

**UNIVERSITY
OF OREGON
BULLETIN**

**University
of Oregon**

EUGENE • OREGON

**CATALOG
ISSUE
1954-55**

OREGON STATE SYSTEM OF HIGHER EDUCATION

UNIVERSITY OF OREGON BULLETIN

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University of Oregon
CATALOG
1954-55



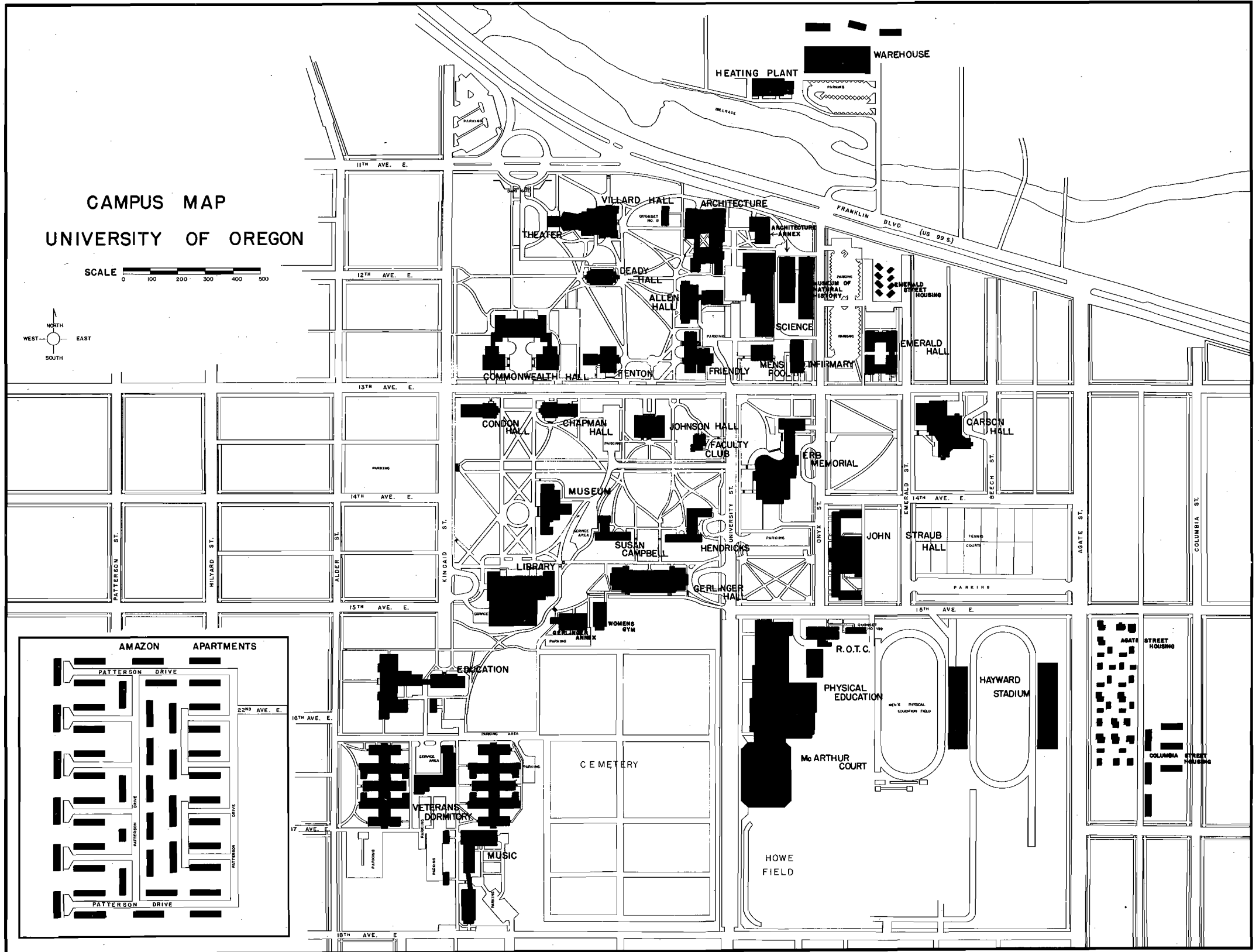
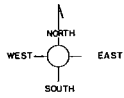
Eugene, Oregon

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CAMPUS MAP UNIVERSITY OF OREGON



State Board of Higher Education*

	<i>Term Expires</i>
EDGAR W. SMITH, Portland.....	1955
A. S. GRANT, Baker.....	1956
CHERYL S. MACNAUGHTON, Portland.....	1957
GEORGE F. CHAMBERS, Salem.....	1957
HERMAN OLIVER, John Day.....	1958
LEIF S. FINSETH, Dallas.....	1958
R. E. KLEINSORGE, Silverton.....	1959
WILLIAM E. WALSH, Coos Bay.....	1959
HENRY F. CABELL, Portland.....	1960

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HENRY F. CABELL.....	Vice-President

Executive Committee

President, Vice-President, and G. F. CHAMBERS

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JOHN R. RICHARDS, Ph.D., Secretary of Board

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

The institutions of the State System of Higher Education are the University of Oregon at Eugene, Oregon State College at Corvallis, Oregon College of Education at Monmouth, Southern Oregon College of Education at Ashland, and Eastern Oregon College of Education at La Grande. The Portland State Extension Center, the University of Oregon Medical School, and the University Oregon Dental School are located Portland.

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

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

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

Oregon State System of Higher Education

CHARLES D. BYRNE, Ed.D., Chancellor

FREDERICK M. HUNTER, Ed.D., LL.D., Honorary Chancellor

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

AUGUST L. STRAND, Ph.D.
President, Oregon State College

DAVID W. E. BAIRD, M.D., LL.D.
Dean, University of Oregon Medical School

ROBEN J. MAASKE, Ph.D.
President, Oregon College of Education

ELMO N. STEVENSON, Ed.D.
President, Southern Oregon College of
Education

FRANK B. BENNETT, Ed.D.
President, Eastern Oregon College of
Education

J. F. CRAMER, Ed.D.
Dean, General Extension Division

Office of the Chancellor

JOHN R. RICHARDS, Ph.D. Vice-Chancellor
RICHARD L. COLLINS, M.A., C.P.A. Budget Director
TRAVIS CROSS, B.A. Assistant to the Chancellor
and Director of Information

Office of the Comptroller

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JOHN L. WATSON, B.B.A., C.P.A. Assistant Comptroller
HAROLD ROWLEY, B.S. Chief Accountant
WILLIAM R. STOVALL Assistant Chief Accountant
THOMAS F. ADAMS, B.S. Administrative Assistant
JOHN I. HUNDERUP, M.B.A., C.P.A. Administrative Assistant

General Extension Division

PHILIP G. HOFFMAN, Ph.D. Vice-Dean of General Extension
VIRON A. MOORE, Ed.D. Assistant Dean of General Extension
JAMES C. CAUGHLAN, Ph.D. Assistant Dean of General Extension

Libraries

WILLIAM HUGH CARLSON, M.A. Director of Libraries
BESSIE GWYNETH TRESSLER, A.B., B.S. in L.S. Head of Orders Department
IMOGENE CUSAC, B.A., B.A. in L.S. Cataloger for Union Catalog

High School-College Relations Committee

E. DEAN ANDERSON, M.A. Executive Secretary

* Appointment effective March 15, 1954. Victor P. Morris served as acting president from Sept. 15, 1953 to March 15, 1954.

Academic Calendar

SEPTEMBER 1954

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
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OCTOBER 1954

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NOVEMBER 1954

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DECEMBER 1954

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JANUARY 1955

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FEBRUARY 1955

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27	28					

Fall Term, 1954-55

September 19-25, *Sunday to Saturday*.....New-
Student and Registration Week

September 25, *Saturday*.....Last day for
payment of fees without penalty

September 27, *Monday*.....Classes begin

October 11, *Monday*.....Last day for
registration or for change of program

October 16, *Saturday*.....Portland football
game, no classes

November 25-28, *Thursday to*
Sunday..... Thanksgiving vacation

November 29, *Monday*....Winter-term advising
conferences

December 13-18, *Monday to Saturday*.....Fall
term examinations

Winter Term, 1954-55

January 3, *Monday*.....Registration; last day
for payment of fees without penalty

January 4, *Tuesday*.....Classes begin

January 17, *Monday*.....Last day for
registration or for change of program

February 28, *Monday*.....Spring-term advising
conferences

March 14-19, *Monday to*
Saturday.....Winter-term examinations

University of Oregon

MARCH 1955

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APRIL 1955

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MAY 1955

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JUNE 1955

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JULY 1955

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AUGUST 1955

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14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Spring Term, 1954-55

March 28, *Monday*.....Registration; last day
for payment of fees without penalty

March 29, *Tuesday*.....Classes begin

April 11, *Monday*.....Last day for
registration or for change of program

May 30, *Monday*.....Memorial Day, holiday

June 6-11, *Monday to
Saturday*.....Spring-term examinations

June 11, *Saturday*Alumni Day

June 12, *Sunday*.....Baccalaureate and
Commencement Day

Summer Session, 1955

June 20, *Monday*.....Registration

June 21, *Tuesday*.....Classes begin

July 4, *Monday*.....Independence Day, holiday

August 11-12, *Thursday and
Friday*.....Final examinations

Fall Term, 1955-56

September 18-24, *Sunday to Saturday*.....New-
Student and Registration Week

September 26, *Monday*.....Classes begin

University of Oregon

Officers of Administration

CHARLES D. BYRNE, Ed.D.....Chancellor, State System of Higher Education
O. MEREDITH WILSON, Ph.D.....President, University of Oregon

DAVID W. E. BAIRD, M.D., LL.D.....Dean, Medical School
ARTHUR A. ESSLINGER, Ph.D.....Dean, School of Health and Physical Education
ORLANDO J. HOLLIS, B.S., J.D.....Dean, School of Law
PAUL B. JACOBSON, Ph.D...Dean, School of Education ; Director, Summer Sessions
ELDON L. JOHNSON, Ph.D.....Dean, College of Liberal Arts and Graduate School
THEODORE KRATT, Mus.M., Mus.D.....Dean, School of Music
SIDNEY W. LITTLE, M.Arch.....Dean, School of Architecture and Allied Arts
VICTOR P. MORRIS, Ph.D.....Dean, School of Business Administration
HAROLD J. NOYES, D.D.S., M.D.....Dean, Dental School
GORDON A. SABINE, Ph.D.....Dean, School of Journalism

LESTER E. ANDERSON, B.S.....Alumni Secretary ; Administrative Assistant
H. PHILIP BARNHART, B.S.....Director of Dormitories
GEORGE N. BELKNAP, M.A.....University Editor
J. SPENCER CARLSON, M.A.....Director of Admissions
CLIFFORD L. CONSTANCE, M.A.....Registrar
DONALD M. DUSHANE, M.A.....Director of Student Affairs
CARL H. GROTH.....Superintendent of University Press
LEO A. HARRIS, M.A.....Athletic Director
CARL W. HINTZ, Ph.D.....Librarian
J. ORVILLE LINDSTROM, B.S.....Business Manager
FRED N. MILLER, M.D.....Director of Health Service
RICHARD C. WILLIAMS, B.S.....Director of Erb Memorial Union
IRWIN I. WRIGHT, B.S.....Superintendent of Physical Plant

University Faculty*

- ABBY ADAMS, M.A.**, Instructor in Education; Head of Foreign Language Department, Eugene High School.
B.A. (1925), Oregon; M.A. (1932), Washington. At Oregon since 1944.
- ROY H. ADAMS, M.S.**, Instructor in Journalism.
B.S. (1946), Illinois; M.S. (1953), Oregon. At Oregon 1954.
- ELEANOR E. AHLERS, A.B., B.L.S.**, Assistant Professor of Library Science.
A.B. (1932), Washington; B.L.S. (1942), Denver. At Oregon since 1953.
- FLORENCE D. ALDEN, M.A.**, Professor Emeritus of Physical Education.
A.B. (1904), Smith; M.A. (1928), Columbia. At Oregon since 1921.
- ERIC W. ALLEN, JR.**, Instructor in Journalism.
At Oregon 1953-54.
- CLAYTON E. ANDERSON, B.A.**, Visiting Lecturer in Physical Education.
B.A. (1949), Puget Sound. At Oregon 1954.
- EXINE M. ANDERSON, M.A.**, Assistant Professor of Voice.
B.S. (1944), Minnesota; M.A. (1945), Diploma (1951), Columbia. At Oregon since 1951.
- LESTER E. ANDERSON, B.S.**, Alumni Secretary; Administrative Assistant, President's Office (Assistant Professor).
B.S. (1946), Oregon. At Oregon since 1946.
- GEORGE F. ANDREWS, B.S.**, Reg. Archt., Associate Professor of Architecture.
B.S. (1941), Michigan; Reg. Archt. (1946), State of Illinois. At Oregon since 1948.
- CURTIS E. AVERY, M.A.**, Professor of Education; Director of E. C. Brown Trust.
B.A. (1925), Pomona; M.A. (1928), Yale. At Oregon since 1946.
- 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.**, Associate Professor of Art; Curator, Museum of Oriental Art.
B.A. (1928), M.A. (1932), Oberlin; Ph.D. (1938), Chicago. At Oregon since 1944.
- EWART M. BALDWIN, Ph.D.**, Associate Professor of Geology; Curator of 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.**, Instructor in 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 Administration; Director, Bureau of Business Research.
A.B. (1927), M.B.A. (1931), Washington; Ph.D. (1940), Chicago. At Oregon since 1941.

* This list includes the principal administrative officials and the heads of departments and divisions of the University of Oregon Medical School and the University of Oregon Dental School. For a complete list of the members of these faculties, see the Medical School and Dental School catalogs.

- THOMAS O. BALLINGER, M.A.**, Assistant Professor of Art and Education.
B.A. (1949), M.A. (1951), New Mexico. At Oregon since 1952.
- GORDON W. BALLMER, Ph.D.**, Instructor in Biology.
B.S. (1945), M.S. (1947), Ph.D. (1953), Michigan. At Oregon since 1953.
- BURT BROWN BARKER, A.B., LL.D.**, Vice-President Emeritus.
A.B. (1897), Chicago; LL.B. (1901), Harvard; LL.D. (1935), Linfield. At Oregon since 1928.
- 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.
- HOMER G. BARNETT, Ph.D.**, Professor of Anthropology.
A.B. (1927), Stanford; Ph.D. (1938), California. At Oregon since 1939.
- JAMES D. BARNETT, Ph.D.**, Professor Emeritus of Political Science.
B.A. (1890), College of Emporia; Ph.D. (1905), Wisconsin. At Oregon since 1908.
- H. PHILIP BARNHART, B.S.**, Director of Dormitories; Director of Foods, Student Union (Assistant Professor).
B.S. (1947), Pennsylvania State. At Oregon since 1949.
- ROLAND BARTEL, Ph.D.**, Instructor in English.
B.A. (1947), Bethel; Ph.D. (1951), Indiana. At Oregon since 1951.
- CHANDLER B. BEALL, Ph.D.**, Professor of Romance Languages.
Diplôme (1921), Sorbonne; A.B. (1922), Ph.D. (1930), Johns Hopkins. At Oregon since 1929.
- GEORGE N. BELKNAP, M.A.**, University Editor (Assistant Professor).
B.A. (1926), M.A. (1934), Oregon. At Oregon since 1934.
- ERWIN T. BENDER, D.D.S.**, Associate Professor of Dentistry; Superintendent of Clinics, Dental School.
D.D.S. (1924), Iowa. At Dental School since 1943.
- ALBERT J. BERNATOWICZ, Ph.D.**, Instructor in Biology.
B.A. (1948), Clark; M.A. (1950), Ph.D. (1953), Michigan. At Oregon since 1953.
- RICHARD C. BERNHARD, Ph.D.**, Lecturer in Economics.
B.A. (1932), Reed; M.Sc. (Econ.) (1936), London; Ph.D. (1940), Northwestern. At Oregon since 1954.
- *JOEL V. BERREMAN, Ph.D.**, Professor of Sociology.
B.A. (1927), Willamette; M.A. (1933), Oregon; Ph.D. (1940), Stanford. At Oregon since 1946.
- EDWIN R. BINGHAM, Ph.D.**, Assistant 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.**, Assistant 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, Ph.D.**, Professor of English.
A.B. (1921), Dickinson; A.M. (1923), Ph.D. (1936), Harvard. At Oregon since 1936.
- RUSSELL M. BLEMKER, M.D.**, Assistant University Physician (Associate Professor).
B.A. (1926), De Pauw; M.D. (1930), Washington University. At Oregon since 1954.
- JESSE H. BOND, Ph.D.**, Professor Emeritus of Business Administration.
B.A. (1909), M.A. (1913), Oregon; Ph.D. (1915), Wisconsin. At Oregon since 1928.

* Acting head of department 1953-54.

- JOHN W. BORCHARDT, M.A.**, Assistant Professor of Physical Education; Head Swimming Coach.
B.S. (1940), LaCrosse Teachers; M.A. (1951), Iowa. At Oregon since 1948.
- WILLIAM J. BORCHER, M.Ed.**, Assistant Professor of Physical Education; Head Basketball Coach.
B.S. (1942), M.Ed. (1950), Oregon. At Oregon since 1951.
- THEODORE L. BOUCK, B.A.**, Athletic Business Manager (Instructor).
B.A. (1947), Oregon. At Oregon since 1953.
- 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.**, Assistant 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.**, Assistant Professor of Slavic Languages.
B.A. (1938), Pennsylvania; Cert. (1930), Lille; M.A. (1941), Ph.D. (1950), Harvard. At Oregon since 1953.
- GUY L. BOYDEN, M.D.**, Clinical Professor of Otolaryngology, Medical School; Head of Department of Otology, Rhinology, and Laryngology.
B.S. (1907), South Dakota Agricultural; M.D. (1911), Northwestern. At Oregon since 1922.
- C. VALENTINE BOYER, Ph.D.**, Professor Emeritus of English.
B.S. (1902), M.A. (1909), Ph.D. (1911), Princeton. At Oregon since 1926.
- *QUIRINUS BREEN, Ph.D.**, Professor of History.
A.B. (1920), Calvin; Ph.D. (1931), Chicago. At Oregon since 1938.
- CALDER T. BRESSLER, Ph.D.**, Assistant Professor of Geology.
B.S. (1942), Washington; Ph.D. (1951), Pennsylvania State. At Oregon since 1952.
- JOHN L. BRISCOE, B.Arch.Engr., Reg. Archt., Instructor in Architecture.**
B.Arch.Engr. (1950), Oklahoma Agricultural and Mechanical; Reg. Archt. (1953), State of Arkansas. At Oregon since 1953.
- JOHN M. BROOKHART, Ph.D.**, Professor of Physiology, Medical School; Head of Department.
B.S. (1935), M.S. (1936), Ph.D. (1939), Michigan. At Oregon since 1949.
- 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.
- HARRY A. BUCKLEY, B.S.**, Captain, U.S. Army; Assistant Professor of Military Science and Tactics.
B.S. (1948), United States Military Academy. At Oregon since 1952.
- WILLARD E. BURKE, Ph.D.**, Instructor in Education; Head of Health and Physical Education Department, Eugene High School.
B.E. (1937), Moorhead; M.S. (1948), Southern California; Ph.D. (1952), Iowa. At Oregon since 1953.
- ORIN K. BURRELL, M.A., C.P.A.**, Professor of Business Administration.
B.S. (1921), M.A. (1927), Iowa; C.P.A. (1928), State of Oregon. At Oregon since 1927.
- DONNA L. BUSE, B.A.**, Program Director, Student Union (Instructor).
B.A. (1952), Oregon. At Oregon since 1952.
- THOMAS H. CALLAHAN, M.S. in L.S.**, Librarian of 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.

* On leave of absence, fall term, 1953-54.

- ROBERT CAMPBELL, Ph.D., Assistant Professor of Economics.
A.B. (1947), Ph.D. (1952), California; B.S. (1950), U.S. Merchant Marine Academy.
At Oregon since 1952.
- 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 Dental School since 1943.
- J. SPENCER CARLSON, M.A., Director of Admissions; Associate Director of Stu-
dent Affairs; Assistant Professor of Psychology.
B.S. (1935), Oregon; M.A. (1937), Minnesota. At Oregon since 1947.
- ELLA S. CARRICK, B.A., Senior Catalog Librarian (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.
- ALBERT E. CASWELL, Ph.D., Professor Emeritus of Physics.
A.B. (1908), Ph.D. (1911), Stanford. At Oregon 1913-32 and since 1934.
- LIONEL T. CHADWICK, M.Arch., Reg. Archt., Assistant Professor of Architecture.
B.Arch (1934), Manitoba; M.Arch. (1953), Oregon; Reg. Archt. (1946), State of Cali-
fornia. At Oregon since 1950.
- SHANG-YI CH'EN, Ph.D., Associate Professor of Physics.
B.S. (1932), M.S. (1934), Yenching; Ph.D. (1940), California Institute of Technology. At
Oregon since 1949.
- DELBERT R. CHINBURG, JR., B.A., Instructor in Clarinet and Saxophone.
B.A. (1950), Wyoming. At Oregon since 1953.
- *PAUL CIVIN, Ph.D., Associate Professor of Mathematics.
B.A. (1939), Buffalo; M.A. (1941), Ph.D. (1942), Duke. At Oregon since 1946.
- CLARENCE W. CLANCY, Ph.D., Associate Professor of Biology.
B.S. (1930), M.S. (1932), Illinois; Ph.D. (1940), Stanford. At Oregon since 1940.
- DAN E. CLARK, Ph.D., Professor Emeritus of History.
B.A. (1907), Ph.D. (1910), Iowa. At Oregon since 1921.
- ROBERT D. CLARK, Ph.D., Professor of Speech; Assistant Dean of the College of
Liberal Arts.
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.
- CECIL K. CLAYCOMB, Ph.D., Assistant Professor of Chemistry; Acting Head of
Department of Biochemistry, Dental School.
B.S. (1947), M.S. (1948), Ph.D. (1951), Oregon. At Oregon since 1951.
- HERMAN COHEN, Ph.D., Instructor in Speech.
B.A. (1948), M.A. (1949), Ph.D. (1954), Iowa. At Oregon since 1949.
- WILLIAM E. COLBURN, Ph.D., Instructor in English.
B.A. (1947), M.A. (1949), Ph.D. (1952), Illinois. At Oregon since 1953.
- RALPH C. COLLINS, Ed.D., Instructor in Education; Head of Science Department,
Eugene High School.
B.A. (1932), M.A. (1941), Drake; Ed.D. (1951), Colorado. At Oregon since 1953.
- FREDERICK M. COMBELLACK, Ph.D., Associate Professor of Classical Languages.
B.A. (1928), Stanford; Ph.D. (1936), California. At Oregon since 1937.

* On sabbatical leave 1953-54.

- NEWELL H. COMISH, Ph.D., Professor Emeritus of Business Administration.
B.S. (1911), Utah State; M.S. (1915), Ph.D. (1929), Wisconsin. At Oregon since 1932.
- WILLIAM S. CONKLIN, M.D., Assistant Clinical Professor of Medicine, Associate Clinical Professor of Surgery, Medical School; Head of Division of Chest Diseases.
A.B. (1931), Dartmouth; M.D. (1934), Pennsylvania. At Oregon since 1940.
- CLIFFORD L. CONSTANCE, M.A., Registrar (Associate Professor).
B.A. (1925), M.A. (1929), Oregon. At Oregon since 1931.
- SHIRLEY P. COX, M.S., Instructor in Physical Education.
B.S. (1945), M.S. (1948), Oregon. At Oregon since 1952.
- RONALD S. CRANE, Ph.D., Visiting Professor of English.
A.B. (1908), Michigan; Ph.D. (1911), Pennsylvania. At Oregon 1954.
- BERND CRASEMANN, Ph.D., Assistant Professor of Physics.
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; Curator of Anthropology; Director, Museum of Natural History.
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 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.
- ROBERT G. CUNNINGHAM, Mus.M., Instructor in Woodwinds.
B.M. (1950), Rochester; Mus.M. (1952), Oregon. At Oregon since 1954.
- *FREDERICK A. CUTHBERT, M.L.D., Professor of Landscape Architecture.
A.B. (1926), M.L.D. (1928), Michigan. At Oregon since 1932.
- 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.
- EDWIN B. DAILY, B.S., Colonel, U.S. Air Force; Professor of Air Science and Tactics; Head of Department of Military and Air Science and Tactics.
B.S. (1941), San Jose State. At Oregon since 1953.
- FRANCIS E. DART, Ph.D., Assistant 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; Head of Department.
A.B. (1925), M.D. (1931), California. At Oregon since 1937.
- HOWARD E. DEAN, Ph.D., Assistant Professor of Political Science.
B.A. (1939), California at Los Angeles; Ph.D. (1950), Columbia. At Oregon since 1947.
- ELIZABETH M. DEGREE, B.S., B.S. in L.S., Acquisition Librarian (Instructor).
B.S. (1949), Mary Washington; B.S. in L.S. (1952), North Carolina. At Oregon since 1952.
- GERTRUDE M. DEIERLEIN, Instructor in Typing.
At Oregon since 1953.
- JOHN H. DEMOULLY, B.S.L., LL.B., Legal Consultant, Bureau of Municipal Research and Service (Assistant Professor).
B.S.L. (1949), LL.B. (1951), Minnesota. At Oregon since 1953.

* On sabbatical leave, fall term, 1953-54.

- FERRIS H. DETHLEFS, Ph.D.**, Instructor in Philosophy.
B.A. (1947), Marietta; M.A. (1950), Ph.D. (1953), Harvard. At Oregon since 1952.
- LEROY E. DETLING, Ph.D.**, Assistant Professor of Biology; Curator of Herbarium.
A.B. (Romance Language) (1921), Oregon; A.M. (French) (1923), A.M. (Botany) (1933), Ph.D. (Biological Sciences) (1936), Stanford. At Oregon 1927-30 and since 1936.
- ***PAUL J. DEUTSCHMANN, M.A.**, Assistant Professor of Journalism.
B.S. (1940), M.A. (1952), Oregon. At Oregon since 1950.
- JAMES D. DEVINE, M.A.**, Instructor in Romance Languages.
B.A. (1949), M.A. (1950), Washington. At Oregon since 1950.
- ARTHUR L. DEVOLDER, M.A.**, Head Circulation Librarian (Assistant Professor).
B.S. (1945), Indiana; B.L.S. (1947), Denver; M.A. (1953), New Mexico. At Oregon since 1952.
- †**SAMUEL N. DICKEN, Ph.D.**, Professor of Geography and Geology; Head of Department.
B.A. (1924), Marietta; Ph.D. (1930), California. At Oregon since 1947.
- MILTON DIETERICH, M.Mus.**, Assistant Professor of Music.
B.Mus. (1923), Grinnell; M.Mus. (1941), Eastman School of Music. At Oregon since 1946.
- HENRY H. DIXON, M.D.**, Clinical Professor of Psychiatry, Medical School; Head of Division.
M.D. (1928), Washington University. At Oregon since 1932.
- WILFRID J. DIXON, Ph.D.**, Professor of Mathematics.
B.A. (1938), Oregon State; M.A. (1939), Wisconsin; M.A. (1942), Ph.D. (1944), Princeton. At Oregon since 1946.
- ROBERT E. DODGE, M.A.**, Assistant Professor of Business Administration.
B.A. (1934), M.A. (1952), Oregon. At Oregon since 1953.
- HENRIETTA DOLTZ, M.N., R.N.**, Professor of Nursing Education, Medical School; Director of Department.
B.A. (1928), Park; M.N. (1938), Washington; R.N. (1931), State of New York. At Oregon since 1940.
- CHARLES T. DOTTER, M.D.**, Professor of Radiology, Medical School; Head 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.
- WILBUR M. DOUGLASS, B.S.**, Assistant Business Manager (Instructor).
B.S. (1949), Oregon State. At Oregon since 1952.
- WILL DRUM, J.D.**, Assistant Professor of Social Work.
J.D. (1921), Freiburg; M.A. (1943), Washington. At Oregon since 1952.
- ‡**ROBERT DUBIN, Ph.D.**, Professor of Sociology; Head of Department.
A.B. (1936), A.M. (1940), Ph.D. (1947), Chicago. At Oregon since 1954.
- PAUL S. DULL, Ph.D.**, Associate Professor of History and Political Science.
B.A. (1935), Ph.D. (1940), Washington. At Oregon since 1946.
- CHARLES T. DUNCAN, M.A.**, Professor of Journalism.
A.B. (1936), M.A. (1946), Minnesota. At Oregon since 1950.
- DONALD M. DUSHANE, M.A.**, Director of Student Affairs; Lecturer in Political Science (Professor).
B.A. (1927), Wabash; M.A. (1937), Columbia. At Oregon since 1948.

* On leave of absence, winter term, 1953-54.

† On sabbatical leave 1953-54.

‡ Appointment effective Sept. 1, 1954.

- DOROTHY K. EADS, M.S., Catalog Librarian (Instructor).
B.A. (1948), M.S. (1949), Illinois. At Oregon since 1953.
- EDWIN G. EBBIGHAUSEN, Ph.D., Associate Professor of Physics.
B.S. (1936), Minnesota; Ph.D. (1940), Chicago. At Oregon since 1946.
- RAYMOND T. ELLICKSON, Ph.D., Professor of Physics; Head of Department;
Associate Dean of the Graduate School.
B.A. (1935), Reed; M.A. (1936), Oregon State; Ph.D. (1938), Chicago. At Oregon since 1948.
- ALFRED L. ELLINGSON, B.S., Counselor for Men, Office of Student Affairs (Instructor).
B.S. (1948), Oregon. At Oregon since 1951.
- JOHN C. ELLIS, M.A., Instructor in English.
B.A. (1949), M.A. (1951), Oregon. At Oregon since 1952.
- ARNOLD ELSTON, Ph.D., Associate Professor of Music.
B.A. (1930), College of City of New York; M.A. (1932), Columbia; Ph.D. (1939), Harvard. At Oregon since 1941.
- SHELDON D. ERICKSON, Ph.D., Assisant Professor of Geography.
B.A. (1934), M.A. (1946), Utah; Ph.D. (1953), Chicago. At Oregon since 1948.
- 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.
- ROBLEY D. EVENS, B.A., Lieutenant Colonel, U.S., Army; Professor of Military Science and Tactics.
B.A. (1932), Washington State. At Oregon since 1953.
- FRANK G. EVERETT, D.M.D., M.D., Associate Professor of Dentistry, Dental School; Head of Department of Periodontia.
M.D. (1932), Vienna; B.S. (1941), D.M.D. (1941), North Pacific; M.S. (1948), Oregon. At Dental School since 1941.
- EUGENE EVONUK, M.S., Instructor in Physical Education.
B.S. (1952), M.S. (1953), Oregon. At Oregon since 1953.
- MARIAN FALLOON, M.F.A., Instructor in Physical Education.
B.S. (1948), Nebraska; M.F.A. (1951), Women's College, North Carolina. At Oregon since 1953.
- WILLIAM J. FEENEY, M.A., Instructor in English.
B.A. (1946), M.A. (1948), Kansas. At Oregon 1950-52 and since 1953.
- 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 (Assistant Professor).
A.B. (1929), Drake; B.S. in L.S. (1934), Illinois; A.M.L.S. (1945), Michigan. At Oregon since 1934.
- JOHN H. FITZGIBBON, M.D., Clinical Professor of Medicine, Medical School; Head of Division of Gastroenterology.
A.B. (1917), Oregon; M.D. (1920), Rush. At Oregon since 1922.

- THOMAS B. FITZPATRICK, M.D., Ph.D.**, Professor of Dermatology and Syphilology, Medical School; Head of Division.
A.B. (1941), Wisconsin; M.D. (1945), Harvard; Ph.D. (1952), Minnesota. At Oregon since 1952.
- HENRY C. FIXOTT, JR., D.M.D.**, Clinical Associate in Dentistry; Head of Department of Oral Roentgenology, Dental School.
D.M.D. (1938), North Pacific. At Oregon since 1947.
- MARIE FLACK, B.A., B.S. in L.S.**, Catalog Librarian (Instructor).
B.A. (1922), Kentucky; B.S. in L.S. (1938), Illinois. At Oregon since 1950.
- WARREN R. FLEMING, M.S.**, Instructor in Biology.
B.S. (1949), M.S. (1951), Portland. At Oregon since 1953.
- SAVILLE T. FORD, M.B.A.**, Assistant Professor of Business Administration.
B.S. (1939), M.B.A. (1949), Pennsylvania. At Oregon since 1949.
- JOHN M. FOSKETT, Ph.D.**, Associate Professor of Sociology.
A.B. (1932), M.A. (1935), Ph.D. (1939), California. At Oregon since 1946.
- HENRY N. FOWLER, B.A.**, Visiting Lecturer in Journalism.
B.A. (1914), Oregon. At Oregon 1953-54.
- BROWNELL FRASIER, B.A.**, Associate Professor of Interior Design.
B.A. (1921), Oregon. At Oregon since 1931.
- EMIL D. FURRER, M.D.**, Assistant Professor of Health Education.
B.A. (1926), M.D. (1929), Oregon. At Oregon since 1947.
- NORRIS M. GADDIS, M.A.**, Reg. Archt., Assistant Professor of Architecture.
B.S. (1936), Iowa State; M.A. (1940), Columbia; N.C.A.R.B. (1946). At Oregon since 1948.
- M. MASON GAFFNEY, B.A.**, Instructor in Economics.
B.A. (1948), Reed. At Oregon since 1953.
- EDMUNDO GARCÍA-GIRÓN, Ph.D.**, Assistant Professor of Romance Languages.
B.A. (1940), M.A. (1947), Ph.D. (1952), California. At Oregon since 1953.
- PATRICIA M. GATHERCOLE, Ph.D.**, Instructor in Romance Languages.
B.A. (1941), M.A. (1942), British Columbia; Cert. (1949), Paris; Ph.D. (1950), California; Diplôme (1951), Institut Catholique (Paris). At Oregon since 1953.
- HERMAN GELHAUSEN, B.S.**, Associate Professor of Voice.
B.S. (1939), Columbia. At Oregon since 1946.
- KENNETH S. GHENT, Ph.D.**, Associate Professor of Mathematics; Foreign-Student Adviser.
B.A. (1932), McMaster; S.M. (1933), Ph.D. (1935), Chicago. At Oregon since 1935.
- SUDHISH G. GHURYE, Ph.D.**, Assistant Professor of Mathematics.
B.Sc. (1945), M.Sc. (1947), Bombay; Ph.D. (1952), North Carolina. At Oregon since 1953.
- LEIGH T. GIBBY, M.A.**, Instructor in English.
B.A. (1941), Colorado; M.A. (1947), Chicago. At Oregon since 1953.
- *BERNARDO GICOVATE, Dr. en letras, Ph.D.**, Assistant Professor of Romance Languages.
B.A. (1945), Bowdoin; M.A. (1946), North Carolina; Dr. en letras (1943), Buenos Aires; Ph.D. (1952), Harvard. At Oregon since 1949.
- JAMES H. GILBERT, Ph.D.**, Professor Emeritus of Economics.
B.A. (1903), Oregon; Ph.D. (1907), Columbia. At Oregon since 1907.
- PHILIP A. GOLDBERG, Ph.D.**, Assistant Professor of Physics.
B.A. (1944), Reed; M.A. (1947), Ph.D. (1953), California. At Oregon 1947-49 and since 1953.

* On leave of absence 1953-54.

- ALFRED T. GOODWIN, B.A., J.D.,** Special Lecturer in Law.
B.A. (1947), J.D. (1951), Oregon. At Oregon 1954.
- ROBERT C. GORDON, Ph.D.,** Assistant Professor of English.
B.A. (1942), North Carolina; M.A. (1947), Ph.D. (1952), Harvard. At Oregon since 1950.
- GEORGE GORIN, Ph.D.,** Assistant Professor of Chemistry.
B.A. (1944), Brooklyn; M.A. (1947), Ph.D. (1949), Princeton. At Oregon since 1952.
- STACEY L. GREEN, Mus.M.,** Associate Professor of Piano.
A.B. (1922), Northland; Mus.M. (1940), Northwestern. At Oregon since 1944.
- HOWARD F. GREGOR, Ph.D.,** Assistant Professor of Geography.
B.S. (1946), M.S. (1947), Wisconsin. Ph.D. (1950), California at Los Angeles. At Oregon since 1953.
- RAYMOND D. GRONDAHL, M.D.,** Associate Professor of Clinical Pathology, Medical School; Head of Division.
B.S. (1939), Washington State; M.S. (1944), M.D. (1944), Oregon. At Oregon since 1944.
- CARL H. GROTH, Superintendent, University Press (Assistant Professor).**
At Oregon since 1952.
- JEAN E. GUÉDENET, Licencié-ès-lettres,** Assistant Professor of Romance Languages.
Licence-ès-lettres (1937), Diplôme d'études supérieures (1938), Sorbonne. At Oregon since 1951.
- 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.
- JAMES B. HALL, Ph.D.,** Assistant 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.
- WILLARD M. HAMMER, M.Ed.,** Instructor in Physical Education; Wrestling Coach; Freshman Football Coach.
B.S. (1949), M.Ed. (1950), Springfield. At Oregon since 1953.
- 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.,** Assistant 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.
- *LEO A. HARRIS, M.A.,** Professor of Physical Education; Athletic Director.
A.B. (1927), M.A. (1929), Stanford. At Oregon since 1947.
- RUSSELL M. HARRISON, M.Mus.,** Instructor in Education; Head of Music Department, Eugene High School.
B.S. (1943), Western Michigan; M.Mus. (1947), Michigan. At Oregon since 1953.
- DAVID P. HATCH, M.A.,** Instructor in Art.
B.A. (1951), M.A. (1952), California. At Oregon since 1952.
- FREDERICK P. HAUGEN, M.D.,** Professor of Anaesthesiology, Medical School; Head of Division.
B.A. (1933), M.D. (1935), Oregon. At Oregon since 1948.

* On sabbatical leave, spring term, 1953-54.

- RAY HAWK, D.Ed., Associate Director of Student Affairs; Director of Men's Dormitory Counseling (Assistant Professor).
B.S. (1947), M.S. (1948), D.Ed. (1949), Oregon. At Oregon since 1950.
- WALLACE S. HAYDEN, B.Arch., Reg. Archt., Associate Professor of Architecture.
B.Arch (1928), Oregon; Reg. Archt. (1953), State of Oregon. At Oregon since 1930.
- ARTHUR C. HEARN, Ed.D., Associate Professor of Education.
A.B. (1934), M.A. (1937), Ed.D. (1949), Stanford. At Oregon since 1950.
- CARL G. HELLER, M.D., Associate Clinical Professor of Medicine, Medical School; Head of Division of Endocrinology.
Ph.B. (1935), Ph.D. (1940), M.D. (1940), Wisconsin. At Oregon since 1944.
- ALLAN J. HILL, JR., M.D., Professor of Pediatrics, Medical School; Head of Department.
B.S. (1937), M.B. (1939), M.D. (1940), Minnesota. At Oregon since 1950.
- 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.
- CLARENCE V. HODGES, M.D., Associate Professor of Urology, Medical School; Head of Division.
B.S. (1937), Iowa State; M.D. (1940), Chicago. At Oregon since 1948.
- HUBERT H. HOELTJE, Ph.D., Professor of English.
B.A. (1919), M.A. (1926), Ph.D. (1932), Iowa. At Oregon since 1947.
- BLAIR HOLCOMB, M.D., Clinical Professor of Medicine, Medical School; Head of Division of Diabetes and Metabolism.
M.D. (1919), Rush. At Oregon since 1922.
- 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., Administrator and Medical Director of Hospitals and Clinics, Medical School; Associate Professor of Medicine.
B.A. (1931), M.D. (1936), Oregon. At Oregon since 1937.
- GEORGE HOPKINS, B.A., Professor of Piano.
Teachers Certificate (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 of Law.
A.B. (1920), J.D. (1922), Illinois. At Oregon since 1928.
- FRANCIS V. HOWELL, D.D.S., Assistant Professor of Dentistry, Dental School; Head of Department of Oral Pathology.
B.A. (1948), Stanford; D.D.S. (1950), College of Physicians and Surgeons. At Oregon since 1952.
- GORDON D. HOYT, Ph.D., Assistant Professor of Physics.
B.S. (1939), M.A. (1941), Ph.D. (1950), Michigan. At Oregon since 1949.
- RALPH R. HUESTIS, Ph.D., Professor of Biology; Head of Department; 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.
- ERRETT E. HUMMEL, D.Ed., Associate Professor of Education.
B.A. (1933), Pacific; M.A. (1939), D.Ed. (1951), Oregon. At Oregon since 1952.
- DONALD L. HUNTER, B.S., Head, Audio-Visual Department, Library (Assistant Professor).
B.S. (1945), Nebraska. At Oregon since 1946.

- FREDERICK J. HUNTER, M.A.**, Instructor in Speech.
B.A. (1940), California; M.A. (1942), North Carolina. At Oregon since 1950.
- WARREN C. HUNTER, M.D.**, Professor of Pathology, Medical School; Head 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 Professor of Dentistry, Dental School; Acting Head of Department of Postgraduate Instruction.
D.M.D. (1951), Oregon. At Oregon since 1951.
- 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.
- DAVID L. JAMESON, Ph.D.**, Instructor in Biology.
B.S. (1948), Southern Methodist; M.A. (1949), Ph.D. (1952), Texas. At Oregon since 1953.
- *BERTRAM E. JESSUP, Ph.D.**, Associate Professor of Philosophy.
B.A. (1927), M.A. (1935), Oregon; Ph.D. (1938), California. At Oregon since 1936.
- GEORGE S. JETTE, B.L.A.**, Assistant 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., M.A.**, Instructor in Sociology.
B.A. (1948), M.A. (1948), Washington State. At Oregon since 1953.
- CARL L. JOHNSON, Ph.D.**, Associate 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.**, Associate Professor of Business Administration.
B.A. (1942), M.B.A. (1948), Ph.D. (1952), Minnesota; C.P.A. (1949), District of Columbia. At Oregon since 1952.
- ELDON L. JOHNSON, Ph.D.**, Dean of the College of Liberal Arts; Dean of the Graduate School; Professor of Political Science.
A.B. (1929), Indiana State Teachers; Ph.M. (1933), Ph.D. (1939), Wisconsin. At Oregon since 1945.
- LEEVERN R. JOHNSON, M.B.A.**, Assistant Professor of Business Administration.
B.A. (1939), Iowa State Teachers; M.B.A. (1948), Denver. At Oregon since 1951.
- LOUIS H. JOHNSON, Comptroller Emeritus.**
At Oregon since 1901.
- RULON H. JOHNSON, D.M.D.**, Associate Professor of Dentistry, Dental School; Head of Department of Prosthetics.
D.M.D. (1943), North Pacific. At Dental School 1943-44 and since 1951.
- 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.**, Instructor in Business Administration.
B.A. (1937), Iowa State Teachers; M.S. (1945), Oregon; M.Bus.Ed. (1952), Colorado. At Oregon since 1946.
- †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.

* On sabbatical leave 1953-54.

† On leave of absence 1953-54.

- 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.
- SYLVAN N. KARCHMER, M.F.A., Assistant Professor of English.**
B.F.A. (1949), M.F.A. (1950), Texas. At Oregon since 1950.
- HERMAN KEHRLE, 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.
- 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.
- VIRGINIA KEMPSTON, M.A., Counselor for Women (Instructor).**
B.A. (1940), M.A. (1950), Oregon. At Oregon 1946-47 and since 1953.
- VERNON E. KERLEY, M.S., Instructor in Education; Head of Mathematics Department, Eugene High School.**
B.S. (1929), M.S. (1931), Oregon State. At Oregon since 1933.
- 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.
- CLYDE H. KEUTZER, M.A., Associate Professor of Voice.**
Ph.B. (1929), Chicago; M.A. (1935), Columbia. At Oregon since 1952.
- PAT A. KILLGALLON, D.Ed., Professor of Education; Director of Reading Clinic.**
A.B. (1926), M.Ed. (1932), D.Ed. (1942), Pennsylvania State. At Oregon since 1942.
- DONALD H. KIRSCH, B.S., Assistant Professor of Physical Education; Head Baseball Coach; Freshman Basketball Coach.**
B.S. (1943), Oregon. At Oregon since 1947.
- GEORGE W. KITTINGER, Ph.D., Instructor in Chemistry.**
B.S. (1948), M.S. (1950), Northwestern; Ph.D. (1953), Oregon. At Oregon since 1953.
- EDWARD D. KITTOE, M.A., Assistant Professor of English.**
B.A. (1931), M.A. (1936), Oregon. At Oregon since 1936.
- 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., Assistant 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.
- HARRY T. KOPLIN, Ph.D., Assistant Professor of Economics.**
B.A. (1947), Oberlin; Ph.D. (1952), Cornell. At Oregon since 1950.
- GEORGE E. KOSTRITSKY, M.C.P., Assistant Professor of Architecture.**
A.B. (1949), California; M.C.P. (1951), Massachusetts Institute of Technology. At Oregon since 1952.
- THEODORE KRATT, Mus.M., Mus.D., Dean of the School Music; Professor of Music.**
Mus.B. (1921), Mus.M. (1927), Mus.D. (1932), Chicago Musical College; Mus.D. (1938), Cincinnati Conservatory of Music. At Oregon since 1939.
- SYLVY A. KRAUS, M.A., Instructor in Education; Head of English Department, Eugene High School.**
B.A. (1934), M.A. (1948), Bradley. At Oregon since 1953.
- EDMUND P. KREMER, J.U.D., Professor of Germanic Languages.**
J.U.D. (1924), Frankfort on Main. At Oregon since 1928.

- ELWOOD A. KRETSINGER, Ph.D., Assistant 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.
- MORTON KROLL, Ph.D., Assistant Professor of Political Science.**
B.A. (1946), Ph.D. (1952), California at Los Angeles. At Oregon since 1951.
- DAVID H. KRUEGER, M.A., Instructor in Speech.**
B.A. (1949), M.A. (1950), Whittier. At Oregon since 1953.
- ADOLF H. KUNZ, Ph.D., Professor of Chemistry; Head of Department.**
A.B. (1923), William Jewell; M.S. (1926), Ph.D. (1928), Iowa. At Oregon 1930-32 and since 1934.
- *FRANK R. LACY, JR., A.B., J.D., Assistant Professor of Law.**
A.B. (1946), Harvard; J.D. (1948), Iowa. At Oregon since 1949.
- EDNA LANDROS, Ph.D., Assistant Professor of Classical Languages.**
A.B. (1913), Kansas; A.M. (1921), Arizona; Ph.D. (1935), Oregon. At Oregon since 1928.
- JOHN F. LAUBER, M.A., Administrative Assistant, Library (Instructor).**
B.A. (1948), M.A. (1950), Washington. At Oregon since 1953.
- WILLIAM S. LAUGHLIN, Ph.D., Associate Professor of Anthropology; Assistant Curator of Physical Anthropology.**
B.A. (1941), Willamette; M.A. (1942), Haverford; A.M. (1948), Ph.D. (1949), Harvard. At Oregon since 1949.
- ROBERT A. LAURENCE, Captain, U.S. Air Force; Assistant Professor of Air Science and Tactics.**
At Oregon since 1951.
- 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.
- RALPH W. LEIGHTON, Ph.D., D.Sc., Professor Emeritus of Physical Education; Assistant in the President's Office.**
B.A. (1925), D.Sc. (1941), College of Idaho; Ph.D. (1931), Oregon. At Oregon since 1931.
- DOROTHEA M. LENSCH, M.S., Visiting Lecturer in Physical Education.**
B.A. (1929), Oregon; M.S. (1930), Wellesley. At Oregon 1954.
- EDWARD C. A. LESCH, Ph.D., Professor of English.**
B.A. (1925), M.A. (1926), Illinois; Ph.D. (1928), Princeton. At Oregon since 1928.
- HOWARD P. LEWIS, M.D., Professor of Medicine, Medical School; Head of Department.**
B.S. (1924), Oregon State; M.D. (1930), Oregon. At Oregon since 1932.
- *VERL S. LEWIS, M.A., Assistant Professor of Social Work.**
B.A. (1933), Huron; M.A. (1939), Chicago. At Oregon since 1949.
- HANS A. LINDE, B.A., LL.B., Assistant Professor of Law.**
B.A. (1947), Reed; LL.B. (1950), California. At Oregon 1954.
- WILLIAM F. LINDGREN, B.S., B.S. in L.S., Catalog Librarian (Instructor).**
B.S. (1947), B.S. in L.S. (1948), Minnesota. At Oregon since 1948.
- J. ORVILLE LINDSTROM, B.S., Business Manager (Associate Professor).**
B.S. (1932), Oregon. At Oregon since 1932.

* On leave of absence 1953-54.

