good standing. Students receiving R.O.T.C. deferment are required to satisfy their service obligation as commissioned officers after graduation and appointment.

Military Science and Tactics

Professor: COLONEL L. D. FARNSWORTH, JR.

Assistant Professors: LIEUTENANT COLONEL F. L. KNUDSEN, III, CAPTAIN W. E. BARTHOLDT, CAPTAIN J. M. HENCHMAN, CAPTAIN J. H. KLEIN, CAPTAIN D. F. PEARSON, CAPTAIN R. M. SWEET.

Administrative Specialists: MASTER SERGEANT F. B. McDERMOTT, MASTER SERGEANT T. E. KNIGHT.

Technical Specialists: MASTER SERGEANT J. N. BARNETT, MASTER SERGEANT H. G. BOARD, MASTER SERGEANT L. M. O'DONNELL.

THE MILITARY SCIENCE COURSE offered at the University prepares students for commissioned service in any branch of the Army. Every effort is made to assign graduates to the branch of the Army most closely related to the professional training of the individual and, as far as possible, in accordance with individual desires.

Students who have completed the Advanced Course, have received a baccalaureate degree from the University, and have qualified for designation as a Distinguished Military Graduate may apply for appointment as commissioned officers in the Regular Army.

LOWER-DIVISION COURSE

Mil 111, 112, 113. **Military Science I.** 1 hour each term.

School of the soldier and exercise of command; organization of the Army and the R.O.T.C.; American military history; individual weapons and marksmanship. 3 hours a week.

Mil 211, 212, 213. **Military Science II.** 1 hour each term.

School of the soldier and exercise of command; crew-served weapons and gunnery; map and aerial-photograph reading. 3 hours a week.

UPPER-DIVISION COURSES

Mil 311, 312, 313. **Military Science III.** 4 hours each term.

School of the soldier and exercise of command; small-unit tactics and communications; organization, function, and missions of the arms and services; military teaching methods; leadership. 5 hours a week.

Mil 411, 412, 413. **Military Science IV.** 4 hours each term.

School of the soldier and exercise of command; logistics, operations, military administration and personnel management, service orientation. 5 hours a week.

Air Science

Professor: COLONEL H. D. NEELY.

Assistant Professors: MAJOR E. C. ALFORD, MAJOR E. H. BEESON, CAPTAIN P. F. DANFORTH, CAPTAIN G. A. DOUGLASS, CAPTAIN T. H. SMITH.

Administrative Specialists: MASTER SERGEANT R. B. BURNETT, MASTER SERGEANT G. W. DUCKETT, STAFF SERGEANT R. I. FOGG, STAFF SERGEANT L. L. TURNER.

THE AIR SCIENCE COURSE consists of a broad generalized curriculum of air science studies oriented to an understanding of air power and an appreciation of its importance in modern civilization.

The Basic Course is devoted to study in the foundations of air power. This is a general survey of the constituent elements of air power, basic aeronautical science, the organization and operation of the military arm of the Federal government, and the development of aerial warfare, with emphasis on principles of war, concepts of employment of forces and changing weapon systems.

The Advanced Course is designed to qualify the student as an officer in the Air Force. Emphasis is placed on leadership, management, and advanced instruction in Air Force subjects. During the senior year all pilot trainees are given 36½ hours of flight instruction. During the fall and winter terms of the junior and senior years the air science instruction is a 2-hour course; but all juniors and seniors are also required to take certain specified University courses. Air science instruction in the spring term is a 4-hour-course.

LOWER-DIVISION COURSES

AS 111, 112, 113. **Air Science I.** 1 hour each term.

Foundations of air power; a general survey of air power, designed to provide the student with an understanding of the elements of air power and basic aeronautical science. Basic military training in leadership, drill, and exercise of command. Fall and winter, 1 hour a week; spring, 3 hours a week.

AS 211, 212, 213. **Air Science II.** 1 hour each term.

Foundations of air power; a survey of the development of aerial warfare, with emphasis on principles of war, concepts of employment of forces, and changing weapon systems. Targets, weapon systems, delivery vehicles, bases, and operation. Basic military training in leadership, drill, and exercise of command. Fall and winter, 3 hours a week; spring, 1 hour a week.

UPPER-DIVISION COURSES

AS 311, 312, 313. **Air Science III.** 2 hours each term, fall and winter ; 4 hours spring.

Air Force officer development. The knowledge and skills required of a junior officer in the Air Force, with special emphasis on staff organization and functions, communicating, instructing, problem-solving techniques, leadership principles and practice, and the military justice system. Field laboratory in leadership, drill, and exercise of command for cadet officers. 3 hours a week, fall and winter ; 5 hours a week, spring.

AS 411, 412, 413. **Air Science IV.** 2 hours each term, fall and winter ; 4 hours spring.

Study of global relations of special concern to Air Force officers, with attention to such aspects as weather, navigation, geography, and international relations. Field laboratory in leadership, drill, and exercise of command for cadet officers. 3 hours a week, fall and winter ; 5 hours a week, spring.

Graduate School

HARRY ALPERT, Ph.D., Dean of the Graduate School.