- ARTHUR P. LITCHMAN**, Publicity Director, Athletic Department (Instructor).
At Oregon since 1946.
- SIDNEY W. LITTLE**, M.Arch., Reg. Archt., Dean of the School of Architecture and Allied Arts; Professor of Architecture.
Diploma (1927), école des Beaux Arts; B.Arch. (1929), Cornell; M.Arch. (1924), Tulane; Reg. Archt. (1937), States of Alabama, Georgia, and Oregon. At Oregon since 1946.
- RICHARD A. LITTMAN**, Ph.D., Associate Professor of Psychology.
A.B. (1943), George Washington; Ph.D. (1948), Ohio State. At Oregon since 1948.
- WILLIAM K. LIVINGSTON**, M.D., Kenneth A. J. Mackenzie Professor of Surgery, Medical School; Head of Department.
B.A. (1913), M.A. (1917), Oregon; M.D. (1920), Harvard. At Oregon since 1925.
- ALFRED L. LOMAX**, M.A., Professor of Business Administration.
B.B.A. (1923), Oregon; M.A. (1927), Pennsylvania. At Oregon since 1919.
- LEO S. LUCAS**, M.D., Clinical Professor of Orthopaedic Surgery, Medical School; Head of Division.
B.A. (1919), Pacific; M.D. (1923), Oregon. At Oregon since 1924.
- EDMOND M. MACCOLLIN**, M.Arch., Assistant Professor of Architecture.
B.Arch. (1947), Yale; M.Arch. (1948), Cornell. At Oregon 1950-51 and since 1952.
- 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.
- ROY W. MALLERY**, M.S., Instructor in Education; Head of Art Department, Eugene High School.
B.S. (1938), Peabody; M.S. (1943), Oregon. At Oregon since 1953.
- JAMES C. MANLEY**, B.S., Major U.S. Air Force; Assistant Professor of Air Science and Tactics.
B.S. (1948), Oregon State. At Oregon since 1953.
- MARGARET MARKLEY**, A.B., B.S. in L.S., Senior Catalog Librarian (Instructor).
A.B. (1933), Southwest Missouri State; B.S. in L.S. (1941), Illinois. At Oregon since 1945.
- ROBERT D. MARSHALL**, B.A., B.L.S., Social Science Librarian (Instructor).
B.A. (1940), Washington; B.L.S. (1953), California. At Oregon since 1953.
- THOMAS E. MARSHALL**, M.A., Instructor in Romance Languages.
B.A. (1945), M.A. (1946), California. At Oregon since 1953.
- WALTER T. MARTIN**, Ph.D., Associate Professor of Sociology.
B.A. (1943), M.A. (1947), Ph.D. (1949), Washington. At Oregon since 1947.
- MARIE R. MASON**, M.A., Instructor in Mathematics.
B.A. (1921), Oregon; M.A. (1929), Columbia. At Oregon since 1943.
- ***FRANK J. MASSEY**, Ph.D., Associate Professor of Mathematics.
A.B. (1941), M.A. (1944), Ph.D. (1947), California. At Oregon since 1948.
- ROY C. MCCALL**, Ph.D., Professor of Speech; Head of Department.
A.B. (1930), Redlands; M.A. (1931), Ph.D. (1936), Iowa. At Oregon since 1947.
- †**JOHN C. MCCLOSKEY**, Ph.D., Associate 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., Reference Librarian (Instructor).
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.

* On leave of absence 1953-54.

† On sabbatical leave 1953-54.

- DAVID J. McCOSH, Associate Professor of Art.
Graduate (1927), Art Institute of Chicago. At Oregon since 1934.
- ROSE E. McGREW, Professor Emeritus of Voice.
At Oregon since 1920.
- JOHN H. MCKAY, B.S., Instructor in Physical Education; Assistant Football Coach.
B.S. (1950), Oregon. At Oregon since 1950.
- PAUL B. MEANS, Ph.D., Professor of Religion; Head of Department.
A.B. (1915), Yale; B.Litt. (1923), Oxford; Ph.D. (1934), Columbia. At Oregon since 1941.
- NICHOLAS MIHAILOV, JR., B.S., Major, U.S. Air Force; Assistant Professor of Air Science and Tactics.
B.S. (1940), Washington. At Oregon since 1950.
- ALVIN E. MILLER, M.Arch., Instructor in Architecture.
B.Arch. (1948), Rensselaer; M.Arch. (1952), Rice. At Oregon 1949-51 and since 1952.
- FRED N. MILLER, M.D., F.A.C.P., Director of Health Service; Professor of Physical Education.
B.A. (1914), M.A. (1916), Lafayette; M.D. (1924), Chicago; F.A.C.P. (1941), American College of Physicians. At Oregon since 1925.
- HORACE M. MILLER, D.M.D., Professor of Dentistry; Head of Extraction Clinic, Dental School.
B.A. (1917), Reed; D.M.D. (1924), North Pacific. At Dental School since 1945.
- MARIAN H. MILLER, M.D., Assistant University Physician; Professor of Physical Education.
B.A. (1925), M.D. (1930), Oregon. At Oregon since 1931.
- LYOYD F. MILLHOLLEN, JR., D.Ed., Assistant Professor of Education.
B.S. (1934), Oregon State; M.S. (1949), D.Ed. (1952), Oregon. At Oregon since 1946.
- JEFF MINCKLER, Ph.D., M.D., Associate 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.
- 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.
- A. R. 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., Associate Professor of Health Education.
B.A. (1925), Willamette; M.S. (1948), Oregon. At Oregon since 1946.
- TRUE MORRIS, M.A., Senior Humanities Librarian (Instructor).
B.A. (1920), M.A. (1933), Oregon. At Oregon since 1934.

- *VICTOR P. MORRIS, Ph.D., Dean of the School of Business Administration; Professor of Economics.
B.A. (1915), M.A. (1920), Oregon; Ph.D. (1930), Columbia. At Oregon 1919-20 and since 1926.
- PERRY D. MORRISON, M.A., Head Social Science Librarian (Assistant Professor).
A.B. (1942), M.A. (1947), Whittier; B.S.L.S. (1949), California. At Oregon since 1949.
- †EDWARD MORTON, M.A., LL.M., J.D., Associate Professor of Law.
B.S. (1917), Pennsylvania; J.D. (1928), Stanford; LL.M. (1930), Harvard; M.A. (1932), California. At Oregon since 1948.
- ROBERT E. MOULTON, B.A., Research Assistant, Bureau of Municipal Research and Service (Instructor).
B.A. (1950), Idaho. At Oregon since 1950.
- 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.
- THOMAS F. MUNDLE, M.A., Assistant Professor of English.
M.A. (1923), St. Andrews. At Oregon since 1940.
- ELWIN L. MYRICK, M.Mus., Instructor in Organ.
B.S. (1939), B.Mus., (1947), M.Mus. (1949), Oregon. At Oregon since 1953.
- IVAN G. NAGY, Assistant Professor of Political Science.
At Oregon since 1949.
- FRANCES S. NEWSOM, M.A., Architecture and Allied Arts Librarian (Instructor).
B.A. (1928), Oregon; M.A. (1953), Denver. At Oregon since 1950.
- HERBERT N. NILL, B.B.A., Assistant Alumni Secretary (Instructor).
B.B.A. (1952), Oregon. At Oregon since 1953.
- IVAN M. NIVEN, Ph.D., Professor of Mathematics.
B.A. (1934), M.A. (1936), British Columbia; Ph.D. (1938), Chicago. At Oregon since 1947.
- HAROLD J. NOYES, D.D.S., M.D., Dean of the Dental School; Professor of Dentistry; Acting Head, Department of Orthodontia; Clinical Professor of Dental and Oral Medicine and Head of Division, Medical School.
Ph.B. (1923), M.D. (1933), Chicago; B.S. (1928), D.D.S. (1928), Illinois. At Oregon since 1946.
- ROBERT E. NYE, Ph.D., Associate Professor of Music Education.
B.E. (1932), State Teachers College (Milwaukee, Wis.); M.A. (1942), Ph.D. (1949), Wisconsin. At Oregon since 1950.
- KENNETH J. O'CONNELL, LL.B., S.J.D., Professor of Law.
LL.B. (1933), S.J.D. (1934), Wisconsin. At Oregon since 1935.
- ROBERT O. OFFICER, B.S., Instructor in Physical Education; Athletic Trainer.
B.S. (1943), Oregon. At Oregon since 1950.
- KARL W. ONTHANK, M.A., Associate Director of Student Affairs (Professor).
B.A. (1913), M.A. (1915), Oregon. At Oregon since 1916.
- CARROLL K. O'ROURKE, B.S., Visiting Lecturer in Journalism.
B.S. (1939), Montana State. At Oregon 1953-54.
- 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.
- VINCENT A. OSTROM, Ph.D., Assistant Professor of Political Science; Associate Director, Kellogg Program.
B.A. (1942), M.A. (1945), Ph.D. (1950), California at Los Angeles. At Oregon since 1949.

* Acting President, Sept. 16, 1953 to Mar. 15, 1954.

† Deceased Feb. 27, 1954.

- NORMAN H. OSWALD, Ph.D.**, Assistant Professor of English.
B.A. (1935), Reed; M.A. (1943), Ph.D. (1946), California. At Oregon since 1946.
- EARL M. PALLETT, Ph.D.**, Professor of Education; Director of Teacher Placement Service.
B.S. (1921), M.S. (1922), Wisconsin; Ph.D. (1931), Oregon. At Oregon since 1927.
- HAROLD O. PALMER, M.Ed.**, Instructor in Education; Head of Business Education Department, Eugene High School.
A.B. (1930), Emporia; M.Ed. (1939), Oregon. At Oregon since 1953.
- ANTHONY A. PEARSON, Ph.D.**, Professor of Anatomy, Medical School; Head of Department.
B.S. (1928), Furman (1930), Ph.D. (1933), Michigan. At Oregon since 1946.
- LESTER D. PEDERSON, B.S., J.D.**, Special Lecturer in Law.
B.S. (1950), J.D. (1952), Oregon. At Oregon since 1953.
- ARNO L. PEITERTON, M.B.A.**, Assistant Professor of Business Administration.
B.S. (1937), M.B.A. (1949), 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.
- MARIAN L. PERRY, M.A.**, Instructor in Physical Education.
B.A. (1948), M.A. (1951), California. At Oregon since 1953.
- WILBUR J. PETERSON, M.S.**, Instructor in Clarinet and Saxophone.
B.A. (1939), Augustana; M.S. (1951), Oregon State. At Oregon since 1953.
- NILKANTH M. PHATAK, Ph.D.**, Associate Professor of Pharmacology; Head of Department of Pharmacology, Dental School; Acting Head of Department of Physiology.
A.B. (1931), M.S. (1935), California; Ph.D. (1939), Cincinnati. At Dental School since 1940.
- MARGARET I. PHY, Instructor in Business Administration.**
At Oregon since 1954.
- JOHN PIERCE-JONES, Ph.D.**, Assistant Professor of Education and Psychology.
B.A. (1946), M.A. (1949), Ph.D. (1953), California. At Oregon since 1950.
- IONE F. PIERRON, B.A., B.A. in Lib.**, Senior Reference Librarian (Instructor).
B.A. (1936), Puget Sound; B.A. in Lib. (1937), Washington. At Oregon since 1948.
- ORDE S. PINCKNEY, M.S.**, Instructor in History.
B.S. (1940), M.S. (1943), Utah. At Oregon since 1951.
- SAMUEL R. PINNEAU, Ph.D.**, Assistant Professor of Psychology.
B.A. (1944), M.A. (1950), Ph.D. (1953), California. At Oregon since 1952.
- MARGARET S. POLEY, Ph.D.**, Associate Professor of Physical Education.
A.B. (1926), Colorado; M.S. (1930), Wellesley; Ph.D. (1948), Iowa. At Oregon since 1948.
- *EARL S. POMEROY, Ph.D.**, Associate Professor of History.
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 since 1953.
- JEANNETTE R. POTTER, M.S.**, Assistant Professor of Physical Education.
B.A. (1929), Iowa State Teachers; M.S. (1939), Wisconsin. At Oregon since 1953.

* On leave of absence 1953-54.

- PERRY J. POWERS, Ph.D.**, Assistant Professor of Romance Languages.
B.A. (1941), Oregon; Ph.D. (1947), Johns Hopkins. At Oregon since 1946.
- WARREN C. PRICE, M.A.**, Associate Professor of Journalism.
B.A. (1929), M.A. (1938), Wisconsin. At Oregon since 1942.
- JESSIE L. PUCKETT, M.S.**, Assistant Professor of Physical Education.
B.S. (1931), M.S. (1937), Oregon. At Oregon since 1952.
- CHARLES J. PURCELL, Major, U.S. Air Force**; Assistant Professor of Air Science and Tactics.
At Oregon since 1951.
- WILLIAM W. PYLE, M.S.**, Assistant Professor of Business Administration.
B.S. (1937), M.S. (1940), Indiana State Teachers. At Oregon since 1947.
- EARL W. RALF, A.B.**, Lieutenant Colonel, U.S. Army; Assistant Professor of Military Science and Tactics.
A.B. (1936), Knox. At Oregon since 1953.
- HOWARD L. RAMEY, M.F.A.**, Instructor in Speech.
B.A. (1948), Oregon; M.F.A. (1950), Yale. At Oregon since 1951.
- RICHARD C. RAMPTON, B.A.**, Instructor in Business Administration.
B.A. (1952), Oregon. At Oregon since 1953.
- CATHERINE D. RAU, Ph.D.**, Associate Professor of Philosophy.
B.A. (1925), M.A. (1939), Ph.D. (1945), California. At Oregon since 1953.
- *FRANCIS J. REITHEL, Ph.D.**, Associate Professor of Chemistry.
B.A. (1936), Reed; M.A. (1938), Ph.D. (1942), Oregon. At Oregon since 1946.
- WILLIAM P. RHODA, D.Ed.**, Assistant Professor of Physical Education.
B.S. (1939), Pennsylvania State; M.S. (1947), D.Ed. (1951), Oregon. At Oregon since 1948.
- W. DWAIN RICHINS, Ph.D.**, Associate Professor of Business Administration.
B.A. (1936), Brigham Young; M.B.A. (1938), Louisiana State; Ph.D. (1950), Washington. At Oregon since 1949.
- ROBERT J. RICHMAN, Ph.D.**, Instructor in Philosophy.
A.M. (1950), Ph.D. (1953), Harvard. At Oregon since 1953.
- HAROLD G. RICHTER, Ph.D.**, Instructor in Chemistry.
B.A. (1947), Franklin; M.S. (1950), Ph.D. (1952), Massachusetts Institute of Technology. At Oregon since 1952.
- 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.
- PAUL L. RISLEY, Ph.D.**, Professor of Biology.
A.B. (1927), Albion; M.A. (1929), Ph.D. (1931), Michigan. At Oregon since 1945.
- †EDWIN C. ROBBINS, JR., M.B.A.**, Instructor in Economics.
B.A. (1938), Oregon; M.B.A. (1943), Harvard. At Oregon since 1946.
- WILLIAM J. ROBERT, B.A., LL.B.**, Assistant Professor of Business Administration.
B.A. (1939), LL.B. (1941), Oregon. At Oregon since 1950.
- HORACE W. ROBINSON, M.A.**, Associate Professor of Speech; Director of University Theater.
B.A. (1931), Oklahoma City; M.A. (1932), Iowa. At Oregon since 1933.
- JACK ROCHE, B.S.**, Instructor in Physical Education; Assistant Football Coach.
B.S. (1940), Santa Clara. At Oregon since 1951.
- ALAN W. ROECKER, Ph.M.**, Head Science Librarian (Assistant Professor).
Ph.B. (1938), B.L.S. (1950), Ph.M. (1943), Wisconsin. At Oregon since 1950.

* On leave of absence 1953-54.

† On leave of absence, winter and spring terms, 1953-54.

- WILLIAM A. ROECKER, Ph.D.**, Assistant Professor of Germanic Languages.
B.A. (1934), M.A. (1936), Ph.D. (1948), California. At Oregon since 1949.
- MILES C. ROMNEY, Ph.D.**, Associate Professor of Education.
B.S. (1935), Utah State; Ph.D. (1947), Columbia. At Oregon since 1952.
- MARION D. ROSS, M.Arch., Reg. Archt.**, Associate 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.
- PAUL K. ROWAN, M.A.**, Instructor in Sociology.
B.A. (1949), M.A. (1950), California. At Oregon since 1953.
- CHARLES F. RUFF, M.F.A.**, Instructor in English.
B.A. (1946), M.F.A. (1953), Iowa. At Oregon since 1953.
- WALLACE M. RUFF, M.S.**, Assistant Professor of Landscape Architecture.
B.S. (1934), Florida; M.S. (1950), California. At Oregon since 1952.
- J. FRANCIS RUMMEL, Ph.D.**, Assistant Professor of Education.
B.A. (1933), Iowa State Teachers; M.A. (1947), Ph.D. (1950), Iowa. At Oregon since 1950.
- HOMER P. RUSH, M.D.**, Clinical Professor of Medicine, Medical School; Head of Division of Cardiology.
M.D. (1921), A.B. (1922), M.A. (1923), Oregon. At Oregon since 1921.
- TED RUSSELL, M.S.**, Business Manager and Registrar, Dental School (Assistant Professor).
B.S. (1936), M.S. (1938), Oregon. At Oregon since 1947.
- CHARLES B. RYAN, M.F.A.**, Assistant Professor of Art.
B.S. (1939), M.F.A. (1940), Oregon. At Oregon since 1946.
- GORDON A. SABINE, Ph.D.**, Dean of the School of Journalism; Professor of Journalism.
B.A. (1939), M.A. (1941), Wisconsin; Ph.D. (1949), Minnesota. At Oregon since 1948.
- MATTEO A. SALEMI, M.Ed.**, Captain, U.S. Air Force; Assistant Professor of Air Science and Tactics.
B.Ed. (1940), Rhode Island College of Education; M.Ed. (1951), Boston University. At Oregon since 1952.
- 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.
- ROBERT L. SAN SOUCIE, Ph.D.**, Instructor in Mathematics.
B.A. (1949), Massachusetts; M.A. (1950), Ph.D. (1953), Wisconsin. At Oregon since 1953.
- *BRADLEY T. SCHEER, Ph.D.**, Associate Professor of Biology.
B.S. (1936), California Institute of Technology; Ph.D. (1940), California. At Oregon since 1950.
- 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.
- 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.
- WALDO SCHUMACHER, Ph.D.**, Professor of Political Science.
A.B. (1917), Bluffton; A.M. (1918), Ohio State; Ph.D. (1923), Wisconsin. At Oregon since 1928.

* On leave of absence 1953-54.

- HARRY J. SEARS, Ph.D., Professor of Bacteriology, Medical School; Head of Department.**
A. B. (1911), A.M. (1912), Ph.D. (1916), Stanford. At Oregon since 1918.
- CORWIN V. SEITZ, B.A., Acquisition Librarian (Instructor).**
B.A. (1922), Oregon. At Oregon since 1922.
- LESTER G. SELIGMAN, Ph.D., Assistant Professor of Political Science and Sociology.**
B.A. (1939), Ph.D. (1947), Chicago. At Oregon since 1953.
- OTILIE T. SEYBOLT, M.A., Associate Professor of Speech.**
A.B. (1910), Mount Holyoke; M.A. (1915), Wisconsin. At Oregon since 1928.
- SAM E. SHEFFIELD, M.S., Lieutenant Colonel, U.S. Air Force; Assistant Professor of Air Science and Tactics.**
B.S. (1942), M.S. (1952), Arkansas. At Oregon since 1950.
- JOHN C. SHERWOOD, Ph.D., Assistant Professor of English.**
B.A. (1941), Lafayette; M.A. (1942), Ph.D. (1945), Yale. At Oregon since 1946.
- J. ARNOLD SHOTWELL, Ph.D., Curator Museum of Natural History (Instructor).**
B.S. (1947), M.S. (1950), Oregon; Ph.D. (1953) California. At Oregon since 1947.
- PETER O. SIGERSETH, D.Ed., Associate Professor of Physical Education.**
B.A. (1928), Minot State Teachers (North Dakota); M.A. (1936), North Dakota; D.Ed. (1944), Oregon. At Oregon 1943-44 and since 1947.
- FRANK P. SIPE, M.S., Associate Professor of Biology.**
B.S. (Agr.) (1916), B.S. (Educ.) (1918), Missouri; M.S. (1923), Iowa State. At Oregon since 1932.
- DONALD H. SITES, M.Arch., Reg. Archt., Instructor in Architecture.**
B.Arch. (1949), Washington; M.Arch. (1950), Rice; Reg. Archt. (1950), State of Texas. At Oregon since 1950.
- OLIVE A. SLOCUM, M.A., R.N., Associate Professor of Nursing Education.**
B.A. (1919), M.A. (1934), Southern California; R.N. (1924), State of California. At Oregon since 1945.
- ROBERT E. SMALL, B.S.A.E., Instructor in Architecture.**
B.S.A.E. (1952), Kansas State. At Oregon since 1954.
- EDGAR C. SMITH, JR., M.S., Instructor in Mathematics.**
B.S. (1949), M.S. (1950), Stanford. At Oregon since 1953.
- *GRANT R. SMITH, B.A., Major, U.S., Air Force; Assistant Professor of Air Science and Tactics.**
B.A. (1948), California. At Oregon since 1951.
- JESSIE M. SMITH, Ph.D., Assistant Professor of Business Administration.**
B.S.S. (1934), Oregon State; M.A. (1946), Oregon; Ph.D. (1954), Columbia. At Oregon since 1941.
- ROBERT W. SMITH, Ph.D., Assistant Professor of History.**
B.A. (1937), Chicago; M.A. (1940), Ph.D. (1942), California at Los Angeles. At Oregon since 1947.
- VERNON F. SNOW, Ph.D., Instructor in 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.

* Resigned Mar. 29, 1954.

- 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 Business Administration.
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.**, Assistant Professor of History.
B.A. (1938), North Dakota; M.A. (1945), Ph.D. (1947), Illinois. At Oregon since 1947.
- PHILIP W. SOUERS, Ph.D.**, Professor of English; Head of Department.
B.A. (1920), M.A. (1922), Iowa; M.A. (1924), Ph.D. (1928), Harvard. At Oregon since 1945.
- MARK R. SPONENBURGH, Assistant Professor of Art.**
Cert. (1940), Cranbrook; Cert. (1946), école Supérieure des Beaux Arts; Diplôme d'études supérieures (1952), Institut Royal des Beaux Arts (Cairo). At Oregon since 1946.
- VERNON S. SPRAGUE, Ph.D.**, Associate Professor of Physical Education.
B.S. (1937), Oregon; M.A. (1942), Ph.D. (1951), Michigan. At Oregon since 1946.
- BETTY MAE STAMM, B.A.**, Acquisition Librarian (Instructor).
B.A. (1927), Oregon. At Oregon since 1926.
- *LLOYD W. STAPLES, Ph.D.**, Professor of Geology.
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; Administrative Assistant, President's Office; Production Director, University Radio Studios.
B.A. (1938), Idaho; M.A. (1939), Ph.D. (1951), Iowa. At Oregon since 1947.
- HOWARD C. STEARNS, M.D.**, Clinical Professor of Obstetrics and Gynecology, Medical School; Head of Department.
B.S. (1924), B.S. (1925), Oregon State; M.D. (1929), Oregon. At Oregon since 1932.
- CHARLES L. STEELE, M.S.**, Instructor in Clarinet.
B.A. (1951), Wyoming; M.S. (1952), Oregon. At Oregon since 1951.
- VERN P. STERLING, M.A.**, Instructor in Physical Education; Assistant Football Coach.
B.S. (1950), Santa Clara; M.A. (1951), Stanford. At Oregon since 1952.
- THEODORE STERN, Ph.D.**, Assistant 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.
- 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.
- †ARTHUR B. STILLMAN, M.B.A.**, Professor of Business Administration.
B.A. (1928), Oregon; M.B.A. (1937), Washington. At Oregon since 1922.
- JAMES C. STOVALL, M.A.**, Assistant Professor of Geography.
B.S. (1927), M.A. (1929), Oregon. At Oregon since 1934.
- JOHN STRUBE, Instructor in Flute.**
At Oregon since 1951.
- THEODORE SUHER, D.M.D.**, Associate Professor of Dentistry; Head of Department of Pedodontia, Dental School.
B.S. (1946), D.M.D. (1946), Oregon; M.S. (1948), Illinois. At Oregon since 1948.
- ROBERT E. SUMMERS, M.A.**, Assistant Professor of Journalism.
B.S. (1940), Kansas State; M.A. (1951), Ohio State. At Oregon since 1952.

* Acting head, Department of Geography and Geology, 1953-54.

† Acting dean, School of Business Administration, Sept. 16, 1953 to Mar. 15, 1954.

- NORMAN D. SUNDBERG, Ph.D.**, Assistant Professor of Psychology.
B.A. (1947), Nebraska; M.A. (1949), Ph.D. (1952), Minnesota. At Oregon since 1952.
- KENNETH C. SWAN, M.D.**, Professor of Ophthalmology, Medical School; Head 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. (1935), Ph.D. (1935), Northwestern. At Oregon since 1953.
- 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.
- HOWARD R. TAYLOR, Ph.D.**, Professor of Psychology.
A.B. (1914), Pacific University; A.M. (1923), Ph.D. (1928), Stanford. At Oregon since 1925.
- 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.
- EDWARD P. THATCHER, M.A.**, Science Librarian (Instructor).
B.A. (1940), Swarthmore; M.A. (1940), B.S. in L.S. (1952), Minnesota. At Oregon since 1952.
- WILLIAM R. THOMAS, B.A.**, Lieutenant Colonel, U.S. Army; Assistant Professor of Military Science and Tactics.
B.A. (1930), California. At Oregon since 1952.
- WILLARD L. THOMPSON, M.S.**, Assistant Professor of Journalism and Business Administration.
B.S. (1937), M.S. (1949), Illinois. At Oregon since 1952.
- HARRIETT W. THOMSON, A.B.**, Professor Emeritus of Physical Education.
A.B. (1904), Michigan. At Oregon since 1911.
- ERNEST TOCH, Ph.D.**, Visiting Professor of Music.
Ph.D. (1921), Heidelberg. At Oregon 1954.
- KENNETH C. TOLLENAAR, M.A.**, Assistant Director, Bureau of Municipal Research and Service (Assistant Professor).
B.A. (1950), Reed; M.A. (1953), Minnesota. At Oregon since 1953.
- DONALD E. TOPE, Ph.D.**, Professor of Education; Director of Kellogg Program.
B.A. (1928), Western State College; M.A. (1929), Ph.D. (1934), Iowa. At Oregon since 1951.
- HOYT TROWBRIDGE, Ph.D.**, Professor of English.
B.A. (1931), M.A. (1933), Ph.D. (1935), Wisconsin. At Oregon since 1940.
- LYLE R. TRUEBLOOD, D.B.A.**, Assistant Professor of Business Administration.
B.S. (1948), M.A. (1949), Missouri; D.B.A. (1953), Indiana. At Oregon since 1951.
- WILLIAM M. TUGMAN, B.A.**, Visiting Lecturer in Journalism.
B.A. (1914), Harvard. At Oregon since 1946.
- 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.B. (1922), B.S. (1922), Iowa; M.A. (1930), Columbia. At Oregon since 1930.
- ROBERT K. TWEDELL, B.S.**, Instructor in Journalism.
B.S. (1950), Oregon. At Oregon since 1954.

- LEONA E. TYLER, Ph.D., Associate 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.
- PIERRE VAN RYSSELBERGHE, Ph.D., Professor of Chemistry.
Cand.-Ing. (1924), Eng. (1927), Brussels; M.A. (1928), Ph.D. (1929), Stanford. At Oregon since 1941.
- FRANCES VAN VOORHIS, M.S., Assistant Professor of Home Economics.
B.S. (1932), Minnesota; M.S. (1949), Iowa State. At Oregon since 1944.
- WILLIAM H. VAN VORIS, B.A., Instructor in English.
B.A. (1949), California. At Oregon since 1953.
- ANDREW M. VINCENT, Professor of Art.
At Oregon since 1929.
- PAULINE E. WALTON, M.A., Assistant Reference Librarian Emeritus.
B.A. (1904), Oregon; M.A. (1906), Northwestern. At Oregon since 1927.
- JEAN HSIU-CHIN WANG, M.A., M.L., Acquisition Librarian (Instructor).
LL.B. (1945), National Chung Cheng University; M.A. (1951), M.L. (1952), Washington. At Oregon since 1952.
- FREDERICK G. WARD, Ed.M., Lieutenant Colonel, U.S. Army; Assistant Professor of Military Science and Tactics.
B.S. (1933), Norwich; Ed.M. (1940), Tufts. At Oregon since 1953.
- JOHN M. WARREN, JR., Ph.D., Assistant Professor of Psychology.
B.S. (1949), M.S. (1950), Ph.D. (1953), Wisconsin. At Oregon since 1953.
- LEROY J. WARREN, M.A., Instructor in Mathematics.
B.A. (1950), College of Idaho; M.A. (1952), Oregon. At Oregon since 1953.
- PAUL R. WASHEKE, 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.
- MARSHALL D. WATTLES, Ph.D., Assistant Professor of Economics.
B.A. (1938), Southwest Missouri State; M.A. (1941), Missouri; Ph.D. (1950), Ohio State. At Oregon since 1950.
- MARIAN 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.
- CARL C. WEBB, M.A., Assistant Professor of Journalism.
B.S. (1932), M.A. (1950), Oregon. At Oregon since 1943.
- CHRISTOF A. WEGELIN, Ph.D., Assistant Professor of English.
M.A. (1942), North Carolina; Ph.D. (1947), Johns Hopkins. At Oregon since 1952.
- ADOLPH WEINZIRL, M.D., Professor of Public Health and Preventive Medicine, Medical School; Head 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.
- ROSAMOND WENTWORTH, M.S., Associate Professor of Physical Education.
B.A. (1931), M.S. (1938), Washington. At Oregon since 1944.
- EDWARD S. WEST, Ph.D., Professor of Biochemistry, Medical School; Head of Department.
A.B. (1917), Randolph-Macon; M.S. (1920), Kansas State; Ph.D. (1923), Chicago. At Oregon since 1934.

- ARNOLD M. WESTLING, B.S. in C.E., Planning and Public Works Consultant, Bureau of Municipal Research and Service (Assistant Professor).**
B.S. in C.E. (1943), Washington. At Oregon since 1947.
- GOLDA P. WICKHAM, B.S., Associate Director of Student Affairs; Director of Women's Dormitory Counseling (Assistant 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.
- BETTY J. WIKLE, B.S., Dietitian, Dormitories (Instructor).**
B.S. (1942), Utah State Agricultural. At Oregon since 1950.
- JACK WILKINSON, Assistant 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., Assistant 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, M.A., Instructor in Education; Head of Social Studies Department, Eugene High School.**
B.A. (1925), M.A. (1931), Oregon. At Oregon since 1930.
- RICHARD C. WILLIAMS, B.S., Director, Student Union (Assistant Professor).**
B.S. (1941), Oregon. At Oregon since 1941.
- WILLIAM A. WILLIAMS, Ph.D., Assistant Professor of History.**
B.S. (1944), U.S. Naval Academy; M.S. (1948), Ph.D. (1950), Wisconsin. At Oregon since 1952.
- JOHN M. WILLIAMSON, M.A., Head Humanities Librarian (Assistant Professor).**
B.A. (1935), Washington; B.A. (1946), M.A. (1947), B.L.S. (1950), Wisconsin. At Oregon since 1950.
- DONALD S. WILLIS, Ph.D., Assistant Professor of Oriental Languages.**
B.A. (1943), Ph.D. (1951), Washington. At Oregon since 1948.
- L. MILDRED WILSON, M.S., Assistant Professor of Home Economics.**
B.S. (1924), M.S. (1938), Iowa State. At Oregon since 1949.
- O. MEREDITH WILSON, Ph.D., President; Professor of History.**
A.B. (1934), Brigham Young University; Ph.D. (1943), California. At Oregon since 1954.
- W. H. WILSON, D.D.S., Associate Professor of Dentistry; Head of Department of Crown and Bridge, Dental School.**
D.D.S. (1937), Minnesota. At Oregon since 1951.
- HAROLD D. WOLAVER, B.S., Captain, U.S. Army; Assistant Professor of Military Science and Tactics.**
B.S. (1945), United States Military Academy. At Oregon since 1953.
- BORDEN WOOD, LL.B., Associate Professor of Law.**
LL.B. (1922), Oregon. At Oregon since 1953.
- FRANK E. WOOD, Ph.D., Associate Professor of Mathematics.**
B.A. (1912), Baker; M.A. (1914), Kansas; Ph.D. (1920), Chicago. At Oregon since 1943.
- *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 1953-54.

- KENNETH S. WOOD, Ph.D.**, Associate 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.
- LOUIS A. WOOD, Ph.D.**, Professor Emeritus of Economics.
B.A. (1905), Toronto; B.D. (1908), Montreal Presbyterian; Ph.D. (1911), Heidelberg. At Oregon since 1924.
- 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.**, Associate Professor of Physical Education.
B.S. (1926), M.A. (1929), Columbia. At Oregon since 1929.
- WILLIAM C. WOODS, M.M.**, Instructor in Piano.
B.M. (1948), M.M. (1949), Southern California. At Oregon since 1950.
- EMMA G. WRIGHT, A.B.**, B.S. in L.S., Senior Acquisition Librarian (Instructor).
A.B. (1925), Miami (Ohio); B.S. in L.S. (1939), Illinois. At Oregon since 1946.
- GORDON WRIGHT, Ph.D.**, Professor of History; Head of Department.
A.B. (1933), Whitman; M.A. (1935), Ph.D. (1939), Stanford. At Oregon since 1939.
- IRWIN I. WRIGHT, B.S.**, Superintendent of Physical Plant (Assistant Professor).
B.S. (1926), Kansas State. At Oregon since 1947.
- LEAVITT O. WRIGHT, Ph.D.**, Professor of Romance Languages.
A.B. (1914), Harvard; B.D. (1917), Union Theological Seminary; M.A. (1925), Ph.D. (1928), California. At Oregon since 1926.
- HARRY B. YOCOM, Ph.D.**, Professor Emeritus of Zoology.
A.B. (1912), Oberlin; M.A. (1916), Ph.D. (1918), California. At Oregon since 1920.
- BERTRAM YOOD, Ph.D.**, Assistant Professor of Mathematics.
B.S. (1938), Ph.D. (1947), Yale; M.S. (1939), California Institute of Technology. At Oregon since 1953.
- CHARLES F. ZIEBARTH, Ph.D.**, Associate Professor of Business Administration.
B.A. (1931), M.A. (1932), Washington State; Ph.D. (1952), Chicago. At Oregon since 1946.
- WILLIAM A. ZIMMERMAN, B.S.**, Business Manager and Assistant to the Dean, Medical School; Assistant Administrator of Hospitals (Associate Professor).
B.S. (1939), Oregon. At Oregon since 1940.

Associates, Fellows, Assistants

- E. RAY ACKERMAN, M.S.**, Associate in Education.
- DOUGLAS J. ADAMS, M.Ed.**, Associate in Education.
- PETER G. ALINE, M.A.**, Research Fellow in Physics.
- HAROLD ALLISON, M.A.**, Associate in Education.
- LOYD AMICK, B.S.**, Associate in Education.
- BRUCE ANAWALT, B.A.**, Graduate Assistant in English.
- LOWELL J. APLET, B.S.**, Graduate Assistant in Physics.
- GLENN APLIN, M.A.**, Associate in Education.
- HARRY R. ATKINS, B.A.**, Graduate Assistant in History.
- GEORGE BABILOT, M.A.**, Carnegie Fellow in Economics.
- WARREN D. BACHELIS, B.A.**, Graduate Assistant in Psychology.
- ANNETTE S. BAICH, M.S.**, Graduate Assistant in Chemistry.
- HENRY BAICH, M.Ed.**, Research Fellow in Education.
- ROBERT M. BARBER, M.A.**, Associate in Education.

JAMES L. BARLOW, B.S., Graduate Assistant in Geography.
 RICHARD E. BARLOW, B.S., Graduate Assistant in Mathematics.
 DENNIS E. BARNUM, B.A., Graduate Assistant in Chemistry.
 ALAN BARON, M.A., Graduate Assistant in Psychology.
 * EAMON B. BARRETT, B.A., Graduate Assistant in Philosophy.
 GORDON BARRON, B.S., Associate in Education.
 RUTH BEACON, M.A., Associate in Education.
 HAROLD A. BEALL, M.Ed., Intern in Educational Administration.
 MARK D. BEALOR, B.S., Graduate Assistant in Chemistry.
 GEORGIANNA K. BEAVER, M.M., Graduate Assistant in Music.
 ROBERT B. BENNETT, B.A., Research Assistant in Physics.
 SEVILLA BERREMAN, M.A., Associate in Education.
 AGNES BEST, M.A., Associate in Education.
 PAUL BETTEN, M.Ed., Graduate Assistant in Education.
 WILLIAM BISHOP, M.A., Associate in Education.
 CATHERINE F. BLACK, B.A., Graduate Assistant in Romance Languages.
 GEORGE BOEHM, B.S., Associate in Education.
 NINA BOESEN, B.S., Associate in Education.
 CURTIS E. BORCHERS, M.S., Research Assistant in Chemistry.
 GEORGE M. BOWER, B.S., Graduate Assistant in Chemistry.
 BURTON O. BOYD, B.A., Graduate Assistant in Psychology.
 JOHN C. BRAUN, B.S., Graduate Assistant in Art.
 RICHARD A. BRAY, B.S., Graduate Assistant in Geology.
 WESTON BROCKWAY, M.A., Associate in Education.
 JOHN C. BROWN, M.A., Carnegie Fellow in Political Science.
 EMORY L. BRUNS, M.S., Associate in Education.
 RALPH BUNCH, B.S., Associate in Education.
 J. PAUL BURCH, B.Ed., Associate in Education.
 NICHOLAS A. BUSSARD, B.A., Graduate Assistant in Music.
 MERVYN L. CADWALLADER, M.A., Carnegie Fellow in Sociology.
 MICHAEL CALLAHAN, M.S., Associate in Education.
 MARY F. CALLANTINE, B.A., Research Assistant in Psychology.
 CHARLES P. CAMPBELL, B.A., Graduate Assistant in Art Education.
 JAMES E. CARLAT, B.S., Graduate Assistant in Geology.
 MADGE CHILCOTE, M.L.S., Associate in Education.
 DOROTHY CHRISTENSEN, B.S., Associate in Education.
 RIN CHU, M.S., Research Assistant in Chemistry.
 WILLIAM D. CLARK, B.S., Research Assistant in Chemistry.
 DAVID L. COLE, B.S., Research Assistant in Anthropology.
 ROBIN E. COLLINS, Research Assistant in Romance Languages.
 FREDERICA COONS, M.A., Associate in Education.
 JOHN E. COTTON, B.A., Graduate Assistant in Chemistry.
 ELINOR A. CRAWFORD, M.A., Graduate Assistant in Physical Education.
 ROBERT CROSIER, B.A., Associate in Education.
 CORNELIUS CREMER, M.Ed., Teaching Fellow in Education.
 ENA CUNNINGHAM, B.A., Associate in Education.
 LAWRENCE DAGGETT, M.A., Associate in Education.
 MILDRED B. DART, B.S., Associate in Education.
 HESTER A. DAVIS, B.A., Research Assistant in Anthropology.

* Resigned Nov. 30, 1953.

JACK F. DAVIS, M.A., Graduate Assistant in Physical Education.
DONALD DEBRODT, M.A., Associate in Education.
WILLIAM DEDMAN, M.Ed., Associate in Education.
BERYL DEFORD, B.S., Associate in Education.
MARCEL J. DE LOTTO, M.A., Graduate Assistant in Physical Education.
DOROTHY DEVEAU, M.Ed., Associate in Education.
ROBERT S. DE ZUR, M.A., Graduate Assistant in Mathematics.
RICHARD T. DILLON, B.S., Graduate Assistant in Mathematics.
PETER G. DROBAC, B.S., Graduate Assistant in English.
JESS DUNNING, B.A., Associate in Education.
WILMA EARNEST, B.S., Associate in Education.
MAECEL EDWARDS, B.A., Associate in Education.
MARJORIE ENGLISH, B.S., Associate in Education.
ALLEN G. ERICKSON, M.A., Graduate Assistant in Education.
HARRY O. ERICKSON, B.A., Associate in Education.
RUSSELL M. ESVELT, M.A., Intern in Educational Administration.
IDELLA M. EVANS, M.S., Teaching Fellow in Psychology.
JOAN FENNELLY, B.A., Associate in Education.
NEIL R. FETTER, B.S., Graduate Assistant in Chemistry.
BURTON FILUT, M.S., Associate in Education.
ARTHUR E. FITZNER, B.S., Graduate Assistant in Business Administration.
PHILLIP O. FOSS, M.S., Graduate Assistant in Political Science.
RUFUS M. FRANZ, M.Ed., Associate in Education.
OREN FREERKSEN, B.S., Associate in Education.
LEONARD H. FREY, M.A., Teaching Fellow in English.
HELEN J. FRYE, B.A., Graduate Assistant in English.
VERA J. FULLER, B.S., Graduate Assistant in Physical Education.
WILLIAM R. GARDNER, B.B.A., Graduate Assistant in Economics.
CARROL F. GATES, B.B.A., Graduate Assistant in Business Administration.
JACK P. GIBBS, M.A., Carnegie Fellow in Sociology.
CLAIRE GIBSON, B.S., Associate in Education.
KENT GILL, M.Ed., Associate in Education.
EDNA GLINES, B.S., Associate in Education.
KEITH GOLDEHAMMER, M.A., Research Assistant in Education.
FRANK M. GOODE, B.A., Graduate Assistant in Psychology.
MARIE GROVES, B.S., Associate in Education.
GEORGE HADLEY, M.A., Associate in Education.
ARNOLD J. HAGEN, M.Ed., Graduate Assistant in Education.
MARKO L. HAGGARD, M.A., Graduate Assistant in Education.
JOHN W. HAKANSON, B.A., Graduate Assistant in Political Science.
JOHN HALE, M.S., Associate in Education.
LOUIS B. HALL, M.A., Graduate Assistant in English.
ELIZABETH A. HART, B.A., Graduate Assistant in English.
*JAMES T. HART, B.S., Graduate Assistant in Economics.
ARTYCE L. HAWMAN, B.S., Graduate Assistant in Biology.
ZILDA HAYES, B.A., Associate in Education.
JOY S. HELLER, B.A., Graduate Assistant in Mathematics.
KEITH HELLER, B.S., Graduate Assistant in Business Administration.
RUSSELL HENDRICKS, M.A., Associate in Education.

* Resigned Dec. 31, 1953.

RAY C. HENDRICKSON, M.S., Associate in Education.
JOHN M. HESS, B.S.C., Graduate Assistant in Business Administration.
RICHARD G. HIATT, B.A., Graduate Assistant in Speech.
LAUREL HJELTE, B.S.L.S., Associate in Education.
LOIS J. HOLEMAN, A.B., Graduate Assistant in Speech.
KENNETH L. HOLMES, M.A., Graduate Assistant in Journalism.
MARION S. HOPPER, B.S., Associate in Education.
AMBROSE HUFF, M.A., Associate in Education.
HELEN L. HUGHES, B.A., Associate in Education.
LARRY C. HUNTER, M.A., Graduate Assistant in Mathematics.
LILIAS HYND, M.A., Associate in Education.
WILLIAM A. JARDINE, B.A., Graduate Assistant in Anthropology.
OLEG JEFIMENKO, B.A., Graduate Assistant in Physics.
HARRY B. JOHNSON, M.Ed., Associate in Education.
QUENTIN G. JOHNSON, A.B., Graduate Assistant in English.
WILLIAM JOHNSON, M.S., Associate in Education.
ERWIN JULFS, M.A., Associate in Education.
BERT KERNS, M.S., Associate in Education.
KENNETH KIENZLE, M.Ed., Associate in Education.
LEONARD B. KIMBRELL, M.S., Graduate Assistant in Art Education.
NINA ZOE KITTS, M.S., Associate in Education.
MARY A. KRIDER, M.Ed., Associate in Education.
HENRY KUCHERA, M.S., Associate in Education.
NELLIE LAKE, B.S., Associate in Education.
LAVERNE LAMB, B.S., Associate in Education.
LOTTIE LEE LAMB, M.A., Associate in Education.
HILBERT F. LEE, B.A., Graduate Assistant in History.
GEORGE L. LEFFERTS, B.A., Graduate Assistant in Education.
GEORGE LERCH, B.A., Research Assistant in Mathematics.
HELEN M. LETTOW, B.A., Associate in Education.
C. DOUGLAS LIND, B.S., Graduate Assistant in Chemistry.
IVAR LINDSTROM, M.A., Teaching Fellow in Physics.
CALVIN T. LONG, M. S., Graduate Assistant in Mathematics.
CECELIA LONG, M.A., Associate in Education.
JAMES B. MACQUEEN, B. A., Graduate Assistant in Psychology.
ROBERT W. MAFFIN, B.S., Graduate Assistant in Political Science.
EUGENE A. MAIER, M.A., Teaching Fellow in Mathematics.
MARY MALLERY, M.B.A., Associate in Education.
DONALD L. MANLEY, B.S., Graduate Assistant in Physics.
JAMES C. MARTIN, B.Mus.Ed., Associate in Education.
LOUISE MASON, B.A., Associate in Education.
RENEE MASSON, B.A., Associate in Education.
MARCELLE MAYNARD, B.S., Associate in Education.
MABEL B. McCLAIN, B.A., B.S., Research Associate in History.
RAYMOND D. MCCOY, M.A., Research Assistant in Chemistry.
MARGARET L. McCULLOCH, M.S., Graduate Assistant in Physical Education.
OLA McDERMOTT, B.A., Associate in Education.
JUDITH McDOWELL, B.A., Graduate Assistant in English.
GEORGE McELHOE, B.S., Associate in Education.
FRANCIS A. McENANEY, B.S., Graduate Assistant in Economics.

HELEN MCKENNEY, B.A., Associate in Education.
PAUL K. McMULLEN, B.A., Graduate Assistant in Speech.
MARTIN MEADOWS, B.A., Graduate Assistant in Political Science.
SURINDER K. MEHTA, B.S., Graduate Assistant in Sociology.
DUANE MELLEM, M.A., Associate in Education.
GHAIDA E. MEO, B.A., Graduate Assistant in English.
DEAN W. MICKELWAIT, M.A., Associate in Education.
BYRON MILLER, M.S., Associate in Education.
CLIFFORD R. MILLER, M.A., Graduate Assistant in History.
GRACE MILLER, A.B., Associate in Education.
ROBERT MOBLO, M.A., Associate in Education.
THOMAS E. MORIARTY, M.A., Graduate Assistant in Education.
DAVID MORTIMORE, B.A., Associate in Education.
CHARLES W. MULLALEY, B.S., Associate in Education.
ROSE MARIE MYERS, M.S., Teaching Fellow in Biology.
THEODOR NAUMANN, M.A., Graduate Assistant in Education.
ANN C. NELSON, M.A., Graduate Assistant in Sociology.
BRUCE E. NELSON, B.A., Associate in Education.
CALVIN C. NELSON, M.S., Graduate Assistant in Philosophy.
CORALIE A. NELSON, B.A., Graduate Assistant in Romance Languages.
GEORGE B. NELSON, M.S., Associate in Education.
IRAL C. NELSON, B.S., Graduate Assistant in Physics.
JAMES T. NELSON, M.A., Teaching Fellow in Physics.
ROY G. NEVILLE, M.S., Research Assistant in Chemistry.
GEORGE NIEMI, M.A., Associate in Education.
LOUISE NIMMO, B.S., Associate in Education.
H. VIRGINIA NYE, B.M., Graduate Assistant in Music Education.
NORMAN ODOM, M.A., Associate in Education.
ROBERT G. OLLER, B.S., Graduate Assistant in Anthropology.
MARTEN OOSTERKAMP, Ingenieur Landbouwkundig, Graduate Assistant in Architecture.
JAMES R. ORENDURFF, B.A., Graduate Assistant in Biology.
VIRGINIA E. ORKNEY, M.A., Graduate Assistant in History.
LEO D. OSBORN, B.A., Graduate Assistant in Romance Languages.
FREDERIC C. OSGOOD, B.S., Research Assistant in Education.
RETTA OTTO, B.S., Associate in Education.
*WILLIAM J. PARKER, B.S., Research Fellow in Physics.
KAMINI M. PATWARY, M.S., Graduate Assistant in Mathematics.
V. GWEN PAUGH, B.A., Graduate Assistant in Romance Languages.
PAULINE PEARCE, M.Ed., Associate in Education.
ELDEN PENTTILA, B.S., Associate in Education.
GEORGE PETERSON, M.Ed., Associate in Education.
JACK PIERCE, B.A., Graduate Assistant in Anthropology.
LOLITA PIERSON, M.S., Associate in Education.
ROBERT G. PILMER, B.A., Graduate Assistant in Chemistry.
VIVIAN H. PITMAN, B.A., Associate in Education.
LANCASTER POLLARD, B.A., Research Associate in History.
GERHARD POPPINGA, M.A., Associate in Education.
JOHN A. PORTER, M.A., Graduate Assistant in Education.

* Resigned Nov. 20, 1953.

PAUL F. POTTER, M.Ed., Associate in Education.
GLADYS J. PUTNEY, M.A., Research Assistant in Sociology.
SNELL PUTNEY, M.A., Graduate Assistant in Sociology.
JOHN G. RANLETT, M.S., Graduate Assistant in Economics.
LOREN W. RANTON, B.A., Graduate Assistant in Psychology.
GERALD RASMUSSEN, B.S., Graduate Assistant in History.
HJALMAR J. RATHE, B.S., Graduate Assistant in Business Administration.
JOHN J. REARDON, M.A., Teaching Fellow in Biology.
DONALD E. REHFUSS, B.A., Graduate Assistant in Physics.
DONALD C. RENNICKE, B.S., Graduate Assistant in Education.
MONTANA RICKARDS, M.Ed., Associate in Education.
JOSEPH E. RICKENBACKER, M.A., Graduate Assistant in Economics.
KATHRYN S. RIDDLE, M.S., Graduate Assistant in Physical Education.
WILLIAM L. ROACH, JR., M.A., Graduate Assistant in Mathematics.
BESSIE ROBERTSON, B.S., Associate in Education.
LENARD ROBERTSON, M.S., Associate in Education.
NORA ROBERTSON, M.A., Associate in Education.
FRANK J. ROMANO, M.Ed., Associate in Education.
ROBERT G. ROSS, M.A., Graduate Assistant in English.
MAXINE ROWAN, M.A., Associate in Education.
HARLEY SCHAEFER, M.A., Associate in Education.
ESTLEY SCHICK, B.A., Associate in Education.
MILDRED C. SCHMIDT, M.A., Graduate Assistant in Education.
DONALD J. SEEMANN, B.A., Graduate Assistant in Biology.
DONNA G. SEEMANN, B.S., Graduate Assistant in Biology.
LOYD SEEMAN, M.Ed., Associate in Education.
KITTY LOU SHAW, B.S., Associate in Education.
KARL W. SHIRLEY, M.Ed., Graduate Assistant in Mathematics.
BARBARA C. SHREVE, A.B., Graduate Assistant in Romance Languages.
CHESTER S. SHULDA, B.S., Associate in Education.
MADAN SINHA, M.A., Research Assistant in Psychology.
LYLE SMALL, M.A., Associate in Education.
EARL SMITH, M.A., Associate in Education.
LOUISE W. SMITH, B.A., Graduate Assistant in Business Administration.
RICHARD D. SMITH, B.A., Graduate Assistant in Geography.
ARDIS SORENSON, B.A., Associate in Education.
LOIS SPARKMAN, M.S., Associate in Education.
HAROLD W. SPECHT, M.M.Ed., Associate in Education.
AMY LOU SPENCE, B.S., Associate in Education.
GILBERT SPRAGUE, M.S., Associate in Education.
JAMES W. SPRAGUE, B.S., Research Assistant in Chemistry.
LOUISE SPRAGUE, M.A., Associate in Education.
JOHN J. STEWART, B.S., Graduate Assistant in Journalism.
JAMES M. STIDHAM, B.A., Graduate Assistant in Architecture.
KARL R. STROMBERG, B.A., Graduate Assistant in Mathematics.
WILMA A. SUNDAHL, B.A., Graduate Assistant in Speech.
MARY MARTHA SWEENEY, B.S., Associate in Education.
A. BRUCE TAGGART, B.A., Graduate Assistant in Romance Languages.
JOHN F. TAUGHER, B.A., Research Assistant in Biology.
JEREMY TAYLOR, B.S., Graduate Assistant in Physics.

TRUMAN E. TEETER, M.S., Research Assistant in Chemistry.
MARIE TINKER, M.S., Associate in Education.
WILLIAM E. TINSLEY, B.A., Graduate Assistant in Philosophy.
WILLIAM TWEEDIE, M.A., Associate in Education.
PEARL VAN NATTA, M.S., Research Assistant in Mathematics.
M. S. VENKATARAMANI, M.A., Carnegie Fellow in History.
WILLIAM E. WALLACE, B.A., Teaching Fellow in Romance Language.
LLOYD WARD, M.S., Associate in Education.
CECIL WARNER, M.S., Associate in Education.
JOSEPH WEISSBART, A.B., Research Assistant in Chemistry.
VIRGINIA WEST, B.A., Associate in Education.
ALAN WICKHAM, B.S., Associate in Education.
CHARLES WILBUR, M.Ed., Associate in Education.
HELOISE ANNE WILCOX, B.A., Associate in Education.
RALPH R. WILKINSON, B.A., Graduate Assistant in Chemistry.
CHARITY WILLIAMS, B.A., Graduate Assistant in Romance Languages.
CHRISTOPHER P. S. WILLIAMS, B.A., Graduate Assistant in Physics.
WILLIAM WILLIAMS, M.S., Associate in Education.
GROVER C. WILLIS, JR., B.A., Graduate Assistant in Chemistry.
RUTH S. WILLOUGHBY, M.S., Teaching Fellow in Biology.
VEOLA WILMOT, M.A., Associate in Education.
MAJOR L. WILSON, M.A., Carnegie Fellow in History.
CORA WIPER, B.S., Associate in Education.
JAMES W. WITZIG, M.S., Graduate Assistant in Psychology.
JAMES A. WOOD, B.A., Graduate Assistant in Speech.
WILLIAM WOODIE, B.S., Associate in Education.
WANDA YARBROUGH, B.S., Associate in Education.
JOSEPH YOSELOFF, M.S., Associate in Education.
HERMAN ZIFFER, M.S., Research Assistant in Chemistry.
HOWARD C. ZIMMERMAN, A.B., Graduate Assistant in Speech.
DWIGHT J. ZULAUF, M.S., Graduate Assistant in Business Administration.

General Information

History

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 two townships selected was to be located north of the Columbia.

On July 17, 1854, the grant was modified by an act reserving two townships each for the newly created 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. The population of the territory in 1850 (including 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; the United States census of 1870 reports twenty as the number of "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 came at about the same time. After an intense struggle to keep the enterprise alive and a two-year extension of time for completion, the conditions specified in the act creating the University were declared fulfilled, and the site and building were accepted by the state on July 28, 1876. 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 School of Music was established 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 and Physical Education in 1920. The University of Oregon Dental School was established in

Portland in 1945, when the Oregon Legislature accepted the gift of the property of the North Pacific College of Oregon and made this institution a school of the University. (The North Pacific College was the outgrowth of the merger in 1900 of the Tacoma College of Dental Surgery, founded in 1893, and the Oregon College of Dentistry, founded in 1898).

In 1932, when the Oregon State System of Higher Education was formed, departments of the old liberal-arts college were reorganized into a College of Arts and Letters and a College of Social Science. Under the 1932 allocations of functions, the University offered only lower-division and service work in the biological and physical sciences. In 1941, the Board of Higher Education authorized the University to re-establish major undergraduate and graduate work in science, beginning with the academic year 1942-43. In 1942, the Board approved the merging of the College of Arts and Letters, the College of Social Science, and the science departments into a College of Liberal Arts.

The Graduate School was established in 1900. In 1933, as a part of the State System reorganization, an interinstitutional Graduate Division was created for the administration of graduate work in all institutions of the System. In October 1946, the Board of Higher Education returned to the institutions direct responsibility for their programs of advanced study, and re-established the University Graduate School.

Since the founding of the institution, 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, from 1954.

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." By virtue of this act, and beginning July 1, 1931, the Board has administered 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: a millage appropriation equal to 2.04 mills on all taxable property; certain continuing appropriations from the state for definite purposes; specified sums from the national government assigned for definite purposes by Congressional acts; income from student tuition and fees; and other sources such as sales, service charges, gifts, etc.

Campus

THE main campus of the University of Oregon is located in Eugene (population 35,879), 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 Street. The first University buildings were erected north of this street, on which 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, the Art and Architecture Building, Allen Hall, and Friendly Hall. Johnson Hall (the Administration Building) is located across Thirteenth Street, 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 Street, 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, Architecture Annex, Emerald Hall (a temporary structure housing administrative and student-counseling offices), the Donald M. Erb Memorial Union, and Carson Hall, a women's dormitory.

Since the end of World War II, extensive temporary housing facilities for veteran 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 main campus.

There are two notable bronze statues on the campus, "The Pioneer," given to the University in 1919 by Joseph N. Teal; and "The Pioneer Mother," given to the University in 1932 by Vice-President Burt Brown Barker, in memory of his mother. "The Pioneer" stands on the old campus, facing Johnson Hall. "The Pioneer Mother" is in the women's quadrangle. Both are the work of Alexander Phimister Proctor.

Libraries

CARL W. HINTZ, Ph.D.	Librarian
JOHN F. LAUBER, M.A., M.L.S.	Administrative Assistant
EUGENE B. BARNES, Ph.D.	Head Acquisition Librarian
ELIZABETH FINDLY, A.M.L.S.	Head General Reference and Documents Division
DON L. HUNTER, B.S.	Head of Audio-Visual Department
CLARICE E. KRIEG, B.S. in L.S., A.M.	Head Catalog Librarian
JOHN M. WILLIAMSON, B.L.S., M.A.	Head Humanities Librarian
PERRY D. MORRISON, B.S. in L.S., M.A.	Head Social Science Librarian
ALAN W. ROECKER, B.L.S., Ph.M.	Head Science Librarian
ARTHUR L. DEVOLDER, B.S. in L.S., M.A.	Head Circulation Librarian
BERNICE RISE, A.B., B.S. in L.S.	Readers' Consultant and Browsing Room Librarian
MARTIN SCHMITT, B.S., B.S. in L.S.	Curator of Special Collections
ELLA S. CARRICK, B.A.	Senior Catalog Librarian
MARGARET MARKLEY, A.B., B.S. in L.S.	Senior Catalog Librarian
TRUE MORRIS, M.A.	Senior Humanities Librarian
EMMA G. WRIGHT, A.B., B.S. in L.S.	Senior Acquisition Librarian
IONE PIERRON, B.A., B.A. in Lib.	Senior Reference Librarian
ROBERT R. MCCOLLOUGH, M.S., M.A.	Reference Librarian
MARIE FLACK, B.A., B.S. in L.S.	Catalog Librarian
D. KATHLEEN EADS, B.A., M.S.	Catalog Librarian

WILLIAM F. LINDGREN, B.S., B.S. in L.S.	.....	Catalog Librarian
JEAN WANG, M.A., M.L.	.....	Acquisition Librarian
CORWIN V. SEITZ, B.A.	.....	Acquisition Librarian
ELIZABETH DEGREE, B.S., B.S. in L.S.	.....	Acquisition Librarian
BETTY MAE STAMM, B.A.	.....	Acquisition Librarian
ROBERT MARSHALL, B.A., B.L.S.	.....	Social Science Librarian
EDWARD P. THATCHER, B.S. in L.S., M.A.	.....	Science Librarian
FRANCES NEWSOM, B.A., M.A.	.....	Architecture and Allied Arts Librarian
LOIS I. BAKER, M.A.	.....	Law Librarian
THOMAS H. CAHALAN, B.A., M.S. in L.S.	.....	Dental School Librarian
BERTHA HALLAM, B.A.	.....	Medical School 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 divisional plan was adopted after the completion of a new addition to the University Library building in the fall of 1950, which increased the maximum book-shelf capacity of the building to 600,000 volumes and the reader facilities to a total of 1,300 persons.

The services of the several 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 archives.

The University Library was founded in 1882 through a gift of \$1,000 worth of books 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. At the present time, all the income from this endowment is used for the purchase of books.

In addition to the general Library collections, the University has a number of specialized libraries with permanent collections. The holdings of the several libraries listed in the following table are as of January 1, 1954:

General Library.....	482,058
Law Library.....	43,761
Municipal Reference Library.....	14,704
Museum of Art Library.....	5,152
Dental School Library.....	5,639
Medical School Library.....	53,621
Total.....	604,935

Other materials in the University Library include: 43,956 maps; 32,676 photographs, prints, and pictures; 6,069 sound recordings; 42,888 film strips and slides; and 151 motion picture films.

The facilities for the undergraduate work of the institution are excellent; and special collections for advanced study and research are being built in the various fields of liberal and professional scholarship. All of the books in the libraries of the several 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 journals; 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 Adelaide 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, maintained by 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, codes and 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 law includes an extensive file of Oregon Supreme Court briefs.

The Museum of Art Library of books on the history, literature, life, and particularly the art of Oriental countries, is the gift of Mrs. Gertrude Bass Warner. The Library occupies attractive quarters on the first floor of the Museum of Art.

The School of Architecture and Allied Arts has a reference collection in the Art and Architecture Building. 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 of Oregon Medical School Library and the University of Oregon Dental School Library are located in Portland.

Service. During the regular session 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.

(2) The following fines are charged for violation of rules governing reserve books and material circulated by special permission: (a) for overdue books, a regular fine of 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 cases of flagrant violation of the rules); (b) for failure to return books to proper department desk, a fine of 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, refunds to the borrower may be made, at the discretion of the librarian.

Instruction. A program of study in library science is offered through the School of Education for students interested in becoming teacher librarians in the public schools. The program is planned to provide an undergraduate or graduate minor in library science.

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 facilities of the state institutions of higher education in Oregon 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.

The collections at the several institutions are 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. 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 Murray Warner Collection of Oriental Art, housed in the Museum of Art, and the Museum of Natural History. Student art work and loan exhibitions are shown in the Art Gallery in the Art and Architecture Building. A permanent collection of contemporary paintings is exhibited in the Art and Architecture Library. Art exhibits are also shown in the gallery on the second floor of the Student Union.

Warner Collection of Oriental Art

WALLACE S. BALDINGER, Ph.D. Curator
TRUE MORRIS, M.A. Librarian

The Museum of Art, housing the Murray Warner Collection of Oriental Art, 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 as a center of research in Far Eastern studies in the College of Liberal Arts and professional studies in the School of Architecture and Allied Arts.

Works of art comprising the Murray Warner Collection now number 3,196 accessioned objects and numerous other items as yet uncatalogued. The majority of the works represent the cultures of China and Japan, but the cultures of Korea, Cambodia, Mongolia, and Russia are also represented.

Museum of Natural History

L. S. CRESSMAN, Ph.D.....	Director; Curator of Anthropology
J. A. SHOTWELL, Ph.D.....	Curator
WILLIAM S. LAUGHLIN, Ph.D.....	Assistant Curator of Physical Anthropology
THEODORE STERN, Ph.D.....	Assistant Curator of Ethnology
R. R. HUESTIS, Ph.D.....	Curator of Vertebrate Collections
E. M. BALDWIN, Ph.D.....	Curator of Geology
LEROY DETLING, Ph.D.....	Curator of Herbarium

The Museum of Natural History consists of five divisions: Anthropology, Botany, Geology, Palaeontology, and Zoology. The staff invites inquiries concerning the collections and the fields of knowledge represented. Access to study specimens may be had on application to the curators. The Museum of Natural History welcomes gifts to its collections.

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; display collections of minerals arranged according to the Dana classification; an educational set of rocks and minerals, given to the University by the United State Geological Survey; suites of fossils, both vertebrate and invertebrate, from various regions in the western part of the American continent; a complete fossil skeleton of the extinct saber-tooth tiger from the Rancho La Brea near Los Angeles, California; and other items of general and educational interest, including relief models and demonstration materials.

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 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 up.

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 collection: 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 the 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 set 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 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 eight 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 in 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.

Studies in Bibliography. Bibliographical studies, based principally on the resources of the University Library, are published occasionally in a series entitled **UNIVERSITY OF OREGON LIBRARY STUDIES IN BIBLIOGRAPHY.**

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 cancelled. All records submitted become the property of the University.

Admission to Freshman Standing

Graduation from a standard high school is required for admission to freshman standing. Residents of the state of Oregon who are graduates of standard high schools, and who have not been previously registered in any collegiate institution, are admitted to the University as freshmen when complete records have been received in the office of the Director of Admissions.

The University thus affords to all Oregon residents who are graduates of standard high schools the opportunity to demonstrate in the University their ability to pursue higher education. But it cannot extend to all nonresident high-school graduates the same opportunity to prove their ability by work in the University; only those nonresident high-school graduates for whom the University can predict reasonably certain success in higher education are admitted. To provide a basis for selection, one of the following is required of a nonresident:

(1) A rank in the upper half of his high-school graduating class (certified by his principal).

(2) A rating of at least 5 on his high-school grades (as computed by the University).

(3) A college-ability test rating of at least 5 (on the Ohio Psychological Examination or the College Entrance Examination Board Scholastic Aptitude Test*).

High-school records submitted must include records of all work beyond the eighth grade; they must be certified by the proper school official, on the official form used by the high school for this purpose.

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 depart-

* Information concerning scheduled dates and examination centers may be obtained from the College Entrance Examination Board, Princeton, N.J., or P.O. Box 9896, Los Feliz Station, Los Angeles 27, Cal.

ment 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 of 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.

No advanced standing is granted at entrance for work done in nonaccredited collegiate institutions. 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 in the nonaccredited institution; validating examinations may be required.

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.

A special student should qualify for regular standing as soon as possible, by satisfactory University work and by the removal of any entrance deficiencies; he 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

Graduates of accredited colleges and universities are admitted to regular graduate standing when they have filed with the Director of Admissions official transcripts of all college work, provided their credentials indicate that they will be able to maintain a satisfactory scholastic record in their graduate studies.

Provisional graduate standing may be granted, as a temporary classification, when the applicant files evidence that he has a bachelor's degree and will be able to qualify for regular graduate standing. Graduates of nonaccredited institutions may be admitted to regular graduate standing after completing at least one term of satisfactory graduate work in the University.

* See page 51, note (*).

Entrance Examinations

TO PROVIDE the faculty with a basis for reliable advice and assistance to students planning their programs, the University requires entering undergraduates to take placement examinations. These examinations are considered to some extent a measure of ability to do University work, and the results are used as a basis for planning the student's educational and vocational program. Freshmen with low ratings on the English placement examination are required to take Corrective English (Wr 10).

A physical examination is required of all 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 institution and to the student. 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

IF THE 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 academic degrees:

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.*

Dentistry—*M.S., D.M.D.*

Education—*B.A., B.S., B.Ed., M.A., M.S., M.Ed., D.Ed., 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., M.Mus., M.A., M.S., M.Mus.*

Nursing Education—*B.A., B.S.*

Work leading to the degrees of *M.A. in General Studies* and *M.S. in General Studies* is offered under the direction of the Graduate School.

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 ratings on a placement examination given to all entering students: Corrective English (Wr 10).

- (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.* (A student who has completed 4 terms of physical education with a grade of C or higher may, with the consent of the dean of the School of Health and Physical Education, be excused from further work in this field.)
- (3) Health education: HE 150 for men; HE 114, 115, 116 or HE 250 for women.*
- (4) Military science: 6 terms for men, unless excused.*
- (5) Group requirement: four sequences in the liberal arts numbered from 100 to 110 or 200 to 210, including one sequence in each of the three groups (arts and letters, social science, science) and a second sequence in one of the three groups.
 - (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.
 - (e) For a classified list of courses which satisfy the group requirement, see pages 56-57.
- (6) Grade-point average on completion of 93 term 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.

* Veterans, on filing evidence of military service, are granted credit in military science and in health and physical education, and are exempt from required work in these fields.

- (c) Any additional requirements of the major school or department (satisfaction of such requirements must be checked and 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,† 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) Dentistry, law, medicine: 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 at least 15 hours must be taken in Mus 390 or Mus 490 during the junior and senior years.
 - (d) No-grade courses: minimum of 150 term hours in grade courses. See page 60.
- (8) Grade-point average, covering all work offered for the degree: 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 University of Oregon Medical School Catalog. The requirements for the degree of Doctor of Dental Medicine are listed in the University of Oregon Dental School Catalog.

Group Requirement

ALL candidates for a bachelor's degree from the University 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 one of the three groups. The courses approved for the satisfaction of this requirement are

* 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.

† 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, History, Philosophy, Political Science, Psychology, Religion, Sociology.

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

‡ 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 level, or at a 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.

listed below. For additional regulations governing the lower-division group requirement, see page 54.

All candidates for a bachelor's degree with a major in the College of Liberal Arts are required to complete two additional sequences chosen from the courses listed below or from a series of courses numbered 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.

ARTS AND LETTERS GROUP

General Arts and Letters

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

Art

*Intro. to Visual Arts (AA 201, 202, 203)

English

Survey of Eng. Lit. (Eng 101, 102, 103)
Apprec. of Lit. (Eng 104, 105, 106)
Intro. to 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)

Foreign Languages (continued)

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

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

Geography

Intro. Geography (Geog 105, 106, 107)
Regional Ec. 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

Elementary Logic (Phl 201)
Problems of Philosophy (Phl 202)
Elementary Ethics (Phl 203)
Elementary Aesthetics (Phl 204)

Political Science

American Govts. (PS 201, 202, 203)
European Govts. (PS 204)
International Relations (PS 205)

Psychology

Gen. Psychology (Psy 201, 202)
Psych. of Adjustment (Psy 204)
Applied Psych. (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)
Biol. Sc. (Soph. Honors) (GS 201, 202, 203)
Phys. Sc. (Soph. Honors) (GS 204, 205, 206)

Biology

Gen. Biology (Bi 101, 102, 203)

Chemistry

Elementary Chem. (Ch 101, 102, 203)
General Chem. (Ch 201, 202, 203)

* 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.

Geology

Gen. Geology (Geol 101, 102, 103)

Mathematics

Intermediate Algebra (Mth 100)
 Essentials of Math. (Mth 101, 102, 103)
 College Algebra (Mth 105)
 Plane Trigonometry (Mth 106)
 Analytic Geometry (Mth 107)
 Math. of Finance (Mth 108)
 Anal. Trig. & Geom. (Mth 200)
 Diff. & Int. Calculus (Mth 201, 202, 203)

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

*General Psychology (Psy 201, 202)
 *Psych. of Adjustment (Psy 204)
 *Applied Psychology (Psy 205)
 *Gen. Psych. Lab. (Psy 208, 209, 210)

Honors

THE University of Oregon offers two special programs of study as a challenge to undergraduate students of superior scholastic ability: (1) a lower-division sophomore honors program; and (2) an upper-division program leading to the bachelor's degree with honors. In addition, the University provides official recognition for students completing regular degree programs with outstanding scholastic records.

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. For further information, see COLLEGE OF LIBERAL ARTS.

Bachelor's Degree with Honors. For superior students who desire to study independently in fields related to but not fully covered by regular courses, the University offers work leading to the degrees of Bachelor of Arts with Honors and Bachelor of Science with Honors. The aim of the program is to stimulate wide reading, thorough scholarship, and original or creative work on the part of the student. An honors student is required to maintain a grade-point average of 3.00 or better during each term of his honors program.

Eligibility and Enrollment. Students who (a) have completed 93 term hours of University work, (b) have completed all lower-division requirements for a bachelor's degree, and (c) have earned a grade-point average of 2.75 or higher are automatically eligible for honors work. Other students who have been admitted to junior standing must, to be admitted to honors work, obtain the approval of the Honors Council upon the recommendation of the head of their major department or school. An honors student enrolls with the chairman of the Honors Council each term during the period he is working for honors. Usually a student begins his honors program the first term of his junior year.

Study Programs. Each honors student works under the guidance of a single department or school. His program includes regular courses which satisfy University requirements for a degree and courses related to his honors project. Work in regular courses is supplemented by independent studies supervised by a member of the faculty. For this work the student registers for "Research" or "Reading and Conference," and for "Thesis." Not more than 18 term hours of credit may be

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

earned by an honors student in independent studies in his major field. Two types of honors program, differing in the breadth of the field of study, are recognized:

(1) **General Honors.** For general honors, the student's honors program includes work offered by at least two departments (or more at the discretion of the Honors Council).

(2) **Departmental Honors.** For departmental honors, the field of the student's honors program need not extend beyond a single department or school.

Thesis and Examination. Honors studies culminate in an essay or thesis, and in an examination conducted by the department or school supervising the candidate's program. The examination must be passed and three copies of an accepted thesis must be submitted to the chairman of the Honors Council at least three weeks before Commencement. If these requirements, in addition to general University requirements for a degree, are fulfilled to the satisfaction of the Honors Council, the student receives a bachelor's degree with honors.

Recognition for High Scholarship. Candidates for the bachelor's degree who achieve a cumulative grade-point average of 3.75-4.00 receive the official award of "Recognition for Highest Scholarship"; candidates who achieve a cumulative grade-point average of 3.50-3.74 receive the official 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 *STUDENT LIFE AND WELFARE*). 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 by the Registrar's Office.

Registration Procedure

All students must register in person at the beginning of each term; registration by mail or by proxy is not permitted. Students are assigned faculty advisers, who assist their advisees in planning study programs. Complete registration instructions are contained in the Schedule of Classes. Students are completely 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.

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 catalogs are numbered as follows :

- 1- 99. Courses in the first year of foreign language, or other courses of similar grade.
- 100-110, 200-210. Survey or foundation courses which satisfy the lower-division group requirement in the arts and letters, social science, and science fields.
- 111-199, 211-299. Other courses offered at first-year and second-year level.
- 300-310. Upper-division courses which satisfy a special group requirement for majors in the College of Liberal Arts.
- 300-399. Upper-division courses not applicable for graduate credit.
- 400-499. Upper-division courses primarily for seniors. If approved by the Graduate School, these courses may be taken for graduate credit. In this Catalog, courses numbered 400-499, if approved for graduate *major* credit, are designated (G) following the title. Courses approved for graduate *minor* credit only are designated (g).
- 500-599. Courses primarily for graduate students but to which seniors of superior scholastic achievement may be admitted on approval of the instructor and department head concerned.
- 600-699. Courses that are highly professional or technical in nature and may count toward a professional degree only, and cannot apply toward advanced academic degrees such as M.A., M.S., or Ph.D.

Certain numbers are reserved for courses that may be taken through successive terms under the same course number, credit being granted according to the amount of work done. These course numbers are as follows :

- 401, 501. Research, or other supervised original work.
- 403, 503. Thesis (reading or research reported in writing).
- 405, 505. Reading and Conference* (individual reading reported orally to instructor).
- 407, 507. Seminar.

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 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 granted. Students may withdraw from a course by filing the

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

proper forms at the Registrar's Office in accordance with University regulations. A student who discontinues attendance in a course without official withdrawal receives a grade of F in the course.

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 and W are disregarded in the computation of the grade-point average.

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

Scholarship Regulations

The administration of the regulations governing scholarship requirements is vested in the Scholarship Committee of the faculty. This committee has authority to 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 Scholarship Committee.

Fees and Deposits

STUDENTS at the University* and at Oregon 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.

Regular Fees

Undergraduate Students. Undergraduate students enrolled in the University who are residents of Oregon pay regular fees each term of the regular academic

* Except students at the Medical School and Dental School. The fee schedules for students in these schools are published in their separate catalogs.

year, as follows: tuition, \$10.00; laboratory and course fee, \$20.00; incidental fee, \$17.00; building fee, \$8.00. The total in regular fees, which includes all laboratory and other charges in connection with instruction,* is \$55.00 per term.

Undergraduate students who are not residents of Oregon pay the same fees as Oregon residents, and, in addition, a nonresident fee of \$60.00 per term, making a total of \$115.00 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.....	20.00	60.00
Incidental fee.....	17.00	51.00
Building fee.....	8.00	24.00
Total for Oregon residents.....	\$ 55.00	\$165.00
Total for nonresidents (who pay an additional nonresident fee of \$60.00 per term).....	\$115.00	\$345.00

Graduate Students. The regular fees and tuition for graduate students† total \$55.00 per term. Students holding graduate or research assistantships or fellowships pay fees totaling \$20.50 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 students under the conditions indicated:

Part-Time Fee.....per term, \$12.00 to \$36.00

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, \$12.00; 3 term hours, \$18.00; 4 term hours, \$24.00; 5 term hours, \$30.00; 6 term hours, \$36.00. 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

On approval by the President's Office, full-time staff members registering for University courses pay a special staff fee of \$3.00 per term hour. Work taken under the staff fee is limited to a maximum of 5 term hours a term. Payment of this fee entitles staff members to instructional and Library privileges only.

Auditor's Fee.....per course per term, \$5.00

An auditor is a person who has obtained permission to attend classes (but not laboratory sessions) without receiving academic credit; he is not considered an enrolled student. The auditor's fee is payable at the time of registration, and entitles the student to attend classes, but to no other institutional privileges. Students regularly enrolled in the University may be granted the privileges of an auditor without paying the auditor's fee.

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

† Except students in the School of Law, who pay undergraduate fees.

Late-Registration Fee	per day, \$1.00
Students registering after the scheduled registration dates of any term pay a late-registration fee of \$1.00 per day. Part-time students who register late are charged a late-registration fee at the rate of \$1.00 a week.	
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 Fees	\$1.00 to \$10.00
A student pays a fee of \$1.00 a term hour for the privilege of taking an examination for advanced credit, or other special examinations. A graduate student taking his preliminary or final examination at a time when he is not registered for academic work pays an examination fee of \$10.00.	
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
One transcript of credits is issue free to any student; for additional copies of this first transcript, the student pays a fee of 50 cents each. For any transcripts issued after the first, a fee of \$1.00 is charged for the first copy, and 50 cents for each additional copy.	
Placement-Service Fees	See SCHOOL OF EDUCATION
Music Course Fees	See SCHOOL OF MUSIC
Library Fines and Charges	See LIBRARY

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 of application for refund and 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 term.

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 institutions 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, or (e) 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) Residence 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 resident 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.

Student Life and Welfare

Office of Student Affairs

DONALD M. DUSHANE, M.A.	Director of Student Affairs
J. SPENCER CARLSON, M.A.	Associate Director (Admissions and Counseling)
CLIFFORD L. CONSTANCE, M.A.	Registrar
RAY HAWK, D.Ed.	Associate Director (Men's Affairs)
KARL W. ONTHANK, M.A.	Associate Director (Graduate Placement)
GOLDA P. WICKHAM, B.S.	Associate Director (Women's Affairs)
KENNETH S. GHENT, Ph.D.	Foreign-Student Adviser
PAT A. KILLGALLON, D.Ed.	Director of Reading Clinic
LEONA E. TYLER, Ph.D.	Counselor, Counseling Center
KENNETH S. WOOD, Ph.D.	Director of Speech and Hearing Clinic
ALFRED L. ELLINGSON, B.S.	Counselor for Men
VIRGINIA KEMPSTON, M.A.	Counselor for 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 Director of Student Affairs is assisted by four associate directors, with special responsibilities for: women's affairs, men's affairs, admissions and the University Counseling Center, and employment and graduate placement. The Registrar's Office also operates under the general direction of the Director of Student Affairs.

The director 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.

Foreign-Student Adviser. A member of the staff of the Office of Student Affairs serves as special adviser to foreign students attending the University, to assist them with personal problems and with adjustments to the customs and procedures of American educational systems. The foreign-student adviser is prepared to give advice and help in connection with visas, government regulations, scholarships, employment, and general orientation to American life.

University Placement Services. The University maintains three offices to provide assistance to students and graduates in obtaining employment: (1) the Student Employment Service, to aid students seeking part-time and vacation jobs (see page 69); (2) the Teacher Placement Service, for the placement of graduates in teaching and administrative positions in the public schools (see SCHOOL OF EDUCATION); and (3) the Graduate Placement Service, to aid graduates seeking professional employment in nonteaching fields.

In its effort to help persons trained at the University to find positions for which they are qualified by ability and education, the Graduate Placement Service maintains contacts between the University and employers, particularly in Oregon and the Pacific Northwest. Its program is carried on in cooperation with University schools and departments. Senior students are encouraged to file credentials with the Placement Service for future use, whether or not they need immediate assistance in obtaining employment.

The University endeavors to help each student in the selection of the life career which for him promises to be most satisfactory, and to guide him into courses and activities which are most likely to contribute toward success in his vocation and toward the development of a well-rounded personality. Successful men and women in many fields are brought to the campus for conferences with students.

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-ENTER, 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 maintained 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 cooperative houses, groups of students enjoy the benefits of group living while keeping expenses at a minimum.

University Dormitories

The University provides dormitory accommodations for 1,582 students. Living conditions are comfortable and democratic, favorable to successful student work and to participation in the wholesome activities of campus life.

Men's Dormitories. The John Straub Memorial Building provides six halls of residence for men: Alpha, Gamma, Sigma, Hale Kane, Barrister, and Sherry Ross halls. The building houses 277 students. Each hall has its own club rooms. Each room is equipped with individual study tables, study chairs, a lounge chair, individual dressers, a steel costumer, individual closet space, and a wash basin. Sleeping porches, each accommodating four men, are equipped with single beds.

Housing for 748 men is provided in two frame dormitories which were moved to the campus from industrial centers of the Pacific Northwest after the close of World War II. Each of the dormitories is divided into five units, which are named in honor of University alumni who gave their lives for their country in the war. These dormitories were originally open only to veterans; this restriction has, however, been removed. The units of Veterans Dormitory No. 1 are: Stitzer, Stan Ray, McChesney, Minturn, and Merrick halls. The units of Veterans Dormitory No. 2 are: Cherney, French, Hunter, Nestor, and Sederstrom halls. Both double and single rooms are available. Room furnishings include: single beds, chest of drawers, study table, study chairs, clothes closet for each man, occasional chair, and night stand. Each unit has an attractively furnished lounge room.

Susan Campbell Hall will be used as a men's dormitory during the academic year 1954-55. The hall has a capacity of 112 students, in suites accommodating four each.

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

Women's Dormitories. The University maintains two halls of residence for women, Hendricks Hall and Carson Hall.

Carson Hall is a five-story building completed in 1949. It houses 333 student residents, principally in rooms accommodating two girls. 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. There is a wash basin in each room. Snack kitchenettes, bathrooms with tubs and showers, complete laundry facilities, and trunk-storage rooms are provided on each floor.

Hendricks Hall houses 112 students, in suites accommodating four girls. 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 basement.

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

University Dining Halls. The University maintains four dining halls for students, in the John Straub Memorial Building, in Hendricks Hall, in Carson Hall, and in the Erb Memorial Union. Residents of Susan Campbell Hall and the veterans dormitories take their meals in the Straub dining hall.

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 reservations will not be cleared until the student has been cleared by the Director of Admissions for admission to the University.

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

	Board, per Month	Room, per Term	
		Multiple Units	Single Rooms
Straub, Hendricks, Campbell.....	\$47.00	\$53.00	\$ 79.50
*Veterans dormitories.....	47.00	50.00	63.00
Carson	47.00	68.00	102.00

Room rent is payable in two equal installments each term. The first installment is paid when the student arrives at the dormitory at the beginning of the term, the second on a fixed date 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 rushing periods set aside for this purpose. 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.

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 Pi, 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.

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

Cooperative and Independent 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 two for men, Campbell 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 Director of Women's Affairs.

Rooms in Private Homes

The housing secretary in the Office of Student Affairs maintains a file of rooms available in private homes in Eugene. Students are advised to engage rooms personally after inspection of the quarters and a conference with the householder; the housing secretary is available for any needed assistance.

Housing for Married Students

Housing for married students is provided in 375 family-dwelling units owned or operated by the University. The units include a wide variety of accommodations, from trailer houses to two-bedroom apartments. The rents range from \$26.00 to \$48.00 per month. Application should be made to the Housing Department, University Business Office.

Housing Regulations

(1) Freshmen students are required to live in the University dormitories; other lower-division men and other undergraduate women are required to live either in the dormitories or in houses maintained by organized University living groups (fraternities, sororities, cooperatives). Married students and students living with relatives in Eugene are excepted from this rule. Other exceptions are rare, and are made only for students working for room and board, or for whom rooms are not available in campus quarters.

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

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

(4) All student housing (dormitory, fraternity, sorority, cooperative, and off-campus) is taken on a term basis; students may not move during a term without special permission from the Director of Men's Affairs or the Director of Women's Affairs.

Student Expenses

The average expenses incurred by a student 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	Year
Institutional fees (for Oregon residents).....	\$ 55.00	\$165.00
Books, supplies, etc.....	20.00	43.00
Board and room.....	193.00	550.00
Incidentals.....	25.00	75.00
Total.....	\$293.00	\$833.00

It should be remembered that, in thinking 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 clothing, travel, and amusements—items which vary according to the thrift, discrimination, and habits of the individual. These items are not included in the table.

Self-Support

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.

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
LEOTA B. BOYINGTON, R.N.....	Superintendent of Nurses
GERTRUDE SMITH, R.N.....	Hospital Supervisor
BEATRICE M. PAPINEAU.....	X-Ray and Laboratory Technician
MARILYN SALMONSON.....	X-Ray and Laboratory Technician
ILA M. BARNUM, R.N.....	Nurse
ERMA UPSHAW, R.N.....	Nurse
MABEL H. MARENETTE, R.N.....	Nurse
MILDRED BUOY, R.N.....	Nurse
MARTHA C. DOUGLASS, 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 accomplishes 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. Such 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 expense 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 rooms, physiotherapy department, minor surgery, laboratory, and X-ray department. On the second floor are two-bed and four-bed wards for hospital service. Contagious cases may be isolated on this floor.

Vaccination. Under a ruling of the State Board of Higher Education, students are required, as a condition of entrance 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. The purpose of this 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.

Student Loan Funds

THE University of Oregon administers student loan funds totaling approximately \$265,000. 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 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 loan funds have grown very rapidly through gifts, bequests, and accumulated interest.

In addition to the funds administered by the University, the following loan funds are available to University of Oregon students (except where another procedure is indicated, applications for loans are made through the Office of Student Affairs):

American Association of University Women Loan Fund. Women students of the University are eligible to receive aid from the scholarship loan fund of the Eugene branch of the American Association of University Women.

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.

Crawford Loan Fund. This fund, a bequest of Edward G. Crawford and Mrs. Ida M. Crawford, his wife, is administered by the United States National

Bank of Portland as trustee. All loans must be approved by a committee consisting of three residents of Portland. The purpose of the fund is to assist worthy young men desiring to educate themselves.

P.E.O. Educational Loan Fund. P.E.O. provides loans not to exceed \$800 to undergraduate or graduate women students. The interest rate is 3 per cent. Further information may be obtained at the Office of Student Affairs.

Gertrude Watson Holman Memorial Gift Fund. Small amounts of money for emergency financial assistance to worthy women students are provided through this fund. Repayment is not required; but recipients of assistance are invited to contribute voluntarily to the fund, when they are financially able, in order that equally deserving girls may benefit.

Oregon Federation of Women's Clubs Educational Fund. This fund provides loans to women students who are well recommended.

Ben Selling Loan Fund. This fund was bequeathed by Ben Selling, and is administered by his son, Dr. Laurence Selling of Portland.

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.

Administration of Loan Funds

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) Rarely is more than \$300 lent to any individual student from University loan funds. Some other funds available to University students permit larger loans.
- (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 is the signature of two responsible property owners, in addition to that of the student borrower. The co-signers must submit evidence of their ability to pay the note—by filing a financial statement or by giving bank references. One co-signer must qualify by bank reference. It is desirable that one of the co-signers 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 following personal qualities of the student weigh heavily in the minds of the members of the Student Loan Committee: (a) scholastic record; (b) 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 at the Dental School are eligible for loans from University student loan funds on the same basis as students on the campus at Eugene.

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.

The award of scholarships and fellowships is coordinated through a faculty Committee on Scholarships and Financial Aid. A student applying for a particular scholarship is automatically given consideration for all available 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 Karl W. Onthank, chairman of the Committee on Scholarships and Financial Aid, and should be filed not later than April 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 laboratory and course fees (a total of \$30 a term or \$90 a year for a student attending the University). Recipients of scholarships must, however, pay the incidental fee, the building fee, and special fees. At least fifty per cent of the 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.

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 \$90 a term or \$270 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.

State Scholarships for Residents of Alaska and Hawaii. Students from Alaska and Hawaii who are qualified for admission and who have resided in Alaska or Hawaii for the preceding two years may be awarded scholarships covering the nonresident fee \$60.00 a term or \$180 a year. Students holding these scholarships may also apply for regular state scholarships (see above).

State Scholarships for War Orphans. State scholarships for orphans of Oregon service men are awarded on a noncompetitive basis; it is necessary, however, that the applicant show promise of successful University work and maintain a creditable record.

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.

A.S.U.O. Traffic Court Scholarship. The Student Traffic Court awards one or more \$165 scholarships each year from funds received from Traffic Court fines.

Advertising Scholarships. Several scholarships are offered annually through the Eric W. Allen Memorial Fund to junior, senior, and graduate journalism students specializing in advertising.

Eric W. Allen Memorial Fellowship. This fellowship, supported by the Eugene *Register-Guard*, pays up to \$1,000 for a year's study in the School of Journalism. Fellows are selected primarily on the basis of the service they may offer to the profession of journalism as the result of a year's study. It is ordinarily awarded to an Oregon newspaper man. Study programs may be at the graduate or undergraduate level, and need not lead to a degree. The fellowship is named in memory of Eric W. Allen, the first dean of the School of Journalism and a member of the University faculty from 1912 until his death in 1944.

Alpha Phi Omega Scholarship. Alpha Phi Omega, national service fraternity, offers an annual spring-term scholarship of \$75 to a University student of outstanding scholarship, urgent need, and good character.

Alumni Scholarships. Ten or more scholarships, supported through gifts from alumni of the University, are awarded annually to entering freshman students. The maximum award is \$300.

Associated Women Students Scholarships. The Associated Women Students of the University award one or more \$75 scholarships each year to worthy women students.

Baker Democrat-Herald Scholarship. The *Democrat-Herald* awards an annual \$165 fee scholarship to a Baker, Oregon student majoring in journalism.

Bend Alumni Scholarships. Five \$300 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 \$250 fellowship, supported by a bequest from the late Robert A. Booth of Eugene, is awarded annually to an outstanding graduate of an accredited college or university. The award 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 High School for major work in accounting in the School of Business Administration. The award is made by James B. Burleson of Dallas, Texas.

Coed-Coop Alumnae Scholarships. One or more tuition scholarships, supported by the alumnae of the women's cooperative houses, are awarded annually to freshman women students.

Thomas Condon Fellowship in Palaeontology. The Thomas Condon Fellowship is awarded as an aid to graduate study in the field of palaeontology. 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.

Bernard Daily 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 Educa-

tional 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 of 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 Music Scholarship. This scholarship, ranging in value between \$90 and \$150, is awarded annually by the Women's Choral Club of Eugene to a graduate of a Lane County, Oregon high school, for vocal-music instruction at the University. The award is made on the basis of vocal ability, character and personality, and financial need.

Ernest Ellis Scholarships. Two \$100 scholarships are awarded annually to freshman students from Lebanon and Cottage Grove, Oregon, respectively. Funds for these scholarships are provided by Ernest Ellis of Eugene.

William Frager-Skull and Dagger Scholarship. A scholarship of \$150 is offered jointly by Samuel Frager of Albany, Oregon and Skull and Dagger, sophomore service organization, to a sophomore 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.

Hillsboro Argus Scholarship. The Hillsboro *Argus* awards an annual \$150 scholarship to a junior major in journalism who intends to specialize in the weekly newspaper field.

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.

Huggins Insurance Agency Scholarship. A \$165 scholarship is awarded annually to a graduate of Marshfield High School, Coos Bay, Oregon, preferably to a student planning to major in business administration. The scholarship is supported by the Huggins Insurance Agency of Coos Bay.

Maurice Harold Hunter Scholarship. The Maurice Harold Hunter Leadership Scholarship, covering full tuition, is presented 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, graduate in the Class of '41. Captain Hunter was killed in action in Burma on January 31, 1945.

E. M. Johnson Scholarship. A \$165 scholarship, provided by E. M. Johnson of Eugene, Oregon, is awarded annually to a freshman student.

Kappa Alpha Theta Art Scholarship. A scholarship amounting to \$66 or more is awarded annually by the University chapter of Kappa Alpha Theta to a junior or senior woman majoring in the field of fine arts. The recipient must be unmarried and not more than 25 years of age.

Kwama Scholarships. Kwama, sophomore women's honor society, awards each year several scholarships to women students on the basis of ability and need. The scholarships pay between \$75 and \$150.

Ion Lewis Scholarship in Architecture. This \$1,000 traveling scholarship is awarded, whenever sufficient 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 of Oregon. 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.

Mothers of Men's Halls Scholarships. The mothers of students in men's halls offer two \$50 spring-term scholarships to residents of the men's halls in the sophomore or higher classes. Awards are made on the basis of scholarship, need, and leadership.

Ina McClung Art Scholarships. Three scholarships 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. One, covering University fees, is awarded to a freshman student; two, for \$700 and \$900, are awarded to advanced students. Recipients of the scholarships for advanced students are chosen after exhibition of the work of the applicants. The scholarships are named in memory of the late Miss Ina McClung, Class of '95.

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

Myrtle Creek Mail Scholarship. The *Mail* awards an annual \$150 scholarship to a journalism junior who intends to specialize in the weekly newspaper field.

Oregon Dads Scholarships. The Oregon Dads organization awards five \$200 scholarships and a number of smaller grants each year to freshmen students graduating from Oregon high schools. 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 three \$300 scholarships annually to freshman students graduating from Oregon high schools: the Petronella G. Peets Scholarship, the Louise H. Cook Scholar-

ship, and the Burt Brown Barker Scholarship. Ten or more additional awards of from \$50 to \$200 are made as funds are available. 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 Scholarship. 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.

Pendleton East Oregonian Scholarship. The *East Oregonian* annually awards a \$165 scholarship to a Pendleton, Oregon student majoring in journalism.

Ellen M. Pennell Scholarships. These scholarships, covering regular tuition and fees, are awarded annually 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. These 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 an upper-division 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.

Phi Theta Upsilon Scholarship. Phi Theta Upsilon, junior women's honorary, awards several scholarships each year to women students. The scholarships pay between \$75 and \$130.

Physical-Education Alumnae Scholarship. A \$100 scholarship is awarded annually to a freshman woman interested in the field of physical education by the Alumnae Association of the Women's Physical-Education Department of the University of Oregon.

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.

Quota International Scholarship. The Eugene, Oregon chapter of Quota International awards a scholarship, covering a year's fees and tuition to a junior woman. The club also awards partial scholarships as funds are available.

Republic Carloading and Distributing Company Scholarship. The Republic Carloading and Distributing Company awards annually a \$700 scholarship to an outstanding junior or senior 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.

Marjerry Thompson Reynolds Scholarship. A \$165 scholarship is awarded

annually to an upper-division member of a University sorority. The scholarship, supported by a group of Eugene women, is a memorial to the late Mrs. Marjerry Reynolds.

Rockwell Scholarship. Three \$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 John J. Rogers of Eugene, Oregon.

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 biennially to a worth graduate student majoring in German. (No award will be made in 1954-55.)

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 and by a committee of friends of the University.

Silva Scholarship. A \$300 scholarship, endowed by Julio W. Silva, Eugene businessman, 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.

Janet Smith Memorial Coop Scholarship. A \$75 scholarship is awarded annually to a member of one of the women's cooperative houses on the University campus. The scholarship is named in memory of Miss Janet Smith, University employment secretary from 1933 until her death in 1945, and adviser to the women's cooperatives.

Richard Shore Smith Memorial Scholarship. A \$600 scholarship is awarded annually to a University athlete with an outstanding scholastic record. The scholarship is supported by the income of 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.

Orin Fletcher Stafford Scholarship in Chemistry. A \$1,000 scholarship is awarded annually to a student beginning upper-division work with a major in chemistry. Of the total award, \$400 is paid during the junior year and \$600 during the senior year. Qualifications include: a superior scholastic record and aptitude for advanced work in chemistry, good character, and need for financial aid. To be eligible for the award, the student must also have attended the University of Oregon for at least one year. If a junior holder of the scholarship fails to maintain a high scholastic record or is otherwise disqualified, the senior award may be cancelled and granted to another senior student. The scholarship is supported by the Crown-Zellerbach Foundation. It is named in memory of the late Orin Fletcher Stafford, a member of the faculty of the Department of Chemistry from 1902 until his death in 1941.

The Dalles Alumni Scholarship. One or more \$200 scholarships are awarded annually to graduates of Wasco County, Oregon high schools. The scholarships are supported by alumni and friends of the University living in The Dalles, Oregon.

C. P. Tillman Scholarship. The C. P. Tillman Scholarship, about \$100, is

awarded biennially to a University student 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 \$1,500 scholarships are awarded annually to University of Oregon students from a fund established by the will of the late Max Tucker of Lebanon, Oregon. The scholarships may be renewed. In the selection of Tucker scholars, special consideration is given to graduates of Lebanon High School.

Dean Walker Scholarship. A \$300 scholarship is awarded annually by the members of the 1911 varsity basketball team to a male student, on the basis of scholarship, need, athletic ability, and leadership. The scholarship is a memorial to the late Dean Walker, Class of '13.

Women's Faculty Club Scholarship. A scholarship covering spring-term fees for a woman student is provided annually by the University of Oregon Women's Faculty Club.

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 award may be divided among two or more senior students). The scholarship is supported through a bequest of the late Miss Lois Zimmerman, graduate of the University in the Class of '28, and is named in memory of her father and mother.

Zonta Scholarship. The Eugene chapter of Zonta awards a \$165 scholarship to a junior woman student.

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 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.

Philo Sherman Bennett Prize. This prize of from \$25 to \$30, supported by a bequest from Philo Sherman Bennett of New Haven, Connecticut, is awarded for the best essay on the principles of free government.

Bender-Moss Prize. The Bender-Moss Company, Law Publishers, awards annually a ten-volume set of Hillyer's *Annotated Forms of Pleading and Practice* to the senior student who has earned the highest grades in pleading and practice courses during his three years of law study.

Beta Gamma Sigma Award. To honor outstanding scholastic attainment, the name of the freshman major student in the School of Business Administration receiving the highest grade average each year is engraved on a permanent record

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, makes 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 student. Information concerning the rules governing 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 faculty of the University 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.

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 faculty of the Department of Mathematics 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 Delta Phi Alpha, German honorary society, to the outstanding student in German literature.

Eugene J. C. Scholastic Award. A plaque, presented by the Eugene Junior Chamber of Commerce, is awarded annually to the freshman men's hall having the highest scholastic average for the year.

Failing-Beeman 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 \$150 is the gift of Henry Failing of Portland; the second prize of \$100 is the gift of C. C. Beekman of Jacksonville.

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.

William G. Gurney Memorial Award. An award of \$100 is made annually to the male student in journalism who in his junior year makes the best record and shows the greatest promise as a writer. The award is made jointly by Sigma Delta Chi, national professional journalism fraternity, and Alpha Tau Omega, social fraternity, in honor of the memory of William G. Gurney, a journalism student who was killed while on duty in the Air Forces Reserve Officers Training Corps in 1953.

Josephine Evans 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.

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 during the year; one, presented by Karl W. Onthank, associate director of student affairs, to the fraternity pledge class earning the highest grade-point average during their 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 \$50 first prize and a \$25 second prize for the best presentations made by law students in the 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 and the Association of Patrons and Friends of the University of Oregon Library award prizes on Library Day each spring for the best personal libraries of University students.

Men's Dormitory Scholarship Cup. This cup, presented by Mrs. Genevieve Turnipseed, director of dormitories emeritus, is awarded annually to the undergraduate men's hall having the highest scholastic average for the year.

Oregon Dads Special Honors Awards. A number of special honors awards are made annually on the basis of merit alone to graduates of Oregon high schools with outstanding scholastic records who enter the University. Application may be made on the form used for scholarships provided by the State System of Higher Education. It is not necessary that the applicant show financial need in order to be considered for this award. 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 \$25, 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 Key. The Phi Chi Theta Key is awarded annually, on the basis of high scholastic standing and student activities, to a woman in the junior or senior class of the School of Business Administration.

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

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

Portland Shipping Club Award. The Portland Shipping Club presents a \$50 annual award to an outstanding senior student in foreign trade.

George Rebec Prize in Philosophy. A prize of \$25 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 faculty of the University from 1912 until his death in 1944.

Rotana Award. The Portland Rotana Club presents an annual award of \$25 to the most worthy junior woman major in business administration.

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

Sigma Delta Pi Award. A medal and a book prize are awarded each year by the Oregon chapter of Sigma Delta Pi, Spanish honorary society, to the student in advanced courses in Spanish who makes the greatest progress during the school year.

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

T. Neil Taylor Awards in Journalism. Awards totaling \$100 are given annually for the best research papers by senior and graduate 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 student member of the staff of 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.