Graduate Council

HARRY ALPERT (chairman), C. B. BEALL, C. L. CONSTANCE, WALTER GORDON, C. W. HINTZ, P. B. JACOBSON, R. W. LEEPER, R. F. MIKESSELL, J. L. POWELL, W. D. RICHINS, J. W. SHERBURNE, P. O. SIGERSETH, L. R. SORENSON, KESTER SVENDSEN, W. L. YOUNGQUIST.

THE PRIMARY AIM in the discipline of undergraduate education is to prepare the student for cultured living and intelligent citizenship, and to acquaint him with techniques leading to a professional career. In graduate study the dominant aim is the development of the scholar, capable of original thinking 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 advanced study; it indicates that the student has shown both promise and performance in some field of independent scholarship.

At the University of Oregon, all study beyond the bachelor's degree, except strictly professional work in law, medicine, and dentistry, is administered through the Graduate School. The formulation of the graduate programs of individual students and the working out and direction of these programs are the responsibilities of the instructional department, subject, however, to the general rules and requirements of the Graduate School.

Research. Through its Office of Scientific and Scholarly Research, and with advice and assistance from the faculty Research Committee, the Graduate School administers the University's program for the encouragement and support of research by members of its faculty. The office of Scientific and Scholarly Research also supervises the programs of the Institute of Molecular Biology, the Institute of Theoretical Science, the Institute of International Studies and Overseas Administration, the Institute for Community Studies, and the Center for Social Service Training and Research (see pages 307-310).

Advanced Degrees

THE UNIVERSITY OF OREGON offers through the Graduate School work leading to advanced degrees in the liberal 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, medical sciences (at the Medical School in Portland), music, and nursing (at the School of Nursing in Portland). The degrees granted, and the fields in which programs of study leading to the respective degrees are currently offered, are listed below:

Doctor of Philosophy: anthropology, biology, chemistry, economics, education, English, geography, geology, history, mathematics, medical sciences, physical education, physics, political science, psychology, Romance languages, sociology, speech.

Doctor of Business Administration: business administration.

Doctor of Education: education.

*Master of Arts: anthropology, architecture, art, biology, business administration, chemistry, classical languages, economics, education, English, geography, geology, Germanic languages, health, physical education, and recreation, history, journalism, landscape architecture, mathematics, medical sciences, music, philosophy, physics, political science, psychology, Romance languages, sociology, speech, urban planning.

*Master of Science: architecture, art, biology, business administration, chemistry, dental sciences, economics, education, geography, geology, health, physical education, and recreation, journalism, landscape architecture, mathematics, medical sciences, music, nursing, physics, political science, psychology, sociology, speech, urban planning.

Master of Architecture: architecture, urban planning.

Master of Fine Arts: drawing and painting, sculpture, ceramics, weaving, imaginative writing.

Master of Business Administration: business administration.

Master of Education: education.

Master of Landscape Architecture: landscape architecture, urban planning.

Master of Music: composition, instrumental music, vocal music, music education.

General Regulations

THE UNIVERSITY recognizes two classes of graduate students: (1) students enrolled in the Graduate School for work toward a graduate degree, and (2) students enrolled for postbaccalaureate studies without intent to earn a graduate degree. Students of the first class follow programs organized in conformity with the rules stated below. Students of the second class enroll for the courses they desire, with the understanding that the University is under no implied obligation to accept credit earned toward a graduate degree. Whether a student is adequately prepared to enroll for any graduate course is determined by the instructor in charge and the head of the department concerned.

Admission. For the requirement and procedure governing admission to graduate standing, see page 62.

Preparation Required for Graduate Study. Preparation for a graduate major must be an undergraduate major in the same subject or a fair equivalent. Preparation for a graduate minor must be at least a one-year sequence of upper-division work in addition to foundational courses in the subject. Graduate credit may not be earned in courses for which the student does not show proper preparation by previous record or special examination.

Reservation of Graduate Credit. A senior student in the University who has satisfied all requirements for a bachelor's degree except 6 term hours of credit or less may, on petition to the Graduate School, be allowed to reserve credit in graduate courses for which he is registered for later application as part of his graduate program. The petition must be filed not later than two weeks after the beginning of the term in which the courses are taken.

* See also "Interdisciplinary Master's Programs," pages 309-310.

Study Program and Load. Graduate students beginning studies toward a degree are expected to work out, in tentative form at least, a complete program leading toward the degree desired. This program should allow sufficient time for completion of the thesis. Work on the thesis should be begun as early as possible.

The maximum study load is 16 term hours for a graduate student devoting all of his time to graduate study, and 12 term hours for a graduate assistant or fellow. Only under unusual circumstances may advisers approve study loads in excess of these limits.

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

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 only. Graduate students taking courses in the 400s are expected to do work of a higher order and broader scope than the work of undergraduate students in the same courses. 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.

Fees and Deposits. The regular fees and tuition for graduate students total \$90.00 per term. Students holding graduate or research assistantships or fellowships pay a special reduced fee of \$34.00 per term. Students enrolled in the Graduate School do not pay the nonresident fee. Graduate students registered for 6 term hours of work or less pay the regular part-time fee. Payment of graduate fees entitles the student to all services maintained by the University for the benefit of students.

Graduate students must make a \$10.00 deposit once each year at the time of first registration; the deposit is required as a protection to the University against the loss or damage of institutional property.