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

Van de Velde Language Awards. Two book prizes are awarded annually to students who have made the greatest progress during the year in courses in French and Spanish. The prizes are supported through funds given to the University by Mr. and Mrs. Paul Van de Velde of Salem, Oregon.

Vice-Presidential Cups. Two cups, the gift of 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 the living groups during the academic year.

John Watson Vogan Spanish Essay Prize. A prize of \$25 is awarded an-

nually to the student presenting the best essay written in the Spanish language. The prize is supported by an endowment presented to the University of Oregon by Mrs. Grace Dawson Vogan as a memorial to her husband, the late John Watson Vogan.

Women's Dormitory Scholarship Cup. This cup, presented by Mrs. Genevieve Turnipseed, director of dormitories emeritus, is awarded annually to the woman's hall having the highest scholastic average for the year.

Erb Memorial Student Union

RICHARD C. WILLIAMS, B.S.....	Director
DONNA BUSE, B.A.....	Program Director
H. PHILIP BARNHART, B.S.....	Director of Foods
LOUIS A. BELLISIMO.....	Recreation Manager

THE CENTER of student life, recreation, and extracurricular activities at the University of Oregon is the Erb Memorial Student Union, a new building of modern design, completed in the fall of 1950. The facilities of the Student Union, one of the largest structures on the campus, include: a cafeteria and soda bar, and dining rooms for group lunches and dinners; a spacious ball-room which serves also as a banquet room and a hall for concerts, lectures, and motion pictures; a game section with bowling alleys, billiard tables, and ping pong tables; an art gallery, a library for recreational reading, two music rooms, and a piano practice room; offices and meeting rooms for student organizations; a barber shop and a branch postoffice.

The Erb Memorial 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 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 values of extracurricular student activities as a part of a college education: formation of habits of civic responsibility and leadership through self-government and through 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 gathering of students, or to reside in any fraternity, sorority, club house, or dormitory.

(2) No student may accept an elective or appointive office 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 at least a 2.00 GPA during his last previous term in the University. (Incompletes may be counted as a 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 Pacific Coast Intercollegiate Athletic Conference govern in all 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 27 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, 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 seventeen members, of whom fifteen are voting members. Of the voting members, thirteen are students and two 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. Graduating classes usually leave a gift to the University.

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

Ad Club	Majlis (foreign cultures)
Air Command Squadron (Air Force cadets)	Mortar Board (senior women's honorary)
Alpha Delta Sigma (advertising, men)	Mu Phi Epsilon (music, women)
Alpha Kappa Delta (sociology honorary)	National Association for the Advancement of Colored People
Alpha Lambda Delta (freshman women's honorary)	National Collegiate Players (drama)
Alpha Phi Omega (service honorary, men)	Newman Club (Catholic)
Alpine Club (mountain climbing)	Order of the Coif (law honorary)
American Institute of Architects	Order of the "O" (varsity athletics, men)
Amphibians (swimming, women)	Orides (independent women)
Areoi Club (anthropology)	Phi Alpha Delta (law, men)
Asklepiads (premedics)	Phi Beta (music and drama, women)
Beta Alpha Psi (accounting)	Phi Beta Kappa (liberal arts honorary)
Beta Gamma Sigma (business honorary)	Phi Chi Theta (business, women)
Canterbury Club (Episcopal)	Phi Delta Kappa (education, men)
Cercle Français (French)	Phi Delta Phi (law, men)
Chemical Society	Phi Epsilon Kappa, (physical education honorary)
Chess Club	Phi Eta Sigma (freshman men's honorary)
Chi Delta Phi (literary, women)	Phi Iota Rho (house librarians)
Christian House	Phi Mu Alpha Sinfonia (music, men)
Christian Science Organization	Phi Theta Upsilon (junior women's honorary)
Condon Club (geology)	Physical Education Club (women)
Cosmopolitan Club (foreign students)	Physics Club
Delta Nu Alpha (transportation)	Pi Delta Phi (French)
Delta Phi Alpha (German)	Pi Lambda Theta (education, women)
Delta Sigma Rho (forensics honorary)	Pi Mu Epsilon (mathematics)
Delta Theta Phi (law, men)	Pi Sigma Alpha (political science)
Deseret Club (Mormon)	Plymouth Club (Congregational)
Druids (junior men's honorary)	Press Club
Eta Mu Pi (merchandising)	Propeller Club (foreign trade)
Friars (senior men's honorary)	Psychology Club
Gamma Alpha Chi (advertising, women)	Real Estate Club
Gamma Delta (Lutheran)	Russian Club
Hui-o-kamaaina (students from Hawaii)	Scabbard and Blade (military)
Insurance Society	Sigma Delta Chi (journalism, men)
International Relations Club	Sigma Delta Pi (Spanish)
Inter-Varsity Christian Fellowship	Sigma Delta Psi (athletic honorary)
Kappa Rho Omicron (radio)	Sigma Upsilon (writing, men)
Kwama (sophomore women's honorary)	
Law School Student Body Association	

Sigma Xi (science honorary)
 Ski Quacks (skiing)
 Skull and Dagger (sophomore men's
 honorary)
 Theta Sigma Phi (journalism, women)
 University Religious Council

Wesley Foundation (Methodist)
 Westminster Association (Presbyterian)
 Women's Recreation Association
 Yeomen (independent men)
 Young Men's Christian Association
 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 University Lectures Committee of the faculty, and by various schools and departments.

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

The Associated Students, in cooperation with the Department of Speech, sponsor 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 of vital interests to the people of Oregon.

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 station, KWAX, and through assistance with programs broadcast directly from the University studios over KOAC, the state-owned station in Corvallis, and over four local radio stations in Eugene.

Art, Music, and Dance. The University gives special encouragement to extra-curricular activities in art, music, and the dance. Concerts, recitals, and dance programs, sponsored by the School of Music, the School of Health and Physical Education, and student organizations, play a central part in the cultural life of the University community. The School of Architecture and Allied Arts presents frequent exhibitions of student art work and loan collections.

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. Any University student is eligible to try out for the orchestra.

The University Choral Union 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 sixty 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 Concert Band, a select group of student musicians, presents a number of concerts each year on the campus and in communities throughout the state. The Varsity Band offers membership to all students without auditions. The Marching Band, composed of members selected from the Concert and Varsity bands, performs at varsity football games. The Pep Band is a small musical group which performs at basketball games and rallies.

The Concert Dance Group, sponsored by the School of Health and Physical Education, 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. There is also a student Folk Dance Group which sponsors regular sessions of recreational folk dancing.

The Associated Students bring artists of international fame to the campus each year for concerts, to which all students have free admission. Free public re-

citals by members of the faculty of the School of Music and by advanced music students are given in the Music Auditorium during the school year.

Athletics and Sports. The University of Oregon is a member of the Pacific Coast Athletic Conference, composed of nine leading universities and colleges of the region. In addition to intercollegiate athletics, a comprehensive program of intramural sports is sponsored by the institution through the School of Health and Physical Education. The sports program is closely correlated with instruction in physical education.

Student Publications. University of Oregon student publications are listed below. The official publications of the University are listed on another page.

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 OREGANA, the yearbook of the Associated Students, presents a pictorial record of student life. It is edited, managed, and financed by students. All students are eligible for positions on its staff. The volume is published in May during Junior Weekend.

THE ORE-NTER, a handbook for entering new students, is published annually by the Associated Students and the Office of Student Affairs.

THE STUDENT AND FACULTY DIRECTORY is compiled and published about November 1 of each school year by the Student Publication Board.

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 at Homecoming. The Alumni Association publishes a bi-monthly 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. The officers and directors of the association are as follows:

OFFICERS

GEORGE H. COREY, '38.....	President
RAY E. VESTER, '21.....	Vice-President
LESTER E. ANDERSON, '43.....	Secretary
WILLIS C. WARREN, '30.....	Treasurer

EXECUTIVE COMMITTEE

LESTER E. ANDERSON, '43; WILLIS C. WARREN, '30; RAY E. VESTER, '21; Members-at-large, ORVAL N. THOMPSON, '35; WILLIAM HARROW, '40; MORRIS H. ROTENBERG, '34; RANDALL S. JONES, '24; JAMES W. HUBBARD, '38; HOWARD A. PAGE, '31; GORDON A. SABINE.

DIRECTORS

Term expires June 30, 1954	Term expires June 30, 1955	Term expires June 30, 1956
EDWIN L. DICK, '40	WILLIAM O'MALLEY, '45	BRUCE C. KIRKPATRICK, '46
DONALD E. KENNEDY, '38	DOUGLAS MULLARKEY, '20	WALTER DURGAN, '28
RALF FINSETH, '37	KENNETH M. ABRAHAM, '38	JAMES O. GOODWIN, '50
COLLIS P. MOORE, '25	BOYD OVERHULSE, '33	JOHN S. MCGOWAN, '42
JOHN HATHAWAY, '44	RICHARD PROEBSTAL, '36	JOE F. WALKER, '42
GEORGE COREY, '38	JOHN HOUSTON, '21	WILBUR CRAIG, '48
ROSS E. HEARING, '46	JOSEPHINE R. JOHNSON, '29	VERNON F. HANSCOM, '38
ASA EGGLESON, '22	OTTO VONDERHEIT, '34	ROBERT THOMAS, '36
GLEN HIEBER, '35	LAWRENCE HULL, '23	ROBERT STRANIK, '35
ARTHUR MULLER, '34	RALPH CRONISE, '11	ORVAL D. YOKUM, '27
JACK P. STEIWER, '49	EARL BLACKABY, '15	RALPH J. BROWN, '34
	WILLIAM B. HAMMOND, '31	

The University of Oregon Medical School and the University of Oregon Dental School have their own active alumni associations. The Medical School Alumni 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 Alumni Association includes in its membership graduates of the North Pacific College of Oregon, which was incorporated into the University in 1945. Officers of these two associations are listed in the separate catalogs of the two schools.

College of Liberal Arts

ELDON L. JOHNSON, Ph.D., Dean of the College of Liberal Arts.

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

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 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 dispensable condition of the good life of free men.

From the founding of the University of Oregon, the liberal arts have been the core of the educational program of the institution. In the earliest University Catalogs, the several "courses" of liberal-arts instruction were rather loosely grouped under the "Collegiate Department," distinguished at first only from the "English Preparatory Department" but later also from the professional schools. In the Catalogs of the 1890s, the term "College of Letters" occurs, but only as a heading in lists of students and graduates.

As a part of the first formal organization plan for the University, inaugurated by President Strong, the College of Literature, Science and the Arts was established in 1899. The University continued to administer its liberal-arts program through this college until the reorganization of the Oregon State System of Higher Education in 1932.

Under the original State System plan, a College of Arts and Letters and a College of Social Science were established at the University, and major work in the physical and biological sciences was allocated to the School of Science at Oregon State College. The University continued to offer nonmajor service courses in science through the Lower Division and Service Departments.

In the fall of 1942, major work in science was re-established at the University, and the separate liberal-arts divisions were merged into the College of Liberal Arts.

The instructional departments included in the college are: Anthropology, Biology, Chemistry, Economics, English, Foreign Languages, Geography and 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. The general requirements for a bachelor's degree with a major in the College of Liberal Arts are—a minimum of 186 term hours of University work including:

(1) A minimum of four sequences in the liberal arts numbered 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 54).

(2) In addition, two sequences in the liberal arts numbered 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 groups, arts and letters, social science, and science; the two sequences in social science and in science must be 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. In some fields, more than the 36-hour minimum are required to meet departmental standards. For certain inter-departmental majors (described below under SPECIAL CURRICULA), the major requirement is approximately 72 term hours of work distributed in several departments.

A more detailed statement of University requirements for the bachelor's degree may be found on pages 53-55. Special requirements of the several major curricula of the college are stated in the departmental sections and under SPECIAL CURRICULA 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 pages 56-57 of this Catalog. The upper-division 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)

Philosophy

History of Philosophy (Phl 301, 302, 303)

English

Three courses chosen from: Tragedy (Eng 301), Prose Trad. in Eng. Lit. (Eng 302), Epic (Eng 303), Comedy (Eng 304), Satire (Eng 305)

Speech

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

SOCIAL SCIENCE GROUP

Anthropology

Primitive Society (Anth 301, 302, 303)

Philosophy

Social Philosophy (Phl 304, 305, 306)

Geography

Geog. of Pac. Northwest (Geog 301, 302, 303)

Religion

Religions of Mankind (R 301, 302, 303)

History

Western Institutions & Ideas (Hst 301, 302, 303)

Sociology

Principles of Sociology (Soc 301), Criminology & Penology (Soc 302, 303)

* 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. This exception will terminate with the class receiving bachelor's degrees in June 1959.

SCIENCE GROUP

Geology

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

Mathematics

Statistics (Mth 301, 302, 303)

Sophomore Honors

THE University offers a "sophomore honors" program planned to provide a solid general education for freshmen and sophomore students of superior ability. 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 works of Occidental literature. Beall, Combella, Moll, Powers, Sherwood, Trowbridge.

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. Snow, Sorenson.

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

The subject matter and methods of the social sciences, studied through a sampling of their data and theories and through an analysis of representative policy problems. Robbins, Seligman, Wengert.

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. Ballmer, Bernatowicz, Huestis.

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. Crasemann, Dart.

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. The program is administered by a Committee on Sophomore Honors and subcommittees representing the five general fields of knowledge included in the honors examinations. Further information may be obtained from Dr. Hoyt Trowbridge, professor of English and chairman of the general committee.

Special Curricula

IN ADDITION to the major curricula offered by the departments of the College of Liberal Arts, the college has arranged several programs of study utilizing the course offering of the departments of the college and other divisions of the University to provide broad cultural education (without departmental specialization) and programs providing the basic liberal-arts preparation required for admission to technical training for the professions.

Curriculum in 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 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. Carlisle Moore of the Department 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)

Any three of the following: Intermediate Algebra (Mth 100), College Algebra (Mth 105), Plane Trigonometry (Mth 106), Analytic Trig. & Geometry (Mth 200)

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)
Apprec. of Lit. (Eng 104, 105, 106)
Shakespeare (Eng 201, 202, 203)

Social Science—History of Western Civilization (Hst 101, 102, 103) 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); American Govts. (PS 203) or European Govts. (PS 204)
General Psychology (Psy 201, 202), Applied Psych. (Psy 205), and General Psych. Lab. (Psy 208, 209, 210)
General Sociology (Soc 204, 205, 206)

Science—one of the following sequences:

General Physics (Ph 201, 202, 203)
General Chemistry (Ch 201, 202, 203)
General Biology (Bi 101, 102, 103)

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.

* 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.

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 1, 2, 3)
- Second-Year Greek (CL 314, 315, 316)
- Greek Tragedy (CL 317, 318, 319)
- Latin Literature (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)

ENGLISH (continued)

- 19th Century Prose (Eng 470, 471, 472)
- Any three of the following: Chaucer (Eng 428), Spenser (Eng 434), Milton (Eng 444), Pope (Eng 455)

GERMANIC LANGUAGES

- Classical German Drama & Goethe's Faust (GL 411, 412, 413)

MUSIC

- Hist. of Music (Mus 360, 361, 362)
- Seminar in Music Hist. (Mus 408)

ROMANCE LANGUAGES

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

SPEECH

- Hist. & Lit. of Oratory (Sp 421, 422, 423)

Social Science

ANTHROPOLOGY

- Rel. & Magic of Primitives (Anth 444), Folklore & Myth. of Prim. (Anth 445), Art Among Primitives (Anth 446)
- Beg. & Develop. of Civilizations (Anth 420, 421, 422)

ECONOMICS

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

GEOGRAPHY

- Climatology (Geog 215), Geomorphology (Geog 316)
- Geog. of Pac. N.W. (Geog 301, 302, 303)

HISTORY

- English History (Hst 207, 208, 209)
- History of U. S. (Hst 201, 202, 203)
- Europe since 1815 (Hst 341, 342, 343)
- History of Greece (Hst 411), History of Rome (Hst 412, 413)
- Middle Ages (Hst 421, 422, 423)
- Renaissance (Hst 430, 431), Reformation (Hst 432)
- History of France (Hst 441, 442, 443)

HISTORY (continued)

- American Pol. Parties & Leaders (Hst 470, 471, 472)

PHILOSOPHY

- Logic (Phl 461, 462, 463)
- Social Philosophy (Phl 301, 302, 303)
- Dev. of Sc. Thought (Phl 451, 452, 453)
- History of Philosophy (Phl 301, 302, 303)

POLITICAL SCIENCE

- British Govt. (PS 325), Govts. of Cont. Europe (PS 326, 327)
- European Pol. Theory (PS 430, 431, 432)

PSYCHOLOGY

- Social Psychology (Psy 334, 335)
- Psych. of Infancy & Childhood (Psy 460), Psych. of Adolescence (Psy 461), Abnormal Psych. (Psy 450)
- History of Psych. (Psy 473, 474, 475)

RELIGION

- Religions of Mankind (R 301, 302, 303)

SOCIOLOGY

- Hist. of Social Thought (Soc. 450, 451, 452)
- Criminology & Penology (Soc 302, 303), Juvenile Delinquency (Soc 417)

Science

BIOLOGY

- Genetics (Bi 442, 443), Vertebrate Embryology (Bi 445)
- 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 Zoology (Bi 461)

CHEMISTRY

- Analytical & Theoretical Chemistry (Ch 321, 322, 323)
- Organic Chemistry (Ch 334, 335, 336)

GEOLOGY

- General Geology (Geol 101, 102, 103)
- Intro. to Palaeontology (Geol 381, 382, 383)

MATHEMATICS

- Analyt. Trig. & Geom. (Mth 200), Dif. & Int. Calculus (Mth 201, 202)
- Dif. & Int. Calculus (Mth 201, 202, 203)
- Adv. College Algebra (Mth 314), Higher Algebra (Mth 412, 413)
- Solid Analyt. Geometry (Mth 316), Adv. Euclidean Geometry (Mth 415), Projective Geometry (Mth 416)
- Intro. to Applied Math. (Mth 421, 422, 423)

PHYSICS

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

Curriculum in General Arts and Letters

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 Introduction to 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 two years (or equivalent) of foreign language in college.

(2) Shakespeare (Eng 201, 202, 203), or Introduction to the Visual Arts (AA 201, 202, 203), or Introduction to Music and Its Literature (Mus 201, 202, 203).

(3) At least one year of a foreign language beyond the first-year college level.

(4) One of the following year 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) Dante and His Times (AL 477, 478, 479).

(2) Literature of the Ancient World (AL 304, 305, 306).

(3) One of the following sequences in philosophy: History of Philosophy (Phl 301, 302, 303); Philosophy and Literature (Phl 431, 432, 433); Development of Scientific Thought (Phl 451, 452, 453).

(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 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 in the main should support the objectives of this program.

Curriculum in General Science

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 predental 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.

Curriculum in General Social Science

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 too 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 numbered 200 or above. This work must include four year sequences numbered 200-210, one in each of four of the following fields: anthropology, economics, geography, history, philosophy, political science, psychology, religion, sociology. The Study of Society (SSc 201, 202, 203) may be substituted for one of the four required sequences. The program must also include 36 upper-division hours in the social sciences, earned after attained junior standing. The upper-division work must include two one-year sequences (not less than 18 hours) in one department, and one one-year sequence (not less than 9 hours) in each of two additional departments.

Curriculum in Far Eastern Studies

The curriculum in Far Eastern studies is a program of area training through groups of courses concerned with the Far East. The primary emphasis is on the Chinese culture sphere. The program is intended to provide necessary basic knowledge for students who are interested in commercial, governmental, journalistic, or educational work relating to the region, for students who are preparing for graduate work in Far Eastern studies, or for students who wish to broaden their understanding of the interrelated world in which they live. The curriculum is administered by a coordinator and an interdepartmental advisory committee.

The major in Far Eastern studies leads to the Bachelor of Arts or the Bachelor of Science degree. The requirements are as follows:

(1) Far East in Modern Times (Hst or PS 391, 392, 393); Geography of Asia (Geog 431); Peoples of Southern and Eastern Asia (Anth 438, 439, 440). These courses are required of all majors.

(2) Selections, with the approval of the student's adviser, from the following two groups of courses—for the B.S. degree, 24 term hours from group (a); for the B.A. degree, 39 term hours from both groups, of which not more than 24 term hours may be selected from group (b).

(a) Lecture-course group: Introduction to Chinese and Japanese Literature (AL 317, 318, 319); Far Eastern Governments and Politics (PS 330, 331, 332); History of Oriental Art (AA 446, 447, 448); Economic Problems of the Pacific (Ec 345, 346, 347), Religions of Mankind (R 303); History of China (Hst 494, 495, 496); History of Japan (Hst 497, 498, 499).

(b) Language-course groups: First-Year Japanese (OL 1, 2, 3); Second-Year Japanese (OL 4, 5, 6); First-Year Chinese (OL 21, 22, 23); Second-Year Chinese (OL 24, 25, 26).

Premedical Curriculum

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. The chairman of this committee is Dr. F. E. Darst, assistant professor of physics.

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 advisers.

The entrance requirements of the University of Oregon Medical School are as follows:

(1) **High-School Preparation.** The following high-school course, which meets all the formal requirements, is strongly recommended:

	Units		Units
English	4	Latin	2
Algebra	1½	History	1
Geometry	1	German or French	2
Physics	1	Electives	1½
Chemistry	1		
Total			15

Students entering college with less than the amount of work recommended in these fields (especially mathematics and science) may find it necessary to devote more than the minimum of three years to collegiate premedical preparation.

(2) **Collegiate Preparation.** The Medical School requires for admission at least three academic years of preparatory work (138 term hours, exclusive of credit in military science). The following work is prescribed:

	Term hours
Chemistry	23
General inorganic, which may include qualitative analysis.....	12
Quantitative analysis, emphasis on volumetric analysis.....	3
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
Total prescribed credit	65

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. Students electing additional work are advised to take a course in elementary physical chemistry. 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. Students electing additional work are advised to take courses in embryology, vertebrate anatomy, histological technique, or general physiology.

The work in physics must include the divisions of mechanics, heat and sound, light and electricity. Students electing additional work are advised to take further courses in electricity or atomic physics.

The work in mathematics should be of standard college grade, and include subjects such as algebra, elementary analysis, or trigonometry. Students electing additional work in mathematics are advised to take calculus.

The premedical student is advised very strongly against taking any medical courses in his preparation for the study of medicine. Rather, he should devote his efforts to obtaining the best possible general cultural education and, in addition, a thorough training in the basic sciences of chemistry, physics, and biology.

Recommended Elective Subjects. The student preparing to study medicine is advised to plan a balance between courses in liberal arts and courses (beyond the minimum requirements) in subjects prescribed for admission to the Medical School.

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 requirements for a major within the College of Liberal Arts) that cannot be satisfied at the Medical School.

The following premedical curriculum meets the requirements stated above. It provides a substantial foundation in the sciences basic to the study of medicine, together with opportunity for broad liberal education.

	Term hours		
	F	W	S
First Year			
General Chemistry (Ch 201, 202, 203).....	4	4	4
*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
	17	17	17
Second Year			
Organic Chemistry (Ch 334, 335, 336).....	4	4	4
Group-satisfying sequence in arts and letters.....	3	3	3
General Physics (Ph 201, 202, 203).....	5	5	5
Foreign language	4	4	4
Physical education	1	1	1
Military science (men).....	1	1	1
	18	18	18
Third Year			
Analytical & Theoretical Chemistry (Ch 321)	4	....	....
Genetics (Bi 442),† Intro. to Gen. Physiology (Bi 446), or Histology (Bi 444).....	....	4	....
Vertebrate Embryology (Bi 445).....	....	....	4
Foreign language or other group-satisfying sequence in arts and letters.....	3-4	3-4	3-4
Two group-satisfying sequences in social science.....	6	6	6
Electives	4-5	4	4-5
	18	18	18

Kenneth A. J. Mackenzie Memorial Scholarships. For information concerning these scholarships for premedical and medical students, see page 75.

Predental Curricula

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 and a two-year predental curriculum to prepare students for admission to the University of Oregon Dental School or other approved dental schools. Both of these curricula satisfy the requirements stated above. With proper choice of electives, students completing the three-year curriculum may qualify for a bachelor's degree after one or more years of dental-school work.

* 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.

† Required for students choosing a major in biology.

THREE-YEAR CURRICULUM

	Term hours		
	F	W	S
First Year			
General Chemistry (Ch 201, 202, 203).....	4	4	4
*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
	16	16	16
Second Year			
Organic Chemistry (Ch 331, 332).....	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).....	4-5	4-5	4-5
Advanced biology	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.....	2-3	2-3	6-9
	16-18	16-18	16-18

TWO-YEAR CURRICULUM

	Term hours		
	F	W	S
First Year			
General Chemistry (Ch 201, 202, 203).....	4	4	4
General Biology (Bi 101, 102, 103).....	4	4	4
*Mathematics	4	4	4
English Composition (Wr 111, 112, 113).....	3	3	3
Physical education	1	1	1
Military science (men).....	1	1	1
	17	17	17
Second Year			
Introductory Organic Chemistry (Ch 331, 332).....	4	4	..
Elementary Quantitative Analysis (Ch 320).....	..	..	5
General Physics (Ph 201, 202, 203).....	4-5	4-5	4-5
Social science	3	3	3
Literature	3	3	3
Physical education	1	1	1
Military science (men)	1	1	1
	16-17	16-17	17-18

Prenursing Curriculum

The Department of Nursing Education of the University of Oregon Medical School offers a four-year curriculum which leads to the Bachelor of Science degree and prepares for state examinations for nurse registration. The student takes five terms of pre-nursing work at the University of Oregon at Eugene or at Oregon State College at Corvallis, or at another accredited college or university. The pre-nursing curriculum is completed with one term of work on the campus of the Medical School, and is followed by ten terms of clinical instruction coordinated with practice in the hospitals and clinics of the Medical School. For the complete curriculum, see the special Catalog of the Department of Nursing Education.

Students in nursing education receive their degrees from the University of Oregon or from the institution at which they took their pre-nursing work.

* See note (*), page 95.

	Term hours		
	F	W	S
First Year			
Elementary Chemistry (Ch 101, 102, 103).....	4	4	4
English Composition (Wr 111, 112, 113).....	3	3	3
English literature.....	3	3	3
Backgrounds of Nursing (Nur 111).....	3	..	..
General Psychology (Psy 201, 202).....	..	3	3
Physical education	1	1	1
Electives (not science).....	2	2	2
	16	16	16
Second Year			
On the Eugene campus:			
General Biology (Bi 101, 102).....	4	4	..
General Sociology (Soc 204, 205).....	3	3	..
Psychology of Adjustment (Psy 204).....	3	..	..
Principles of Dietetics (HEc 225).....	2	..	..
Foods (HEc 211).....	..	3	..
Physical education	1	1	..
Electives (not science).....	4	6	..
At the Medical School:			
Anatomy (An 211).....	..	..	4
Baeteriology (Bac 211).....	..	..	4
Organic and Biochemistry (Ch 211).....	..	..	4
Orientation to Nursing Arts (Nur 211).....	..	..	4
	17	17	16

Curriculum in 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 program satisfies the requirements of the 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
Health education (women).....	1	1	1
	16	16	16
Second Year			
General Chemistry (Ch 201, 202, 203).....	4	4	4
Group-satisfying sequence in social science.....	3	3	3
Essentials of Physics (Ph 101, 102, 103).....	3	3	3
Elective	6	6	6
	16	16	16
Third Year			
Introductory Organic Chemistry (Ch 331, 332).....	4	4	4
Elementary Quantative Analysis (Ch 320).....	..	..	4-5
Introduction to Bacteriology (Bi 311).....	3	..	..
Microbiology (Bi 412).....	..	3	..
Advanced biology.....	..	..	3-4
Group-satisfying sequence in social science.....	3	3	3
Group-satisfying sequence in arts and letters.....	3	3	3
Elective	3	3	3
	16	16	16-18

	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 Hematology (MT 430).....	5	..	..
Special Hematology (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

Interdepartmental Courses

CERTAIN courses offered by the College of Liberal Arts are broader in scope and objective than the instruction offered by any of the traditional liberal-arts departments. These courses are listed below under the headings: General Arts and Letters, General Science, and General Social Science.

General Arts and Letters

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 examination. Beall, Combella, Moll, Powers, Trowbridge.

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 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 317, 318, 319. **Introduction to Chinese and Japanese Literature**. 3 hours each term.

Fall and winter: Chinese literature; the classics, historians, philosophers; poetry and prose, including drama and the novel—both traditional and contemporary. Spring: Japanese literature, traditional and contemporary. Willis.

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. Landros.

AL 331, 332, 333. **Russian Literature in Translation**. 3 hours each term.

Survey of Russian literature, primarily of the nineteenth and twentieth centuries. Fall: from the origins to the middle of the nineteenth century; winter: Turgenev to Gorki; spring: twentieth century and Soviet literature. Bowman.

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

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

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 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 .

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.

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 examination. Ballmer, Huestis.

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 interrelation of the physical sciences with each other and with other fields of knowledge. Open to students eligible for the sophomore honors examination. Crasemann, Dart.

General Social Science

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 examination. Snow, Sorenson.

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

The subject matter and methods of the social sciences, studied through a sampling of their data and theories and through an analysis of representative policy problems. Open to students eligible for the sophomore honors examination. Robbins, Seligman, Wengert.

Department of Anthropology

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

Associate Professor: W. S. LAUGHLIN.

Assistant Professor: THEODORE STERN.

Assistants: W. A. JARDINE, R. G. OLLER, JACK PIERCE, D. L. COLE, HESTER A. DAVIS.

THE courses offered by the Department of Anthropology are planned to provide a breadth of background and a depth of perspective in human society for students in other fields, as well as integrated programs for majors 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: Introduction to Cultural Anthropology (Anth 207, 208, 209); General Psychology (Psy 201, 202); Psychology of Adjustment (Psy 204) or Applied Psychology (Psy 205).

Upper-division and graduate majors select courses in anthropology and supporting fields in accordance with their individual interests. However, the following courses are required of all majors (1) The American Indian (Anth 317, 318, 319); (2) a year sequence selected from 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), or Peoples of Southern and Eastern Asia (Anth 438, 439, 440); (3) Physical Anthropology (Anth 320, 321, 322); (4) American Archaeology (Anth 314, 315, 316) or Beginnings and Development of Civilizations (Anth 420, 421, 422). Mth 425 is recommended for majors.

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. Students must demonstrate competence in the fields of linguistics and physical anthropology to qualify for the master's degree.

The carefully selected anthropology 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. 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. 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. Barnett.

Anth 314, 315, 316. **American Archaeology.** 3 hours each term.

Problems and methods of archaeology in America. The peopling of the New World; problems of Early Man; development of cultures. 2 lectures, 1 two-hour laboratory period. Prerequisite: upper-division standing. Cressman.

Anth 317, 318, 319. **The American Indian.** 3 hours each term.

Indian life in Central, South, and North America before white contact; contemporary Indian life where groups still survive. Prerequisite: upper-division standing. Stern, Laughlin.

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: growth, constitutional types, prehistoric and historic racial movements. Prerequisite: course in biology or upper-division standing. Laughlin.

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 420, 421, 422. **Beginnings and Development of Civilizations.** (G) 2 hours each term.

Fall: the palaeolithic world; its environment, technology, preagricultural economy, society, and art forms. Winter: the development of agriculture and sedentary life in the Near East; economy and society based on metallurgy; urban civilization; development of cultural complexes basic to Western civilization. Spring: diffusion of Near Eastern complexes to Europe and Asia; selected Asiatic and New World developments. Prerequisite: 9 hours in anthropology or consent of instructor. Cressman.

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: senior standing. Barnett.

Anth 435. **Peoples of Africa.** (G) 3 hours fall.

Life and customs of the African native peoples; problems of culture change arising from European and Asiatic contact. Prerequisite: 9 hours in anthropology or consent of instructor. Stern.

Anth 436. **Peoples of the Near East.** (G) 3 hours winter.

Ethnic groups of the Near East—Arabs, Jews, Druses, etc.; Islamic social structure; relations of the Near East with Africa and Asia. Prerequisite: 9 hours in anthropology or consent of instructor. Stern.

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: 9 hours in anthropology or consent of instructor. Laughlin.

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: 9 hours in anthropology. 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. Stern.

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: Anth 207, 208, 209 or consent of instructor. Barnett.

Anth 453. Culture, Society, and the Individual. (G) 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. Prerequisites: 9 hours of anthropology or senior standing in social science. Barnett.

Anth 454. 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 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, economics, 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 numbered 400-499 and designated (G) or (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.

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.
Physical Anthropology of the American Indian. Laughlin.
Dentition: Evolution, Growth, Racial Variation. Laughlin.
Group Dynamics. Stern, James, Littman.
Anthropological Theory. Barnett.
Field Methods in Ethnology. Barnett.
Circumpolar Peoples. Laughlin.

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. Laughlin.

Bi 522. **Advanced Genetics.** 2 hours.

For description see page 106.

Department of Biology

Professors: R. R. HUESTIS (department head), A. R. MOORE (emeritus), P. L. RISLEY, H. B. YOCOM (emeritus).

Associate Professors: C. W. CLANCY, B. T. SCHEER,* F. P. SIPE, A. L. SODERWALL.

Assistant Professors: L. E. DETLING, B. H. MCCONNAUGHEY.

Instructors: G. W. BALLMER, A. J. BERNATOWICZ, W. R. FLEMING, D. L. JAMESON, J. A. SHOTWELL.

Fellows: ROSE M. MYERS, J. J. REARDON, RUTH S. WILLOUGHBY.

Assistants: ARTYCE L. HAWMAN, J. R. ORENDURFF, D. J. SEEMANN, DONNA G. SEEMANN, J. F. TAUGHER.

THE Department of Biology offers a program of study designed to meet the needs of students who seek accurate information concerning the living world as a part of their liberal education, students preparing for professional training in such applied fields as medicine, dentistry, or medical technology, and major students preparing for teaching or research in the life sciences. Requirements in the applied fields are listed above under SPECIAL CURRICULA.

High-School Preparation. Students who plan to major in biology are advised to include in their high-school program courses in mathematics, foreign languages, and chemistry.

Major Requirements for Bachelor's Degree. Major requirements for a bachelor's degree with a major in biology are: (1) one year of general biology; (2) 28 term hours in upper-division courses in biology, including 12 hours selected from courses in plant or animal structure and classification, and 4 hours in each of the fields of ecology, genetics, and general physiology; (3) one year of college French or German; (4) one year of mathematics at the 100 level or above; (5) one year of general chemistry, one term of quantitative analysis, and two terms of organic chemistry.

The requirement in plant or animal structure and classification may be met with selections from the following courses: *Plant Biology*: Bi 332, Bi 333, Bi 334, Bi 454, Bi 455; *Animal Biology*: Bi 444, Bi 445, Bi 461, 462, Bi 463; *Microbiology*: Bi 311, Bi 412, 413.

The requirement in ecology may be waived for students who enter a medical or dental school at the end of their junior year. A maximum of 20 term hours of work in anatomy and physiology, taken at a medical or dental school, may be counted toward the satisfaction of the major requirement.

Graduate Work. The department offers graduate work leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Candidates for a master's degree are expected to have met undergraduate major requirements or their equivalents (determined by examination) before beginning graduate study. Facilities are available for graduate work in: plant taxonomy, plant morphology,

* On leave of absence 1953-54.

vertebrate and invertebrate zoology, mammalogy, genetics, cytology, embryology, endocrinology, general physiology, and ecology.

Institute of Marine Biology. The Oregon State System of Higher Education maintains an interinstitutional Institute of Marine Biology at Coos Bay on the Oregon coast during the summer months. The institute is located on a 100-acre tract of coastland, given to the University by the Federal government in 1932 and 1941. The deeds of gift provide that the land "shall be used by the University of Oregon solely for scientific and educational purposes." The institute occupies a group of buildings erected by the Civilian Conservation Corps.

LOWER-DIVISION COURSES

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

Study of a series of organisms, selected to illustrate the principles of life science. 3 lectures; 1 three-hour laboratory period. Detling, Huestis, Risley, Sipe.

UPPER-DIVISION COURSES

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 biology and 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 and one year of biology or consent of instructor. Soderwall.

Bi 332, 333. **Plant Morphology.** 4 hours each term, winter and spring.

A detailed study of the life history of representative ferns, fern allies, liverworts, and mosses. Evolution among pteridophytes. Comparative study of the gymnosperms. Prerequisite: Bi 334. Sipe.

Bi 334. **Systemic Botany.** 4 hours.

Principles of plant classification; common plant families; collection and identification of Oregon plants. 2 lectures; 1 three-hour laboratory period. Sipe.

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, 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 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: Bi 103, one year of chemistry. Soderwall.

Bi 442. **Genetics.** (g) 4 hours fall.

Introduction to the data and experimental procedures of genetics. 2 lectures, 2 three-hour laboratory periods. Prerequisite: general biology. Clancy.

- Bi 443. **Genetics.** (g) 4 hours winter.
Required experiments and individually selected projects. 2 lectures; 6 hours laboratory. Prerequisite: Bi 442, organic chemistry. Clancy.
- Bi 444. **Histology.** (g) 4 hours winter.
Systematic study, description, and identification of histological structures. 2 lectures; 2 three-hour laboratory periods. Prerequisite: Bi 103. Clancy.
- Bi 445. **Vertebrate Embryology.** (g) 4 hours spring.
Early development stages of vertebrates. 2 lectures; 2 three-hour laboratory periods. Prerequisite: Bi 103. Huestis, Clancy.
- Bi 446. **Introduction to General Physiology.** (g) 4 hours spring.
Physiochemical structure of cells, cellular metabolism, osmosis, permeability, ion transport, and bioelectric phenomena in plants and animals. 3 lectures; 1 three-hour laboratory period. Prerequisites: elementary college biology, physics, and chemistry. Scheer.
- Bi 451. **Microtechnique.** (g) 4 hours any term.
Open to a limited number of students. Laboratory experience in preparing tissues and small organisms for microscopic study. 2 lectures; 2 three-hour laboratory periods. Prerequisite: one year of college biology. McConnaughey.
- Bi 454. **Algae.** (G) 4 hours.
Structure and life histories of representative fresh-water and marine algae. 2 lectures; 2 three-hour laboratory periods. Prerequisite: general biology. Sipe.
- Bi 455. **Fungi.** (G) 4 hours.
Structure, physiology, and classification of fungi. 2 lectures; 2 three-hour laboratory periods. Prerequisite: general biology. Sipe.
- Bi 461, 462. **Invertebrate Zoology.** (G) 4 hours each term, fall and winter.
Survey of invertebrate phyla, with emphasis on free living forms. Winter term devoted to the Arthropoda. 2 lectures; 2 three-hour laboratory periods. Prerequisite: one year of college biology, senior standing. McConnaughey.
- 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. Prerequisite: one year of biology, senior standing. McConnaughey.
- Bi 464, 465, 466. **Principles of Ecology.** (G) 3 hours each term.
Fall: general principles of ecology, living animals in relation to their physical, chemical, and biological environments; 3 lectures, field trip alternate weeks. Winter: experimental ecology; toleration, orientation, and response of animals to certain environmental factors; 1 lecture, 4 hours laboratory. Spring: aquatic ecology, lake and stream environments, cycles; 2 lectures, 1 three-hour laboratory period. Prerequisite: one year of biology, senior standing.
- Bi 467, 468, 469. **Historical Biogeography.** (G) 3 hours each term.
Fall: classification of mammals and mammalian morphology, with emphasis on comparative osteology. Winter: history of mammals; principles involved in their chronological distribution. Spring: biogeography and palaeoecology. 2 lectures; 1 three-hour laboratory period. Prerequisite: senior standing in biology, geology, or anthropology. Shotwell.
- Bi 471, 472, 473. **Advanced Systematic Botany.** (G) 4 hours each term.
Classification of the seed plants of the Pacific Northwest, with emphasis on distribution and speciation. 2 lectures; 2 three-hour laboratory periods. Prerequisite: one year of botany, including work in plant classification. Detling.
- Bi 475, 476, 477. **Advanced Plant Morphology.** (G) 4 hours each term.
Structure and life histories of the plant phyla above the thallophytes. 2 lectures; 2 three-hour laboratory periods. Prerequisite: one year of botany. Detling.

Bi 481. Mammalian Embryology. (G) 3 hours.

Early developmental stages of the mammal. 1 demonstration period; 2 three-hour laboratory periods. Prerequisite: vertebrate embryology. Huestis.

Bi 482. Advanced Anatomy. (G) 3 hours.

Special studies in animal morphology, with emphasis on contemporary anatomical methods and literature. 1 discussion period, 2 three-hour laboratory periods. Prerequisite: two years of biology.

Bi 485. Endocrinology. (G) 4 hours spring.

Morphology and physiology of the glands of internal secretion, and their role in normal body functions of the organisms. 3 lectures; 1 three-hour laboratory period. Prerequisite: two years of biology; organic chemistry. Soderwall.

Bi 492, 493. General and Comparative Physiology. (G) 4 hours each term, fall and winter.

Physiology of excitation, conduction, muscular contraction, growth, and development in animals. Nutrition, feeding, digestion, circulation, metabolism, excretion, and the neuromuscular system in the major animal phyla, studied in relation to ecology and the evolution of physiological function. 3 lectures; 1 three-hour laboratory period. Prerequisite: Bi 446. 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. Hours to be arranged.**

Lectures and discussions 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.****Bi 520, 521, 522. Advanced Genetics. 2 hours each term.**

Study of topics of major interest in "classical" and "modern" genetics. Fall and winter: the nature, behavior, and physiological action of the genes at the level of the individual organism; prerequisite: Bi 443 and biochemistry. Spring: concepts associated with genetics as a factor in the origin and evolutions of species; introduction to techniques utilized in the genetic study of populations of organisms, including man; prerequisite: Bi 442, college algebra, elementary statistics. Clancy.

Bi 525. Experimental Morphogenesis. 2 hours.

Problems and techniques of experimental morphogenesis and development. Lectures. With the consent of the instructor, experimental work may be carried on in connection with this course in Bi 501. Prerequisite: vertebrate embryology. Risley.

Bi 527. Cytology. 3 hours winter.

The problem of cytology; methods of study of the cell as the fundamental unit of structure and function in living organisms; experimental procedures. 2 lectures; 1 three-hour laboratory period. Prerequisite: Bi 444, Bi 445, Bi 446, Bi 451, or consent of instructor. Risley.

Bi 531, 532, 533. Advanced Physiology. 2 hours each term.

Study of topics of current interest in general, cellular, and comparative physiology. Experimental work may be carried on in Bi 501. Prerequisite: one year of physiology. Scheer.

Department of Chemistry

Professors: A. H. KUNZ (department head), PIERRE VAN RYSSELBERGHE.

Associate Professors: F. J. REITHEL,* D. F. SWINEHART.

Assistant Professors: GEORGE GORIN, L. H. KLEMM.

Instructors: G. W. KITTINGER, H. G. RICHTER.

Associate: G. B. ADAMS, JR.

Assistants: ANNETTE S. BAICH, D. W. BARNUM, M. D. BEALOR, C. E. BORCHERS, G. M. BOWER, RIN CHU, W. D. CLARK, J. E. COTTON, N. R. FETTER, C. D. LIND, R. D. MCCOY, R. G. NEVILLE, R. G. PILMER, J. W. SPRAGUE, T. E. TEETER, JOSEPH WEISSBART, R. R. WILKINSON, G. C. WILLIS, JR., HERMAN ZIFFER.

THE undergraduate courses in chemistry offered by the department 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 planning (1) to become professional chemists, (2) to take advanced work in other sciences, (3) to enter a medical or dental school, or (4) to teach science in the secondary schools.

High-school preparation for major work in chemistry should include at least one unit each in algebra and geometry and two units in science. The student's high-school program should also include substantial courses in English, social science, literature, and foreign languages. Students entering with insufficient preparation in mathematics must make up their deficiencies through elementary courses offered by the University.

The standard curriculum for majors includes the following courses in chemistry and related fields:

Freshman Year. General Chemistry (Ch 201, 202, 203); 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, Mth 313).

Junior Year. Analytical and Theoretical Chemistry (Ch 321, 322, 323); Inorganic Semi-Micro Analysis (Ch 324); Organic Qualitative Analysis (Ch 435); Instrumental Analysis (Ch 426); German.

Senior Year. Physical Chemistry (Ch 441, 442, 443); Physical-Chemical Measurements (Ch 444, 445, 446); German.

Majors should elect at least one additional advanced sequence in chemistry, such as Advanced Inorganic Chemistry (Ch 411, 412, 413) or Biochemistry (Ch 461, 462, 463, Ch 464, 465, 466). Additional courses in physics and mathematics are strongly recommended. Majors in chemistry who intend to enter a medical school must take required work in biology (see page 94).

To be recommended by the department for the teaching of chemistry in the secondary schools, a student must have completed satisfactorily at least two year sequences in chemistry, together with supporting work in mathematics and physics.

The department offers graduate work leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. The graduate program consists of thesis work, seminars, and broad fundamental courses. The graduate student is

* On leave of absence 1953-54.

advised to elect some advanced courses in other fields of science. In most cases, professional chemical-research positions are open only to persons having an advanced degree.

The University of Oregon is on the approved list of schools whose chemistry faculties, facilities, and curricula have been investigated by the Committee on the Professional Training of Chemists of the American Chemical Society.

LOWER-DIVISION COURSES

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

Similar to Ch 201, 202, 203 but less rigorous. Does not serve as a foundation for advanced courses in chemistry. Concurrent work in mathematics recommended. 3 lectures; 1 two-hour laboratory period; 1 quiz period. Kunz.

*Ch 201, 202, 203. **General Chemistry.** 4 hours each term.

Standard first-year college chemistry. After registration, students are divided into two sections on the basis of placement tests and records. 3 lectures; 1 four-hour laboratory period, including group discussion. Prerequisite: Mth 10 or equivalent Richter, Swinehart.

UPPER-DIVISION COURSES

Ch 320. **Elementary Quantitative Analysis.** 4 or 5 hours.

Lectures on the fundamentals of quantitative analysis. Laboratory work devoted mainly to volumetric analysis. 3 lectures; 1 or 2 three-hour laboratory periods. Prerequisite: Ch 203. Gorin.

Ch 321, 322, 323. **Analytical and Theoretical Chemistry.** 4 hours each term.

A second-year sequence for students expecting to do further work in chemistry. Laboratory work in quantitative analysis. 2 lectures; 2 three-hour laboratory periods. Prerequisite: Ch 203. Kunz.

Ch 324. **Inorganic Semi-Micro Qualitative Analysis.** 3 hours.

The separation and identification of cations and anions, using semi-micro methods. 1 lecture; 2 three-hour laboratory periods. Prerequisite: Ch 203. Swinehart.

Ch 327. **Quantitative Analysis.** 2 or 3 hours.

An extension of the laboratory work of Ch 321, 322, 323, which is prerequisite. 2 or 3 three-hour laboratory periods.

Ch 331, 332. **Introductory Organic Chemistry.** 4 hours each term.

Chemistry of the carbon compounds; the aliphatics, aromatics, and derivatives. 3 lectures; 1 three-hour laboratory period. Prerequisite: one year of college chemistry. Gorin.

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. 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 411, 412, 413. **Advanced Inorganic Chemistry.** (G) 2 or 3 hours each term.

A comprehensive study of the chemical elements and their compounds, includ-

* Normally, credit is not given for both Ch 101, 102, 103 and Ch 201, 202, 203.

ing nuclear, atomic, and molecular structures. Lectures and laboratory. Prerequisite: three years of college chemistry. Richter.

Ch 426. **Instrumental Analysis.** (G) 3 hours.

Instrumentation in the chemical laboratory, including electrical and optical methods which require special apparatus. 1 lecture; 2 three-hour laboratory periods. Prerequisite: Ch 322. Richter.

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 332 or Ch 336. Gorin.

Ch 440. **Survey of Physical Chemistry.** (g) 4 hours.

Fundamental principles of physical chemistry; calculus not required. 3 lectures; 1 three-hour laboratory period. Prerequisite: Ch 320 or Ch 321.

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; one year of calculus. Van Rysselberghe.

Ch 444, 445, 446. **Physical-Chemical Measurements.** (g) 1 hour each term.

A laboratory sequence; fundamental experiments illustrating physical-chemical principles. Normally taken with Ch 441, 442, 443. Van Rysselberghe.

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, and biology. Kittinger, Reithel.

Ch 464, 465, 466. **Biochemistry Laboratory.** (G) 1 or 2 hours each term.

Designed to accompany Ch 461, 462, 463. Chemical analysis of biological materials and laboratory investigation of biochemical phenomena. 1 or 2 three-hour laboratory periods. Kittinger, Reithel.

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.** Hours to be arranged.

Ch 521, 522, 523. **Advanced Analytical Chemistry.** 2 or 3 hours each term.

Special topics in analytical chemistry, with emphasis on analysis of the less-familiar elements. 1 lecture; 1 or 2 three-hour laboratory periods. Richter.

Ch 531, 532, 533. **Advanced Organic Chemistry.** 2 or 3 hours each term.

Advanced general survey of organic chemistry: structural theory, synthesis, scope and mechanism of reactions. Klemm, Gorin.

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, organic chemistry of the less familiar elements, physical-organic theory. Gorin, Klemm.

Ch 537, 538, 539. **Advanced Organic Laboratory.** 2 hours each term.

Individual instruction in organic synthesis and techniques. Gorin, Klemm.

Ch 541, 542, 543. **Chemical Kinetics.** 2 or 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 in solution, catalysis. Offered alternate years. Swinehart.

- Ch 551, 552. **Chemical Thermodynamics.** 3 hours each term, fall and winter.
The laws of thermodynamics and their application to physicochemical problem; equilibrium, phase rule, properties of solutions (nonelectrolytes and electrolytes), thermodynamics of reversible cells and electrodes, etc. Not offered 1954-55. Van Rysselberghe.
- Ch 553. **Statistical Thermodynamics.** 3 hours spring.
The elements of statistical mechanics (classical and quantum); calculation of thermodynamic quantities from partition functions. Normally follows Ch 551, 552. Not offered 1954-55. Van Rysselberghe.
- Ch 554, 555, 556. **Electrochemistry.** 2 hours each term.
Systematic study of electrode potentials, galvanic cells, electrolysis, polarization phenomena, reversible and irreversible electrode reactions, with applications in electrometric analytical procedures, polarography, electrolytic organic preparations, etc. Van Rysselberghe.
- Ch 557, 558, 559. **Thermodynamics of Irreversible Processes.** 2 hours each term.
The elements of the thermodynamics of irreversible processes and their applications in chemistry, electrochemistry, biochemical and biological mechanisms, etc. Topics treated vary from year to year. Offered alternate years. Van Rysselberghe.
- 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 syntheses. Offered alternate years. Reithel.
- 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. Reithel.