A special fee of \$20.00 is paid by all students who are granted the Ph.D., D.B.A., or D.Ed. degree to cover the cost of the reproduction of their theses on microfilm or microcards.

For more detailed information on fees and deposits, see pages 70-73.

Master of Arts and Master of Science

Credit Requirements. For the M.A. or M.S. degree, the student must complete an integrated program of study totaling not less than 45 term hours in courses approved for graduate credit. Integration may be achieved either through a departmental major or through a program of interdisciplinary studies (see pages 309-310).

For the master's degree with a departmental major, a minimum of two-thirds of the work (30 term hours) must be in the major. One-third (15 term hours) may be in: (1) a related minor; (2) appropriate service courses; (3) suitable complimentary courses in the major; or (4) some combination of (2) and (3). The student's program must include at least 30 term hours of work in subjects

having no direct connection with his thesis. A strong minor is recommended, especially for candidates for the M.S. degree.

Residence Requirement. The residence requirement for the M.A. and M.S. degrees (and all other master's degrees except the M.Ed.) is 30 term hours of work on the Eugene campus or at the Medical School, Dental School, or School of Nursing in Portland.

Transferred Credit. Credit earned at other accredited institutions, or in the General Extension Division of the Oregon State System of Higher Education, may be counted toward the master's degree under the following conditions: (1) the total of transferred credit may not exceed 15 term hours; (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 or B. Graduate credit is not allowed for correspondence courses. Credit granted for work done at another institution is tentative until validated by work in residence (see also "Time Limit" below).

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

Course Requirements. For the M.A. or M.S. degree with a departmental major, at least one year sequence in the 500-599 series (normally of seminar or research nature and carrying approximately 3 hours of credit per term) is required.

Time Limit. All work toward the master's degree (including work for which credit is transferred from another institution, thesis, and the final examination) must be completed within a period of seven years.

Qualifying Examination. To become a candidate for a master's degree, the student must pass a qualifying examination designed to test his basic training and his ability to pursue studies at the graduate level in his chosen field. This examination may be oral or written or both, and may cover any work done at another institution for which transfer of credit is requested. It is expected that the examination be taken before the student has completed 15 term hours of graduate work. If satisfactory knowledge and ability are demonstrated, the student is formally advanced to candidacy for the degree sought, subject to the approval of the dean of the Graduate School.

A graduate of the University who has taken the bachelor's degree with honors in the field of his graduate major is ordinarily exempt from the qualifying examination.

Thesis. In some fields, all candidates for the M.A. or M.S. degree are required to present a thesis; in others the thesis is optional.

If a thesis is presented, the student must file in the Graduate Office, not less than two weeks before the date of his final oral examination, six copies of a thesis abstract not exceeding 500 words in length. Three copies of the complete thesis must be distributed by the candidate to the members of his examining committee. At the conclusion of the final examination, these copies are filed unbound in the Graduate Office, and are bound at the expense of the University. Two copies are deposited in the Library, and one becomes the property of the major department. One of the Library copies is available for general circulation.

Full information concerning the prescribed style for theses may be obtained in the Graduate Office. Copies of theses will not be accepted by the Graduate School unless they meet satisfactory standards of form and style.

Students are not allowed to register for the final hours of Thesis unless it is very probable that the thesis will be completed within the term.

Final Examination. A final examination is required of every candidate for a master's degree. For students presenting a thesis, the examination is oral and of not less than two hours' duration. For students not presenting a thesis, an oral examination of not less than one hour and a written examination are required.

The examining committee consists of at least three members, nominated by the student's adviser, subject to the approval of the dean of the Graduate School, who is ex officio a member of all examining committees.

A student passing a final examination with exceptional merit may, by vote of the examining committee, be awarded a master's degree with honors.

Interdisciplinary Master's 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 interdisciplinary studies organized and administered through interdepartmental faculty committees.

Established interdisciplinary programs have been approved by the Graduate Council in the following fields: international studies, overseas administration, East Asian studies, juvenile correction, and teaching.

The requirements for a M.A. or M.S. degree in interdisciplinary studies are the same as those for the departmental master's degree, except those requirements relating to major or minor fields.

The program is supervised by the Committee on Interdisciplinary Studies, of which Dr. Lloyd R. Sorenson, associate professor of history, is chairman.

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 final high-school teacher certification is offered as one of the University's programs of interdisciplinary studies. Enrollment is open to any person eligible for admission to the Graduate School; the student must, however, have a reasonable background of undergraduate study in the fields in which he proposes to work, and must complete prerequisites for specific courses. The requirements for a master's degree in the program for teachers are as follows:

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

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

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

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

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

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

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

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

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

Master of Business Administration

The Master of Business Administration is a professional degree, granted on the completion of graduate programs designed for students interested in careers in managerial or other professional aspects of business. A qualifying examination is required before the student has earned more than 15 term hours of credit. The student's course work must include work in three areas of concentration; comprehensive written examinations covering these fields are required on the completion of the program. The student is also expected to enroll for graduate core studies designed to insure a broad background in managerial techniques and problems.

At the discretion of his advisory committee, the student either submits a thesis or prepares three business reports as a part of his regular class work; a final oral examination, based on the thesis or research reports, is required.

The residence requirement for the M.B.A. degree is the same as the requirement for the M.A. or M.S. degree (see page 298).

Master of Education

The Master of Education is a professional degree in the field of education. Programs of study leading to this degree are designed to provide graduate training for teachers in either the elementary or the secondary schools. At the discretion of the faculty of the School of Education, the candidate may be required to submit a report of a field study. A written comprehensive final examination in the student's field of specialization is required.

The residence requirement for the M.Ed. degree is 24 term hours of graduate work on the University campus or in the Portland summer session of the General Extension Division.

Master of Fine Arts

Work leading to the Master of Fine Arts degree is offered in five fields: drawing and painting, sculpture, ceramics, weaving, and imaginative writing.

The requirements for the M.F.A. degree in the visual arts include the completion of an extended creative project of professional character, instead of a thesis. After a qualifying examination, a minimum of three terms are devoted to the terminal creative project and related course work. Since, however, the degree is awarded primarily for creative achievement, there is considerable individual variation in the time required. The student chooses his project and related courses with the advice of a committee of members of the faculty of the School of Architecture and Allied Arts.

Requirements for the M.F.A. degree in imaginative writing include: (a) 22 term hours of graduate work in English and American literature; (2) 32 hours

of work in the history and criticism of art, music, and drama and in aesthetics; (3) a reading knowledge, at the literary level, of one foreign language; (4) the production of a sustained piece of imaginative writing of high literary merit as a "thesis"; and (5) examination on the theory and history of the genre of the candidate's thesis.

Master of Architecture

The requirements for the degree of Master of Architecture are listed on pages 197-198.

Master of Landscape Architecture

The requirements for the degree of Master of Landscape Architecture are listed on pages 197-198.

Master of Music

Work leading to the degree of Master of Music is offered in the following fields: composition, theory, instrumental music, vocal music, and music education. To be admitted to candidacy for the M.Mus. degree in the field of composition, the student must demonstrate the requisite skills and abilities for creative work, and must submit two original compositions. To be admitted to candidacy in the field of instrumental or vocal music, the student must demonstrate the requisite skills and abilities for professional performance, and must submit a complete repertory. The student of vocal music must demonstrate a reading knowledge of at least two foreign languages and satisfactory diction in a third. To be admitted to candidacy in the field of theory, the student must demonstrate adequate preparation in theory, counterpoint, advanced harmony, and form and analysis. Students in the field of instrumental music education must demonstrate a working knowledge of all band and orchestra instruments; vocal music-education students must demonstrate functional facility in voice and piano. The "thesis" for the M.Mus degree may be a research paper, an original composition in the large form, or a public instrumental or vocal performance.

Doctor of Philosophy

General Requirements. 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 he has satisfied the minimum requirements of residence and study.

A student whose academic work, both undergraduate and graduate, has been primarily at the University of Oregon will ordinarily be required to take graduate work at another institution before being accepted as a candidate for the Ph.D. degree. Exceptions to this rule may be made by the dean of the Graduate School upon recommendation of the major school or department.

Qualifying Examination. Early in his doctoral program, the student takes a qualifying examination as prescribed by the major school or department. This examination may cover any work done at another institution for which transferred credit is requested. An exceptionally good performance on the final examinations for the master's degree may be accepted as satisfying the qualifying-examination requirement.

Doctoral Program. The student plans his doctoral program with the assistance of his major adviser. As soon as he has passed his qualifying examination, his program is presented for approval to an advisory committee, appointed by the dean of the Graduate School. The committee determines the amount of work

the student is expected to do outside his major school or department, in light of his background and objectives.

Residence. For the Ph.D. degree, at least three years of full-time work beyond the bachelor's degree are required, of which at least one year (usually the last) must be spent in residence on the Eugene campus of the University of Oregon or at the University of Oregon Medical School in Portland.

Comprehensive Examinations. The student working toward the Ph.D. degree must pass a group of comprehensive preliminary examinations (oral or written or both) not less than one academic year before he expects to complete work for the degree. These examinations are expected to cover all areas of concentration and may cover any supporting area if this seems desirable to the advisory committee. Advancement to candidacy is contingent on passing these examinations. The student is not eligible to take the examinations until he has satisfied the language requirement and has taken substantially all the course work for the degree.

Language Requirements. For the Ph.D. degree, a student must demonstrate by formal examinations a reading knowledge of two languages other than his native language. The candidate's advisory committee, with the approval of the graduate dean, will certify the two languages most appropriate to his program. Examinations in these two languages must be passed before the comprehensive examination may be taken.

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 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 form. It is expected that the preparation of an acceptable thesis will require at least the greater part of an academic year.

Three copies of the thesis, approved by the adviser, must be distributed by the student, unbound, to the members of his examining committee not less than four weeks before the time set for his final examination; at the conclusion of the examination, these copies with required revisions, if any, are deposited in the Graduate Office. Copies of the thesis will not be accepted by the Graduate Office unless they meet satisfactory standards of form and style. Seven copies of an abstract of the approved thesis (not longer than 600 words) must be filed in the Graduate Office four weeks before the examination.

Final Examination. The final examination for the Ph.D. degree may be written in part, but must include an oral examination, usually of three hours' duration. The oral examination is open to all members of the faculty and to advanced graduate students. The date of the oral examination is publicly announced at least one week before it is held. The examining committee consists of the candidate's advisory committee and other members, including at least one not directly connected with the major department. The committee is nominated by the major department or school, subject to the approval of the dean of the Graduate School.