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.

Department of Economics

Professors: C. W. MACY (department head), CALVIN CRUMBAKER (emeritus), J. H. GILBERT (emeritus), P. L. KLEINSORGE, V. P. MORRIS, L. A. WOOD (emeritus).

Assistant Professors: ROBERT CAMPBELL, H. T. KOPLIN, L. R. SORENSON, M. D. WATTLE.

Instructors: M. M. GAFFNEY, E. C. ROBBINS, JR.*

Fellow: GEORGE BABILOT.

Assistants: W. R. GARDNER, J. T. HART,† F. A. MCENANEY, J. G. RANLETT, J. E. RICKENBACHER.

THE curriculum of the Department of Economics is intended 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.

* On leave of absence, winter and spring terms, 1953-54.

† Resigned Dec. 31, 1953.

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); Constructive Accounting (BA 111, 112, 113).

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); Mathematical Statistics (Mth 447, 448, 449); year sequence in statistical economics (Ec 483, 484, 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 with a major in economics must select six fields of study, one or two of which may be in other schools or departments of the University. A working knowledge of statistics and accounting is required.

All candidates must take comprehensive written preliminary examinations and an oral preliminary examination in the several fields of economics; all candidates are examined in the fields of economic theory and history of economic thought; the additional fields may be elected by the candidate.

A candidate for the Ph.D. degree in another area of study may present economics as a cognate field, provided he has had proper preparation. Work in economic theory is required; other fields may be elected by the candidate. Written comprehensive examinations are required in the fields of economics selected by the candidate.

LOWER-DIVISION COURSES

Ec 201, 202, 203. **Principles of Economics.** 3 hours each term.

Principles that underlie production, exchange, distribution, etc. Prerequisite: sophomore standing. Campbell, Gaffney, Koplín, Macy, Morris, Robbins, Wattles.

UPPER-DIVISION COURSES

- Ec 316. **Economics of American Industry.** 3 hours winter.
Economics of large-scale industry; organization of industrial markets; competitive conditions and price determination in each. Prerequisite: Ec 201, 202, 203. Campbell.
- Ec 318. **Money and Banking.** 3 hours fall.
Operations of commercial banks, the Federal Reserve System, and the Treasury which affect the United States monetary system. Prerequisite: Ec 201, 202, 203 or consent of instructor. Robbins.
- 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. Macy.
- 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. Wattles.
- Ec 325. **Labor Economics.** 3 hours fall.
Conditions of labor since the industrial revolution. 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 which call for regulation through public authority. Prerequisite: Ec 201, 202, 203. Kleinsorge.
- Ec 332. **Economics of Business Organization and Finance.** 3 hours winter.
A descriptive study of the principal characteristics of the several types of business organization; the rights, duties, and obligations of investors and managing officials; the problems of promoting, organizing, and financing business; the political and economic problems of the modern giant corporation. Prerequisite: Ec 201, 202, 203. Robbins.
- Ec 345. **Economic Problems of the Pacific.** 3 hours fall.
Economic analysis of some of the major 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. Wattles.
- 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 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. Robbins.
- Ec 415. 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. Campbell.
- Ec 417. Contemporary Economic Problems.** (g) 3 hours spring.
A study of contemporary economic conditions and problems; analysis of policies and practices affecting such problems. Prerequisite: Ec 201, 202, 203. Campbell.
- Ec 418, 419, 420. 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 434. Government Control of Private Business.** (g) 3 hours fall.
Survey of the general movement to subject business and personal and property rights to regulation by state or Federal agencies. Prerequisite: Ec 201, 202, 203. Koplin.
- Ec 435. Economics of Public Utilities.** (g) 3 hours winter.
Economic relationships which establish a public interest in a business enterprise. Economic and political problems of the organization, financing, management, and public relations of public utilities. Prerequisite: Ec 201, 202, 203. Koplin.
- Ec 436. Economics of Transportation.** (g) 3 hours spring.
Economic problems of contract and common carriers by water, highway, airway, railway. Passenger, freight, express, mail services; theories of rate making; public policy on subsidies and aids; competition and coordination. Prerequisite: Ec 201, 202, 203. Koplin.
- Ec 437, 438. Economic Problems of Government Regulations.** (G) 2 hours each term, fall and winter.
The development and application of antitrust and unfair-trade-practices legislation; government regulation of pricing; the problems of public policy in specific 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. Wattles.
- 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. Robbins, Wattles.

- 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. Gaffney.
- Ec 454. Agriculture and the National Economy.** (G) 3 hours winter.
The place of American agriculture in the national and world economy. Problems of agricultural credit and finance, tenancy, housing, and labor; government control of production and of foreign and domestic marketing, with particular emphasis on price-control legislation; agricultural cooperatives. Prerequisite: Ec 201, 202, 203. Gaffney.
- Ec 455. 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. Gaffney.
- 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. Koplín.
- Ec 466, 467, 468. Economic History of Modern Europe.** (G) 3 hours each term.
European economic development and its effect upon society from the beginning of the modern era. Fall: the commercialization of economic life, 1500-1750; winter: the beginnings of industrialization, 1750-1850; spring: the spread of industrialism, 1850 to the present. Sorenson.
- 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. Kleinsorge.
- Ec 475, 476, 477. Recent Economic Theories.** (G) 2 hours each term.
A detailed analysis and critique of theories of recent major economists. Prerequisite: Ec 375, 376, 377 or consent of instructor. Robbins.
- Ec 480, 481. Mathematical Economics.** (G) 3 hours each term, winter and spring.
Construction and fitting of mathematical models of economic life. Prerequisite: Mth 101, 102, 103; Ec 201, 202, 203.
- Ec 483. Compilation of Economic Data.** (G) 3 hours fall.
Economic source material; adjusting time series for continuity and seasonal variation; cost of living, price, and production index numbers. Prerequisite: Mth 425, 426.
- 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.
- 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.
- Ec 487, 488, 489. American Economic History.** (G) 3 hours each term.
All phases of the economic development of the United States. Sorenson.

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 Theory. Koplin.
Government Regulation. Koplin.
Industrial Relations. Kleinsorge.
International Economics. Wattles.
Money and Credit. Robbins.
Statistical Economics.

Ec 514, 515, 516. **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 for economic forecasting. Campbell.

Ec 518, 519, 520. **Fiscal Theory and Policy.** 2 hours each term.

An intensive study of fiscal theory and its appropriate role in determining financial policies of government. Macy.

Department of English

Professors: P. W. SOUERS (department head), C. V. BOYER (emeritus), F. G. BLACK, R. S. CRANE,* R. H. ERNST (emeritus), H. H. HOELTJE, R. D. HORN, E. C. A. LESCH, E. G. MOLL, MARY H. PERKINS (emeritus), W. F. G. THATCHER (emeritus), HOYT TROWBRIDGE.

Associate Professors: ALICE H. ERNST (emeritus), J. C. MCCLOSKEY,† CARLISLE MOORE, O. M. WILLARD.

Assistant Professors: R. C. GORDON, J. B. HALL, S. N. KARCHMER, E. D. KITTOE, T. F. MUNDLE, N. H. OSWALD, J. C. SHERWOOD, HELEN SOBHEEN, C. A. WEGELIN.

Instructors: R. C. BALL, ROLAND BARTEL, W. E. COLBURN, J. C. ELLIS, W. J. FEENEY, L. T. GIBBY, C. F. RUFF, W. H. VAN VORIS.

Fellow: L. H. FREY.

Assistants: BRUCE ANAWALT, P. G. DROBAC, HELEN J. FRYE, L. B. HALL, ELIZABETH A. HART, Q. G. JOHNSON, JUDITH McDOWELL, GHAIDA E. MEO, R. G. ROSS.

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 majors in English literature and in American literature, and an undergraduate major 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 requirement for the B.A. degree.
- (2) English History (Hst 207, 208, 209), or History of Western Civiliza-

* Appointment for spring term, 1953-54.

† On sabbatical leave 1953-54.

tion (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), or Appreciation of Literature (Eng 104, 105, 106), or Introduction to 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 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 will 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 mediaeval literature.

Major in American Literature. (a) 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. (b) Twenty-one term hours in American literature, 12 of which must be in upper-division courses and at least 6 in the 400 group.

Major in Writing. (a) Literature requirement—24 term hours in upper-division courses in English or American literature, including: (i) not more than 9 term hours in the 300 group, (ii) not more than 3 term hours in nineteenth-century English literature, and (iii) not more than 9 term hours in American literature. (b) Writing requirement—9 term 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 57). In addition to the regular requirements for a major in English, candidates for the degree with honors must submit a thesis that displays an aptitude for original and independent study or a literary composition that displays an aptitude for good writing, 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 course requirements.

State Teacher's Certificate. 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).

English Literature

LOWER-DIVISION COURSES

Eng 12. 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. Mundle, Willard.

***Eng 101, 102, 103. Survey of English Literature.** 3 hours each term.

From *Beowulf* to the present. Fall: *Beowulf* to Milton; winter: Milton to Byron; spring: Byron to the present. Ball, Bartel, Black, Colburn, Hoeltje, Horn, McCloskey, Moore, Mundle, Oswald, Willard.

***Eng 104, 105, 106. Appreciation of Literature.** 3 hours each term.

The aim is to stimulate the appreciation and criticism of literature through a study of outstanding works in prose and poetry, selected from all periods, including the twentieth century; includes works in English and translations from other literatures. Gibby, Gordon, Moll, Moore, Mundle, Oswald, Trowbridge.

***Eng 107, 108, 109. Introduction to Literature.** 3 hours each term.

The aim is to stimulate the appreciation and criticism of literature through an examination of its motives and ideas. Study of some masterpieces in ancient, modern, and contemporary literature. Sherwood, Wegelin.

Eng 201, 202, 203. Shakespeare. 3 hours each term.

Study of the important plays—comedies, histories, and tragedies. Required for majors. Black, Hoeltje, Horn, Lesch, McCloskey, Moll, Oswald, Trowbridge.

UPPER-DIVISION COURSES

Eng 301. Tragedy. 3 hours.

A study of the nature of tragedy and of its expression in various literary forms. Trowbridge.

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. Lesch.

Eng 304. Comedy. 3 hours.

The comic view in nondramatic forms, as well as in the stage tradition. Main emphasis on English masters, but with attention also to classical and continental writers. Principal theories of the comic and of the corresponding literary forms and types. Horn.

Eng 350. 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. Moore, Trowbridge.

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.

British and American literature since 1900. This sequence may not be offered toward the satisfaction of the minimum requirement for a major in English. Sherwood.

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

- 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, Robert Sherwood, Thornton Wilder, and Christopher 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. Lesch.
- 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. Trowbridge.
- 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. Souers.
- 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. Souers.
- Eng 428. **Chaucer.** (G) 3 hours.
 As much of Chaucer's work read as time permits. Required for graduate students in English. Souers.
- 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. Trowbridge, Willard.
- Eng 434. **Spenser.** (G) 3 hours.
 Lesch.
- Eng 436. **Advanced Shakespeare.** (G) 3 hours.
 Intensive study of several plays, with primary emphasis on textual problems and sources. Prerequisite: year sequence in Shakespeare. Lesch.
- Eng 440, 441, 442. **Seventeenth-Century Literature.** (g) 3 hours each term.
 The 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.
 Lesch.
- 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.
 Trowbridge.
- 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 1954-55. 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. Mundle.
- 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. Will not apply toward the satisfaction of the minimum requirements for a major in English. Oswald.
- Eng 490. **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 491, 492. **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 490; Eng 490 is recommended as preparation, but is not prerequisite. 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.** 2 hours fall.
Bibliography and the methods of literary research as an introduction to graduate work. Trowbridge, Willard.

COURSES OFFERED ONLY IN SUMMER SESSIONS

- Eng 422, 423. **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 115-116.

LOWER-DIVISION COURSES

- Eng 261, 262, 263. **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. Wegelin.

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 contemporary movements in our national literature. From Irving and Parkman to Willa Cather and Steinbeck. Hoeltje.

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 largely given 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 261, 262, 263. 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 1954-55. Hoeltje.

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.

Writing

The major in writing offered by the Department of English is planned to offer students of demonstrated talent an opportunity 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.

The department also offers required and elective courses in writing for all University students, to help them develop ability to express themselves clearly in good English. 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 examination, that his writing ability meets the standard aimed at in English Composition may be ex-

cused 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 10) before they are permitted to register for English Composition.

LOWER-DIVISION COURSES

Wr 10. 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 the entrance placement examination. For such students Wr 10 is a prerequisite for any other work 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.

Practice in a variety of literary forms, including fiction. Prerequisite: Wr 111, 112 with grade of A or B; Wr 113 with grade of B; or consent of instructor.

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.

UPPER-DIVISION COURSES

Wr 316, 317. Advanced Expository Writing. 3 hours each term, winter and spring.

Practice in various forms of expository writing. Horn.

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. Versification. 2 hours each term.

Verse writing; study of various verse forms as mediums of expression. Analysis of class work. Open to freshmen and sophomores. Prerequisite: consent of instructor. Hall.

Wr 408. Individual Instruction. Hours to be arranged.

Wr 411. English Composition for Teachers. (g) 3 or 4 hours any term.

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

Wr 420, 421, 422. Novel Writing. 3 hours each term.

Designed to offer 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.

Wr 451, 452, 453. Projects in Writing. 3 hours each term.

For students who desire advanced instruction and practice in writing in the short-story, novel, or nonfiction form. Prerequisite: consent of instructor. Hall, Karchmer.

Department of Foreign Languages

Professor: D. M. DOUGHERTY (department head), C. B. BEALL, E. P. KREMER, L. O. WRIGHT.

Associate Professors: F. M. COMBELLACK, C. L. JOHNSON.

Assistant Professors: H. F. BOWMAN, EDMUNDO GARCÍA-GIRÓN, BERNARDO GICOVATE,* J. E. GUÉDENET, EDNA LANDROS, P. J. POWERS, W. A. ROECKER, ASTRID M. WILLIAMS, D. S. WILLIS.

Instructors: J. D. DEVINE, PATRICIA M. GATHERCOLE, T. E. MARSHALL.

Fellow: W. E. WALLACE.

Assistants: CATHERINE F. BLACK, R. E. COLLINS, CORALIE A. NELSON, LEO D. OSBORN, V. GWEN PAUGH, BARBARA C. SHREVE, A. B. TAGGART, CHARITY WILLIAMS.

THE Department of Foreign Languages offers instruction in the following languages: Chinese, French, German, Greek, Italian, Japanese, Latin, Norwegian, Russian, Spanish, and Swedish. Major curricula are offered in Classical languages, Germanic languages, and Romance languages.

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 Classical languages, French, German, and Spanish; (4) a reading knowledge of languages required of candidates for advanced degrees; and (5) a writing proficiency and speaking command of French, German, 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. Greek: 30 term hours beyond the first-year sequence; History of Greek (Hst 411), History of Rome (Hst 412, 413) (students majoring in Greek are normally expected to take courses in Latin). Latin: 24 term hours in upper-division courses in Latin; two year sequences in either Greek or a modern European language; Hst 411, 412, 413.

French, German, or Spanish. 30 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). Attainment of a reading knowledge of a second foreign language is recommended.

Romance Languages. 30 term hours beyond the second-year sequence in one language and 15 term hours beyond the second-year sequence in a second language.

Honors in Foreign Languages. For superior upper-division students, the Department of Foreign Languages offers a program leading to the degree of Bachelor of Arts with Honors (for regulations governing eligibility, see page 57). Honors candidates must, in addition to satisfying major requirements, submit a thesis and pass a comprehensive examination.

Graduate Study. The department offers graduate programs leading to the degrees of Master of Arts and Doctor of Philosophy in French, Spanish, and Romance languages.

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.)

* On leave of absence 1953-54.

Classical Languages

GREEK

LOWER-DIVISION COURSES

- CL 1, 2, 3. **First-Year Greek.** 4 hours each term.
Thorough study of the forms and syntax of Attic Greek. Reading of selected passages of Xenophon's *Anabasis*. Landros.
- 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 discussions on Homer and his times. Spring: Plato's *Euthyphro*, *Crito*, and *Apology*. Combellack.
- CL 231, 232, 233. **New Testament Greek.** 4 hours each term.
Prerequisite: one year of college Greek. Combellack.

UPPER-DIVISION COURSES

- AL 304, 305, 306. **Literature of the Ancient World.** 3 hours each term.
For description, see page 98. Combellack.
- 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. Combellack.
- 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. Combellack.
- 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, *Hellenica*. Prerequisite: two years of college Greek. Combellack, Landros.
- 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. Combellack.
- CL 405. **Reading and Conference.** Hours to be arranged.
- CL 407. **Seminar.** (g) Hours to be arranged.
- CL 411, 412, 413. **Plato and Aristotle.** (G) 3 hours each term.
Plato, *Republic*; Aristotle, *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. Combellack.
- CL 414, 415, 416. **Attic Orators.** (G) 2 hours each term.
The beginnings and development of Attic oratory. Reading from Lysias, Aeschines, Demosthenes, and Isocrates. Lectures and discussions on ancient rhetoric. Prerequisite: two years of college Greek. Combellack.

GRADUATE COURSES

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

- CL 503. **Thesis.** Hours to be arranged.
Not offered 1954-55.
- CL 505. **Reading and Conference.** Hours to be arranged.
Not offered 1954-55.

CL 507. **Seminar.** Hours to be arranged.

Not offered 1954-55.

CL 517, 518, 519. **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. Not offered 1954-55. Combella.

LATIN

LOWER-DIVISION COURSES

CL 4, 5, 6. **First-Year Latin.** 4 hours each term.

The fundamentals of Latin; reading of three books of Caesar's *Gallic War*. Landros.

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. Landros.

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. Prerequisite: two years of college Latin or equivalent. Combella.

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. Combella.

CL 340. **Advanced Latin Grammar.** 3 hours spring.

Survey of the sounds, forms, and syntax of classical Latin; relation of Latin to other languages; basis of Latin verse; introduction to the principles of philology. Landros.

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. Landros.

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. Landros.

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

CL 407. **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 400 A.D. 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.

Not offered 1954-55.

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

Not offered 1954-55.

CL 507. **Seminar.** Hours to be arranged.

Not offered 1954-55.

CL 511, 512, 513. **Readings in Mediaeval Latin.** Hours to be arranged.
Not offered 1954-55. Landros.

Germanic Languages

GERMAN

LOWER-DIVISION COURSES

- GL 1, 2, 3. **First-Year German.** 4 hours each term.
Provides a thorough grammatical foundation and an elementary reading knowledge of German, as well as an understanding of the spoken language. Kremer, Marshall, Roecker.
- GL 7, 8. **First-Year German.** 6 hours each term, winter and spring.
A two-term sequence covering the work of GL 1, 2, 3. For students who wish to begin German in the winter term. Kremer.
- GL 101, 102, 103. **Second-Year German.** 4 hours each term.
Review of grammar and composition. Reading of selected texts of representative authors. Conversation. Roecker, Williams.
- 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. Prerequisite: two years of college German. Williams, Roecker.

UPPER-DIVISION COURSES

- AL 314, 315, 316. **Introduction to Germanic Literature.** 3 hours each term.
For description, see page 98.
- GL 320, 321, 322. **Scientific German.** 3 hours each term.
Intensive practice in the reading of scientific texts of increasing difficulty. Prerequisite: two years of college German; or completion of GL 1, 2, 3 or GL 7, 8 with a grade of A or B. Kremer.
- GL 331, 332, 333. **German Literature of the Nineteenth Century.** 3 hours each term.
The "novelle," principal dramatic works of the postclassical period, representative lyrics. Prerequisite: survey course in German literature.
- 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. Kremer.
- 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. Kremer.
- 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, Roecker.
- 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. **Classical German Drama and Goethe's "Faust."** (G) 3 hours each term.
The dramatic masterpieces of the classical period of German literature. Goethe's *Faust*, Parts I and II. Prerequisite: survey of German literature. Roecker.

GL 421, 422, 423. **Modern German Literature.** (g) 3 hours each term.

Study of representative texts of prose, poetry, and drama from 1889 to the present. Prerequisite: survey of German literature.

GL 424, 425, 426. **Advanced German Composition and Conversation.** 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. Kremer.

GRADUATE COURSES

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

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

Not offered 1954-55.

GL 505. **Reading and Conference.** 1 to 3 hours any term.

Not offered 1954-55.

GL 507. **Seminar.** Hours to be arranged.

Not offered 1954-55.

GL 508. **Seminar: German Philology.** 3 hours any term.

Not offered 1954-55.

SCANDINAVIAN

LOWER-DIVISION COURSES

GL 11, 12, 13. **First-Year Norwegian.** 3 hours each term.

Designed to give a thorough grammatical foundation in idiomatic Norwegian, with emphasis on both the reading and speaking of the language. Alternates with GL 107, 108, 109. Williams.

GL 21, 22, 23. **First-Year Swedish.** 3 hours each term.

Designed to give a thorough grammatical foundation in idiomatic Swedish, with emphasis on both the reading and speaking of the language. Alternates with GL 104, 105, 106. Williams.

GL 104, 105, 106. **Second-Year Norwegian.** 3 hours each term.

Review of grammar, composition, conversation; study of selected texts of representative authors. Alternates with GL 21, 22, 23. Williams.

GL 107, 108, 109. **Second-Year Swedish.** 3 hours each term.

Review of grammar, composition, conversation; study of selected texts of representative authors. Alternates with GL 11, 12, 13. Williams.

UPPER-DIVISION COURSES

AL 351, 352, 353. **Scandinavian Literature in Translation.** 3 hours each term.

For description, see page 98. Williams.

Oriental Languages

LOWER-DIVISION COURSES

OL 1, 2, 3. **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.

OL 4, 5, 6. **Second-Year Japanese.** 4 hours each term.

Colloquial and literary Japanese (*bungo*); 487 new Chinese characters (*kanji*); reading of essays and stories, to develop fluency in translation and conversation. Willis.

OL 21, 22, 23. **First-Year Chinese.** 4 hours each term.

Colloquial Pekingese Mandarin; reading and writing of 573 Chinese characters; reading of essays and stories designed for the systematic presentation of the structure and patterns of the Chinese sentence. Willis.

OL 24, 25, 26. **Second-Year Chinese.** 4 hours each term.

Continuation of OL 21, 22, 23; 810 new Chinese characters; designed to increase fluency of translation, reading, and writing. Willis.

UPPER-DIVISION COURSES

AL 317, 318, 319. **Introduction to Chinese and Japanese Literature.** 3 hours each term.

For description, see page 98. Willis.

Romance Languages

FRENCH

LOWER-DIVISION COURSES

RL 1, 2, 3. **First-Year French.** 4 hours each term.

An introduction to French, stressing reading and speaking. Exercises in elementary composition and grammar. Johnson, staff.

RL 7, 8. **First-Year French.** 6 hours each term, winter and spring.

Covers in two terms the work of RL 1, 2, 3. For students who wish to begin French in the winter term. Gathercole.

RL 101, 102, 103. **Second-Year French.** 4 hours each term.

Study of selected texts of representative authors; review of grammar; considerable attention to oral use of the language. Johnson, staff.

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. Prerequisite: two years of college French or equivalent. Guèdenet, Johnson.

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. Guèdenet, Johnson.

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. Guèdenet, Gathercole.

RL 320, 321, 322. **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.

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

For students reading for honors in Romance languages.

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 nineteenth 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. Guèdenet.
- 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. Guèdenet.

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 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, du Bellay, d'Aubigné, and Montaigne. Beall.
- RL 538, 539, 540. **Old French Readings.** 2 hours each term.
Study of the principal mediaeval genres; romances, chronicles, lyric poetry, and drama. Special attention to works of fourteenth and fifteenth centuries.

ITALIAN

LOWER-DIVISION COURSES

- RL 31, 32, 33. **First-Year Italian.** 3 hours each term.
Grammar, pronunciation, composition, and translation of modern authors. Powers.
- RL 104, 105, 106. **Second-Year Italian.** 3 hours each term.
Study of selected texts of representative authors. Composition, pronunciation, grammar. Beall, Powers.

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.
- 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 99. Beall.

SPANISH

LOWER-DIVISION COURSES

RL 11, 12, 13. **First-Year Spanish.** 4 hours each term.

An introduction to Spanish, stressing speaking and reading. Exercises in elementary composition. Wright, staff.

RL 17, 18. **First-Year Spanish.** 6 hours each term, winter and spring.

Covers in two terms the work of RL 11, 12, 13. For students who wish to begin Spanish in the winter term. Devine.

RL 107, 108, 109. **Second-Year Spanish.** 4 hours each term.

Intensive oral and written exercises designed to help the student acquire accurate and fluent use of Spanish. Study of selected texts of representative authors. Powers, staff.

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. Prerequisite: two years of college Spanish or equivalent. Powers, Wright.

UPPER-DIVISION COURSES

RL 341, 342, 343. **Survey of Spanish Literature.** 3 hours each term.

For descriptions, see RL 207, 208, 209. Not open to students who have completed that sequence. Powers, Wright.

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. Wright, Devine.

RL 350, 351. **Spanish Phonetics.** 2 hours each term.

Scientific study of Spanish sounds, rhythm, and intonation. Supervised practice, with individual use of recording equipment. Prerequisite: consent of instructor. Wright.

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

For students reading for honors in Romance languages.

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.

Spanish literature since 1898. Principal types and authors. Extensive reading of texts. Conducted in Spanish. Prerequisite: survey of Spanish literature.

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, Neruo, Gonzáles Prada, Mistral, and others. Conducted in Spanish. Prerequisite: survey of Spanish literature. García-Girón, Gicovate.

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. Wright.

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*. Wright.

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, Agustín 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. García-Girón, Gicovate.

RL 561, 562, 563. **Spanish-American Novel.** 3 hours each term.

Intensive study of literary and social movements as reflected in the novels of Fernández de Lizardi, Isaacs, Rivera, Gallegos, Azuela, Guzmán, and others. Conducted in Spanish. García-Girón, Gicovate.

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. Wright.

Slavic Languages

LOWER-DIVISION COURSES

SL 11, 12, 13. **First-Year Russian.** 4 hours each term.

The elements of the Russian language. Elementary reading, composition, and conversation. Bowman.

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.

SL 201, 202, 203. **Readings in Russian Literature.** 3 hours each term.

Study in Russian of selected literary masterpieces of the modern period. Fall: Pushkin, *Eugene Onegin*; winter: Gogol, *St. Petersburg Stories*; spring: Dostoevsky, *Crime and Punishment*. Bowman.

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.

AL 331, 332, 333. **Russian Literature in Translation.** 3 hours each term.

For description, see page 98. Bowman.

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

For description, see page 98.

Department of Geography and Geology

Professors: S. N. DICKEN (department head),* L. W. STAPLES (acting department head).

Associate Professor: E. M. BALDWIN.

Assistant Professors: C. T. BRESSLER, S. D. ERICKSEN, J. C. STOVALL.

Assistants: J. L. BARLOW, R. A. BRAY, J. E. CARLAT, R. D. SMITH.

THE Department of Geography and 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 geography and geology; and (3) students majoring in other fields who wish some acquaintance with the contribution of these studies to the understanding of the world and its problems.

For major students, the department provides work in four general fields of specialization: (1) petrology, mineralogy, and economic geology; (2) historical geology and palaeontology; (3) physical geography; (4) economic geography. The first of these fields has a natural alliance with physics and chemistry, the second a natural alliance with botany and zoology, and the third and fourth a natural alliance with social sciences. The student should keep these alliances in mind when he chooses elective courses. Students may specialize in these fields, or may elect a broad program combining work in both geography and geology.

High-school students planning to major in geology or geography at the University are advised to include in their high-school course work in: algebra, plane geometry, trigonometry, geography, science (physics, chemistry, or general science).

Major Curriculum in Geography. The following courses are required for an undergraduate major in geography:

Lower Division—Regional Economic Geography (Geog 201, 202, 203); Climatology (Geog 215); Field Geography (Geog 221); Cartography (Geog 219, 220); General Geology (Geol 101, 102, 103).

Upper Division—Geomorphology (Geog 316); Geography of the Pacific Northwest (Geog 301, 302, 303); Political Geography (Geog 320); Urban Geography (Geog 435); Advanced Field Geography (Geog 406); Geography of Conservation (Geog 425); at least two regional continental courses; Seminar (Geog 407), three terms.

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 100, 105, 106); General Chemistry (Ch 201, 202, 203); General Physics (Ph 201, 202, 203); Principles of Economics (Ec 201, 202, 203).

* On sabbatical leave 1953-54.

Upper Division—Mineralogy (Geol 312, 313, 314); Geomorphology (Geog 316); Introduction to Field Geology (Geol 391); Structural Geology (Geol 421); Introduction to Palaeontology (Geol 381, 382, 383); Stratigraphy (Geol 393); Economic Geology (Geol 411, 412, 413); Petrology and Petrography (Geol 414); Advanced Field Geology (Geol 406); Seminar (Geol 407), three terms.

Major Curriculum in Geography and Geology. The requirements for a combined major in geography and geology are:

Lower Division—Introductory Geography (Geog 105, 106, 107) or Regional Economic Geography (Geog 201, 202, 203); General Geology (Geol 101, 102, 103).

Upper Division—A minimum of two upper-division year sequences in geography and two upper-division year sequences in geology.

Graduate Study. Candidates for a master's degree with a major in geology are required to take advanced courses in the three fields of economic geology, petrology, and palaeontology. Suggested minor fields are: chemistry, physics, biology, or mathematics.

Graduate work leading to a master's degree in geography is offered in three fields of specialization: physical geography, economic geography, and regional geography.

Facilities. The department has laboratory facilities for work in cartography, mineralogy, palaeontology, and petrography, including equipment for the making of thin sections. Working collections of maps, ores, minerals, rocks, and fossils are available for student use. The Condon Museum of Geology contains excellent collections of rocks, minerals, and vertebrate fossils from the John Day Valley. Oregon is especially rich in field material for both geology and geography.

Geography

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, earth resources; Geog 107, cultural elements. 2 lectures; 1 two-hour laboratory period.

Geog 201, 202, 203. **Regional Economic Geography.** 3 hours each term.

A study of the major types of production and their geographic background.

Geog 215. **Climatology.** 3 hours.

The elements of weather and climate; intensive study and comparison of climates of the earth, based on Köppen, Thornthwaite, and human-use classifications.

Geog 219, 220. **Cartography.** 3 hours each term, fall and winter.

Study and practice of map making and map projection. Use of aerial photographs. Comparative study of different types used in the United States and in other countries.

Geog 221. **Field Geography.** 2 or 3 hours spring.

Intensive study of a limited area near Eugene; elementary map making and studies of economic and human geography. Prerequisite: Geog 219, 220.

UPPER-DIVISION COURSES

Geog 301, 302, 303. **Geography of the Pacific Northwest.** 3 hours each term.

A study of the land forms, climates, population, resources, products, and lines of communication of the Pacific Northwest. Fall: Oregon; winter: northern California, northern Nevada, Idaho, and western Montana; spring: Washington, British Columbia, and Alaska.

- Geog 316. **Geomorphology.** 4 hours.
Systematic study of land forms. Field trips. 1 two-hour laboratory period.
Prerequisite: Geol 101, 102, 103. Dicken.
- Geog 317. **Geomorphology of the United States.** 3 hours.
Continuation of Geog 316. Detailed study of the geomorphology of the United States.
- 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. Ericksen.
- Geog 401. **Research.** Hours to be arranged.
- Geog 405. **Reading and Conference.** Hours to be arranged.
- Geog 406. **Advanced Field Geography.** (G) Hours to be arranged.
Field techniques in geography, applied to special areas and problems. Dicken.
- Geog 407. **Seminar.** Hours to be arranged.
- Geog 425. **Geography of Conservation.** (g) 3 hours.
The geographic distribution of American resources; methods for maintaining the optimum resource use. Dicken.
- Geog 426. **Geography of Europe.** (G) 3 hours.
Some of the special problems of Europe today studied in light of the geographic background of the continent. Prerequisite: Geog 105, 106, 107 or Geog 201, 202, 203. Dicken.
- Geog 427. **Geography of the Soviet Union.** (G) 3 hours.
Regional geography of the Soviet Union; its resources, peoples, and world position. Prerequisite: Geog 105, 106, 107 or Geog 201, 202, 203. Ericksen.
- Geog 428. **Geography of the Pacific.** (G) 3 hours.
Physical geography and natural resources of the Pacific region; social, economic, and political problems related to the geography of the region. Prerequisite: Geog 105, 106, 107 or Geog 201, 202, 203. Ericksen.
- Geog 429. **Geography of North America.** (g) 3 hours.
Regional geography of the continent north of the Rio Grande. Prerequisite: Geog 105, 106, 107 or Geog 201, 202, 203. Stovall.
- Geog 430. **Geography of South America.** (G) 3 hours.
Physical, economic, and human geography of the continent. Prerequisite: Geog 105, 106, 107 or Geog 201, 202, 203. Stovall.
- Geog 431. **Geography of Asia.** (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. Ericksen.
- 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. Ericksen.
- Geog 433. **Geography of Middle America.** (g) 3 hours.
Regional geography of Mexico, Central America, and the islands of the Caribbean. Prerequisite: Geog 105, 106, 107 or Geog 201, 202, 203. Stovall.
- 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 219. Ericksen.

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.

Geology

LOWER-DIVISION COURSES

- Geol 101, 102, 103. **General Geology.** 4 hours each term.
 Processes of nature affecting the surface of the earth; formation of economic geologic deposits; the main events in the history of the earth. 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. Prerequisite: Geol 101, 102, 103. Baldwin.
 Geol 291. **Rocks and Minerals.** 3 hours.
 A study of the common minerals and rocks; origin, lore, and properties of precious, semiprecious, and ornamental stones; economically important rocks and minerals. 2 lectures; 1 three-hour laboratory period.
 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. Baldwin.
 Geol 312, 313, 314. **Mineralogy.** 4 hours each term.
 Methods used in determinative mineralogy; crystallographic studies; occurrence and properties of some of the important minerals; optical mineralogy. 2 lectures; 2 laboratory periods. Prerequisite: Ch 201, 202, 203; Geol 101, 102, 103. Staples.
 Geol 381, 382, 383. **Introduction to Palaeontology.** 3 hours each term.
 Elementary study of representative forms of extinct animals, principally from several phyla of the invertebrates and vertebrates. Prerequisite: Geol 103. Baldwin.
 Geol 391. **Introduction to Field Geology.** 3 hours any term.
 Elementary topographic mapping; use of field instruments; field mapping of selected areas. Bressler.
 Geol 393. **Stratigraphy.** 3 hours.
 Genesis and subsequent history of stratified rocks; sedimentation, induration, weathering; the methods of correlation of such formations. Prerequisite: Geol 101, 102, 103. Baldwin.

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

Geol 406. **Advanced Field Geology.** Hours to be arranged.

Geol 407. **Seminar.** Hours to be arranged.

Geol 411, 412, 413. **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: Geol 312, 313, 314. Staples.

Geol 414, 415, 416. **Petrology and Petrography.** (G) 4 hours each term.

Study of rocks and their alteration products; use of the petrographic microscope. 2 lectures; 2 laboratory periods. Prerequisite: Geol 312, 313, 314; Ph 101, 102, 103 or Ph 201, 202, 203. Bressler.

Geol 421. **Structural Geology.** (g) 3 hours.

Origin, interpretation, and mapping of minor rock structures and of major structures such as faults and folds. 3 lectures. Prerequisite: Geol 101, 102, 103; Ph 101, 102, 103 or Ph 201, 202, 203.

Geol 451, 452. **Pacific Coast Geology.** (G) 3 hours each term.

Advanced study of 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.

GRADUATE COURSES

Courses numbered 400-499 and designated (G) or (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.

Periodical Literature.
Founders of Geology.
Geologic Problems.
Regional Geologic Studies.
Classical Geologic Treatises.

Geol 511, 512, 513. **Advanced Microscopy.** 4 hours each term.

Designed to familiarize the student with microscopic technique in connection with immersion methods, polished sections, heavy mineral residues, and microchemical mineral determination. 2 lectures; 2 laboratory periods. Prerequisite: Geol 314. Staples.

Geol 514, 515, 516. **Advanced Petrology and Petrography.** 3 hours each term.

Systems of rock classification. Studies of suites illustrating special petrographic problems. Prerequisite: Geol 414, 415, 416. Bressler.

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 411, 412, 413. Staples.

Geol 531, 532, 533. **Advanced Palaeontology.** 3 hours each term.

Methods of collecting, preparing, and identifying faunas; emphasis on taxonomy and palaeoecology. Prerequisite: Geol 381, 382, 383. Baldwin.

Department of History

Professors: GORDON WRIGHT (department head), QUIRINUS BREEN,* D. E. CLARK (emeritus), W. H. STEPHENSON, O. M. WILSON.

Associate Professors: P. S. DULL, E. S. POMEROY.†

Assistant Professors: E. R. BINGHAM, R. W. SMITH, L. R. SORENSON, W. A. WILLIAMS.

Instructors: O. S. PINCKNEY, V. F. SNOW.

Associates: MABEL E. McCLAIN (emeritus), LANCASTER POLLARD.

Fellows: M. S. VENKATARAMANI, M. L. WILSON.

Assistants: H. R. ATKINS, H. F. LEE, C. R. MILLER, VIRGINIA E. ORKNEY, GERALD RASMUSSEN.

THE curriculum of the Department of History includes a comprehensive program of elementary and advanced courses in United States, European, English, Oriental, and Latin American history. The department's course offerings are planned to provide not only intensive instruction in special fields for majors in history but also background or foundational studies for students majoring in other departments.

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: History of Western Civilization (Hst 101, 102, 103) and a year sequence (9 hours) in United States history. Historical Method (Hst 420) is recommended for seniors who definitely plan to do graduate work. Students planning to teach history in the secondary schools should consult the School of Education in regard to the requirements for a high-school teacher's certificate and the subject-preparation requirement in social science.

History majors are encouraged to take work in closely allied fields. With the approval of the student's adviser, a maximum of 9 term hours in courses chosen from the following list may be counted toward the satisfaction of the major requirement in history: History of Economic Thought (Ec 470, 471, 472); History of Philosophy (Phl 301, 302, 303); European Political Theory (PS 430, 431, 432); American Political Theory (PS 433); History of Social Thought (Soc 450, 451, 452); Introduction to the History of Art (AA 363, 364, 365); History of Education (Ed 440); History of American Education (Ed 543).

Graduate Degrees. The department offers graduate work toward the master's degrees in several fields. Work toward the degree of Doctor of Philosophy is offered in a limited number of fields. Students who wish to enroll for graduate work with emphasis on a specific field of history should consult the department in advance.

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. Breen, Smith, Snow, Sorenson.

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

For description, see page 99.

* On leave of absence, fall term, 1953-54.

† On leave of absence 1953-54.

- Hst 201, 202, 203. **History of the United States.** 3 hours each term.
From colonial times to the present day. Bingham, Pomeroy, Pinckney, Stephenson, Williams.
- Hst 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 301, 302, 303. **Western Institutions and Ideas.** 3 hours each term.
Intensive study of certain ideas and institutions that have fashioned the course and character of the history of Western civilization. Not open to students who have completed Hst 101, 102, 103 or SSc 107, 108, 109. Sorenson.
- Hst 341, 342, 343. **Europe since 1815.** 3 hours each term.
Political, social, economic, and cultural trends from the fall of Napoleon to the present. Fall: 1815 to 1890; winter: 1890 to 1929; spring: 1929 to the present. Wright.
- 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. Williams.
- Hst 377. **Oregon History.** 2 hours.
Brief survey of the building of civilization in the Oregon Country. 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.
Readings and conferences with members of the faculty. For honors students.
- Hst 411. **History of Greece.** (G) 3 hours fall.
Political and cultural history of ancient Greece. Not offered 1954-55. Breen.
- 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. Not offered 1954-55. Breen.
- Hst 420. **Historical Method.** (G) 3 hours.
Introduction to the method of research and writing in history. Stephenson.
- Hst 421, 422, 423. **Middle Ages.** (G) 3 hours each term.
History of Europe from the decline of the Western Roman Empire to the Age of the Councils. Fall: to 1000 A.D.; winter: to 1200 A.D.; spring: to the Council of Constance. Breen.
- 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 433. **Europe 1600-1789.** (g) 3 hours.
Political, economic, social, and cultural development of the European states from the close of the Reformation to the French Revolution. Snow.

- Hst 437, 438, 439. **Economic History of Modern Europe.** (G) 3 hours each term.
European economic development and its effect upon society from the beginning of the modern era. Fall: the commercialization of economic life, 1500-1750; winter: the beginnings of industrialization, 1750-1850; spring: the spread of industrialism, 1850 to the present. Sorenson.
- Hst 441, 442, 443. **History of France.** (G) 3 hours each term.
Fall: growth of the monarchy; winter: Old Regime, Revolution, and Napoleonic era, nineteenth-century monarchy; spring: 1848 to the present. Some background in European history or in French recommended but not required. Not offered 1954-55. Wright.
- Hst 445. **Europe since 1939.** (g) 3 hours.
Origins and course of World War II; postwar developments in the European states. Wright.
- Hst 446. **Modern Germany.** (g) 3 hours.
The German Empire, the republican experiment 1918-33, the National Socialist regime, World War II and after. Wright.
- Hst 447. **Tsarist Russia.** (g) 3 hours.
Origins of the Russian state; growth of Russian institutions; rise of the revolutionary movement. Wright.
- Hst 448. **Soviet Union.** (g) 3 hours.
The revolution of 1917; Russian domestic and foreign policies from 1917 to the present. Wright.
- Hst 449. **Eastern Europe.** (g) 3 hours.
The Baltic, Danubian, and Balkan states in recent times; political, social, and economic problems; role of the area in international affairs. Not offered 1954-55. Wright.
- 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, in relation to trends of public opinion and political and social action. Prerequisite: 9 hours in United States history or consent of instructor. Bingham.
- Hst 463. **History of Canada.** (g) 3 hours.
History of Canada from colonial times to the present. Smith.
- Hst 464, 465. **British Empire.** (g) 3 hours each term.
History of the British Empire since 1815; evolution of colonial nationalism, development of the commonwealth ideal. First term: Australia, New Zealand, South Africa; second term: India and the crown colonies. 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. Smith.
- 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 470, 471, 472. **American Political Parties and Leaders.** (G) 3 hours each term.
The evolution of American political parties since the Revolution; outstanding political leaders. Stephenson.

- 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. Williams.
- Hst 476, 477. **History of the West.** (G) 3 hours each term.
The American frontier. First term: the early American frontier; second term: the trans-Mississippi West. 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 had Hst 377. Prerequisite: Hst 201, 202 or consent of instructor. Bingham.
- 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.
- Hst 480, 481, 482. **The United States in the Twentieth Century.** (G) 3 hours each term.
Fall: to 1917; winter: 1917-35; spring: since 1935. Pinckney, Pomeroy.
- Hst 483. **American Constitutional History.** (g) 3 hours.
Introduction to the development of the United States Constitution. Pomeroy, Pinckney.
- Hst 486. **Colonial North America.** (G) 3 hours.
Advanced study of the establishment and development of European colonies in North America; emphasis on the English colonies. Williams.
- Hst 487, 488, 489. **American Economic History.** (G) 3 hours each term.
All phases of the economic development of the United States. Sorenson.
- Hst 494, 495, 496. **History of China.** (G) 3 hours each term.
Fall: from legendary times to 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. Dull.
- Hst 497, 498, 499. **History of Japan.** (G) 3 hours each term.
History of Japan, from its beginning to the present. Not offered 1954-55. 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.
European History. Breen, Wright.
English History. Smith.
American History. Pomeroy, Stephenson, Williams.
History of the Pacific Northwest. Bingham.
History of the Far East. Dull.
- Hst 530, 531, 532. **European History: Problems and Interpretation.** 3 hours each term.
Readings, reports, and group discussions of major trends, problems, and interpretations in modern European history. Emphasis on standard works and on controversial viewpoints. Fall: Renaissance and Reformation; winter: the seventeenth and eighteenth centuries; spring: 1789 to the present.

Department of Home Economics

Professor: MABEL A. WOOD (department head).

Assistant Professors: FAITH JOHNSTON, FRANCES VAN VOORHIS, MARGARET J. WIESE, L. MILDRED WILSON.

LOWER-DIVISION and service courses in home economics are offered at the University. By action of the State Board of Higher Education on March 7, 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 the 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. University students wishing to complete the first two years of Curriculum B (professional curriculum) should have their programs carefully planned by the head of the Department of Home Economics.

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 Department of Home Economics occupies the entire third floor of Chapman Hall, erected in 1939. The foods and clothing laboratories 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 artistic clothing. Students must have had 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 garments.

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 dietetic 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 SERVICE COURSES

HEc 325. Child Care and Training. 3 hours any term.

The growth, development, and training of the young child. No prerequisite.

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.

Application of the principles of scientific management to the home; household operations and finances; family and community relationships.

HEc 340. Purchasing Problems of the Home. 3 hours.

Designed to provide the student with information needed as a basis for wise selection of household consumer goods; evaluation of sources of consumer information; the legal protection and responsibility of the consumer.

Department of Mathematics

Professors: A. F. MOURSUND (department head), W. J. DIXON, I. M. NIVEN.

Associate Professors: PAUL CIVIN,* K. S. GHENT, F. J. MASSEY,† F. E. WOOD.

Assistant Professors: S. G. GHURYE, BERTRAM YOOD.

Instructors: MARIE R. MASON, R. L. SAN SOUCIE, E. C. SMITH, JR., L. J. WARREN.

Fellow: E. A. MAIER.

Assistants: R. E. BARLOW, R. S. DE ZUR, R. T. DILLON, JOY S. HELLER, L. C.

HUNTER, GEORGE LERCH, C. T. LONG, K. M. PATWARY, W. L. ROACH, JR.,

K. W. SHIRLEY, K. R. STROMBERG, PEARL VAN NATTA.

MATHEMATICS 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 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), plane geometry, and, if possible, trigonometry and solid geometry.

Majors usually begin their University work in mathematics with College Algebra (Mth 105), Plane Trigonometry (Mth 106), and Analytic Geometry (Mth 107). If they are not prepared for this sequence, they must make up their deficiencies with one or more of the following courses: Elements of Algebra (Mth 10), Intermediate Algebra (Mth 100), Elements of Plane and Solid Geometry (Mth 20, 21, 22). Majors may elect to begin with Essentials of Mathematics (Mth 101, 102, 103); such students must, however, take Analytic Trigonometry and Geometry (Mth 200) before entering the standard second-year sequence, 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 requirements: Mth 100, 105, 106; Mth 100, 105, 108; Mth 101, 102, 103; Mth 101, 102, 108; Mth 105,

* On sabbatical leave 1953-54.

† On leave of absence 1953-54.

106, 107; Mth 105, 106, 108; Mth 200, 201, 202; Mth 201, 202, 203. Majors in business administration should choose a sequence which includes Mth 108.

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. Students who enter with at least one year of high-school algebra and who do not plan to take more than one year of college mathematics, apart from statistics, should find Mth 101, 102, 103 suitable for their needs. 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) and at least 24 hours in upper-division mathematics courses. General Physics (Ph 201, 202, 203) is strongly recommended as an elective.

The following courses are also recommended as electives: upper-division physics courses; General Chemistry (Ch 201, 202, 203); Principles of Economics (Ec 201, 202, 203); Compilation of Economic Data (Ec 483); Logic (Phl 461, 462, 463); Philosophy of Science (Phl 471, 472, 473); Constructive Accounting (BA 111, 112, 113).

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 two terms of Differential and Integral Calculus (Mth 201, 202), Advanced Euclidean Geometry (Mth 415), and either Advanced College Algebra (Mth 314) or Higher Algebra (Mth 412). It is also recommended that, to supplement the courses listed above, the student's program include 12 additional term hours in courses selected from: Mth 108, Mth 203, and upper-division mathematics courses. Special upper-division courses in algebra, geometry, and the foundations of mathematics, offered during summer sessions, are acceptable substitutes for the upper-division mathematics courses listed above (see page 145).

Graduate Degrees. The Department of Mathematics offers graduate work leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Candidates for a master's degree with a major in mathematics should plan to take a year sequence in the 511-599 group, in addition to the research and seminar work required by the Graduate School.

Candidates for the Ph.D. degree are accepted in the fields of algebra and number theory, analysis, and mathematical statistics. Students interested in work toward the doctor's degree should consult the head of the department concerning departmental requirements.

Statistics. A major option in statistical theory has been arranged for students wishing to specialize in this field. Students interested in this work should consult Dr. W. J. Dixon, professor of mathematics.

At the University of Oregon all basic courses in statistical theory are offered by the Department of Mathematics. The following courses in applied statistics are offered by the Department of Economics, the Department of Psychology, the School of Business Administration, and the School of Education: Mathematical Economics (Ec 480, 481); Compilation of Economic Data (Ec 483), Correlation Analysis of Economic Data (Ec 484), Research and Survey Methods in Economics (Ec 485); Psychometrics (Psy 443, 444, 445); Advanced Business Statistics (BA 433); Educational Statistics (Ed 515, 516, 517). Mth 425, 426 or equivalent is a prerequisite for all of these courses except Ed 515, 516, 517. A major option

in applied statistics, with special emphasis on application to economic and business problem, is offered by the Department of Economics (see page 111).

Through the cooperation of the several schools and department offering work in statistics, 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.

Computational Service. The Department of Mathematics provides a computational 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. 3 hours.

For students entering with less than one year of elementary algebra. Open to others only on recommendation of the department. May not be taken for credit after completion of other courses in college mathematics. 4 recitations.

Mth 20, 21, 22. Elements of Plane and Solid Geometry. 2 hours each term.

For students entering with less than one year of high-school geometry. Students having credit for plane geometry but not for solid geometry enter the third term.