In the oral examination the candidate is expected to defend his thesis and to show a satisfactory knowledge of his major field. The written examination, if given, is expected to cover aspects of the major field with which the thesis is not directly concerned.

Doctor of Business Administration

The requirements for the degree of Doctor of Business Administration are listed on pages 215-216.

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. Programs of study are offered with primary areas of specialization in general administration and supervision, curriculum and instruction, elementary education, secondary education, school psychological services, music education, and health and physical education. 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 noneducation courses related to his program. There is no specific foreign language requirement for the D.Ed. degree; however, a student whose fields of training or whose research project calls for a reading knowledge of one or more foreign languages may be required to demonstrate the needed linguistic ability. With the exceptions indicated in this section, the general requirements with respect to 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.

Admission to the D.Ed. Program. A student seeking admission to the program leading to the D.Ed. degree should obtain from the School of Education a mimeographed statement of the basic requirements for doctoral degrees in education and an application form for admission to the degree program. The student should then seek the assistance of a member of the faculty to aid him in developing a tentative doctoral program. As soon as he has passed his qualifying examination, he may meet with the Doctoral Admissions Committee of the School of Education. This committee will consider his qualifications for admission to the program and determine the nature and extent of work to be completed for the 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 is based on proficiency shown in the 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 approximately two-thirds of the total course work in his program, (3) obtained approval of his dissertation proposal by his advisory committee, and (4) received the consent of his adviser to take the examinations.

Assistantships, Scholarships, Fellowships

TEACHING AND RESEARCH assistantships, scholarships, and fellowships are awarded annually to graduates of accredited universities and colleges who have superior records in their undergraduate work. All persons holding these positions are expected to register in the Graduate School, and to become candidates for advanced degrees. Applications should be made before March 1. Application blanks are furnished on request by the Graduate School.

The University will welcome the submission of Graduate Record Examination scores by students applying for assistantships, scholarships, or fellowships. For information about this examination, write to Educational Testing Service, Princeton, N.J., or 4640 Hollywood Blvd., Los Angeles 27, California.

Graduate Assistantships. Graduate assistants render services amounting to not more than 15 hours a week—reading papers, handling laboratory and quiz sections, etc. They are permitted to enroll for a maximum of 12 term hours of course work. Stipends range from \$1,100 to \$1,800 a year. Graduate assistants pay a special reduced fee of \$34 per term.

Research Assistantships. Research assistants aid faculty members in carrying on research projects. Compensation, fees, and enrollment limitations are the same as for graduate assistants.

Teaching and Research Fellowships. Fellows are normally candidates for the doctorate, with at least one year of superior work toward that degree completed. Teaching fellows give instructional assistance in their department. The duties of research fellows are similar to the duties of research assistants; fellows are, however, expected to assume greater responsibility in connection with the research projects to which they are assigned. Fellows are allowed to enroll for a maximum of 12 term hours of course work. Stipends range from \$1,400 to \$2,000 a year. Fellows pay a special reduced fee of \$34 per term.

State Scholarships. A limited number of scholarships covering tuition and laboratory and course fees are available to graduate students. All applicants, to be eligible, must be in need of financial assistance, and must show evidence of superior scholarship. Application should be made to the chairman of the Committee on Scholarships and Financial Aid, on official blanks furnished by his office, and must be filed before March 1.

Other Scholarships and Fellowships. Other scholarships and fellowships available to University graduate students are listed on pages 82 ff. See especially: Robert A. Booth Fellowship in Public Service, Thomas Condon Fellowship in Paleontology, Maud Densmore Music Fellowship, Ion Lewis Scholarship in Architecture, Fred Meyer Foundation Research Fellowship, Arthur P. Pratt Scholarship, Price Waterhouse Scholarship, F. G. G. Schmidt Fellowship in German, Zimmerman Scholarship.

Special Fellowship Programs. Graduate students at the University of Oregon are eligible for fellowship awards granted by the National Science Foundation, the Woodrow Wilson Foundation, and other national agencies, and for fellowships awarded under the National Defense Education Act. For 1960-61 the University has awarded forty-eight NDEA fellowships in the following fields: contemporary literature, British and American, five; geology, five; history, nine; political science, eight; Romance languages, nine; sociology, eight; elementary education, four. Information concerning these programs may be obtained in the Graduate Office.

Loans. Graduate students are eligible for loans from University loan funds (see pages 81-82) and from funds available under the National Defense Education Act of 1958.

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, and through the General Extension Division of the Oregon State System of Higher Education.

Medical School. The Medical School offers graduate instruction leading to the M.A., M.S., and Ph.D. degrees in the medical sciences (anatomy, bacteriology,

biochemistry, pathology, pharmacology, and physiology). In addition to opportunities for graduate study and research in the preclinical departments, arrangements may be made for special study of clinical problems by experimental methods, through the cooperation of the preclinical and clinical departments; in some cases, students undertaking such studies may qualify for graduate degrees. 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, oral pathology, 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.S. degree to prepare 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.

Portland Extension Center. Part of the requirements for a master's degree from the University may be completed in the Portland Extension Center of the State System of Higher Education, in fields where adequate course offerings are available for an integrated program. The maximum amount of work which may be completed in the Portland Center toward the departmental M.A. or M.S. degree is 15 term hours.

Summer Sessions

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

AN EIGHT-WEEK SUMMER SESSION supplements the regular sessions of the University. The summer program includes both undergraduate and graduate courses; special attention is given to the needs of teachers in the public schools.

Formal admission to the University is not required for enrollment in summer courses. However, credit for summer work will not be counted toward a degree from the University until the student qualifies for admission in accordance with regular procedures (see page 60 ff.).

A high-school graduate who does not qualify for admission to freshman standing on the basis of his high-school grade average or his score on a standard college aptitude test may qualify by demonstrating his ability to do University work through the successful completion of a full load of study in the summer session (see page 60).

The 1960 summer session opens on June 20 and closes on August 12. For the 1961 summer calendar, see page 9.

Detailed announcements of summer courses are published in a special Summer Session Catalog, issued annually in March. Copies will be furnished on request to the director of summer sessions.

Institute of Molecular Biology

AARON NOVICK, Ph.D., Director of the Institute of Molecular Biology; Professor of Biology.

FRANKLIN W. STAHL, Ph.D., Associate Professor of Biology.

THE INSTITUTE OF MOLECULAR BIOLOGY conducts research and provides research instruction in areas of biology where phenomena can be understood in terms of the structure of molecules, such as nucleic acids and proteins. Since research in molecular biology may involve several scientific disciplines, members of the staff of the Institute hold joint appointments in chemistry, biology, or physics.

Current research projects in the Institute are concerned with such topics as genetic recombination and mutation in bacteria and bacterial viruses, the genetic control of protein synthesis, the regulation of the rate of protein formation, and some other aspects of the mechanisms of protein synthesis.

The Institute sponsors seminars, special lectures, visiting professorships, and instruction in research, but does not conduct a formal teaching program. Members of the Institute staff offer courses in their fields of competence through the departments with which they are affiliated.

Research instruction is offered at both the graduate and postdoctoral levels. With the approval of the department concerned, graduate students in biology, chemistry, or physics may do research in the Institute as a part of their programs leading to graduate degrees. Research advisers may be either members of the Institute staff or members of the departmental faculties interested in molecular biology. The Institute provides facilities and a limited number of fellowships for student research.

Institute of Theoretical Science

TERRELL L. HILL, Ph.D., Research Associate; Professor of Chemistry.
JOHN L. POWELL, Ph.D., Research Associate; Professor of Physics.

THE INSTITUTE OF THEORETICAL SCIENCE provides a center for research leading to the understanding of natural processes in terms of logically constructed conceptual systems, and to the synthesis of the specialized research of physicists, chemists, biologists, and other natural scientists.

Theoretical science may be defined to include: (1) the discovery and description of the fundamental laws which govern the behavior of the elementary constituents of natural systems; (2) the theoretical description of complex systems, arising through the mutual interaction of a large number of simple systems of which we have a basic theoretical understanding; and (3) the utilization of the conceptual and analytic tools of the theoretical scientist in applied research.

Institute of International Studies and Overseas Administration

RAYMOND F. MIKESSELL, Ph.D., Acting Director of the Institute of International Studies and Overseas Administration; W. E. Miner Professor of Economics.

CHARLES P. SCHLEICHER, Ph.D., Acting Deputy Director of the Institute of International Studies and Overseas Administration; Professor of Political Science.

THE INSTITUTE OF INTERNATIONAL STUDIES AND OVERSEAS ADMINISTRATION is responsible for the development and coordination of University activities in the field of international affairs. Its primary functions are: (1) to develop programs of research, teaching, and administration, in cooperation with private and governmental agencies, and to arrange for the conduct of these programs by University personnel, both on the campus and overseas; (2) to assist the Committee on International Studies and Overseas Administration in the administration of graduate study in international affairs and to provide research training for graduate students; and (3) to serve as the University's center for other faculty and student activities concerned with international affairs.

The Institute sponsors and supervises research related to graduate theses and dissertations; in the development of research conducted by members of its staff, it seeks to organize these studies to utilize collaborative assistance by graduate students and to provide substantial training in research methods and techniques. It also conducts graduate seminars to provide for students and members of the faculty an opportunity to share ideas and experiences with visiting lecturers, special consultants, and among themselves. In addition to its campus programs, the Institute arranges opportunities, for advanced students, for overseas study and administrative experience on foreign projects for periods of six months to a year.

The Institute conducts the University's annual Summer World Affairs Program, designed especially for teachers and community leaders, and the program of the Oregon High School International Relations League, and assists in the student-sponsored World Affairs Week and the Model United Nations program. It also assists in such community activities as the Citizen Consultation Program of the National Commission for UNESCO and the Great Decisions Program of the Foreign Policy Association.

Institute for Community Studies

DONALD E. TOPE, Ph.D., Acting Director of the Institute for Community Studies ;
Professor of Education.

ROBERT E. AGGER, Ph.D., Acting Deputy Director of the Institute for Community
Studies ; Associate Professor of Political Science.

JOHN M. FOSKETT, Ph.D., Acting Deputy Director of the Institute for Community
Studies ; Professor of Sociology.