Mth 100. Intermediate Algebra. 4 hours.

Prerequisite: one year of high-school algebra.

Mth 101, 102, 103. Essentials of Mathematics. 4 hours each term.

Fundamental concepts of algebra, mathematics of finance, trigonometry, analytic geometry, calculus, and statistics. Intended primarily for students majoring in the humanities, the biological sciences, or the social sciences. Prerequisite: one year of high-school algebra.

Mth 105. College Algebra. 4 hours.

Prerequisite: one and one-half years of high-school algebra or Mth 100.

Mth 106. Plane Trigonometry. 4 hours.

Prerequisite: Mth 105.

Mth 107. Analytic Geometry. 4 hours.

Prerequisite: Mth 106.

Mth 108. Mathematics of Finance. 4 hours.

Simple and compound interest and discount, annuities, periodic-payment plans, bonds, depreciation, and other topics related to business. Prerequisite: Mth 101, 102 or Mth 105.

Mth 200. Analytic Trigonometry and Geometry. 4 hours.

Intended to bridge the gap between Mth 101, 102, 103 and Mth 201, 202, 203. Prerequisite: Mth 101, 102, 103 or consent of department.

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 or Mth 200.

UPPER-DIVISION COURSES

Mth 301, 302, 303. Statistics. 3 hours each term.

An introduction to statistics, emphasizing scientific method and statistical reasoning, with applications in many fields to illustrate the theory. Prerequisite: Mth 100 or equivalent. Dixon, Massey.

Mth 313. **Calculus.** 4 hours.

Applications of differential and integral calculus. Prerequisite: Mth 201, 202 and junior standing. Ghent, Wood.

Mth 314. **Advanced College Algebra.** 3 hours.

An extension of the work in algebra given in freshman mathematics. Prerequisite: one year of college mathematics. Ghent, Niven.

Mth 316. **Solid Analytic Geometry.** 3 hours.

An analytic treatment of curves and surfaces in three-dimensional space. Prerequisite: calculus or Mth 314. Ghent, Wood.

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

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

Mth 411. **Number Theory.** (G) 3 hours.

Congruences, Diophantine equations, quadratic residues, the Fermet-Euler theorem. Prerequisite: calculus or Mth 314. Ghent, Niven.

Mth 412, 413, 414. **Higher Algebra.** (g) 3 hours each term.

Basic concepts of algebra, theory of equations, matrices, linear transformations, quadratic forms. Prerequisite: calculus or consent of instructor. Ghent, San Soucie.

Mth 415. **Advanced Euclidean Geometry.** (g) 3 hours.

Modern developments in geometry based on the plane geometry of Euclid, dealing with the geometry of triangles and circles. Prerequisite: calculus or consent of instructor. Moursund, Wood.

Mth 416, 417. **Projective Geometry.** (G) 3 hours each term.

Elements of synthetic and analytical projective geometry. Prerequisite: calculus. Ghent, Wood.

Mth 421, 422, 423. **Introduction to Applied Mathematics.** (g) 3 hours each term.

Fundamental concepts of differential equations, Fourier series, vector analysis, complex variables, probability, and numerical analysis, with applications. Prerequisite: calculus. Niven.

Mth 425, 426, 427. **Elements of Statistical Methods.** (g) 3 hours each term.

A basic course in statistical analysis. 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. Students who have received credit for Mth 301, 302, 303 may not receive credit for Mth 425. Dixon, Massey.

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 447, 448, 449. **Mathematical Statistics.** (G) 3 hours each term.

Development of distribution theory from the theory of probability. Derivation of sampling distributions. Introduction to theory of statistical estimation and inference. Prerequisite: calculus; Mth 425, 426. Dixon, Massey.

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

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

- Mth 507. **Seminar.** Hours to be arranged.
Algebra and Number Theory. Niven.
Applied Mathematics. Niven, Yood.
Geometry. Ghent, Wood.
Fourier Analysis. Civin.
Probability and Statistics. Dixon, Massey.
Topology. Civin.
- Mth 533, 534, 535. **Fourier Series.** 3 hours each term.
Elements of the theory of convergence and summability of Fourier series.
Moursund.
- Mth 541, 542, 543. **Abstract Algebra.** 3 hours each term.
Group theory, fields, Galois theory, algebraic numbers, matrices, rings, ideals.
Ghent, Niven.
- Mth 551, 552, 553. **Theory of Functions.** 3 hours each term.
An introduction to the classical analysis of the real and complex systems;
differentiation, Riemann and Lebesgue integration, analytic function theory.
Moursund.
- 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. Civin, Yood.
- Mth 571, 572, 573. **Topology.** 3 hours each term.
Topological spaces, metrizability, continuous transformations, mapping the-
orems, cyclic element theory, Jordan curve theorem, semicontinuous collec-
tions. Civin.
- Mth 581, 582, 583. **Theory of Estimation and Testing Hypotheses.** 3 hours
each term.
General theory of estimation and of testing hypotheses; mathematical theory
of design of experiments; theory and application of sequential analysis.
Massey.
- Mth 591, 592, 593. **Advanced Mathematical Statistics.** 3 hours each term.
Distribution and sampling theory; estimation; tests of hypotheses; regres-
sion; analysis of variance; combinatorial theory; multivariate analysis. Dix-
on, Massey.

COURSES OFFERED ONLY IN SUMMER SESSIONS

- Mth 579. **Algebra.** 3 hours.
- Mth 489. **Geometry.** (g) 3 hours.
- Mth 499. **Foundations of Mathematics.** (g) 3 hours.
- Mth 579. **Algebra.** 3 hours.
- Mth 589. **Geometry.** 3 hours.
- Mth 599. **Foundations of Mathematics.** 3 hours.

Department of Nursing Education

Professor: HENRIETTA DOLTZ (director of department).

Associate Professor: OLIVE A. SLOCUM.

THE University offers on the campus in Eugene: (1) a prenursing curricu-
lum in preparation for professional work in basic nursing at the University of
Oregon Medical School in Portland; and (2) work in liberal arts and sci-
ences required as a part of the Medical School's degree curricula for graduate
nurses.

For the prenursing curriculum, see pages 96-97. For a detailed description of the basic nursing program and of programs for graduate nurses, see the special Catalog of the Department of Nursing Education.

LOWER-DIVISION COURSES

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. Slocum.

Nur 230. **Home Nursing.** 2 hours.

Not offered 1954-55.

UPPER-DIVISION COURSES

Nur 311, 312, 313. **Modern Nursing Problems.** 1 or 2 hours each term.

Aims and problems of nursing at home and abroad. Open only to registered nurses. Slocum.

Department of Philosophy

Professor: ALBUREY CASTELL (department head).

Associate Professors: B. E. JESSUP,* CATHERINE RAU.

Instructors: FERRIS DETHLEFS, R. J. RICHMAN.

Assistants: E. B. BARRETT,† C. C. NELSON, W. E. TINSLEY.

THE LOWER-DIVISION courses in philosophy provide introductory surveys. The upper-division courses provide a more intensive study of selected philosophical problems. The department offers a major program leading to the Bachelor of Arts degree. Elementary Logic (Phl 201) and History of Philosophy (Phl 301, 302, 303) are required of all majors.

The department also offers a graduate program leading to the Master of Arts degree.

Students may satisfy the social-science group requirement with any three of the four courses, Phl 201, Phl 202, Phl 203, Phl 204; these courses may be taken in any order.

LOWER-DIVISION COURSES

Phl 201. **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 202. **Problems of Philosophy.** 3 hours.

An introduction to the study of some of the persistent problems of philosophy.

Phl 203. **Elementary Ethics.** 3 hours.

An introduction to the philosophical study of morality, e.g., right and wrong, free and determinism, morals and society, etc.

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.

UPPER-DIVISION COURSES

Phl 301, 302, 303. **History of Philosophy.** 3 hours each term.

Survey of European philosophy from Socrates to the present. Castell.

* On sabbatical leave 1953-54.

† Resigned Nov. 30, 1953.

- Phl 304, 305, 306. **Social Philosophy.** 3 hours each term.
A review of social philosophy from the close of the eighteenth century to the present—from Rousseau, Burke, and Paine to Lenin and other recent writers. Castell.
- Phl 322. **Philosophy of Mind.** 2 hours.
Analysis of basic concepts of psychology, such as “mind,” “unconscious desire,” etc.; discussion of theories of mind, the mind-body problem, and methodological issues in psychology. Planned especially for psychology majors. Castell.
- Phl 323. **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 331, 332, 333. **Contemporary Philosophy.** 2 hours each term.
Some common phases of recent philosophical theory. No prerequisites, but not open to lower-division students. Jessup.
- Phl 405. **Reading and Conference.** Hours to be arranged.
For students who have had previous work in philosophy.
- Phl 407. **Undergraduate Seminar.** Hours to be arranged.
- Phl 421, 422. **Philosophy in America.** (g) 3 hours each term.
Survey from colonial times to the present. Puritanism, deism, transcendentalism, idealism, and realism.
- Phl 431, 432, 433. **Philosophy and Literature.** (G) 2 hours each term.
Selective study of major philosophical ideas and attitudes expressed in the literature of Europe and America. Jessup.
- Phl 441, 422, 423. **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.
- Phl 451, 452, 453. **Development of Scientific Thought.** (g) 2 hours each term.
Analysis of selected writings of some great scientists, such as Galileo and Newton, with emphasis on scientific method. In the spring term, introduction to the ideas of relativity theory. Prerequisite: at least one year of college science or mathematics.
- Phl 461, 462, 463. **Logic.** (G) 2 hours each term.
Elements of modern symbolic logic. Fall and winter: formal methods of determining logical validity and consistency. Spring: probability and induction. Richman.
- Phl 471, 472, 473. **Philosophy of Science.** (G) 3 hours each term.
Analysis of basic concepts of science, such as “explanation,” “chance,” “causation,” etc. Nature of mathematics and its relation to empirical science. In the spring term philosophy of psychology and social science. Richman.

GRADUATE COURSES

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

- Phl 503. **Thesis.** Hours to be arranged.
- Phl 505. **Reading and Conference.** Hours to be arranged.
- Phl 507. **Seminar.** Hours to be arranged.
Philosophy of Education. Castell.
Philosophy of Mind. Castell.

Department of Physics

Professors: R. T. ELLICKSON (department head), A. E. CASWELL (emeritus).

Associate Professors: S. Y. CH'EN, E. G. EBBIGHAUSEN.

Assistant Professors: BERND CRASEMANN, F. E. DART, P. A. GOLDBERG, G. D. HOYT.

Fellows: P. G. ALINE, IVAR LINDSTROM, J. T. NELSON, W. J. PARKER.*

Assistants: L. J. APLET, R. B. BENNETT, OLEG JEFIMENKO, W. J. LUHMAN, D. L. MANLEY, HERBERT MATHEWS, I. C. NELSON, D. E. REHFUSS, JEREMY TAYLOR, C. P. S. WILLIAMS.

CCOURSES 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 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); College Algebra (Mth 105), Plane Trigonometry (Mth 106), Analytic Geometry (Mth 107).

Sophomore Year. Analytical Mechanics (Ph 311, 312, 313); Differential and Integral Calculus (Mth 201, 202, 203); General Chemistry (Ch 201, 202, 203).

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 Chemical Physics (Ph 451, 452, 453); Introduction to Theoretical Physics (Ph 471, 472, 473); Applied Mathematics (Mth 421, 422, 423); Physical Chemistry (Ch 441, 442, 443).

Students planning to teach in the secondary schools must take General Psychology and 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; a year sequence in advanced chemistry; 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 electronics, 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. Hoyt.

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.

* Resigned Nov. 20, 1953.

- 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. **Rudiments of Photography.** 2 hours.
Intended for students interested in photography as an avocation. 1 lecture; 1 three-hour laboratory period. No prerequisite. Goldberg.
- Ph 201, 202, 203. **General Physics.** 4 or 5 hours each term.
Standard first-year college physics. 3 or 4 lectures and recitations; 1 three-hour laboratory period. Prerequisite: mathematics equivalent of Mth 105, 106 or consent of instructor. Ellickson.

UPPER-DIVISION COURSES

Unless an exception is noted in the course description, general physics and calculus are prerequisite to all advanced and graduate courses.

- Ph 311, 312, 313. **Analytical Mechanics.** 3 hours each term.
Statics, dynamics of a particle, dynamics of rigid bodies. 3 lectures. Hoyt.
- 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 411, 412, 413. **Modern Physics.** (G) 3 hours each term.
Atomic and molecular physics; introduction to nuclear physics; physics of solids. 3 lectures. Prerequisite: Ph 201, 202, 203; must be preceded by or accompanied by calculus. Ebbighausen.
- 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; elementary electric particles. 3 lectures; 1 three-hour laboratory period. Goldberg.
- 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 by 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 Chemical Physics.** (G) 3 hours each term.
Thermodynamics, statistical mechanics, kinetic theory; applications to gases, liquids, solids, atoms, molecules, and the structure of matter. Hoyt.
- Ph 461, 462, 463. **Introduction to Biophysics.** (G) 3 hours each term.
Physical methods and techniques used in biological and biochemical research; physical principles applicable to the study of living organisms; the interaction of living organisms with radiation and with ionizing particles. 2 lectures; 1 three-hour laboratory period. Prerequisite: elementary courses in physics and physiology or consent of instructor. Dart.

- 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. Ellickson.

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 Structures.
- Ph 511, 512, 513. **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 516, 517, 518. **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. 1 or 2 three-hour laboratory periods.
- Ph 521, 522, 523. **Theory of Electricity and Magnetism.** 3 hours each term.
Electrostatics, magnetostatics; dia-, para-, and ferromagnetism; electromagnetic fields; electromagnetic induction; Maxwell's equations; propagation of waves; diffraction; dispersion; electro- and magneto-optics. 3 lectures. Goldberg.
- Ph 531, 532, 533. **Quantum Mechanics.** 3 hours each term.
Mathematical theories of the structures of molecules, atoms, and atomic nuclei, and their interactions with one another and with radiation. Quantum laws of radiation and relativistic quantum mechanics. 3 lectures. Crasemann.
- Ph 541, 542, 543. **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 551, 552, 553. **Atomic and Molecular 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 photographic photometry. 1 three-hour laboratory period. Ch'en.

Department of Political Science

Professors: E. S. WENGERT (department head), J. D. BARNETT (emeritus), E. L. JOHNSON, C. P. SCHLEICHER, WALDO SCHUMACHER.

Associate Professors: P. S. DULL, HERMAN KEHRLI.

Assistant Professors: H. E. DEAN, MORTON KROLL, I. G. NAGY, V. A. OSTROM, L. G. SELIGMAN.

Lecturer: D. M. DUSHANE.

Fellow: J. C. BROWN.

Assistants: P. O. FOSS, J. W. HAKANSON, R. W. MAFFIN, MARTIN MEADOWS.

FOR citizens, for prospective public servants, and for future teachers and research workers, the Department of Political Science offers opportunities for the study of government and its problems—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 an optional third term devoted to state and local government (PS 203), European governments (PS 204), or international relations (PS 205). Majors in political science are ordinarily required to complete PS 201, 202 and one of the third-term options.

The upper-division courses offered by the department fall within the following fields: (1) American government and public law (PS 314, 315, 316, PS 482, PS 483, PS 484, 485); (2) political parties and public opinion (PS 414, PS 415); (3) public administration (PS 411, 412, PS 413); (4) foreign and comparative governments (PS 325, PS 326, 327, PS 328, PS 329, PS 330, 331, 332); (5) international relations (PS 320, 321, PS 322, PS 391, 392, 393, PS 419, 420, PS 421); and (6) political theory (PS 430, 431, 432, PS 433, PS 490). Majors in political science are required to take courses in at least three of these fields and, in addition, a senior seminar (PS 407). Majors are also advised to elect related courses in other social science fields.

Graduate Work. The department offers graduate work leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees with a major in political science.

Candidates for the master's degree are expected to have had a substantial undergraduate preparation in political science and in the other social sciences. Graduate work in at least two of the department's fields is required; this requirement is usually satisfied through advanced courses or seminars. A seminar in research methods is ordinarily required.

Special programs leading to the master's degree have been organized in international relations and in public administration. Students in these programs may include, as a part of their major work, pertinent courses and seminars offered by other departments. Dr. Charles P. Schleicher serves as adviser for the program in international relations, Dr. Egbert S. Wengert as adviser for the program in public administration. Students interested in either of these programs should consult the adviser before registration.

Study leading to the doctor's degree in political science is offered as a part of a special University program for students wishing to prepare for college teaching in the social sciences. Work leading to the doctorate is offered in American government and public law, political parties and public opinion, public administration, international relations, and political theory. Candidates are ordinarily required to take comprehensive examinations in political theory and in two other fields.

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. Schleicher, Schumacher, Wengert, Dean, Seligman.
- PS 204. **European Governments.** 3 hours winter or spring.
A survey of the constitutions and governmental operations of selected democratic and nondemocratic governments in Europe, including the governments of Britain, France, and the Soviet Union.
- PS 205. **International Relations.** 3 hours fall or spring.
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. Schleicher, Nagy.

UPPER-DIVISION COURSES

- PS 314, 315, 316. **Problems of State and Local Government.** 3 hours each term.
A study of the major problems in the organization and function of state, county, city, and other local governments, with special attention to Oregon. Ostrom.
- 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. Nagy.
- 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 325. **British Government.** 3 hours fall.
Organization and operation of the national government, with special attention to the relations between Parliament and the executive; local government in England. Kroll.
- PS 326, 327. **Governments of Continental Europe.** 3 hours each term, winter and spring.
A study of the governments of Europe, with special attention to France, Italy, Germany, and Russia. Kroll.
- PS 328. **Governments in the British Commonwealth.** 3 hours.
Special attention to the governments of Canada and Australia.
- PS 329. **Governments of Latin America.** 3 hours.
Study of governmental systems and practices of the major states of Central and South America. Kroll.
- 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. Dull.
- PS 403. **Thesis.** Hours to be arranged.
- PS 405. **Reading and Conference.** Hours to be arranged.

- PS 407. **Seminar.** Hours to be arranged.
Open only to seniors.
- PS 411, 412. **Introduction to Public Administration.** (G) 3 hours each term, fall and winter.
Study of the organization and activities of government in carrying out public policy, with special reference to the Federal government and to the government of Oregon. Wengert.
- PS 413. **City Administration.** (G) 3 hours spring.
A study of the operation of city government, including planning, improvements, public health and safety, public utilities, and finance. Prerequisite: PS 411, 412. Kehrl.
- PS 414. **Political Parties and Election Problems.** (G) 4 hours fall.
The nature, organization, and operation of political parties; election and recall of officers; proportional representation; initiative and referendum; civil-service reform. Schumacher.
- PS 415. **Public Opinion.** (G) 4 hours winter.
Study of the methods of formation and control of public opinion. Schumacher.
- PS 416. **Urban Politics.** (G) 3 hours spring.
The consequences for politics and administration of urbanism, with particular reference to cities of the West and the Pacific Northwest. Urban social trends and urban living treated as factors basic to an understanding of public opinion, policy formation, the structure of political influence, and important policy issues in the urban community. Seligman.
- PS 419, 420. **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. Schleicher.
- PS 421. **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. Nagy.
- PS 422. **National Power and Strategy.** 4 hours winter.
International politics and factors contributing to national power; power position of individual states and blocs of states, with reference to military, economic, social, geographic, and psychological factors and effectiveness of political institutions. Required of all second-year advanced Air Force R.O.T.C. students; open to other upper-division students. Schleicher.
- PS 430, 431, 432. **European Political Theory.** (G) 3 hours each term.
Study of the leading ideas of major political theorists. Fall: from Plato to the Renaissance; winter: from the Renaissance to the French Revolution; spring: from the French Revolution to the present. Dean.
- PS 433. **American Political Theory.** (G) 3 hours fall or spring.
The development of American political theories from early colonial days to the present. Dean.
- 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. Schumacher.
- PS 483. **The Executives in American Government.** (G) 3 hours spring.
Study of the executive branch in American government, with particular emphasis on the part played by the executive, and agencies attached to it, in legislative and judicial matters. Wengert.

PS 484, 485. **The Supreme Court in American Government.** (G) 3 hours each term, winter and spring.

The part of the Supreme Court in shaping American public policy; study of leading cases and other materials. Wengert.

PS 490. **Principles of Political Science.** (G) 3 hours spring.

A comprehensive course dealing with the principles underlying all aspects of the study of politics and administration. Designed to assist advanced political-science majors to integrate and evaluate the facts and principles presented in their previous studies in the field.

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.

COURSES OFFERED ONLY IN EXTENSION

PS 340, 341, 342. **Issues and Evaluation of American Foreign Policy.** 3 hours each term.

PS 440. **Competing Ideologies in the World Today.** (G) 3 hours.

PS 441. **Area Tensions in the World Today.** (G) 3 hours.

Department of Psychology

Professors: R. W. LEEPER (department head), H. R. TAYLOR.

Associate Professors: J. V. BERREMAN, H. R. CROSLAND, R. A. LITTMAN, LEONA TYLER.

Assistant Professors: J. S. CARLSON, J. A. PIERCE-JONES, S. R. PINNEAU, N. D. SUNDBERG, J. M. WARREN.

Fellow: IDELLA M. EVANS.

Assistants: B. O. BOYD, W. D. BACHELIS, ALAN BARON, MARY F. CALLANTINE, F. M. GOODE, J. B. MACQUEEN, L. W. RANTON, MADAN SINHA, J. W. WITZIG.

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, journalism, etc.

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 experience 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—the only exception is that General Sociology (Soc 204, 205) may serve as the prerequisite for Social Psychology (Psy

334, 335). 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 of work in the field, including at least 24 upper-division hours. Six term hours of work 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). 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.

Students should not undertake graduate work unless their grades in undergraduate psychology courses 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 Research Methods in Psychology (Psy 315, 316, 317) and statistics, the latter preferably in the senior 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 in French and German.

Graduate Work. The department offers graduate work leading to the degrees of Master of Arts, Master of Science, and Doctor of Philosophy. In the graduate program, the areas of study emphasized are general-experimental (including animal psychology), counseling, clinical psychology, personality, and social psychology (especially for students qualified for related work in anthropology). 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. Data from one of these tests (preferably the Miller Test) 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.

Combination programs with speech correction, special education, or anthropology may be arranged.

LOWER-DIVISION COURSES

Psy 201, 202. General Psychology. 3 hours each term.

Introductory study of behavior and conscious processes. Survey of experimental studies with reference to motivation, learning, thinking, perceiving, and individual differences. Crosland, Pinneau, Sundberg, Taylor, Warren.

- Psy 204. **Psychology of Adjustment.** 3 hours.
The nature and origins of differences in personality; means of making desired changes. Leeper, Pinneau.
- Psy 205. **Applied Psychology.** 3 hours.
A survey of the ways in which psychology is applied in advertising, salesmanship, market research, measurement of opinion, occupational placement, development of personal efficiency. Prerequisite: Psy 201, 202. Crosland, Taylor, Warren.
- 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. Warren.

UPPER-DIVISION COURSES

- Psy 315, 316, 317. **Research Methods in Psychology.** 3 hours each term.
Introduction to experimental and other research procedures, through investigations of basic psychological processes of perception, learning, motivation, and social behavior, with human and animal subjects. Training in the use of standard apparatus and in methods of measurement. Principles of experimental design. Individual projects in the third term. 2 lectures; 1 three-hour laboratory period. Littman.
- 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. Particular attention to origin, function, ideologies, membership, and leadership. Prerequisite: Psy 201, 202 or Soc 204, 205. Berreman, Littman.
- Psy 341, 342. **Individual Differences.** 2 hours each term, fall and winter.
Importance and extent of individual differences in various human traits; origin, measurements, and practical significance. Pierce-Jones, Tyler.
- Psy 351, 352. **Individual-Differences Laboratory.** 1 hour each term.
Collection and statistical analysis of data illustrating the more-important types of comparison between individuals; the inferences which can be drawn from these data. 3 hours laboratory. Pierce-Jones, Tyler.
- Psy 401. **Research.** Hours to be arranged.
Open only to students eligible to work for honors.
- 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 421, 422, 423. **Clinical Methods in Psychology.** (G) 2 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. Pinneau, Sundberg.
- Psy 424, 425, 426. **Mental-Testing Laboratory.** (G) 2 hours each term.
Supervised practice in the administration and scoring of individual and group intelligence tests and various tests of achievement, special aptitude, and personality. 2 two-hour laboratory periods. Prerequisite: Psy 421, 422, 423.
- 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, 423 or equivalent. Pierce-Jones, Tyler.

- 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. Pinneau.
- Psy 437. Projective Techniques.** (G) 3 hours.
History and theory of projective methods in the analysis of personality structure. Emphasis on the administration and interpretation of Rorschach and thematic apperception tests. Sundberg.
- Psy 438. Projective-Testing Laboratory.** (G) 2 hours.
Clinical practice in administering and interpreting selected projective tests, especially Rorschach and thematic apperception tests. 2 two-hour laboratory periods. Sundberg.
- Psy 443, 444, 445. Psychometrics.** (G) 3 hours each term.
Selection and construction of test items; methods of item analysis; use of multiple regression in the construction of test batteries; problems of weighting; the use of norms and systems of derived scores; factor analysis in the construction of tests and attitude scales. Instruction primarily through projects. 2 lectures; 2 two-hour laboratory periods. Prerequisite: Mth 425, 426 or equivalent. Tyler.
- Psy 447, 448, 449. Industrial Psychology.** (G) 2 hours each term.
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: Psy 341, 342; or Mth 425, 426; or equivalent. Taylor.
- Psy 450. Abnormal Psychology.** (g) 3 hours fall or spring.
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. Pinneau.
- Psy 451, 452. Physiological Psychology.** (G) 3 hours each term.
First term: physiological processes related to behavioral adjustments; basic mechanisms of neuroanatomy, sensitivity, response, and coordination. Second term: neurological and endocrine factors in emotion, bodily needs, and drives; instinctive behavior and homeostatic regulation of activities; electrical analogies for the brain. 2 lectures; 1 two-hour laboratory period. Warren.
- Psy 458. Nature of Intelligence.** (G) 2 hours winter.
History and theory of intelligence testing. Individual and group testing. What such tests measure. Evaluation of the concept of "general intelligence." Prerequisite: Psy 341, 342 or Mth 425. Taylor.
- Psy 459. Theories of Mental Organization.** (G) 2 hours spring.
Methods of classifying traits. Experimental studies of "primary" abilities. Vocational significance of trait analysis. Testing proficiency and aptitudes. Prerequisite: Psy 341, 342 or Mth 425, 426. Taylor.
- Psy 460. Psychology of Infancy and Childhood.** (g) 3 hours fall or spring.
Growth of behavior during the prenatal period, infancy, and childhood. Development of muscular activities, perception, emotional adjustment, intelligence, language, and social behavior in childhood. Pierce-Jones, Pinneau.
- Psy 461. Psychology of Adolescence.** (g) 3 hours fall or winter.
Study of the behavior changes during pre-adolescence and adolescence as related to physiological development and social and cultural factors. Emphasis on personal and social adjustment. Intended to follow Psy 460. Pierce-Jones, Pinneau.
- Psy 462. Maturity and Old Age.** (g) 3 hours.
The changes which older people experience both before and after leaving the

labor force. Attention to family and community organization to meet the needs of older persons. Prerequisite: 9 hours of sociology or psychology.

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. Leeper.

Psy 467, 468, 469. **Learning.** (G) 2 hours each term.

A critical study of the psychology of learning; experimental work and related theoretical formulations on conditioning, concept formation, trial-and-error learning, problem solving, and development of skills. Leeper.

Psy 470, 471. **Comparative Psychology.** (G) 2 hours each term, fall and winter.

The contribution of research on animal behavior to basic experimental and theoretical problems of psychology, such as maturation, inheritance of abilities, learning, and nervous mechanisms of behavior. Warren.

Psy 473, 474, 475. **History of Psychology.** (G) 2 hours each term.

Contemporary psychological concepts traced back to their origins; the influence of chronological and biographical factors stressed in connection with each topic. Crosland.

Psy 481. **Psychology of Pain.** (G) 3 hours.

The sense organs and neural connections involved in pain sensitivity; physiological and psychological components of the conscious experience of pain; relationships to the psychology of perception, emotion, illusions, hallucinations, and other abnormal phenomena. Crosland.

Psy 491. **Psychology of Testimony.** (G) 3 hours fall.

Psychological analysis of the reliability of testimony and proof of guilt. Prerequisite: junior standing. Crosland.

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.

Proseminar. Staff.

Teaching of Psychology. Littman, Warren.

Abnormal Psychology. Sundberg.

Personality and Culture. Littman, Stern.

Experimental Design. Tyler, Pierce-Jones.

Therapy and Social Structure. Sundberg, Bisno.

Developmental Psychology. Pinneau.

Personality Theory. Leeper.

Psy 511. **Psychology of Attention and Perception.** 2 hours fall.

Phenomena of attention, perception, and apperception considered from various points of view, with demonstrations and consideration of experimental literature. Training in special techniques of research if desired. Crosland.

Psy 512. **Psychology of Memory and the Image.** 2 hours winter.

Various phases of representative processes in mental organization. Eidetic imagery, dissociation, assimilation, organization, generalization of memory contents, etc. Practice in methodology if desired. Crosland.

Psy 518. **Association.** 2 hours spring.

Association psychology, presented from the point of view of practical psychology, of the general psychological significance of the concept, or of its

history—determined by student interest. Research experience if desired. Crosland.

Psy 521, 522, 523. **Systematic Psychology.** 2 hours each term.

Contemporary systems: Gestalt psychology, purposive behaviorism, topological psychology, psychoanalysis, etc. Aims of psychology, nature of explanation, and functions of abstractions in psychology. Littman.

Psy 535. **Practical Clinical Experience.** 3 hours.

Opportunity for work in selected agencies providing diagnostic and counseling services on the University campus and in Portland. Considerable time devoted to providing familiarity with the routine clerical, statistical, and testing activities of the agency, followed by supervised case work, with practice in interviewing and counseling. Enrollment restricted to a limited number of especially qualified students, selected by the department. Prerequisite: Psy 421, 422, 423, Psy 424, and Psy 435 or Psy 437; consent of instructor.

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. Crosland.

Department of Religion

Professor: P. B. MEANS (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 of Oregon.

Through these courses, the University seeks to develop an appreciation of the nature and processes of religious thought and experience, and to relate these facts to the life and 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 religious problems and to methods of studying these problems. Religion in different cultures. Consideration of some of the common questions men have asked about God, the soul, immortality, good and evil, the religious fellowship and society, the nature and destiny of man. Criteria for evaluating religion.

R 201, 202, 203. **Great Religions of the World.** 3 hours each term.

Study of Hinduism, Buddhism, Confucianism, Islam, Judaism, and Christianity. Special attention to origins, organization, and philosophy.

R 211, 212, 213. **The Bible and Civilization.** 3 hours each term.

A survey of the literature of the Old Testament and the New Testament to discover its significance for civilization. How the Bible came into being, how its influence was preserved and extended.

UPPER-DIVISION COURSES

R 301, 302, 303. **Religions of Mankind.** 3 hours each 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.

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.

A study of the psychology 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 religious factor in culture and civilization.

Department of Sociology

Professors: ROBERT DUBIN (department head),* J. V. BERREMAN (acting department head).

Associate Professors: J. M. FOSKETT, R. A. LITTMAN, W. T. MARTIN.

Assistant Professors: HERBERT BISNO, WILL DRUM, V. S. LEWIS.†

Instructors: T. B. JOHANNIS, P. K. ROWAN.

Fellows: M. L. CADWALLADER, J. P. GIBBS.

Assistants: S. K. MEHTA, ANN C. NELSON, GLADYS J. PUTNEY, SNELL PUTNEY.

LOWER-DIVISION, upper-division, and graduate courses in sociology are offered at the University. It is a major aim of the work in sociology to give the student an understanding of the principles that govern human associations and relationships.

The undergraduate major program of the department leads to the Bachelor of Arts or Bachelor of Science degree. Introduction to Social Research (Soc 327, 328) is required of all majors—Elements of Statistical Methods (Mth 425) may, however, be substituted for Soc 328.

Candidates for the B.S. degree are required to take either Elements of Statistical Method (Mth 425, 426) or a 9-hour upper-division sequence chosen, normally, from the fields of anthropology, economics, political science, or psychology. The following sequences are recommended: Cultural Dynamics (Anth 450, 451, 452); Labor Economics (Ec 325), Organized Labor (Ec 326), Labor Legislation (Ec 327); European Political Theory (PS 430, 431, 432); Psychology of Infancy and Childhood (Psy 460), Psychology of Adolescence (Psy 461), Abnormal Psychology (Psy 450).

Students planning to major in sociology are advised to take courses, during their freshman and sophomore years, in some of the following fields: anthropology, economics, geography, history, philosophy, political science, psychology. For students interested in preprofessional training in social work, General Biology (Bi 101, 102, 103) is recommended as a lower-division elective.

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.

* Appointment effective Sept. 1, 1954.

† On leave of absence 1953-54.

UPPER-DIVISION COURSES

- Soc 301. **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.
- Soc 302, 303. **Criminology and Penology.** 3 hours each term.
First term: the nature of crime, with reference to causative factors. Second term: theories underlying punishment; the role of the police and the courts; history of punishment, recent penal developments. Prerequisite: introductory course in sociology, psychology, or anthropology; or consent of instructor.
- Soc 327, 328. **Introduction to Social Research.** 3 hours each term.
First term: the development of social research; the nature of scientific inquiry and the basic methods and techniques; examination of representative sociological studies from the standpoint of methodology. Second term: the class plans and carries through to completion research projects designed to give experience in the use of the basic methods and techniques. Prerequisite: Soc 204, 205, 206 or consent of instructor. Foskett, Martin.
- 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. Particular attention to origin, function, ideologies, membership, and leadership. Prerequisite: Soc 204, 205 or Psy 201, 202. Berreman, Littman.
- Soc 338. **Marriage and the Family.** 3 hours.
The growth and development of the family throughout its life cycle. The family and personality development, dating, courtship, mate selection, engagement, marital and family adjustment, family crises. Prerequisite: junior standing. Johannis.
- Soc 340, 341, 342. **Social Work and Public Welfare.** 3 hours each term.
Fall: introduction to the theory, principles, and skills of case work, group work, community organization, and social action, with applications in a variety of settings. Winter: introduction to the social services, with emphasis on historical development and present practices in public welfare. Spring: study of contemporary issues in social-work theory and practice. Prerequisite: 9 hours of sociology or psychology, or consent of instructor; Soc 340, 341 prerequisite to Soc 342. Bisno.
- Soc 343. **Field Observation.** 2 hours.
Supervised observational visits to social agencies and institutions. Discussions, relating the field experience to instruction in Soc 340. Prerequisite: Soc 340 or concurrent enrollment, or consent of instructor. Bisno.
- 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.
Collective Behavior. Berreman.
Penological Systems. Martin.
Teachers' Use of Social Agencies. Bisno.
Family Life Education. Johannis.
- Soc 417. **Juvenile Delinquency.** (G) 3 hours.
Nature and extent of delinquent behavior; contributing factors; current preventive and treatment programs. Prerequisite: general sociology or general psychology.
- Soc 421. **Community Planning and Social Legislation.** (G) 2 hours.
The function, character, and problems of community planning, both governmental and nongovernmental; legislation for the mobilization of community resources to meet community needs. Prerequisite: 9 hours of sociology or consent of instructor. Bisno.

Soc 431, 432, 433. Community Structure and Organization. (G) 3 hours each term.

Analysis of the human community, including its origins and development, ecological and social bases, function and structure patterns, and rural-urban differentials. The relation of social classes, community institutions, and associations to conflict, cleavage, integration, and other aspects of community organization. Prerequisite: general sociology. Martin.

Soc 435. Population and Population Theory. (G) 3 hours fall.

Modern demographic trends, the factors underlying them, and their 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 spring.

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 winter.

The development of "race consciousness" and emergent problems of race-culture contacts. Prerequisite: introductory course in sociology, anthropology, or psychology. Berreman.

Soc 440, 441. Principles and Practices of Social Group Work. (G) 3 hours each term.

Analysis of the group-work experience in terms of process and method. Topics covered include: leadership, discipline, dynamics of group life, functions of the professional and volunteer worker, individual needs within group settings, and program development. Prerequisite: 9 hours in sociology, 9 hours in psychology; or consent of instructor. Bisno.

Soc 448, 449. Social Analysis. (G) 3 hours each term.

Basic processes in the designing and completion of research; critical examination of current research and selected techniques; field work. Prerequisite: Soc 327, 328 or elementary statistics. Martin.

Soc 450, 451, 452. History of Social Thought. (G) 3 hours each term.

An historical analysis of Western social thought in terms of its recurrent problems, its basic concepts, and its relation to contemporary sociological thought. The third term is devoted to an intensive study of the work of outstanding sociologists since Comte and Spencer. Foskett.

Soc 454, 455. Theoretical Sociology. (G) 3 hours each term, fall and winter.

Fall: foundations of theoretical sociology, with emphasis on assumptions, concept formulation, leading ideas, the value problem, and speculation in contemporary sociology. Winter: systematic sociological theory developed from the application of structure-function concepts to the study of social phenomena. Open to seniors and graduate students.

Soc 462. Maturity and Old Age. (g) 3 hours.

The changes which older people experience both before and after leaving the labor force. Attention to family and community organization to meet the needs of older persons. Prerequisite: 9 hours of sociology or psychology.

Soc 465. The Family in American Culture. (g) 3 hours.

The family as a social institution. The development of the familial institution; interrelations of the family and other social institutions. Class, ethnic, and religious variations in family life. Changes and trends in patterns of family living. Prerequisite: course in sociology, anthropology, or psychology.

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.

Urbanization. Martin.

Social Stratification.

Contemporary Social Thought. Foskett.

Psychotherapy and Social Structure. Bisno, Sundberg.

Marriage and Family Counseling. Johannis.

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 selected experiments in sociology. Each student is expected to formulate a research problem, and to design an experiment suitable for testing the proposed hypothesis. Prerequisite: elementary course in statistics.

COURSES OFFERED ONLY IN EXTENSION

Soc 346. **Social Case Methods in Nursing.** 3 hours.

Soc 347. **Social-Welfare Resources and Organization.** 3 hours.

SW 507. **Seminar.** Hours to be arranged.

SW 511, 512, 513. **Social Case Work.** 3 hours each term.

SW 516, 517. **Personality Development.** 2 hours each term.

SW 521. **Social Group Work.** 2 hours.

SW 556, 557. **Medical Information for Social Work.** 2 hours each term.

SW 572. **Community Organization for Social Welfare.** 3 hours.

SW 580. **Introduction to Public Welfare.** 3 hours.

SW 581. **The Child and the State.** 3 hours.

SW 582. **Administration of Social Insurances.** 3 hours.

SW 584. **Public Assistance: Policy and Method.** 3 hours.

Department of Speech

Professors: R. C. McCALL (department head), R. D. CLARK.

Associate Professors: W. A. DAHLBERG, K. E. MONTGOMERY, H. W. ROBINSON, OTTILIE T. SEYBOLT, D. G. STARLIN, K. S. WOOD.

Assistant Professor: E. A. KRETSINGER.

Instructors: HERMAN COHEN, F. J. HUNTER, D. H. KRUEGER, H. L. RAMEY.

Assistants: R. G. HIATT, LOIS J. HOLEMAN, P. K. McMULLEN, WILMA A. SUNDAHL, J. A. WOOD, H. C. ZIMMERMAN.

THE Department of Speech offers major curricula leading to the Bachelor of Arts, Bachelor of Science, Master of Arts, and Master of Science degrees, with opportunities for study in the fields of drama, public speaking, radio broadcasting, and speech and hearing therapy.

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 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 department 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 in other departments which are 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.

(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 is required of all majors.

(3) The mastery of at least one of the four following fields: drama, public speaking, radio and television broadcasting, speech and hearing therapy. The minimum requirements in the four fields are as follows:

(a) *Drama*: Theater Principles (Sp 261, 262, 263); Production Workshop (Sp 264, 265, 266); 5 term hours selected from Elements of Acting (Sp 251) and Technique of Acting (Sp 351, 352); Appreciation of Drama (Sp 267, 268, 269) or History of the Theater (Sp 464, 465).

(b) *Public Speaking*: Public Discussion (Sp 221) or Advanced Public Discussion (Sp 331); Argumentation, Discussion, and Persuasion (Sp 321, 323, 323); Theory and Literature of Public Speaking (Sp 301, 302, 303) or History and Literature of Oratory (Sp 421, 422, 423); Radio and Television Workshop (Sp 341); Phonetics (Sp 370) or Speech Defects and Disorders (Sp 481, 482).

(c) *Radio and Television Broadcasting*: Fundamentals of Broadcasting (Sp 241); Theater Principles (Sp 261, 262, 263); one term of Production Workshop (Sp 264, 265, 266); 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).

(d) *Speech and Hearing Therapy*: Phonetics (Sp 370); Speech Science (Sp 371); Speech Defects and Disorders (Sp 481, 482); Clinical Methods in Speech Correction (Sp 483); Clinical Practice in Speech Correction (Sp 484, 485, 486); Rehabilitation of the Hard-of-Hearing (Sp 487).

LOWER-DIVISION COURSES

Sp 111, 112, 113. **Fundamentals of Speech.** 3 hours each term.

Projects in extempore speaking. Primary emphasis on content and organiza-

tion, with attention also to the student's adjustment to the speaking situation, effective delivery, audience motivation, and language of the speech.

- Sp 114. **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, Seybolt.
- Sp 211. **Interpretation.** 2 hours.
The application of the principles of oral reading to literature.
- Sp 221. **Public Discussion.** 2 hours winter or spring.
Preparation of speeches for delivery before public audiences. Dahlberg, Cohen.
- 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, comparative broadcast systems, and international broadcasting and propaganda. Cohen.
- Sp 251. **Elements of Acting.** 2 hours.
Elementary principles of acting technique. Hunter.
- Sp 252. **Make Up.** 1 hour.
The history, purposes, and techniques of application of theatrical make up. The use of make up in the various theatrical media, with emphasis on stage and television performance. Hunter.
- Sp 261, 262, 263. **Theater Principles.** 1 hour each term.
Development of the physical theater and the mechanics of its stage and shops; planning and construction of stage settings and properties; basic principles of stage lighting. Ramey.
- Sp 264, 265, 266. **Production Workshop.** 2 or 3 hours each term.
Practical experience in the construction, painting, and handling of scenery, and the lighting of plays. Prerequisite: Sp 261, 262, 263 or concurrent registration. Ramey.
- Sp 267, 268, 269. **Appreciation of Drama.** 2 hours each term.
Study of design, acting, playwriting, criticism. Appreciation of drama, motion picture, and radio play as art forms. Robinson.

UPPER-DIVISION COURSES

- Sp 301, 302, 303. **Theory and Literature of Public Speaking.** 3 hours each term.
Selected readings on the principles of public speaking, from Plato to modern times, with examples from oratory. Practice in the application of the principles. Fall: invention; winter: arrangement and delivery; spring: style.
- 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. McCall.
- Sp 321, 322, 323. **Argumentation, Discussion, and Persuasion.** 3 hours each term.
Fall: argumentation; winter: principles and practice in discussion forms; spring: audience motivation and nature of audience response. Dahlberg, Montgomery, Cohen.
- 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. Dahlberg, Cohen.

- Sp 341. **Radio and Television Workshop.** 2 hours.
Theory and application of broadcast performance technique; physical, acoustic, and mechanical theory and its application; interpretative theory and its application. Prerequisite: consent of instructor. Kretsinger.
- Sp 342, 343. **Radio Workshop.** 2 hours each term.
Theory and practice of radio broadcasting. Prerequisite: Sp 341. Kretsinger.
- Sp 344, 345. **Television Workshop.** 2 hours each term.
Theory and practice of television broadcasting. Prerequisite: Sp 341. 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. Starlin.
- Sp 351, 352, 353. **Technique of Acting.** 3 hours each term.
Principles of acting technique. Problems in the analysis and presentation of character. Robinson, Hunter.
- Sp 364, 365, 366. **Play Direction.** 3 hours each term.
Sources of dramatic material, choice of play, casting and rehearsal of players, production organization. Practical experience in directing. 6 or more laboratory periods. Hunter, Seybolt.
- Sp 370. **Phonetics.** 3 hours any term.
Study of sounds used in speech. Determination of sounds; their symbolic nature; their production; physical and psychological problems involved in their perception; sectional differences. McCall.
- Sp 371. **Speech Science.** 3 hours any term.
A study of the anatomy, psychology, and physics of speech. McCall.
- Sp 411. **Speech for the Classroom Teacher.** 3 hours spring.
Instruction in speech and speech forms designed for classroom use. Required for English majors who intend to teach, but open to all prospective teachers. McCall.
- Sp 421, 422, 423. **History and Literature of Oratory.** (G) 3 hours each term.
Masterpieces of oratorical literature. Fall: Greek and Roman; winter: British oratory from Pitt to modern times; spring: American oratory. Clark, Dahlberg, Montgomery.
- Sp 444, 445, 446. **Radio and Television Program Production.** (G) 3 hours each term.
Theory and practice of production techniques as they apply to major program types. Critical evaluation of programs, programming patterns, audience-analysis techniques. Prerequisite: consent of instructor.
- 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 public-service broadcasting; the rights and duties of listeners; public opinion and propaganda influence.
- Sp 451, 452, 453. **Theory of Dramatic Production.** (G) 3 hours each term.
Theory of various elements of dramatic production. Fall: theory of acting; winter: theory of dramatic direction; spring: theory of dramatic structure. Hunter, Robinson.
- Sp 461, 462, 463. **Scene Design.** (G) 3 hours each term.
The physical theater; its social and historical background; forms of theater auditoriums and types of stage settings; the design of stage settings. Prerequisite: consent of instructor. Ramey.
- Sp 464, 465, 466. **History of the Theater.** (G) 3 hours each term.
An historical study of the theater from ancient to modern times. Hunter.

- Sp 467, 468, 469. **Lighting for Stage and Television.** (G) 2 hours each term.
The functions of lighting on the stage and in the television studio. Fall: the qualities of light, lighting instruments, control systems. Winter: functions of light in the theater, theories and methods of lighting stage productions. Spring: functions of light in the television studio; theories, methods, and special equipment for lighting television productions. Prerequisite: Sp 263, Sp 266; Sp 467 prerequisite to Sp 468 or Sp 469. Ramey.
- 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. Wood.
- Sp 481, 482. **Speech Defects and Disorders.** (G) 3 hours each term.
First term: symptoms and causes of speech abnormalities; emphasis on diagnosis and basic pathology of articulatory defects and delayed speech, with discussion of methods of treatment limited to general principles. Second term: emphasis on cleft-palate and spastic speech, aphasia, stuttering, and neurological speech disorders. Wood.
- Sp 483. **Clinical Methods in Speech Correction.** (G) 3 hours.
Study of specific approaches and techniques in the treatment of the major speech defects, including functional articulatory difficulties, cleft-palate speech, stuttering, and neurological speech disorders. Wood.
- Sp 484, 485, 486. **Clinical Practice in Speech Correction.** (G) 2 hours each term.
Actual case experience for student clinicians in the diagnosis and treatment of speech-defective children and adults, under supervision. Wood.
- Sp 487, 488. **Rehabilitation of the Hard-of-Hearing.** (G) 3 hours each term.
First term: the nature of hearing; hearing loss and speech involvements. Second term: auditory tests and their interpretation; hearing aids; lip reading and auditory training. 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.

COURSES OFFERED ONLY IN SUMMER SESSIONS AND EXTENSION

- Sp 225, 226. **Public Speaking for Business and Professional Men and Women.** 2 hours each term (extension and summer sessions).
- 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.** 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).

Bureau of Municipal Research and Service

HERMAN KEHRLI, M.A.....	Director
KENNETH C. TOLLENAAR, M.A.....	Assistant Director, Portland Office
JOHN H. DEMOULLY, LL.B.....	Research Attorney
ARNOLD M. WESTLING, B.S.....	Planning Consultant
ROBERT E. MOULTON, B.A.....	Research Assistant
ELLEN CHRISTIANSEN, B.A.....	Librarian

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 field of state government and welfare. 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.

Assistance is also 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, and occasional special research studies.

School of Architecture and Allied Arts

SIDNEY W. LITTLE, M.Arch., Dean of the School of Architecture and Allied Arts.
FRANCES S. NEWSOM, B.A., Architecture and Allied Arts Librarian.

Professors: F. A. CUTHBERT,* F. T. HANNAFORD, S. W. LITTLE, A. M. VINCENT.

Associate Professors: G. F. ANDREWS, W. C. BALDINGER, EYLER BROWN, R. R. FERENS, BROWNELL FRASIER, W. S. HAYDEN, MAUDE I. KERNS (emeritus), DAVID MCCOSH, M. D. ROSS, VICTORIA A. ROSS.

Assistant Professors: T. O. BALLINGER, L. T. CHADWICK, N. M. GADDIS, G. S. JETTE, G. E. KOSTRITSKY, E. M. MACCOLLIN, W. M. RUFF, C. B. RYAN, M. R. SPONENBURGH, JACK WILKINSON.

Instructors: J. L. BRISCOE, D. P. HATCH, A. E. MILLER, D. H. SITES.

Assistants: J. C. BRAUN, C. P. CAMPBELL, L. B. KIMBRELL, MARTEN OOSTERKAMP, R. E. SMALL, J. M. STIDHAM.

THE School of Architecture and Allied Arts offers instruction leading to baccalaureate and advanced degrees in the fields of architecture, interior design, landscape architecture, drawing and painting, sculpture, ceramics, weaving, 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 staff of the School of Architecture and Allied Arts as faculty 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-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 a transfer student 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.

* On sabbatical leave, fall term, 1953-54.

Facilities. The school is housed in a group of buildings at the northeast corner of the campus. The buildings contain drafting rooms, exhibition rooms, studios, classrooms, a library, and staff offices.

The school provides desks, easels, and certain materials which 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 Cooperative Store, maintained in the Art and Architecture Building.

All work done by students is the property of the school unless other arrangements are approved by the instructor.

The Architecture and Allied Arts Library is a reference collection of about 4,500 books, administered as a branch of the University Library.