THE INSTITUTE FOR COMMUNITY STUDIES conducts and encourages basic research designed to explore the structure of American communities as social and political systems and to relate selected forms of behavior to such systems. Emphasis is placed on the policy-formulation processes in such areas as education, voluntary associations, local government, health, business association, etc.

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 Institute conducts seminars for the discussion of matters of common interest to members of its staff and graduate students, including the background of research and research methods in community analysis, problems in design of cooperative research projects, and reports on research in progress.

Center for Social Service Training and Research

PHIL H. SCHOGGEN, Ph.D., Co-Director of the Center for Social Service Training and Research; Assistant Professor of Psychology.

ROY E. BUEHLER, Ph.D., Co-Director of the Center for Social Service Training and Research; Associate Professor of Psychology.

THE CENTER FOR SOCIAL SERVICE TRAINING AND RESEARCH administers programs of graduate instruction and research conducted by the University in the fields of juvenile correction, rehabilitation counseling, and related areas.

Rehabilitation Counseling. The program in rehabilitation counseling includes a two-year program of graduate work leading to a master's degree. The program, offered through the cooperation of the Department of Psychology and the School of Education, is designed to provide the student with a well-rounded background for professional employment as a counselor in a state or private agency concerned with the problems of physically or mentally handicapped persons. Courses in psychology, education, and sociology are supplemented by study of medical, legal, and other aspects of rehabilitation and by supervised experience in rehabilitation agencies. Financial assistance to full-time students in this program is available through traineeships provided by the Office of Vocational Rehabilitation of the U. S. Department of Health, Education, and Welfare.

Juvenile Correction. In the field of juvenile correction, the University offers, through the Center for Social Service Training and Research, a two-year interdisciplinary program of graduate study, leading to the master's degree, to prepare students for professional careers in the prevention and correction of juvenile delinquency in a variety of institutions and agencies. The Center also sponsors, in cooperation with the Oregon Juvenile Judges Association, an annual summer school on juvenile delinquency for the personnel of juvenile correctional programs. The research program includes studies of the etiology, prevention, and correction of juvenile behavioral problems.

General Extension Division

JAMES W. SHERBURNE, Ph.D., Dean, General Extension Division.

VIRON A. MOORE, Ed.D., Assistant Dean, General Extension Division; Director, Department of State-Wide Services.

JAMES C. CAUGHLAN, Ph.D., Assistant Dean, General Extension Division; Director, Portland Extension Center and Portland Summer Session.

DONALD R. LARSON, B.A., Assistant to the Dean, General Extension Division; Director, Information Services.

CLARK P. SPURLOCK, D.Ed., Associate Director, Portland Extension Center and Portland Summer Session.

JAMES M. MORRIS, Ed.D., Director, Department of Educational Radio and Television; Program Manager.

W. CURTIS REID, Ph.D., Director, Department of Visual Instruction.

HOWARD IMPECOVEN, Ed.D., Registrar, General Extension Division.

WILLIAM T. LEMMAN, JR., B.S., Business Manager, General Extension Division.

JEAN P. BLACK, Ph.D., Librarian, General Extension Division.

THE GENERAL EXTENSION DIVISION is an interinstitutional agency providing extension services based on the educational resources of all the institutions in the Oregon State System of Higher Education. The headquarters of the Extension Division are located at 1533 S.W. Park Ave., Portland 1, Oregon.

State-Wide Services. The Department of State-Wide Services offers correspondence courses and evening extension classes and arranges conferences, workshops, and consultant services for business, educational, and other groups. Evening classes may be organized in any Oregon community, if satisfactory facilities are provided and sufficient enrollment is guaranteed to cover operating costs. Offices are maintained in Eugene, Corvallis, Ashland, Monmouth, La Grande, and Salem.

Educational Radio and Television. Radio Station KOAC and Television Station KOAC-TV, educational stations owned by the state of Oregon, are operated by the State System of Higher Education; the General Extension Division manages the program service through the Department of Educational Radio and Television. KOAC-TV broadcasts on Channel 7 from a transmitter located near Corvallis; programs are broadcast from studios on the University of Oregon and Oregon State College campuses. Radio Station KOAC broadcasts on a frequency of 550 kilocycles from Corvallis; studios are located in Corvallis, Eugene, Salem, and Portland. In addition to radio and television broadcasting, the department provides a "Tapes for Teaching" library as a service to the schools of the state.

Portland Extension Center. Evening classes, providing instruction in selected courses of the institutions of the State System, are offered in the Portland Extension Center. The instruction includes both undergraduate and graduate courses, in which credit may be earned toward degrees from System institutions. The Extension Center faculty is, for the most part, drawn from the faculties of the several institutions.

Portland Summer Session. A full program of undergraduate and graduate work, including special programs for teachers and school administrators, is offered

in the Portland summer session, conducted for the several institutions of the State System under the direction of the General Extension Division.

International Affairs. Through the Institute of International Affairs, the General Extension Division, in cooperation with other agencies, administers various programs of adult education in the field of international relations. The institute also serves as a distribution center for publications of the U. S. Department of State and UNESCO. Its headquarters are in Eugene.