Graduate Work. The School of Architecture and Allied Arts offers graduate work leading to master's degrees in architecture, landscape architecture, 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 for studies in city and regional planning.

Master of Landscape Architecture—for creative work in landscape design or for studies in city and regional 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.

Master of Science in General Studies—for programs of advanced study planned especially for public-school teachers; adapted to the needs of many students in art education.

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 bearing on his creative abilities.

(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. degrees 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, the technical procedures followed, and other 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 and Allied Professions

THE curricula in architecture, interior design, and landscape architecture are organized to insure attention to the close relationships among these professions and to provide opportunities for collaboration on common problems of design. The following regulations govern the several curricula, and the granting of the degrees of Bachelor of Architecture, Bachelor of Interior Architecture, and Bachelor of Landscape 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.

Architecture

Advisers: LITTLE, HAYDEN, HANNAFORD

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
Basic Design (AA 195).....	6
Graphics (AA 211, 212, 213).....	9
Lower-Division Drawing (AA 291).....	3
Construction & Design (AA 287).....	12
*Mathematics (Mth 105, 106, 107).....	12
*Physics (Ph 101, 102, 103 or Ph 201, 202, 203).....	9-12

Because the upper-division program is planned as continuous with the basic courses offered during the first two years, students planning 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 curriculum in architecture provides two options, a design option and a structural option. Both options include sound training in both phases of architecture; the structural option, however, requires additional technical work, indicated below. The major option in design includes the following required courses:

* Satisfies also group requirement in liberal arts.

	Term hours
Architectural Design (AA 387).....	12
Architectural Design (AA 487).....	18
Architectural Design (AA 587).....	24
History of Architecture I (AA 337, 338, 339).....	9
History of Architecture II (AA 340, 341, 342).....	9
Theory of Structures I (AA 369, 370, 371).....	9
Theory of Structures II (AA 469, 470, 471).....	12
Mechanical Equipment of Buildings (AA 320, 321, 322).....	9
Working Drawings, Specifications & Estimating (AA 417, 418, 419).....	6
City Planning I (AA 353, 354, 355).....	6
Surveying for Architects (AA 317).....	2
Ethics & Practice (Architecture) (AA 529).....	2
Art studio course (drawing, painting, sculpture, weaving, or ceramics).....	6

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

Graduate work is offered in architecture, leading to the Master of Architecture degree. For requirements see page 170.

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 sound training in business methods and in the structural phases of architecture.

Interior Design

Adviser: FRASIER

Two- and three-year professional curricula, following two years of preprofessional work, are offered in the field of interior design. The three-year program leads to the degree of Bachelor of Interior Architecture, the two-year program to the degree of Bachelor of Science. Instruction in interior design is closely correlated with work in architectural design and the related arts. The following courses are required for admission to an upper-division major in interior design:

	Term hours
Basic Design (AA 195).....	6
Graphics (AA 211, 212, 213).....	9
Lower-Division Drawing (AA 291).....	3
Construction & Design (AA 287).....	12

In the upper-division program, the student is assigned individual problems in interior planning; emphasis is placed on his creative development and on the relating of his education to the solution of design problems. All teaching is by means of individual criticism, 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 two-year professional program includes the following required courses:

	Term hours
Interior Design (AA 388).....	12
Interior Design (AA 488).....	18
History of Interior Architecture (AA 443, 444, 445).....	6
History of Architecture I (AA 337, 338, 339).....	9
History of Architecture II (AA 340, 341, 342).....	9
Working Drawings, Specifications & Estimating (AA 417, 418, 419).....	6
Drawing, painting, sculpture, ceramics, weaving.....	27

The three-year professional program includes the courses listed above and, in addition:

Interior Design (AA 588).....	24
Interior-Design Laboratory (AA 484, 485, 486).....	6
Interior-Design Professional Practice (AA 465, 466, 467).....	9
Ethics & Practice (Architecture) (AA 529).....	2

Landscape Architecture

Adviser: CUTHBERT

The curriculum in landscape architecture, leading to the degree of Bachelor of Landscape Architecture, is a three-year program following two years of pre-professional work. The following courses are required for admission to an upper-division major in landscape architecture:

	Term hours
Basic Design (AA 195).....	6
Graphics (AA 211, 212, 213).....	9
Lower-Division Drawing (AA 291).....	3
Construction & Design (AA 287).....	12

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 design, 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 different conditions of climate, soil, and exposure.

Students planning to major in landscape architecture are advised to complete courses in high-school mathematics through trigonometry.

The following upper-division courses are required for a major in landscape architecture:

	Term hours
Landscape Design (AA 389).....	12
Landscape Design (AA 489).....	12
Landscape Design (AA 589).....	30
Plant Materials (AA 326, 327, 328).....	9
History & Lit. of Landscape Arch. (AA 356, 357).....	6
History of Architecture II (AA 342).....	3
Plant Composition (AA 430, 431, 432).....	12
Maintenance & Construction (AA 359, 360, 361).....	6
Adv. Landscape Construction (AA 459, 460, 461).....	12
City Planning I (AA 353, 354, 355).....	6
City Planning II (AA 499).....	9
Office Practice (Landscape) (AA 433).....	2
Surveying & Structures for Landscape (AA 366, 367, 368).....	9

Graduate work is offered in landscape architecture, leading to the degree of Master of Landscape Architecture. For requirements, see page 170.

The curriculum in landscape architecture is accredited by the American Society of Landscape Architects.

LOWER-DIVISION COURSES

AA 195. Basic Design. 2 hours each term.

No-grade course. A three-term introductory sequence; a series of studio participation exercises involving the basic principles of design.

AA 211, 212, 213. Graphics. 3 hours each term.

A study of the basic concepts of drawing as a means of communicating ideas visually. Freehand and measured architectural drawings; study of perspective, orthographic projection, light and color through various mediums. Taken concurrently with AA 287.

AA 250, 251, 252. Introduction to Landscape Design. 2 hours each term.

Study of the background and principles of landscape design; lectures, field trips, design of small properties. Not required of majors.

AA 287. Construction and Design. 1 to 4 hours each term.

No-grade course. Introduction to the disciplines of planning and design, through lectures, audio-visual presentations, and studio projects. Execution of short problems embracing concepts of architecture, landscape architecture, and interior design. General nonmathematical analysis of construction principles. Prerequisite: AA 195 or equivalent.

UPPER-DIVISION COURSES

AA 311, 312, 313. Domestic Architecture. 2 hours each term.

Fundamental analysis of factors influencing domestic design. Illustrated lectures, class discussions. Open to nonmajors.

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.

AA 320, 321, 322. Mechanical Equipment of Buildings. 3 hours each term.

Principles of plumbing, heating, ventilation, electrical illumination, acoustics. Prerequisite: Ph 101, 102, 103, Mth 105.

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.

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.

AA 359, 360, 361. Maintenance and Construction. 2 hours each term.

Maintenance problems and construction details, as related to the work of the professional landscape architect.

AA 366, 367, 368. Surveying and Structures for Landscape. 3 hours each term.

Elements of plane surveying, with special application to landscape architecture; field practice, contour determination, calculating excavation and fill. Simple wood structure, retaining walls, pools, steps, roads; concrete construction.

AA 369, 370, 371. Theory of Structures I. 3 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.

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 388. Interior Design. 2 to 6 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 389. **Landscap Design.** 1 to 6 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 401. **Special Studies.** Hours to be arranged.

AA 405. **Senior Assigned Reading.** Hours to be arranged.

AA 407. **Senior Seminar.** Hours to be arranged.

AA 411, 412, 413. **Housing.** (G) 2 hours each term.

Needs and problems of public and private housing. General principles governing siting and design of housing projects. Prerequisite: AA 355 and fourth-year standing in design.

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.

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. Building-materials and labor estimating methods used by contractors and material dealers.

AA 430, 431, 432. **Plant Composition.** (G) 4 to 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.

AA 433. **Ethics and Practice (Landscape).** (G) 2 hours fall or spring.

Professional ethics, office management, and principles of superintendence.

AA 453. **Building Materials.** 2 hours.

Critical study of materials used in construction, with special reference to their design significance.

AA 459, 460, 461. **Advanced Landscape Construction and Field Practice.** (G) 4 hours each term.

Interpretation of designs in ground and plot situations. Development of construction problems in field practice. Prerequisite: AA 359, 360, 361.

AA 465, 466, 467. **Interior-Design Professional Practice.** (G) 3 hours each term.

Ethics and office procedure for the interior designer in private practice. Trade contacts, discounts, interprofessional relations. Sources of materials.

AA 469, 470, 471. **Theory of Structures II.** (G) 4 hours each term.

Wood and steel building trusses, reinforced-concrete building construction; retaining walls, footings, and foundations for buildings. Prerequisite: AA 369, 370, 371.

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.

AA 484, 485, 486. **Interior-Design Laboratory.** 2 hours each term.

Workroom practice; estimating and cost studies. Fabrics and decorating materials. Furniture design.

AA 487. **Architectural Design.** 1 to 10 hours any term.

No-grade course. Second year of planning and design sequence. Students work in the drafting room under individual observation of staff members. Field trips, seminars. Prerequisite: 12 term hours in AA 387.

AA 488. Interior Design. 1 to 6 hours any term.

No-grade course. A series of problems in interior design, developing the analytical approach; emphasis on integration with architecture. Some attention to period design. Individual criticisms. Prerequisite: 10 term hours in AA 388.

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: 12 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.

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. Assigned Reading.** Hours to be arranged.**AA 507. Seminar.** Hours to be arranged.**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.

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.

AA 587. Architectural Design. 1 to 10 hours any term.

No-grade course. Third year of planning and 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: 18 term hours in AA 487.

AA 588. Interior Design. 5 to 10 hours any term.

No-grade course. Professional interior-design problems of increasing complexity. Individual criticisms, public presentations. One term devoted to a terminal project.

AA 589. Landscape Design. 1 to 10 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 and Painting

Advisers: VINCENT, McCOSH

I NSTRUCTION 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 special atten-

tion 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 195).....	6
Introduction to the Visual Arts (AA 201, 202, 203).....	6
Lower-Division Painting (AA 290).....	9
Lower-Division Drawing (AA 291).....	9
	} 24

The upper-division major program leading to a bachelor's degree must include a minimum total of 75 hours, normally distributed as follows:

	Term hours
Upper-Division Painting (AA 490).....	18
Upper-Division Drawing (AA 491).....	15
Composition & Visual Theory (AA 492).....	15
History of Painting (AA 346, 347, 348).....	9
Electives: graphic arts, sculpture, etc.....	18

Graduate work leading to the degree of Master of Fine Arts is offered in the field of drawing and painting. For requirements, see page 170.

LOWER-DIVISION COURSES

AA 290. Lower-Division 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.

AA 291. Lower-Division 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.

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.

UPPER-DIVISION COURSES

AA 401. Special Studies. Hours to be arranged.

AA 405. Senior Assigned Reading. Hours to be arranged.

AA 407. Senior Seminar. Hours to be arranged.

AA 480. Graphic Arts. (G) 2 to 4 hours any term.

A study of design principles and technical methods involved in lithography, etching, wood-block and linoleum-block print making.

AA 490. Upper-Division Painting. (G) 2 to 4 hours any term.

Advanced problems in portrait, figure, landscape, and still life, in all media. Prerequisite: 12 term hours in AA 290.

AA 491. Upper-Division Drawing. (G) 1 to 4 hours any term.

Advanced work in drawing. Study of form from the figure. Prerequisite: 6 term hours in AA 291.

AA 492. Composition and Visual Theory. (G) 2 to 4 hours any term.

No-grade course. A study of light, color, and visual processes as they relate to easel and mural painting.

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. **Assigned Reading.** Hours to be arranged.
 AA 507. **Seminar.** Hours to be arranged.
 AA 509. **Terminal Creative Project.** Hours to be arranged.

Sculpture

Adviser: SPONENBURGH

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 offerings enlarge upon theoretical perspectives, directing the student into personal investigations of the physical and expressive provinces of sculpture.

The following lower-division courses in art are required as preparation for a major in sculpture:

	Term hours
Basic Design (AA 195).....	6
Introduction to the Visual Arts (AA 201, 202, 203).....	9
Elementary Sculpture (AA 293).....	9
Lower-Division 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:

	Term hours
Techniques of Sculpture (AA 393).....	15
Advanced Sculpture (AA 494).....	15
History of the Plastic Arts (AA 376, 377, 378).....	9
Sculpture Seminar (AA 407).....	3
Advanced Ceramics or Jewelry (AA 455 or AA 457).....	6
Upper-Division Drawing (AA 491).....	6
Backgrounds of Modern Art (AA 476, 477, 478).....	9

Graduate work, leading to the degree of Master of Fine Arts, is offered in the field of sculpture. For requirements, see page 170.

LOWER-DIVISION COURSES

- AA 293. **Elementary Sculpture.** 2 to 4 hours any term.
 Introduction to materials. Elementary considerations of form; technical and compositional exercises in clay and plaster. Sections for preidental students and other nonmajors.

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 wood and stone carving.
- AA 401. **Special Studies.** Hours to be arranged.
 AA 405. **Senior Assigned Reading.** Hours to be arranged.
 AA 407. **Senior Seminar.** Hours to be arranged.

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.

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. Assigned Reading.** Hours to be arranged.**AA 507. Seminar.** Hours to be arranged.**AA 509. Terminal Creative Project.** Hours to be arranged.

Applied Design

Adviser: VICTORIA A. ROSS

I NSTRUCTION is offered in the following fields of applied design: ceramics, weaving, and jewelry and metalsmithing. Major programs of study are offered in ceramics and weaving. Both programs include supporting work in related arts. The following lower-division courses in art are required as preparation for a major in ceramics or weaving:

	Term hours
Basic Design (AA 195, 196).....	6
Introduction to the Visual Arts (AA 201, 202, 203).....	9
Lower-Division Drawing or Painting (A 290 or AA 291).....	6
Lower-Division Ceramics or Weaving (AA 255 or AA 256).....	9

Ceramics. The curriculum in ceramics is designed to acquaint the student with the general character, techniques, and materials of ceramic art. Emphasis is placed on individual development through individual projects. The following courses are required in the upper-division major program leading to a bachelor's degree:

	Term hours
Advanced Ceramics (AA 455)	30
Drawing, painting, sculpture.....	15
Weaving, jewelry	9
Art history (selected)	9

Weaving. The curriculum in weaving is designed to provide a thorough understanding of contemporary weaving on the hand loom. In studio work at the upper-division level, emphasis is placed on individual creative effort in the various techniques. The following courses are required:

	Term hours
Advanced Weaving (AA 456).....	30
Drawing, painting, sculpture	15
Ceramics, jewelry	9
Art history (selected)	9

LOWER-DIVISION COURSES

AA 255. Lower-Division Ceramics. 2 to 4 hours any term.

Introduction to ceramic techniques and materials. Throwing, moulding, and hand building. Surface decoration of two- and three-dimensional surfaces. Students participate in stacking, firing, and drawing the kilns. Open to nonmajors.

AA 256. Lower-Division Weaving. 2 to 4 hours any term.

Introduction to basic weaving techniques. The dressing, care, and manipula-

tion of several types of looms. Experimentation with a wide variety of fibres. Production of textiles of original design on 4- and 12-harness looms.

AA 257. Lower-Division 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.

UPPER-DIVISION COURSES

AA 401. Special Studies. Hours to be arranged.

AA 405. Senior Assigned Reading. Hours to be arranged.

AA 407. Senior Seminar. Hours to be arranged.

AA 455. Advanced Ceramics. (G) 2 to 6 hours any term.

Advanced studio work in ceramics; individual projects. Emphasis on creative form. Study of material, texture, and functional relationships. Body and glaze making; earthenware, stoneware, and porcelain. Kiln atmospheres and effects on body and glaze. Students assume responsibility for firing their own work. 30 term hours required for major. Prerequisite: 6 term hours in AA 255.

AA 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 major.

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.

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, and other processes.

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. Assigned Reading. Hours to be arranged.

AA 507. Seminar. Hours to be arranged.

AA 509. Terminal Creative Project. Hours to be arranged.

Art History

Advisers: BALDINGER, M. D. ROSS

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 in art history:

	Term hours
Lower-division studio courses (basic design, drawing, painting, sculpture, or applied design).....	12
Introduction to 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:

	Term hours
Art history (selected)	36
Drawing, painting, sculpture, or applied design.....	18
Aesthetics (Phl 441, 442, 443).....	9

LOWER-DIVISION COURSES

AA 201, 202, 203. **Introduction to the 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, mediums, and forms.

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.

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.

AA 346, 347, 348. **History of Painting.** 3 hours each term.

Chronological and interpretive study of the language of painting. Fall: pre-historic through Italian Renaissance; winter: Renaissance and baroque in northern Europe and Spain; spring: Oriental painting, modern work in Europe and the United States. Open to nonmajors.

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.

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.

AA 376, 377, 378. **History of the Plastic Arts.** 3 hours each term.

A chronological and interpretative study of the language of sculpture, ceramics, and metal work. Fall: prehistoric through mediaeval and Europe. Winter: Renaissance and baroque in Europe. Spring: Oriental and postbaroque in Europe and America. Open to nonmajors.

AA 401. **Special Studies.** Hours to be arranged.

AA 405. **Senior Assigned Reading.** Hours to be arranged.

AA 407. **Senior Seminar.** Hours to be arranged.

AA 440, 441, 442. **History of American Architecture.** 1 hour each term.

The development of architecture in the United States from the colonial period to the present. Special emphasis on regional building in the Northwest. Seminar discussions and assigned research.

AA 443, 444, 445. History of Interior Architecture. 2 hours each term.

History of the development of interior architecture, covering the study of furniture, textiles, rugs, etc., as an art expression of the life of the people today and in relation to the historical development of the past. Open to nonmajors.

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 non-majors.

AA 450, 451, 452. Art in Latin America. (G) 3 hours each term.

Proconquest 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 nonmajors.

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.

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. Assigned Reading.** Hours to be arranged.**AA 507. Seminar.** Hours to be arranged.

Art Education

Adviser: BALLINGER

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 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 195).....	6
Introduction to the Visual Arts (AA 201, 202, 203).....	9
Lower-Division Weaving (AA 256).....	3
Lower-Division Jewelry & Metalsmithing (AA 257).....	3
Lower-Division Drawing (AA 291).....	3
Lower-Division Painting (AA 290).....	3
Elementary Sculpture (AA 293).....	3
Lower-Division Ceramics (AA 255).....	3

The student's 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:

	Term hours
Cultural Anthropology (Anth 207, 208, 209).....	9
Art Education in the Junior High School (ArE 314, 315, 316).....	9
Art Education in the Senior High School (ArE 414, 415, 416).....	9
Drawing, painting, ceramics	9

	Term hours
Audio-Visual Aids (Ed 435).....	4
Elementary Aesthetics (Phl 204).....	3
Art history (selected).....	9
Interior Design (AA 388).....	3
Oregon School Law (Ed 316).....	2
Oregon History (Hst 377).....	2
School of American Life (Ed 311).....	3
Psychological Foundations of Teaching I (Ed 312).....	4
Principles of Teaching (Ed 314).....	3
Special Teaching Methods (Ed 408).....	3
Supervised Teaching (Ed 415).....	6
Courses in second teaching field.....	9
Education electives.....	3

A fifth year of preparation is required for permanent teacher certification in Oregon. Students working toward the completion of the fifth-year requirement 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. Creative Art and Crafts 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.

ArE 314, 315, 316. Art Education in the Junior High School. 3 hours each term.

Art activities in the junior high school; the needs and abilities of the pre-adolescent child relative to self-expression; critical evaluation of art materials in terms of student experience; laboratory work with basic problems in the junior-high-school art program in children's art classes.

ArE 401. Special Studies. Hours to be arranged.

ArE 403. Senior Thesis. Hours to be arranged.

ArE 405. Senior Assigned Reading. Hours to be arranged.

ArE 407. Senior Seminar. Hours to be arranged.

Ed 408. Special Teaching Methods. 3 hours winter or spring.

Art activities in the total school curriculum; the problem of the integrated program; current studies and research in the field; new materials; classroom procedure. Prerequisite: Ed 311, Ed 312, Ed 314.

ArE 414, 415, 416. Art Education in the Senior High School. (G) 3 hours each term.

Study of art education in the secondary school, through laboratory work and individual research. Practice-teaching problems examined and studied as a group experience. Evaluation of current thinking in the field and of its application to the classroom situation.

Ed 415. Supervised Teaching. 1 to 12 hours any term.

One hour a day, five days a week, for two terms during the fourth year. Teaching experience in the public schools.

GRADUATE COURSES

ArE 414, 415, 416 may also be taken for graduate credit.

ArE 501. Special Studies. Hours to be arranged.

ArE 505. Assigned Reading. Hours to be arranged.

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

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.

ArE 535. Art and Architecture for the School Administrator. 3 hours.

Problems of the school administrator in the general area 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

VICTOR P. MORRIS, Ph.D., Dean of the School of Business Administration.
WESLEY C. BALLAINE, Ph.D., Director of Bureau of Business Research.

Professors: W. C. BALLAINE, J. H. BOND (emeritus), O. K. BURRELL, N. H. COMISH (emeritus), C. L. KELLY (emeritus), A. L. LOMAX, V. P. MORRIS, A. B. STILLMAN.

Associate Professors: C. E. JOHNSON, W. D. RICHINS, J. W. SOHA, C. F. ZIEBARTH.

Assistant Professors: R. E. DODGE, S. T. FORD, L. R. JOHNSON, A. L. PEETERSON, W. W. PYLE, W. J. ROBERT, JESSIE M. SMITH, W. L. THOMPSON, L. R. TRUEBLOOD.

Instructors: GERTRUDE M. DEIERLEIN, CATHERINE M. JONES, MARGARET I. PHY, R. C. RAMPTON.

Assistants: A. E. FITZNER, C. F. GATES, KEITH HELLER, J. M. HESS, H. J. RATHE, LOUISE W. SMITH, D. J. ZULAUF.

THE University of Oregon offers, through the School of Business Administration, a program of major work, both undergraduate and graduate, to prepare young men and women for leadership in the various phases of business and commerce.* The school recognizes a primary obligation to provide the trained personnel needed in the rapidly expanding business and economic life of the state of Oregon.

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 staff of the School of Business Administration as faculty advisers to prebusiness students.

Before admission as professional majors in business administration, students must satisfy all lower-division requirements of the University and the College of Liberal Arts. Through courses satisfying group requirements and through electives, prebusiness students are expected to obtain a broad background in the social sciences.

The following courses are required for admission to upper-division major work in business administration:

* An undergraduate program, combining courses in business and courses in a technical field, is offered at Oregon State College through the School of Business and Technology. Technical "minors" are available in agriculture, engineering, forestry, home economics, industrial chemistry, mining or petroleum geology, and applied physics; 36 term hours in the technical minor are required, in addition to courses in business. The State College program leads to a bachelor's degree; by action of the State Board of Higher Education, graduate majors in business are offered exclusively at the University.

	Term hours
Constructive Accounting (BA 111, 112, 113).....	9
Elements of Finance (BA 222).....	4
Elements of Marketing (BA 223).....	4
Principles of Economics (Ec 201, 202, 203).....	9
Business English (Wr 214).....	3

Major Curricula. Upper-division major programs, leading to the B.A., B.S., or B.B.A. degree, are offered by the School of Business Administration. Programs may be arranged with emphasis on the following basic fields:

General Business	Foreign Trade
Accounting	Industrial Management
Advertising and Selling	Industrial Traffic Management and Transportation
Business and Construction	Merchandising and Marketing
Business Education	Real Estate and Insurance
Finance and Investments	

Students choosing one of these fields of special interest should also take supplementary work in other fields to give breadth to their business training. Majors are also urged to elect courses in geography, psychology, sociology, political science, and economics.

The general major requirement is 72 term hours in business and economics, including lower-division courses. Of the 72 hours, at least 48 must be in courses in business administration, and of these at least 24 hours must be in upper-division courses.

The following courses are required of candidates for the degree of Bachelor of Business Administration: Business Law (BA 416, 417, 418); three courses from the following optional management series: Finance Management (BA 459), Sales Management (BA 435), Business Statistics (BA 432), and either Production Management (BA 429) or Personnel Management (BA 412, 413).

Secretarial Science. Graduates in business administration find skill in typing and shorthand great assets in the business world. For students who have not acquired these skills before coming to the University, the University offers service courses in Typing (SS 121, 122, 123), Stenography (SS 111, 112, 113), and Applied Stenography (SS 211, 212, 213). See page 193.

Teacher Training. The School of Business Administration, in cooperation with the School of Education, offers a major program for the training of teachers of business in the high schools. The program includes courses for the development of skills in typing and shorthand, courses providing a basic knowledge of accounting, and special courses for prospective teachers—Principles of Business Education (BA 421) and Problems in Business Education (BA 422, 423). The student also takes courses in a second teaching field and work in education required for a teacher's certificate. A member of the faculty of the School of Business Administration serves as a special adviser to students preparing for teaching. For information concerning requirements for the Oregon state teacher's certificate, see SCHOOL OF EDUCATION.

Graduate Work in Business Administration. Students who hold a bachelor's degree from an accredited college or university, and who have completed a total of 45 term hours of undergraduate work (or equivalent) in business administration and economics, may register in the Graduate School for work in business administration leading to the M.B.A., M.A., or M.S. degrees. A student is normally able to earn in one year the 45 hours of graduate credit required for the master's degrees. Of these 45 hours, 15 may be taken in some approved allied field selected as a minor. A candidate for the master's degree must present a satisfactory thesis in the field of business administration (for which he receives 9 hours of credit).

He must take an oral qualifying examination and a final oral examination. All requirements must be completed within seven years. For the M.A. degree a reading knowledge of one foreign language is required.

Graduates of accredited colleges and universities who wish to take work in business administration, but who do not wish to become candidates for advanced degrees, may register in the Graduate School and be extended the privileges of classification as graduate students. Such students may take courses which best suit their individual needs, without regard for the requirements stated above.

For further information on graduate work, see GRADUATE SCHOOL.

Bureau of Business Research. The school maintains a Bureau of Business Research for the study of business problems related to the state of Oregon and to the Pacific Northwest. The entire staff cooperates in carrying on the work of the bureau. Studies are frequently undertaken at the request of businessmen and officials of the state. Graduate students and seniors assist in the study and solution of problems as a part of their training. The bureau publishes the OREGON BUSINESS REVIEW, a monthly periodical devoted principally to the analysis of current business and economic trends in Oregon and the Pacific Northwest.

The Foreign Trade Advisory Board assists the faculty in shaping the curriculum in foreign trade, and in planning and carrying out the program of the Bureau of Business Research. The members of the board are:

JOHN G. BARNETT, Portland.
 MARK BEACH, Seaport Shipping Company, Portland.
 CARTER BRANDON, Portland Chamber of Commerce.
 JOHN CHALMERS, Sudden & Christensen, Portland.
 HAROLD K. CHERRY, Portland.
 KENNETH C. COCHRAN, Bank of California, Portland.
 ARTHUR J. FARMER, Manager, Portland Chamber of Commerce.
 WENDELL GRAY, Attorney, Portland.
 CHARLES E. HANEY, Frank P. Dow and Company, Portland.
 LARRY HARRIS, Ames, Harris, Neville Company, Portland.
 ERLING JACOBSEN, Firemen's Fund Insurance Company, Portland.
 JOHN F. JOHANNSON, Hyster Company, Portland.
 WALTER JOHANNSON, United States National Bank, Portland.
 CAPTAIN D. J. MCGARTHY, Manager, Commission of Public Docks, Portland.
 A. C. NIELSEN, Interocean Steamship Corporation.
 VELMA SCHOLL, Jantzen Knitting Mills, Portland.
 RALPH W. SULLIVAN, United States Department of Commerce, Portland.
 WILLIAM L. WILLIAMS, American Mail Line, Portland.

Courses in Business Administration

LOWER-DIVISION COURSES

- BA 111, 112, 113. **Constructive Accounting.** 3 hours each term.
 Technique of account construction; preparation of financial statements. Application of accounting principles to practical business problems. Required of majors; prerequisite to advanced work in business. Pyle, staff.
- BA 221. **Elements of Organization and Production.** 4 hours any term.
 Principles of management as applied to commercial and industrial concerns.
- BA 222. **Elements of Finance.** 4 hours any term.
 The financial problems of corporations. Organization of corporations; how they obtain long-term funds; management of working capital; distribution of securities. Required of all majors. Prerequisite: BA 111, 112, 113.
- BA 223. **Elements of Marketing.** 4 hours any term.
 Methods, policies, and problems. Private and cooperative channels, auctions, exchanges, middlemen; demand creation, assembly, standardization, packaging, financing, risk taking, distribution. Required of all majors.

UPPER-DIVISION COURSES

BA 311. Retail Accounting. 3 hours.

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

BA 312. Principles of Cost Accounting. 3 hours fall.

Basic principles of cost accounting; departmentalization; expense allocation; designed for students interested in general business, as well as for accounting majors. Prerequisite: BA 111, 112, 113. Stillman.

BA 313. Analysis of Financial Statements. 3 hours.

Managerial accounting for effective management and control of industrial and trading concerns. Preparation, analysis, and interpretation of balance sheets and operating reports. Prerequisite: BA 111, 112, 113.

BA 323. Office Organization and Management. 2 hours spring.

Elements of office organization, office management, office records and systems. Special study of the office manager as an executive, and of his qualifications. Prerequisite: junior standing. Jones.

BA 339. Principles of Advertising. 3 hours any term.

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.

BA 371, 372, 373. Business Techniques for Teachers. 3 hours each term.

For prospective teachers of business subjects. Integrates the knowledge of various skills, such as typing, shorthand, office-machine operation, filing, bookkeeping, etc.; classroom problems; methods of instruction and materials in each teaching area. Demonstrations, lectures, laboratory work. Not open to students who have had SS 111, 112, 113, SS 121, 122, 123. Prerequisite: consent of instructor. Smith.

BA 401. Research. Terms and hours to be arranged.

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

BA 407. Seminar in Business Problems. (G) Hours to be arranged.

Prerequisite: BA 222, 223. Morris, staff.

BA 411. Business Public Relations. 3 hours.

Public relations of business firms; tools and techniques for determining public reactions; methods of securing good public relations. Open to nonmajors with consent of the instructor. Ford.

BA 412. Personnel Management. (G) 3 hours.

The place and significance of personnel management in the modern business organization; personnel policies and practices conducive to good relations with employees. Personnel problems of small organizations. Prerequisite: BA 222, 223.

BA 413. Wage and Salary Administration. (G) 3 hours.

Systematic wage and salary program as an essential part of an efficient personnel program. Basic methods for determining individual wage rates and wage structures; job evaluation. Prerequisite: BA 412.

BA 414. Problems in Personnel Management. (G) 3 hours.

Specific personnel problems at various organization levels. Each student proposes solutions, and group solutions are attempted through class discussion, in the light of various viewpoints and sound personnel principles. Prerequisite: BA 411, 412, and consent of instructor.

- BA 415. Regional Studies in Business.** (G) 3 hours fall or spring.
A study of the regional resources of the Pacific Northwest, as they are related to industry and commerce. Lomax.
- BA 416, 417, 418. Business Law.** (G) 4 hours each term.
Application of fundamental legal principles to typical business situations; illustrated by selected cases. The following topics are considered: contracts, bankruptcy, insurance, suretyship, sales, agency, personal property, real property, business organizations, partnerships, corporations, associations, trusts, joint stock companies, negotiable instruments. Robert.
- BA 421. Principles of Business Education.** (G) 3 hours.
Aims and objectives of business education; history, trends, issues; curriculum construction at high-school and junior-college levels; instructional problems; research in business education. Prerequisite: senior standing and consent of instructor. Smith.
- BA 422, 423. Problems in Business Education.** (G) 3 hours each term.
Examination of current literature and text materials. Work-experience programs; standards of achievement; guidance programs; placement and follow-up; in-service training for teachers; business entrance tests; evaluation of current methods; auditory and visual aids. Special attention in BA 423 to individual needs of students enrolled. Prerequisite: consent of instructor. Smith.
- BA 425. Real-Estate Fundamentals.** (G) 3 hours fall or winter.
Problems relating to the purchase, transfer, lease, and financing of land and buildings; home building, site selection, principles of house-and-lot evaluation. Open to nonmajors. L. R. Johnson.
- BA 426. Real-Estate Practice.** (G) 3 hours spring.
Application of the principles of land and building management from the standpoint of the broker and owner-operator; real-estate practices and institutions. Prerequisite: BA 425. L. R. Johnson.
- BA 427. Real-Estate Appraising.** (G) 3 hours winter.
Specific factors affecting the value of land and buildings; the effect of city structure, zoning, and city planning; demonstrations of various techniques in appraising; preparation of an appraisal report. Prerequisite: BA 425. L. R. Johnson.
- BA 428. Manufacturing.** (G) 4 hours fall or winter.
Manufacturing industries of the United States; their raw materials, processes, and current technological and marketing developments. Prerequisite: BA 222, 223. Lomax.
- BA 429. Production Management.** (G) 3 hours.
Nature and scope of production processes; economic, technological, regional, and managerial organization of production; plant location; design and layout; planning of plant investment; working-capital investment and labor costs; planning production operations. Prerequisite: BA 111, 112, 113; BA 222, 223. Ziebarth.
- BA 430. Problems in Production Management.** (G) 3 hours.
Analysis of cases representing actual problems in assembling and processing materials in a modern plant. Prerequisite: BA 429. Ziebarth.
- BA 432. Business Statistics.** 3 hours fall.
Emphasis on appreciation and understanding of statistical methods. Charts and tables; sampling; averages, time-series analysis; index numbers; a brief introduction to the concept of linear correlation. Ballaine.
- BA 433. Advanced Business Statistics.** (G) 3 hours winter.
Statistical techniques applied to business and economic data. Designed for

- professional training of business statisticians. Prerequisite: Mth 425, 426 or equivalent; BA 432. Ballaine.
- BA 434. Problems in Distribution.** (G) 4 hours fall or winter.
Critical study of marketing problems. Strength and weakness of various retail marketing channels; merits and limitations of wholesale marketing channels; extent and adaptability of direct marketing. Prerequisite: BA 223. Richins.
- BA 435. Sales Management.** (G) 4 hours winter or spring.
Structure of sales organizations; sales policies; control of sales operations; sales planning; market analysis; coordination of production and sales; selection, training, and management of salesmen. Prerequisite: BA 223. Dodge.
- BA 436. Retail Store Management.** (G) 4 hours fall or spring.
Retail policies and problems. Stock-control systems, buying, methods of sales promotion, plant operation, personnel, credit, turnover, pricing, expense classification and distribution. Prerequisite: BA 223. Dodge.
- BA 437. Credits and Collections.** (G) 3 hours spring.
The credit and collection policies of wholesale concerns, retail firms, and banks. Sources of credit information, use of agency reports, interpretation of financial statements; collection tools and their uses. Prerequisite: BA 222, 223. Ballaine.
- BA 438. Industrial Purchasing.** 3 hours fall or winter.
Forms of industrial and governmental buying organizations; source of goods, buyers' functions, purchasing procedures and methods, inspection, price policies. Prerequisite: BA 222, 223, or equivalent. Trueblood.
- BA 439. Retail Buying.** (G) 3 hours.
Buying problems. Merchandising organization, merchandise resources, determination of what and when to buy, model stock and buying plans, buying offices, group, central, and cooperative buying, techniques of selecting merchandise, trading points, and trade relations. Prerequisite: BA 436.
- BA 440. Advertising Production.** (G) 3 hours fall or winter.
Instruction in the technical aspects of advertising. Printing and engraving, lithography, rotogravure, silk-screen process, paper, ink, and color. Production planning of advertising material. Lectures and laboratory. Prerequisite: BA 339, J 311; or consent of instructor.
- BA 441. Radio-Television Advertising.** (G) 3 hours.
A study of the principles of radio-television advertising and the techniques involved. The place of broadcasting in modern advertising; methods of measuring audience, planning campaigns, writing copy, checking results. Prerequisite: BA 339.
- BA 442. Principles of Salesmanship.** (G) 3 hours spring.
Principles and techniques of personal salesmanship; selling reactions. From the standpoints of seller and buyer. Prerequisite: BA 223. Dodge.
- BA 443. Newspaper Advertising.** (G) 3 hours winter.
The organization and methods of the advertising department of newspapers and other publications. Prerequisite: BA 339.
- BA 444. Advertising Problems.** (G) 3 hours winter.
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: 9 hours in advertising or consent of instructor.
- BA 445. Retail Advertising.** (G) 3 hours.
Study of management problems of the retail advertising department. Advanced practice in layout, copy writing, and production of retail advertising for newspapers, radio, and direct mail. Prerequisite: BA 339. Not open to students who have had BA 441 or BA 443.

- BA 446, 447. Advertising Copywriting.** (G) 3 hours each term.
Training and practice in the art of writing advertising copy for various media. Study of diction, sentence structure, headlines and slogans, style. Lectures and laboratory. Prerequisite: BA 339.
- BA 448. Air Transportation.** (G) 3 hours.
Air transportation systems; Federal regulation; airport development in the United States; feeder air lines; nonscheduled air transportation. Prerequisite: BA 111, 112, 113; BA 222, 223. Ziebarth.
- BA 449, 450, 451. Industrial Traffic Management.** (G) 3 hours each term.
Organization of a traffic department; organization and services of rail, truck, and air lines; theory and application of freight rates; shipping documents; routing; materials handling; claims; classification and rate-committee procedure. Prerequisite: BA 222, 223; BA 450 prerequisite to BA 451. Ziebarth.
- BA 452. Advanced Industrial Traffic Management.** (G) 3 hours.
Application of the Interstate Commerce Act; preparation of cases before the Interstate Commerce Commission; practice and procedure before the I.C.C. Prerequisite: BA 451.
- BA 453. Business Policy.** (G) 3 hours fall.
Coordination of the specialized work given in the school; the interdependence of different departments of a business concern. Open to senior majors who have had or are taking Business Law. Prerequisite: BA 222, 223; Ec 201, 202, 203. Ziebarth.
- BA 454. Casualty Insurance.** (G) 3 hours fall.
Organization of companies, risks covered, and contracts, in accident insurance of all types. Automobile, plate glass, elevator, public liability, steam boiler, burglarly, robbery, forgery, etc. Trueblood.
- BA 455. Life Insurance.** (G) 3 hours winter.
Types of life insurance, contracts, rate making, reserves, selection of risks, life insurance and the state. Prerequisite: consent of instructor. Trueblood.
- BA 456. Property Insurance.** (G) 3 hours spring.
Nature of coverage, types of underwriters, types of contracts; analysis of the policy contract, special endorsements, and factors determining rates and adjustment of losses. Prerequisite: consent of instructor. Trueblood.
- BA 459. Finance Management.** (G) 5 hours winter or spring.
Financial problems involved in promotion, organization, obtaining permanent and working capital, bank loans, commercial-paper borrowing, management of earnings, administration policies. Prerequisite: BA 222, 223. Trueblood.
- BA 460. Financial Institutions.** (G) 3 hours winter.
Services, operations, and economic effects of financial institutions and government lending agencies with which businessmen come in contact. Emphasis on commercial banks. Ballaine.
- BA 463, 464, 465. Investments.** (G) 3 hours each term.
Methods for evaluating various kinds of investment securities; formulation of an investment policy. Detailed study of the special phases of investments, including taxation, brokerage services, and security markets. Application of investment principles to the analysis of specific securities in the industrial, public-utility, and railroad fields. Burrell.
- BA 466. Business Cycles.** (G) 3 hours fall.
Study of economic changes; classification and analysis of business-cycle theories. The availability, use, and limitations of business barometers in forecasting; their possible application to the business enterprise. Prerequisite: senior standing. L. R. Johnson.
- BA 467. Public-Utility Management.** (G) 3 hours spring.
Production, distribution, and finance problems of public utilities; rates, ac-

- counting methods, flotation of securities, public relations, and consolidations. Prerequisite: BA 222, 223. Ziebarth.
- BA 471, 472, 473. **Management of Ocean Shipping.** (G) 3 hours each term.
A year sequence in shipping economics and techniques. Fall: ocean-carrier organization; functions of the port engineer; operating problems related to fuels and power plants. Winter: functions of the terminal superintendent; harbor belt lines; foreign-trade zones; functions of the freight traffic manager; handling and stowage of cargo; papers and documents. Spring: chartering; freight forwarding; marine insurance. Prerequisite: BA 222, 223 or consent of instructor. Lomax.
- BA 474. **Foreign Exchange and International Finance.** (G) 3 hours spring.
An analysis of foreign-exchange principles and practices involved in the financing of export and import shipments. Ballaine.
- BA 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: special laws of foreign trade; market surveys. Prerequisite: BA 471, 472, 473 or consent of instructor. Lomax.
- BA 479, 480, 481. **Income-Tax Procedure.** (G) 2 hours each term.
Income-tax laws of the United States and the state of Oregon. Facts involved in making up the various returns: use of the various sources of information. Prerequisite: senior standing; BA 483, 484, 485 or equivalent.
- BA 482. **Social and Economic Aspects of Insurance.** 3 hours spring.
Study of the impacts of insurance upon the life of the people. Investments of insurance companies; creation and preservation of estates; economic and social effects of insurance. Prerequisite: BA 454, BA 455, or BA 456. Trueblood.
- BA 483, 484, 485. **Accounting Theory and Practice.** (G) 3 hours each term.
The theory of accounting records and statements; statements of affairs, depreciation, analysis of profit-and-loss accounts, receiverships, balanced-sheet construction and problems. Required of students majoring in accounting. Burrell.
- BA 486. **Municipal Accounts and Audits.** (G) 3 hours fall.
Principles of fund accounting and budgetary control. Oregon laws and decisions of the attorney general relative to accounts, finance, and auditing of municipalities. Audit procedures incident to municipal accounts. Stillman.
- BA 487, 488. **Advanced Cost Accounting.** (G) 3 hours each term, winter and spring.
Intensive study for students desiring to enter the field of cost accounting or other professional accounting work. Principles and cost procedures, with application to practical problems. Prerequisite: BA 312. Stillman.
- BA 489, 490, 491. **Advanced Accounting Theory and Practice.** (G) 3 hours each term.
Application of the technical phases of accountancy. Professional training in practical accounting theory and auditing. Prerequisite: BA 483, 484, 485. Required of accounting majors. C. E. Johnson, Soha.
- BA 492, 493, 494. **Auditing.** (G) 3 hours each term.
The auditing standards and procedures currently followed by public accountants; the working papers developed in connection with an audit; the various types of audit reports. Prerequisite: BA 483, 484, 485. C. E. Johnson, Soha.
- BA 496, 497, 498. **Internal Accounting.** (G) 3 hours each term.
Accounting systems, budgetary control, and the comptrollership functions in modern business. Designed for students who are planning to enter the field of private accounting. Prerequisite: BA 483, 484, 485. Soha.

GRADUATE COURSES

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

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

Examination and criticism of typical studies in business research. Methods of procedure adapted to various types of business problems.

BA 503. Graduate Thesis. Hours to be arranged.

BA 507. Graduate Seminar. Hours to be arranged.

BA 520, 521, 522. C.P.A. Problems. 5 hours each term.

Intensive study of problems and questions asked by examining boards and in the American Institute of Accountants examinations. Training in correct analysis and correct form and in speed in solving problems. Prerequisite: consent of instructor. C. E. Johnson.

COURSES OFFERED ONLY IN SUMMER SESSIONS AND EXTENSION

BA 419, 420. C.P.A. Problems. 2 hours each term (extension).

BA 499. Advanced Accounting Problems. (G) 3 hours (summer).

Courses in Secretarial Science

LOWER-DIVISION COURSES

SS 111, 112, 113. Stenography. 3 hours each term.

Gregg shorthand. 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. 4 recitations. Jones, Smith.

SS 121, 122, 123. Typing. 2 hours each term.

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

SS 211, 212, 213. Applied Stenography. 3 hours each term.

Development of speed in taking dictation and in transcription. Advanced phrasing and vocabulary. Intensive work with business letters, forms, and reports. Verbatim conference reporting. Jones, Smith.

Dental School

HAROLD J. NOYES, D.D.S., M.D., Dean of the Dental School.

TED RUSSELL, M.S., Business Manager and Registrar.

THOMAS H. CALAHAN, 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 in Portland, and incorporated the college into the Oregon State System of Higher Education as a school of the University. The North Pacific College of Oregon was the outgrowth of a merger in 1900 of the Tacoma Dental College (founded in 1893) and the Oregon College of Dentistry (founded in 1898).

The professional curriculum in dentistry offered by the University of Oregon Dental School leads to the degree of Doctor of Dental Medicine; it 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 academic years of didactic and clinical training, following a minimum of two academic years of preprofessional work in liberal arts at an accredited college or university. The University offers, on the Eugene campus, three-year and two-year preidental curricula which satisfy the admission requirements of the University of Oregon Dental School. See pages 95-96.

The Dental School also offers a two-year program of training for dental hygienists. Students completing this program may, by taking two additional years of work in the Eugene campus of the University, satisfy the requirements for the Bachelor of Science degree with a major in health education.

Detailed information concerning the faculty, facilities, requirements, and curriculum of the Dental School is published in a separate catalog. Copies of this catalog will be furnished on request. The Dental School is located at 809 N. E. Sixth Ave., Portland, Ore.

School of Education

PAUL B. JACOBSON, Ph.D., Dean of the School of Education.

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

Professors: C. E. AVERY, QUIRINUS BREEN, ALBUREY CASTELL, F. B. HAAR, C. W. HINTZ, C. L. HUFFAKER (emeritus), P. B. JACOBSON, J. R. JEWELL (emeritus), P. E. KAMBLY, P. A. KILLGALLON, R. C. MCCALL, E. M. PALLETT, F. L. STETSON (emeritus), D. E. TOPE, H. B. WOOD.*

Associate Professors: W. J. DIXON, A. C. HEARN, R. E. NYE, M. C. ROMNEY, A. A. SANDIN, V. S. SPRAGUE, R. S. VAGNER.

Assistant Professors: ELEANOR E. AHLERS, EXINE M. ANDERSON, T. O. BALLINGER, ELIZABETH FINDLY, E. E. HUMMEL, L. F. MILLHOLLEN, JOHN PIERCE-JONES, JESSIE L. PUCKETT, BERNICE RISE, J. F. RUMMEL, RUTH A. WILLARD.

Associates: E. R. ACKERMAN, D. J. ADAMS, HAROLD ALLISON, LOYD AMICK, GLENN APLIN, R. M. BARBER, GORDON BARRON, RUTH BEACON, SEVILLA BERREMAN, AGNES BEST, WILLIAM BISHOP, GEORGE BOEHM, NINA BOESON, WESTON BROCKWAY, E. L. BRUNS, RALPH BUNCH, J. P. BURCH, MICHAEL CALLAHAN, MADGE CHILCOTE, DOROTHY CHRISTENSEN, FEDERICA COONS, ROBERT CROSIER, ENA CUNNINGHAM, LAWRENCE DAGGETT, MILDRED B. DART, DONALD DEBROT, WILLIAM DEDMAN, BERYL DEFORD, DOROTHY DEVEAU, JESS DUNNING, WILMA EARNEST, MAECEL EDWARDS, MARJORIE ENGLISH, H. O. ERICKSON, JOAN FENNELLY, BURTON FILUT, R. M. FRANZ, OREN FREERKSEN, CLAIRE GIBSON, KENT GILL, EDNA GLINES, MARIE GROVES, GEORGE HADLEY, JOHN HALE, ZILDA HAYES, RUSSELL HENDRICKS, R. C. HENDRICKSON, LAUREL HJELTE, M. S. HOPPER, AMBROSE HUFF, HELEN L. HUGHES, LILIAS HYND, H. B. JOHNSON, WILLIAM JOHNSON, ERWIN JULFS, BERT KERNS, KENNETH KIENZLE, NINA Z. KITTS, MARY A. KRIDER, HENRY KUCHERA, NELLIE LAKE, LAVERNE LAMB, LOTTIE L. LAMB, HELEN M. LETTOW, CECELIA LONG, MARY MALLERY, J. C. MARTIN, LOUISE MASON, RENEE MASSON, MARCELLE MAYNARD, OLA McDERMOTT, GEORGE McELHOE, HELEN MCKENNEY, DUANE MELLEM, D. W. MICKELWAIT, BYRON MILLER, GRACE MILLER, ROBERT MOBLO, DAVID MORTIMORE, C. W. MULLALEY, B. E. NELSON, G. B. NELSON, GEORGE NIEMI, LOUISE NIMMO, NORMAN ODOM, RETTA OTTO, PAULINE PEARCE, ELDON PENTTILA, GEORGE PETERSON, LOLITA PIERSON, VIVIAN H. PITMAN, GERHARD POPPINGA, P. F. POTTER, MONTANA RICKARDS, BESSIE ROBERTSON, LENARD ROBERTSON, NORA ROBERTSON, F. J. ROMANO, MAXINE ROWAN, HARLEY SCHAEFER, ESTLEY SCHICK, LLOYD SEEMAN, KITTY L. SHAW, C. S. SHULDA, LYLE SMALL, EARL SMITH, ARDIS SORENSON, LOIS SPARKMAN, H. W. SPECHT, AMY L. SPENCE, GILBERT SPRAGUE, LOUISE SPRAGUE, MARY M. SWEENEY, MARIE TINKER, WILLIAM TWEEDIE, LLOYD WARD, CECIL WARNER, VIRGINIA WEST, ALAN WICKHAM, CHARLES WILBUR, HELOISE A. WILCOX, WILLIAM WILLIAMS, VEOLA WILMOT, CORA WIPER, WILLIAM WOODIE, WANDA YARBROUGH, JOSEPH YOSELOFF.

Instructors: ABBY ADAMS, W. E. BURKE, R. C. COLLINS, R. M. HARRISON, V. E. KERLEY, SYLVY A. KRAUS, R. W. MALLERY, H. O. PALMER, MILDRED E. WILLIAMS.

Fellows: HENRY BAICH, CORNELIUS CREMER.

Interns: H. A. BEALL, R. M. ESVELT.

* On sabbatical leave 1953-54.