Visual Instruction. The Department of Visual Instruction, with headquarters on the Oregon State College campus in Corvallis, maintains a library of glass and film slides, microscope slides, and motion-picture films for use by schools, community clubs, and other organizations in the state. The department is maintained jointly by the General Extension Division and the Federal Cooperative Extension Service.

Summary of Enrollment and Degrees Granted 1958-59

ENROLLMENT BY CLASS AND MAJOR, REGULAR SESSIONS, 1958-59

Division	Sp.	Fr.	So.	Jr.	Sr.	Gr.	Total
College of Liberal Arts:							
Lower Division.....	195	1,510	1,374	.....	.....	.....	3,079
Anthropology.....	8	.....	21	29
Basic Liberal Studies.....	2	4	.....	6
Biology.....	15	13	36	64
Chemistry.....	9	15	46	70
Economics.....	12	13	24	49
English.....	34	33	37	104
Far Eastern Studies.....	2	7	.....	9
Foreign Languages.....	20	17	27	64
General Arts & Letters.....	4	3	.....	7
General Science.....	12	24	.....	36
General Social Science.....	12	26	.....	38
Geography.....	10	3	8	21
Geology.....	18	13	25	56
History.....	56	55	38	149
Mathematics.....	23	28	41	92
Philosophy.....	4	4	6	14
Physics.....	16	13	32	61
Political Science.....	30	24	34	88
Predentistry.....	1	53	45	26	.....	.....	125
Prelaw.....	1	87	62	19	4	.....	173
Premedicine.....	8	101	76	33	12	9	239
Prenursing.....	56	33	4	.....	.....	93
Psychology.....	20	16	73	109
Sociology.....	36	27	17	80
Speech.....	35	20	20	75
Total, College of Liberal Arts.....	205	1,807	1,590	460	374	494	4,930
School of Architecture & Allied Arts.....	87	154	53	294
School of Business Administration.....	230	216	70	516
School of Education.....	152	132	151	435
School of Health & Physical Education.....	3	72	80	38	37	74	304
School of Journalism.....	34	34	16	84
School of Law.....	18	84	102
School of Music.....	20	20	26	74
General Studies.....	56	56
Total, Eugene campus.....	208	1,879	1,670	1,029	985	1,024	6,795
Dental School (Portland).....	*336
Medical School (Portland).....	*790
Total, University of Oregon.....	7,921

* Enrollment at the Dental School and Medical School is for the full school year, all sessions.

ENROLLMENT BY PROFESSIONAL OBJECTIVE, EUGENE CAMPUS,
REGULAR SESSIONS, 1958-59

Field	Men	Women	Total
Liberal arts, general studies.....	1,730	1,084	2,814
Architecture & allied arts.....	457	142	599
Business administration.....	928	185	1,113
Dentistry.....	122	3	125
Education.....	283	586	869
Health & physical education.....	196	108	304
Journalism.....	114	78	192
Law.....	259	16	675
Medicine.....	210	29	239
Music.....	78	94	172
Nursing.....	.....	93	93
Total.....	4,377	2,418	6,795

ENROLLMENT BY SEX, ALL SESSIONS, 1958-59

Session	Men	Women	Total
Summer Session at Eugene, 1958.....	1,329	995	2,324
Fall term at Eugene, 1958-59.....	3,964	2,231	6,195
Winter term at Eugene, 1958-59.....	3,713	2,104	5,817
Spring term at Eugene, 1958-59.....	3,503	2,004	5,507
Net total, regular sessions at Eugene, 1958-59.....	4,377	2,418	6,795
Net all sessions, Dental School at Portland, 1958-59.....	298	38	336
Net all sessions, Medical School at Portland, 1958-59.....	306	484	790
Net total, all sessions, University of Oregon, 1958-59.....	5,881	3,751	9,632

ENROLLMENT IN GENERAL EXTENSION DIVISION

(July 1, 1958 - June 30, 1959)

Classes	Under-graduate	Graduate	Total
Extension classes:			
Portland Extension Center.....	5,344	2,455	7,799
State-wide classes (75 centers).....	3,735	2,856	6,591
Total, extension classes.....	9,079	5,311	14,390
Correspondence study:			
New registrations.....	3,049	.....	3,049
Old registrations.....	2,383	.....	2,383
Total, correspondence study.....	5,432	.....	.....
Total, General Extension Division.....	14,511	5,311	19,822

UNIVERSITY OF OREGON

SUMMARY OF DEGREES GRANTED, 1958-59

Advanced degrees:

Doctor of Philosophy.....	32
Doctor of Dental Medicine.....	68
Doctor of Education.....	10
Doctor of Jurisprudence.....	1
Doctor of Medicine.....	66
Master of Arts.....	51
Master of Science.....	116
Master of Architecture.....	2
Master of Business Administration.....	4
Master of Education.....	146
Master of Fine Arts.....	4
Master of Music.....	10
Total, advanced degrees.....	510

Bachelor's degrees:

Bachelor of Arts.....	231
Bachelor of Science.....	732
Bachelor of Architecture.....	13
Bachelor of Business Administration.....	86
Bachelor of Education.....	14
Bachelor of Interior Architecture.....	2
Bachelor of Landscape Architecture.....	1
Bachelor of Laws.....	29
Bachelor of Music.....	12
Total, bachelor's degrees.....	1,120
Total degrees granted.....	1,630

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