Assistants: PAUL BETTEN, A. G. ERICKSON, KEITH GOLDHAMMER, A. J. HAGEN, M. L. HAGGARD, G. L. LEFFERTS, T. E. MORIARTY, THEODOR NAUMANN, F. C. OSGOOD, J. A. PORTER, D. G. RENNICKE, MILDRED C. SCHMIDT.

BY ACTION of the Oregon Legislature and the State Board of Higher Education in 1953, an expanded program of teacher education has been established in the state of Oregon, providing programs at both the elementary and secondary levels at the University of Oregon, Oregon State College, Oregon College of Education, Southern Oregon College of Education, and Eastern Oregon College of Education; upper-division work in teacher education has also been authorized at the Portland State Extension Center, the elementary work to begin in the fall of 1954, the secondary in the fall of 1955.

In addition to undergraduate and graduate work in elementary and secondary teacher education, the School of Education of the University of Oregon offers instruction, principally at the graduate level, in the fields of school administration, special education, and higher education, and a series of courses providing basic professional training for school librarians.

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 register 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—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 and for students with a definite, mature interest in educational administration. 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 32-hour professional requirement for secondary certification. Clinical Methods in Psychology (Psy 421, 422) may be counted both toward the major requirement and toward the certification requirement.

Graduate Program. Professional work in education beyond the undergraduate courses required for certification is offered principally at the graduate level. Programs of specialized graduate study are offered in: school administration and supervision, remedial and diagnostic work in reading and other phases of the education of handicapped children, curriculum and instruction, elementary education, secondary education, higher education, educational psychology, 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. If his program is properly planned, the student may

qualify, on the completion of the fifth year, for the degree of Master of Science in General Studies or for a departmental master's degree with a major in a subject field or in education.

Bureau of Educational Research. Through the Bureau of Educational Research the faculty of the School of Education investigates educational problems, frequently at the request of school officials. The bureau is often called upon for advice concerning educational tests and their use. School systems are aided in the study of their peculiar problems. Expert building and financial surveys are made for various cities and counties of Oregon. Cooperative testing programs have been established in several of the larger systems of the state.

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 materials suitable for use in the classroom; (5) selected professional books on the curriculum; (6) bibliographies on various phases of the public-school curriculum.

Through the Curriculum Laboratory, the School of Education provides consultant services on curriculum problems to the school systems of Oregon, by means of extension courses, curriculum and evaluation surveys, and curriculum conferences.

Teacher Placement Service. A Teacher Placement Service is maintained by the School of Education for the placement of graduates of the University in teaching and administrative positions in the public schools. The Placement Service compiles and makes available to school officials full information concerning the preparation and experience of graduates. The Placement Service also furnishes to students information concerning the certification requirements and school laws of other states, and recommends graduates for certification in other states, on the endorsement of the dean of the School of Education and the University Registrar. The following fees are charged by the Placement Service:

Registration fee	\$5.00
Reregistration fee	2.50
Charge for late registration	1.00
Charge for late payment of registration fee	1.00
Credential fee .....	.25

Payment of the \$5.00 registration fee entitles the registrant to the services of the Teacher Placement Service for one appointment season only. A \$2.50 fee is charged for reregistration. Since calls for teachers begin very early in the spring, registration in January or February is advisable, to insure maximum benefits.

The credential fee is charged if credentials are sent at the request of the applicant, but not if they are sent at the initiative of the Placement Service or at the request of a prospective employer.

Elementary Education

IN THE field of elementary education, the University offers: (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 curriculum must include the following:

(1) Six term hours of elementary supervised teaching (grades 1 to 8, or grades 7, 8, and 9 when supervised teaching is done in a regularly organized junior high school).

(2) Two term hours in Oregon history.

(3) Two term hours in Oregon school law and system of education.

(4) Specific preparation in the fields designated by the Superintendent of Public Instruction for the elementary teacher-training curriculum.

The program recommended by the University for the satisfaction of these requirements is as follows:

Lower Division		Term hours
Literature		9
Fundamentals of Speech (Sp 111).....		3
General Biology (Bi 101, 102, 103).....		12
Essentials of Physics (Ph 101).....		4
Elements of Algebra (Mth 10).....		3
History of the U.S. (Hst 201, 202, 203).....		9
Introductory Geography (Geog 105, 106, 107).....		9
General Psychology (Psy 201).....		3
Use of the Library (Lib 117).....		1
Physical-education activities (professional).....		6
Orientation to Teaching (Ed 111).....		1
School in American Life (Ed 311).....		3
Psychological Foundations of Teaching (Ed 312, 313).....		8
Field Experience (Ed 330).....		2

Upper Division		
Creative Art & Crafts for Elementary Teachers (ArE 311, 312, 313).....		9
Music for Elementary Teachers (MuE 370, 371).....		6
Music Methods for Elementary Teachers (MuE 372).....		3
Personal Health Problems (HE 362).....		3
Elementary-School Health Education (HE 450).....		3
Physical Education in the Elementary School (PE 460).....		3
Social Foundations of Teaching (Ed 317, 318).....		6
The Child & his Curriculum (Ed 331, 332, 333).....		15
Oregon School Law & System of Education (Ed 316).....		2
Oregon History (Hst 377).....		2
Supervised teaching		12
Seminar (Ed 407)		2

Graduate Program. The University's program of graduate study in elementary education is planned to suit 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.

Secondary Education

IN THE field of secondary education, the University of Oregon offers: (1) programs of study which satisfy the secondary-teacher certification requirements of Oregon and other states; and (2) graduate work leading to advanced degrees.

Certification Program. Two types of secondary-teacher certification are recognized in Oregon: (1) provisional certification and (2) regular certification. The requirements are as follows:

Provisional Certification. Provisional certification is granted upon the completion of the requirements for a baccalaureate degree from a standard college, university, or teachers college qualified to prepare teachers for secondary-school teaching in the state of Oregon. The student's undergraduate program must include the 17 term hours in education listed below under regular certification requirement (2) and Oregon History (Hst 377).

Provisional certification may be continued over a maximum period of five years; during each of these five years the teacher must earn not less than 9 term hours in college courses, at the upper-division or graduate level, toward the satisfaction of the fifth-year requirement for regular certification.

More detailed information concerning regulations governing provisional certification may be obtained from the School of Education.

Regular Certification. To be eligible for regular certification, the applicant must have completed:

(1) A total of 45 term hours of upper-division or graduate work, after meeting the requirements for the baccalaureate degree.

(2) A minimum of 32 term hours of work in education, of which 17 term hours must be undergraduate and 9 graduate work. The undergraduate work must be distributed as follows:

	Term hours
School in American Life (Ed 311).....	3
Psychological Foundations of Teaching I (Ed 312).....	4
Principles of Teaching (Ed 314) or Special Methods (Ed 408).....	3
Supervised Teaching (Ed 415).....	6
Oregon School Law & System of Education (Ed 316).....	2

(3) Oregon History (Hst 377).

(4) A minimum of 3 hours in General Psychology (prerequisite to Ed 312).

Sequence of Courses. The courses required for certification as a high-school teacher should be taken in the sequence indicated below. The order should be varied only with the approval of the School of Education. It should be noted that, because of required prerequisites and sequential arrangement of certification courses, it is not possible to complete the 32 term hours of professional work in less than four terms; students are advised to spread the work over six terms or more.

Junior Year—School in American Life (Ed 311), fall or winter term; Psychological Foundations of Teaching I (Ed 312), fall or winter term; Principles of Teaching (Ed 314) or Special Methods (Ed 408), spring term; Principles (Hst 377).

Senior Year—Oregon School Law and System of Education (Ed 316).

Senior or Graduate Year—Supervised Teaching (Ed 415).

Graduate Year—Education electives, 9:15 hours during year.

Graduate Program. 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 need of both teachers and administrators.

Many students, while meeting the fifth-year requirement for regular secondary teacher certification, find it possible to satisfy, at the same time, the requirements for the degree of Master of Science in General Studies or for a departmental master's degree in a subject field or in education.

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. To insure better opportunities for placement, it is desirable that students intending to teach qualify for the supervision of an extracurricular activity and, if possible, for teaching in a third subject field.

One of the student's subject fields must be a field in which the University offers supervised teaching, namely: art, biological science, business, chemistry, English, French, general science, German, health education, journalism, Latin, library, mathematics, music, physical education, physics, social science, Spanish, or speech. Exceptions to this requirement may be made in the case of students transferring from other institutions, who have completed courses in special methods and supervised teaching before entering the University.

ART

MINIMUM REQUIREMENTS OF STATE BOARD OF EDUCATION	ADDITIONAL COURSES TO MEET UNIVERSITY STANDARDS
No State Board of Education requirements.	Basic Design (AA 195)..... 6
	L.D. Painting (AA 290) <i>or</i>
	L.D. Drawing (AA 291)..... 6
	L.D. Ceramics (AA 255)..... 4
	Art Educ. (ArE 314, 315, 316)..... 9
	Art Educ. (ArE 414, 415, 416)..... 9

BIOLOGICAL SCIENCE

Biology: 18 term hours. Requirement should be satisfied with selections from the following courses:

General Biology (Bi 101, 102, 103) <i>or</i> Biol. Sc. (Soph. Honors) (GS 201, 202, 203)..... 12
Upper-division biology courses 6

Total of 28 term hours in upper-division biology courses, including:

Animal or plant morphology & systematics 12
Ecology 4
Genetics 4
General physiology 4

BUSINESS

Commerce: shorthand, 18 term hours; typing, 6 term hours; bookkeeping, 9 term hours; commercial law, 6 term hours; general business, 18 term hours, including 9 term hours in economics, 6 term hours in general basic business courses, and 3 term hours in merchandising and selling or equivalent (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 Stenog. (SS 211, 212, 213)..... 9
Typing (SS 121, 122, 123)..... 6
Const. Account. (BA 111, 112, 113)..... 9
Office Org. & Mgt. (BA 323)..... 2
Business Law (BA 416, 417)..... 8
Princ. of Econ. (Ec 201, 202, 203)..... 9
Elements of Finance (BA 222)..... 4
Elements of Marketing (BA 223)..... 4

Principles of Business Education (BA 421) 3
Problems in Business Education (BA 422, 423)..... 6

CHEMISTRY

MINIMUM REQUIREMENTS OF STATE BOARD OF EDUCATION

Chemistry: 12 term hours. The requirement should be satisfied with:

Elementary Chemistry (Ch 101, 102, 103)
or General Chemistry (Ch 201, 202,
203)12

ADDITIONAL COURSES TO MEET UNIVERSITY STANDARDS

Elem. Quant. Analysis (Ch 320).....4-5
Intro. Organic Chcm. (Ch 331, 332)..... 8

ENGLISH

English: 36 term hours, including at least 9 term hours each in composition and literature, and suitable methods courses; it is recommended that courses in speech, drama, and journalism be included in the preparation. Requirement should be satisfied with the following courses:

Eng. Comp. (Wr 111, 112, 113)
(two terms) 6
Survey of Eng. Lit. (Eng 101, 102, 103)
or Apprec. of Lit. (Eng 104, 105, 106)
or Intr. to Lit. (Eng 107, 108, 109)..... 9
Shakespeare (Eng 201, 202, 203) (two
terms) 6
Eng. Comp. for Teachers (Wr 311)..... 3
Survey of American Lit. (Eng 261, 262,
263) (two terms) or Lit. Found. of
American Life (Eng 475, 476, 477)
(two terms) 6
Fund. of Speech (Sp 111 or Speech for
Class. Teachers (Sp 411)..... 3
Play Direction (Sp 364)..... 3
Credit in Corrective Eng. (Wr 10) is not ac-
cepted toward the satisfaction of the require-
ment.

Lit. for Teachers (Eng 488)..... 3
Upper-division courses in English literature,
as follows:

Periods 6
Types 6
Authors 6
If the student takes Eng 475, 476, 477,
Modern Spirit in American Lit. (Eng
478, 479, 480) (two terms)..... 6
Six term hours in speech courses (from those
listed below):
Theater Prin. (Sp 261), Prod.
Workshop (Sp 254)..... 3
Argument, Discussion & Persuasion
(Sp 321, 322, 323)..... 9
Theory & Lit. of Pub. Speaking (Sp 301) 3
Play Direction (Sp 365)..... 3
Speech Defects (Sp 481, 482)..... 6

FRENCH

Foreign Languages: the equivalent of 30 term hours of college preparation in each language to be taught. The requirement in French should be satisfied with:

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 320, 321, 322)
(two terms) 4

For students who have not studied French in high school:

First-Year French (RL 1, 2, 3).....12
Second-Year French (RL 101, 102, 103)....12
Fr. Pron. & Phonetics (RL 320, 321, 322)
or Inter. Fr. Comp. (RL 314, 315, 316).... 6

Adv. French Comp. (RL 467, 468, 469)..... 6
French Cult. & Civil. (RL 429, 430, 431).... 9

GENERAL SCIENCE

Elementary Science: 24 term hours in the natural sciences, including at least 9 term hours in physical science and 9 term hours in biological science. The requirement should be satisfied with:

Year sequence in biology.....12
Year sequence in physics or chemistry.....12

Year sequence in physics (if chemistry taken for state requirement) or chemistry (if physics taken for state requirement)12
Additional year sequence in science
(geology recommended)12

GERMAN

MINIMUM REQUIREMENTS OF STATE BOARD
OF EDUCATION

See State Board requirements under *French*. The requirement in German should be satisfied with:

First-Year German (GL 1, 2, 3).....	12
Second-Year German (GL 101, 102, 103).....	12
Ger. Conv. & Comp. (GL 334, 335, 336).....	6

ADDITIONAL COURSES TO MEET
UNIVERSITY STANDARDS

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

Health Education: 12 term hours. The minimum requirement may be satisfied with the following:

Health-Ed Workshop (HE 411, 412, 413).....	9
First Aid (HE 252).....	3

These courses are recommended for the student who satisfies only the minimum requirement of the State Board of Education. They are not part of or prerequisite to the recommended program listed in the column to the right.

General Biology (Bi 101, 102, 103).....	12
Intro. to Bacteriology (Bi 311).....	3
Princ. of Dietetics (HEc 225).....	2
Community H. Problems (HE 361).....	3
Personal H. Problems (HE 362).....	3
Com. & Noncom. Diseases (HE 363).....	3
Health Instruction (HE 464).....	3

HOME ECONOMICS

Home Economics: 24 term hours. The requirements 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

One course from the following group:

Home Plan. & Furnish. (HEc 331).....	3
Textiles (HEc 125).....	2
Princ. of Dietetics (HEc 225).....	2
Family Relationships (HEc 222).....	2

Supervised teaching in home economics is not offered at the University.

JOURNALISM

No State Board requirements.

Mech. of Publish. (J 311).....	3
Typography Lab. (J 313).....	1
Reporting (J 331).....	3
Princ. of Advert. (J 339).....	3
Copyediting (J 434).....	3
Hist. of Journ. (J 428) or Public Opinion (J 429).....	3
Supervision of Sch. Pub. (J 489).....	3

LATIN

See State Board requirement under *French*. The requirement in Latin should be satisfied with:

First-Year Latin (CL 4, 5, 6).....	12
Second-Year Latin (CL 104, 105, 106).....	12
Latin Lit.: Ovid (CL 344, 345, 346) (two terms).....	4

Adv. Latin Grammar (CL 340).....	3
Latin Lit.: Ovid (CL 344, 345, 346) (additional term).....	2
Latin Lit.: Augustan Age (CL 204, 205, 206 or CL 331, 332, 333) (two terms).....	6
Lit. of Anc. World (AL 304, 305, 306).....	9

LIBRARY

Library: 9-12 term hours training in library science, including book selection, cataloging, and library administration. The requirement should be satisfied with:

Elemen. Biblio. (Lib 381).....	3
Book Sel. & Evaluation (Lib 382).....	3
Org. of Lib. Materials (Lib 386).....	3
Sch. Lib. Administration (Lib 484).....	3

No additional courses.

MATHEMATICS

MINIMUM REQUIREMENTS OF STATE BOARD OF EDUCATION

Mathematics: 15 term hours of college mathematics qualifies for the teaching of any secondary-school mathematics courses; teachers assigned to seventh, eighth, or ninth-grade mathematics may qualify if they have completed 4 term hours of college mathematics; teachers assigned to first-year algebra may qualify if they have completed intermediate algebra at the college level; a methods course in mathematics is recommended. Requirement should be satisfied with:

- Intermed. Algebra (Mth 100)..... 4
- College Algebra (Mth 105), Plane Trig. (Mth 106), Analyt. Geometry (Mth 107); or Essentials of Math. (Mth 101, 102, 103).....12

Mth 10 and Mth 20, 21, 22 carry college credit, but cannot be counted toward the minimum requirement.

No State Board requirement.

ADDITIONAL COURSES TO MEET UNIVERSITY STANDARDS

- Diff. & Int. Calculus (Mth 201, 202)..... 8
- Adv. College Algebra (Mth 314) or Algebra (Mth 479)..... 3
- Adv. Euclid. Geometry (Mth 415) or Geometry (Mth 489)..... 3
- Additional upper-division courses (special teachers' courses in algebra, geometry, and foundations, offered in summer sessions, are especially recommended) 6

MUSIC

Vocal

- Music Theory (Mus 111, 112, 113) or Applied Theory (Mus 434, 435, 436)....9-12
- Music Educ. (MuE 318 or 319)..... 3
- Choral Conducting (MuE 323, 324, 325).... 6
- Choral Union (Mus 197, Mus 397)..... 2
- Intro. to Music (Mus 201, 202, 203)..... 9
- Applied Music: The student must be able to demonstrate ability in singing and in playing accompaniments.

Instrumental

- Music Theory (Mus 111, 112, 113) or Applied Theory (Mus 434, 435, 436)....9-12
- Instrument. Conduct. (MuE 320, 321, 322) 6
- Orchestra (Mus 396) or Band (Mus 395) 2
- Wind & Percussion Instruments I (MuE 235, 236, 237) or Stringed Instruments (MuE 332, 333, 334)..... 3
- Intro. to Mus. (Mus 201, 202, 203)..... 9
- Applied Music: The student must demonstrate adequate playing ability upon a melodic stringed or wind instrument.

PHYSICAL EDUCATION

Physical Education: 12 term hours. The minimum requirement may be satisfied with the following:

- P.E. Workshop (PE 411, 412, 413)..... 9
- Coaching courses3

These courses are recommended for the student who satisfies only the minimum requirement of the State Board of Education. They are not part of or prerequisite to the recommended program listed in the column to the right.

Men

- Body Move. & Conditioning (PE 127)..... 2
- Tumbling & Apparatus (PE 128)..... 2
- Track & Field (PE 129)..... 2
- Aquatics (PE 227)..... 2
- Wrestling (PE 428)..... 2
- Team Sports (PE 427)..... 2
- Coaching 6
- Class Techniques (PE 342)..... 3
- Princ. & Prac. of P.E. (PE 341)..... 3
- School Program (PE 445)..... 3

Women

- P.E. Activities (PE 224, 225, 226)..... 6
- P.E. Activities (PE 424, 425, 426)..... 6
- First Aid (HE 252)..... 3
- Prin. & Pract. of P.E. (PE 341)..... 3
- Class Techniques (PE 342)..... 3
- Org. & Admin. of P.E. (PE 343)..... 3
- School Program (PE 445)..... 3

PHYSICS

MINIMUM REQUIREMENTS OF STATE BOARD OF EDUCATION

Physics: 12 term hours. The requirement should be satisfied with:
 Gen. Physics (Ph 201, 202, 203).....12
 Prerequisite: math. through trigonometry.

ADDITIONAL COURSES TO MEET UNIVERSITY STANDARDS

Mod. Physics (Ph 411, 412, 413) or Electricity & Electronics (Ph 431, 432, 433)9-12
 Prerequisite: mathematics through calculus.

SOCIAL SCIENCE

Social Studies: for all social-studies teachers, 9 term hours in United States history and 9 term hours in history of Western civilization or equivalent—in addition, for ninth- and tenth-grade social-studies teachers, 8 term hours in geography; for eleventh-grade social-studies teachers, 6 term hours in political science; for twelfth-grade social-studies teachers, 6 term hours in economics, 6 term hours in sociology, 6 term hours in political science; a methods course in social studies is recommended. The following courses satisfy these requirements:

Hist. of U.S. (Hst 201, 202, 203).....	9
Hist. of West. Civil. (Hst 101, 102, 103) or Europe since 1815 (Hst 341, 342, 343)	9
Intro. Geog. (Geog 105, 106, 107) or Econ. Geog. (Geog 201, 202, 203).....	9
American Govts. (PS 201, 202).....	6
Princ. of Econ. (Ec 201, 202).....	6
Gen. Soc. (Soc 204, 205).....	6

Eighteen additional term hours in the social sciences recommended by the student's adviser (upper-division courses preferred).

SPANISH

See requirements under *French*. The requirement in Spanish should be satisfied with:

Second-Year Spanish (RL 107, 108, 109)....	12
Spanish Lit. (RL 207, 208, 209 or RL 341, 342, 343).....	9
Inter. Span. Comp. (RL 347, 348, 349).....	6
Adv. Span. Comp. (RL 461, 462, 463) (two terms)	4

For students who have not studied Spanish in high school:

First-Year Spanish (RL 11, 12, 13).....	12
Second-Year Spanish (RL 107, 108, 109)....	12
Inter. Span. Comp. (RL 347, 348, 349).....	6

Adv. Spanish Comp. (RL 461, 462, 463).....

6

SPEECH

See State Board requirements in *English*.

Fund. of Speech (Sp 111) or Speech for Class. Teacher (Sp 411).....	3
Theater Prin. (Sp 261), Prod. Workshop (Sp 264); or Technique of Acting (Sp 351)	3
Argument, Discuss. & Persuas. (Sp 321)....	3
Radio Workshop (Sp 341).....	2
Play Direction (Sp 364).....	3
Phonetics (Sp 370) or Speech Science (Sp 371) or Speech Defects (Sp 481 or 482)	3
Additional 7 term hours in speech courses and 12 term hours in supporting courses in another department, selected with as- sistance of adviser	19

Special Education

THROUGH the DeBusk Memorial Clinic, named for its founder and first director, the late Dr. Burchard W. DeBusk, the School of Education offers instruction designed: (1) to help classroom teachers to meet the special needs of handicapped children in their regular classes; (2) to provide partial preparation for remedial-reading teachers and specialists in the education of handicapped children; and (3) to satisfy, in part, the course requirements for the Oregon special-education certificate. The certificate, issued by the State Superintendent of Public Instruction, is granted to teachers qualified to deal with all classes of handicapped or maladjusted children or children with extreme learning problems.

For the Oregon special-education certificate, a total of 42 term hours of work in education and related fields is required, including 6 term hours in general education courses and 36 term hours in special education. Training in certain areas is specified. The following University courses satisfy these requirements:

General education:	Term hours
Psychological Foundations of Teaching I (Ed 312).....	3
School in American Life (Ed 311).....	3
Psychology of Adjustment (Psy 204).....	3
Psych. of Infancy & Childhood (Psy 460).....	3
 Special education:	
Psychology of Exceptional Children (Ed 462).....	3
Seminar: Teachers' Use of Social Agencies (Soc 407).....	3
Clinical Methods in Psychology (Psy 421, 422, 423).....	9
Diagnostic & Remedial Techniques (Ed 465).....	3
Psycho-Educational Clinic (Ed 409).....	6
The Maladjusted Child (Ed 463).....	3
The Mentally Handicapped Child (Ed 464).....	3
Speech Defects & Disorders (Sp 481, 482).....	6

Educational Administration

THE University of Oregon offers a comprehensive program of graduate study in the field of school administration, including 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. This act became effective on July 1, 1952; persons employed in administrative capacities in the Oregon schools before that date must qualify for administrative certification not later than July 1, 1956. The requirements for the several types of 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. (3) A master's degree from a standard college or university. (4) Twelve term hours of credit, beyond the master's degree, in courses related to school administration, organization, and supervision. (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).....	3
Curriculum Construction (Ed 566); or Curriculum Foundations (Ed 565); or Secondary-School Curriculum (Ed 522) and Elementary-School Curriculum (Ed 553)	3-7

Administrative Principal's Certificate. (1) A regular Oregon teacher's certificate, either elementary or secondary. (2) Four years of teaching or administrative experience at the elementary and secondary levels. (3) A master's degree from a standard college or university. (4) The graduate courses listed above as required for the superintendent's certificate.

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 credit, beyond the master's degree, in courses related to school administration, organization, and supervision. (5) The following graduate courses:

	Term hours
Secondary-School Administration & Supervision (Ed 527).....	3
School Supervision (Ed 574).....	3
School Finance (Ed 575).....	3
Curriculum Construction (Ed 566); or Curriculum Foundations (Ed 565); or Secondary-School Curriculum (Ed 522) and Elementary-School Curriculum (Ed 553).....	3-7

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 bachelor'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).....	3
School Finance (Ed 575).....	3
Curriculum Construction (Ed 566); or Curriculum Foundations (Ed 565); or Elementary-School Curriculum (Ed 553) and Secondary-School Curriculum (Ed 522).....	3-7

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).....	3
Curriculum Construction (Ed 566); or Curriculum Foundations (Ed 565); or Elementary-School Curriculum (Ed 553) and Secondary-School Curriculum (Ed 522).....	3-7

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 311 and Ed 312 are prerequisite to all 400 and 500 courses in education, unless an exception is indicated in the course description. In admitting students to these courses, the faculty of the School of Education gives additional consideration to psychological rating and teaching personality, and, in doubtful cases, to marked improvement in scholarship during the junior year.

General Education

LOWER-DIVISION COURSE

Ed 111. Orientation to Teaching. 1 hour.

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. Willard.

UPPER-DIVISION COURSES

Ed 311. The School in American Life. 3 hours.

Education as a career; function of education in a democracy; curriculum and organization of schools; current educational trends and contemporary problems; financing public education; the characteristics, needs, and interests of pupils by age groupings; general principles of growth and learning, and relation to current practices. Kambly.

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

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

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

Theoretical and practical study of learning and of factors affecting learning by children and youth in school. Theories of learning, motivation, guidance; learning activity, transfer, evaluation of achievement; principles of learning applicable to learners of varying levels of maturity. Laboratory training in observation and analysis of the teaching-learning situation from a psychological viewpoint. Prerequisite: Psy 201; Ed 312. Pierce-Jones.

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

Oregon laws applying to schools and teachers; teacher personnel policies and practices; professional organizations; means for continued professional growth.

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 implications of children's out-of-school activities and problems; community beliefs and practices, and their relation to the school curriculum.

Ed 405. Reading and Conference. Hours to be arranged.**Ed 408. Seminar.** Hours to be arranged.**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.

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 490. 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. Hearn.

GRADUATE COURSES

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

Ed 501. **Educational Research.** Hours to be arranged.

Members of the faculty supervise research by qualified graduate students. Prerequisite: graduate standing in education; consent of instructor.

Adult Education—Hummel.
College Teaching—Wood.
Curriculum, Instruction—Wood.
Educational Psychology—Pierce-Jones
Elementary Education—Sandin.
History of Education—Breen.
Measurements—Rummel.
Philosophy of Education—Castell.

Psycho-Educational Problems—Killgallon.
Pupil Evaluation—Rummel.
School Administration—Jacobson, Romney.
Science Education—Kambly.
Secondary Education—Jacobson, Hearn.
Teacher Education—Kambly.

Ed 503. **Thesis.** Hours to be arranged.Ed 505. **Reading and Conference.** Hours to be arranged.Ed 507. **Education Seminar.** Hours to be arranged.Ed 508. **Workshop.** Hours to be arranged.

Opportunity for group work on special problems.

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. 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. Prerequisite: graduate standing. Dixon, Rummel.

Ed 529. **Advanced Educational Psychology.** 3 hours winter.

Review of some modern viewpoints in educational psychology; discussion of useful experimental material. Prerequisite: graduate standing in education. Pierce-Jones.

Ed 543. **History of American Education.** 3 hours.

The intellectual development of the United States, with special reference to education. Open to seniors on consent of instructor. Prerequisite: knowledge of American history.

Ed 546. **Philosophy of Education.** 3 hours.

Study of the broad fundamental principles and problems of education, as evaluated by the various schools of philosophical thought. 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. Wood.

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. Wood.

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 and community survey. Wood.

Ed 571. Affective Phases of Education. 3 hours.

The nature of appreciations, attitudes, and ideals; their significance as factors of the personality and for social intelligence and social integration. Methods of developing these personality factors.

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 450. Radio Education. (G) 3 hours (extension and summer sessions).**Ed 481. Alcohol Studies in the School Curriculum.** (G) 3 hours (extension and summer sessions).**Ed 482. Intercultural Education.** (G) 3 hour (extension and summer sessions).**Ed 493. Utilization of Regional Resources.** (G) 3 hours (extension and summer sessions).**Elementary Education**

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 organizations in the Eugene area.

Ed 331. The Child and his Curriculum: Language Arts. 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.

Ed 332. The Child and his Curriculum: Arithmetic, Children's Literature. 5 hours.

Arithmetic and children's literature in the elementary-school program. Types of instruction, criteria for selection, placement, and organization of content.

Ed 333. The Child and his Curriculum: Social Studies, Science. 5 hours.

Social studies and science in the elementary-school curriculum. Ways of developing basic concepts in human relationships and community living. Emphasis on the effective use of instructional media and on related problems of method, such as effective reading in science and social studies, provision for individual differences, cultivation of critical thinking, provision for growth and retention, and methods of evaluating results of instruction.

Ed 413. Preprimary Education. 3 hours.

Review of the development of children, age five through eight. Program planning; group behavior; the place of the teacher; equipment, activities, books, and music for these age levels.

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

Growth of behavior during the prenatal period, infancy, and childhood. Development of muscular activities, perception, emotional adjustment, intelligence, language, and social behavior in childhood. Pierce-Jones, Pinneau.

GRADUATE COURSES

Psy 460 may also 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. For experienced teachers. 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. Willard.
- Ed 552. Elementary-School Problems.** 4 hours.
Selected current problems; issues and theories of elementary education; characteristics of modern teaching; major trends in elementary education. 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.
The role, duties, needs, and problems of modern supervision, including the evaluation and improvement of the teaching-learning situation. Sandin.

COURSES OFFERED ONLY IN EXTENSION AND SUMMER SESSIONS

- Ed 455. Primary-Education Workshop.** (G) 5 hours (extension).
- Ed 459. Intermediate and Upper-Grade Education (Workshop).** (G) 5 hours (extension).
- Ed 478. Improvement of Instruction in Reading.** (G) 3 hours (extension).
- Ed 492. Recent Trends in Language Arts.** (G) 3 hours (extension and summer sessions).

Secondary Education

UPPER-DIVISION COURSES

- Ed 314. Principles of Teaching.** 3 hours any term.
Study of the actual classroom teaching process, including classroom organization and management, planning teaching units, evaluating pupil learning, and similar problems. Prerequisite: Ed 311, Ed 312. Kambly.
- Ed 408. Special Teaching Methods.** 1 to 3 hours any term.
Six hours maximum allowed toward education requirement for certification. Not more than 3 hours credit may be earned in any one field. Prerequisite: Ed 311, Ed 312.

Art—Mallery.
 Commerce—Palmer.
 English—Kraus.
 Foreign Language—Adams.
 Health, Physical Education—
 Puckett, Sprague, Burke.

Mathematics—Kerley.
 Music, Instrumental—Vagner.
 Music, Vocal—Nye, Harrison.
 Science—Collins.
 Speech—McCall.
 Social Studies—Williams.

Ed 415. **Supervised Teaching.** 1-12 hours any term (12 hours maximum credit). Supervised experience in the many phases of actual teaching. Students should plan their programs so that one-half day for one term may be devoted to supervised teaching. Prerequisite: Ed 311, Ed 312; Ed 314 or Ed 408. Kambly.

Psy 461. **Psychology of Adolescence.** (g) 3 hours.

Study of the behavior changes during pre-adolescence and adolescence as related to physiological development and social and cultural factors. Emphasis on personal and social adjustment. Intended to follow Psy 460. Pierce-Jones, Pinneau.

GRADUATE COURSES

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

Ed 522. **Secondary-School Curriculum.** 3 hours.

An advanced course for experienced teachers. The school in the community; guidance activities in the school; extraclass activities; the role of the school in contemporary society; the teacher in the local community. Wood.

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 525. **Pupil Personnel Programs.** 3 hours.

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

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. 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.

COURSES OFFERED ONLY IN EXTENSION

Ed 453. **Secondary-Education Workshop.** (G) 5 hours.

Special Education

UPPER-DIVISION COURSES

Ed 409. **Psycho-Educational Clinic.** (G) Hours to be arranged (9 hours maximum credit).

Practice, under supervision, in diagnostic and remedial treatment of learning-disability cases at elementary, high-school, and college levels. Prerequisite: Ed 465. Killgallon.

Ed 462. Psychology of Exceptional Children. (G) 3 hours.

Survey of characteristics and problems of all types of exceptional children, with special emphasis on those with sensory handicaps; consideration of essential educational adaptations. Killgallon.

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.

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

Identification and guidance of the mental deficient, the slow learner, and the gifted. Killgallon.

Ed 465. Diagnostic and Remedial Techniques. (G) 3 hours.

Diagnostic, remedial, and corrective techniques in basic school subjects; application of techniques to actual cases. Killgallon.

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

Nature and scope of the reading program, developmental and remedial; principles, methods, and materials of instruction and administration. Killgallon.

GRADUATE COURSES

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

Ed 564. Mental Tests. 3 hours.

Selection, administration, and interpretation of individual tests; intensive study of problems in testing exceptional and extremely deviate children. Prerequisite: Psy 421, 422, 423. Killgallon.

COURSES OFFERED ONLY IN EXTENSION

Ed 317. Remedial Reading Clinic. 1 or 2 hours (extension).**Ed 331. The Crippled and Low-Vitality Child.** 3 hours (extension).**Ed 410. The Visually Handicapped Child.** 3 hours (extension).**Ed 429. Use of Social Agency Resources by Teachers.** 3 hours (extension).**Ed 436. Education of the Handicapped Child.** (G) 3 hours (extension).**Ed 438. Techniques in Teaching Crippled and Low-Vitality Children.** 3 hours (extension).**Higher Education**

GRADUATE COURSES

Ed 556. Higher-Education Survey. 3 hours.

Problems of higher education. Organization, administration, finance; philosophy, purposes, curricula; student and faculty personnel; extension and special services. Wood.

Ed 557. 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. Wood.

Ed 558. College and University Teaching. 3 hours.

Methods and techniques of teaching; organization of courses; selection, preparation, and use of materials; audio-visual techniques; evaluation procedures, testing, and grading; experimentation in college teaching; personnel work. Wood.

Educational Administration

GRADUATE COURSES

- Ed 572. **Public School Administration.** 3 hours.
Relations of the principal to the school board; school finance, school records and accounts, school building programs, pupil accounting, the teaching staff. Prerequisite: Ed 311, 312 or teaching experience. Romney.
- Ed 573. **Public School Organization.** 3 hours.
Organization in both grade and high school; emphasis on the small system. Prerequisite: Ed 311, 312 or teaching experience. Romney.
- Ed 574. **School Supervision.** 3 hours.
Purpose and plans for supervision; use of tests, diagnosis of pupil difficulty, etc., as applied to both elementary and secondary schools. Prerequisite: Ed 311, Ed 312 or teaching experience. Jacobson.
- 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. The work includes the construction of a school budget. 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. The work includes analysis of the problems of a specific district. Romney.
- See also under *Elementary Education*, Ed 554; under *Secondary Education*, Ed 527.

Library Courses

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 for an administrative viewpoint the place of the library in the instructional program of the school; (4) 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.

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. **Elementary Bibliography and Reference Materials.** 3 hours.
Study of important reference books, indexes, and bibliographies. Practical problems in the use of reference tools.
- 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. Organization of Library Materials. 3 hours.

Instruction and practice in simplified procedures for the acquisition, preparation, organization, and circulation of books and related library materials.

Lib 482. The Elementary-School Library. (g) 3 hours.

Organization and administration of the elementary-school library, with emphasis on its function in the instructional program. Simple methods of ordering and processing materials; care and repair of books; teaching the use of the library; utilization of library resources in the community and the state. Planned for both teachers and librarians. Prerequisite: Lib 386. Ahlers.

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

Primarily a reading course based on materials suitable for elementary-school children. Study of reading interests and curricular needs; criteria for evaluating materials; selection aids; devices for encouraging reading. Prerequisite: Lib 382.

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

Planned for school administrators as well as librarians. Particular emphasis on the place of the library in the instructional program. Problems of support and control; housing and equipment; standards; evaluation; objectives. Prerequisite: Lib 386.

Lib 485. Advanced Bibliography and Reference. (g) 3 hours.

Continuation of Lib 381, with emphasis on reference tools in the various subject fields, and on national and subject bibliography. Prerequisite: Lib 381.

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

Expansion of the 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.

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

Primarily a reading course based on materials suitable for the junior and senior high school. Emphasis on the library as an information laboratory. Prerequisite: Lib 382.

School of Health and Physical Education

ARTHUR A. ESSLINGER, Ph.D., Dean of the School of Health and Physical Education.

Professors: FLORENCE D. ALDEN (emeritus), H. H. CLARKE, A. A. ESSLINGER, F. B. HAAR, L. A. HARRIS, E. R. KNOLLIN (emeritus), R. W. LEIGHTON (emeritus), F. N. MILLER, HARRIET W. THOMSON (emeritus), P. R. WASHKE.

Associate Professors: L. J. CASANOVA, JENNELLE MOORHEAD, MARGARET S. POLEY, ROSAMOND WENTWORTH, JANET G. WOODRUFF, P. O. SIGERSETH, V. S. SPRAGUE.

Assistant Professors: J. W. BORCHARDT, W. J. BORCHER, W. J. BOWERMAN, E. D. FURRER, JEANETTE R. POTTER, JESSIE L. PUCKETT, W. P. RHODA.

Instructors: SHIRLEY P. COX, EUGENE EVONUK, MARIAN FALLOON, W. M. HAMMER, D. H. KIRSCH, J. H. MCKAY, MARIAN L. PERRY, J. J. ROCHE, V. P. STERLING.

Lecturer: DOROTHEA LENSCH.

Assistants: ELINOR A. CRAWFORD, J. F. DAVIS, M. J. DE LOTTO, VERA J. FULLER, MARGARET L. MCCULLOCH, KATHRYN S. RIDDLE.

THE School of Health and Physical Education offers professional education, both undergraduate and graduate, and service courses in health education, physical education, and recreation. Graduates of the school hold professional 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.

Students who plan to meet the certification requirements for public school teaching should consult the School of Education for advice and direction before enrolling for their junior year.

Major in 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 the student 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, physical therapy, and recreation. The requirements of the basic program are as follows:

Lower Division

	Term hours
General Biology (Bi 101, 102, 103).....	12
Elementary Chemistry (Ch 101, 102, 103).....	12
Principles of Dietetics (HEc 225).....	2
Elements of Algebra (Mth 10).....	3
General Psychology (Psy 201, 202).....	6
Psych. of Adjustment (Psy 204) or Applied Psych. (Psy 205).....	3
Introduction to Physical Education (PE 121).....	2
Physical-education activities.....	12

Upper Division

Introduction to Bacteriology (Bi 311), Human Physiology (Bi 312, 313).....	9
Princ. & Practices of Physical Education (PE 341).....	3
Class Techniques in Physical Education (PE 342).....	3
Organ. & Admin. of Physical Education (PE 343).....	3
Tests & Measurements in Physical Educ. (PE 444).....	3
School Program (PE 445).....	3
Corrective Physical Education (PE 446).....	3
Mechanics of Body Movement (PE 470), Human Anatomy (PE 471), Kinesiology (PE 472), Physiology of Exercise (PE 473).....	12
Community Health Problems (HE 361), Personal Health Problems (HE 362), Communicable & Noncommunicable Diseases (HE 363).....	9
Health Instruction (HE 464), School Health Service (HE 465).....	6
Physical-education activities.....	12

Dance Option. Physical-education programs in the larger public schools place emphasis on American country and international folk dancing and on the modern dance. The dance option is planned for women students who wish to prepare for positions involving considerable teaching in the dance field. The requirements are as follows:

Lower Division

	Term hours
General Biology (Bi 101, 102, 103).....	12
Elementary Chemistry (Ch 101, 102, 103).....	12
Elements of Algebra (Mth 10).....	3
General Psychology (Psy 201, 202).....	6
Psych. of Adjustment (Psy 204) or Applied Psych. (Psy 205).....	3
Introduction to Physical Education (PE 121).....	2
Introduction to the Dance (PE 281).....	2
Fundamentals of Rhythm (PE 282).....	2
Dance for the Elementary School (PE 283).....	2
Physical-education & dance activities.....	12

Upper Division

Introduction to Bacteriology (Bi 311), Human Physiology (Bi 312, 313).....	9
Professional physical-education courses (PE 341, 342, 343, 444, 445, 446).....	18
Mechanics of Body Movement (PE 470), Human Anatomy (PE 471), Kinesiology (PE 472), Physiology of Exercise (PE 473).....	12
Elementary Dance Composition (PE 381).....	3
School Dance Program (PE 481).....	3
Physical-education & dance activities.....	14
Courses in one or two of the following fields: art history, music, speech.....	18

By arrangement with the dance division, the student may undertake a more comprehensive major in the dance, combining selected courses in the School of Health and Physical Education with supporting work in the liberal arts, music, and art.

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.

Recreation Option. Students may prepare for careers in recreational leadership through an especially arranged program of study leading to a bachelor's degree with a major in physical education. Since, however, recreational programs involve many activities in addition to physical activities, the best training in line with the student's abilities and interests may be through a major in some other University division or through work in several departments or schools. Students planning to prepare for a career in the field of recreation are advised to consult the dean of the School of Health and Physical Education early in their first term in the University.

Major in 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, and physical therapy. 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), Psychology of Adjustment (Psy 204).....		9
General Sociology (Soc 201, 202, 203).....		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
Parasitology (Bi 463).....		4
Safety Education (HE 358).....		3
Community Health Problems (HE 361).....		3
Personal 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
Princ. & Practices of Physical Educ. (PE 341).....		3
Corrective Physical Education (PE 446).....		3
Mechanics of Body Movement (PE 470).....		3
Human Anatomy (PE 471), Kinesiology (PE 472), Physiology of Exercise (PE 473).....		9

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 requirements 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 to complete, in their senior year, general University requirements for a bachelor's degree and requirements for a major in health education.

Graduate Study. The School of Health and Physical Education offers graduate work leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees.

Candidates for advanced degrees 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; (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.

The emphasis, in programs leading to the Ph.D. degree, is on scientific investigation of physiological and motor aspects of growth, development, and performance.

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 and Physical Education.

Candidates for the degree of Master of Science in General Studies may select either physical education or health education as one of their areas of study.

Courses for graduate students are listed below under the following numbers: PE 501 to PE 574, HE 463 (G) to HE 466 (G), HE 501 to HE 552. Formal class work is supplemented by seminars, independent study of special problems, and research.

Service Courses. The School of Health and Physical Education offers credit courses for all students in the University. These courses are organized as instruction in skills and in the principles of physical conditioning and health.

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.*

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 satisfy the requirement with professional activity courses.

Men students satisfy the health-education requirement with HE 150. Women students satisfy this requirement with HE 250 or HE 114, 115, 116; women are advised to take HE 250, if possible.

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.

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. (No special fees are charged for physical-education courses, with the exception of an instruction fee of \$5.00 per term for students electing bowling.) Students are urged to make full use of the gymnasium facilities for exercise and recreation.

Intramural Sports. The School of Health and Physical Education 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

* Veterans are granted 6 term hours of credit for health and physical-education instruction received in the armed services, and are exempt from University requirements in these fields; they may, however, earn 6 term hours additional credit in upper-division elective courses in physical activities.

leadership for women's athletics is furnished by the Women's Recreational Association.

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 in a separate building in the northeast section of the campus.

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 8,100 spectators.

Playing fields located east and south of the Physical Education Building provide excellent facilities for outdoor class instruction and for intramural and inter-collegiate sports. Hayward Stadium, the Associate Students' athletic field, has seats for 23,000 spectators. North of Hayward Stadium are fourteen standard concrete tennis courts.

Courses in Health Education

Services Courses

LOWER-DIVISION COURSES

HE 114, 115, 116. Health Education. 1 hour each term.

Study of the major problems of individual and community health which confront the college student; the basic scientific principles of healthful living. Meets the health-education requirement for women. Potter.

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.

HE 250. Personal Health (Women). 3 hours any term.

Analysis of personal health problems, with special reference to nutrition, infections and resistance, rest and sleep, oral hygiene, and social hygiene. Meets the health-education requirement for men and women. Potter, Puckett.

HE 251. Community Health. 3 hours winter.

Study of methods of handling health and sanitation problems of the community, with special reference to water supply, food and milk sanitation, sewage disposal, insect and rodent control; state and county health departments. Evonuk.

HE 252. First Aid. 3 hours winter and spring.

Study of first aid and safety procedures—for the individual, schools, athletics, and civilian defense; meets certification standards of the American Red Cross. 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. Community Health Problems. 3 hours fall.

Designed primarily for health teachers in the public schools. Basic community health problems important in public-school health instruction. Prerequisite: junior standing in health and physical education, or consent of instructor. Haar.

HE 362. Personal Health Problems. 3 hours winter.

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

The purposes and requirements of the school health service program, with emphasis on organization and procedures for the school health examination. Organization and presentation of teaching materials based on the health needs of the child, community needs, and school health services. Moorhead.

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. Haar.

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

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

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 the evaluation of health education in Oregon junior and senior high schools. Prerequisite: HE 361, 362, 363, HE 464, 465; or consent of instructor. Haar.

GRADUATE COURSES

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

HE 501. Research in Health Education. Hours to be arranged.

HE 503. Thesis. Hours to be arranged.

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

HE 506. Special Problems. Hours to be arranged.

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 and required of all candidates for advanced degrees in health education.

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.

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

Organization and administration of the school health program. Haar.

COURSES OFFERED ONLY IN SUMMER SESSIONS AND EXTENSION

HE 411, 412, 413. **Health-Education Workshop.** (g) 9 hours total credit (extension and summer sessions).

Courses in Physical Education

Services Courses

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.

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 terms required for all lower-division men students. 3 hours a week.

UPPER-DIVISION COURSES

PE 380. **Physical Education for Junior and Senior Women.** 1 hour each term, six terms.

A variety of activities taught for physiological and recreational values. 3 hours a week.

PE 390. **Physical Education for Junior and Senior Men.** 1 hour each term, six terms.

A variety of activities taught for physiological and recreational values. 3 hours a week.

Professional Courses

LOWER-DIVISION COURSES

PE 121. **Introduction to Physical Education.** 2 hours fall.

Basic mechanics of movement, form, and skills in activities. Basic principles of physiology of exercise.

PE 124, 125, 126. **Physical-Education Activities (Women).** 1 or 2 hours each term.

For professional students. Instruction and practice. Fall and winter: sports activities. Spring: tennis, elementary dance.

- PE 127. **Fundamentals of Body Movement and Conditioning (Men).** 2 hours fall.
For professional students.
- PE 128. **Elementary Tumbling and Apparatus (Men).** 2 hours winter.
For professional students.
- PE 129. **Track and Field (Men).** 2 hours spring.
For professional students. Basic principles of conditioning ; skills of track and field events.
- PE 221. **Games for the Elementary School.** 2 hours.
Games of low organization in the elementary-school program. Puckett.
- PE 224, 225, 226. **Physical-Education Activities (Women).** 1 or 2 hours each term.
For professional students. Instruction and practice. Fall: track and field, hockey or dance technique. Winter: folk and square dancing. Spring: swimming and tumbling or dance technique.
- PE 227. **Elementary Aquatics (Men).** 2 hours fall.
For professional students. Elementary swimming, diving.
- PE 228. **Folk and Square Dancing (Men).** 2 hours winter.
For professional students. Rhythmic fundamentals and dances.
- PE 229. **Team Sports (Men).** 2 hours spring.
For professional students.
- PE 281. **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 282. **Fundamentals of Rhythm.** 2 hours winter.
Study of rhythm as a basic factor of movement. Specific rhythmic devices used in the dance.
- PE 283. **Dance 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. Wentworth.
- PE 284, 285, 286. **Dance and Physical-Education Laboratories.** 2 hours each term.
Instruction and practice. Fall: dance technique. Winter: folk and square dancing. Spring: dance technique, swimming.

UPPER-DIVISION COURSES

- PE 324, 325, 326. **Physical-Education Activities (Women).** 1 or 2 hours each term.
For professional students. Advanced practice and teaching techniques. Fall: soccer, speedball, and fundamental activities or dance composition. Winter: basketball, volleyball, and tumbling or dance composition. Spring: swimming and softball or ballroom dancing.
- PE 327. **Individual Sports (Men).** 2 hours fall.
For professional students. Tennis, handball.
- PE 328. **Advanced Tumbling and Apparatus (Men).** 2 hours winter.
For professional students. Prerequisite: PE 128.
- PE 329. **Advanced Aquatics (Men).** 2 hours spring.
For professional students. Swimming, diving, water polo, life saving. Prerequisite: PE 227.

- 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 the secondary schools; attendance, roll call, pupil assistance in large classes, checking out and in of equipment, showering, records, use of bulletin boards. Sprague.
- 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 346. Principles of Camp Leadership.** 3 hours winter.
For students training for camp counseling. Principles of organization; purposes and functions of camps; general principles of youth-organization programs.
- PE 359. Care and Prevention of Injuries.** 2 hours winter.
Bandaging, massage, and other specialized mechanical aids for the prevention of injuries. Analysis of types of injuries; emergency procedures. Prerequisite: major or minor in physical education, or consent of instructor.
- PE 381. 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 281.
- PE 382. Advanced Dance Composition.** 3 hours winter.
Analysis of dance content and its relationship to form and style. Modern dance forms. Prerequisite: PE 381.
- PE 383. Dance Accompaniment.** 3 hours spring.
Function of accompaniment for dance skills and composition. Types of accompaniment—music, percussion, speech. Prerequisite: PE 381.
- PE 384, 385, 386. Dance and Physical-Education Laboratories.** 2 hours each term.
Advanced instruction and practice. Fall and winter: dance technique and composition. Spring: ballroom dancing, swimming.
- PE 403. Thesis.** Hours to be arranged.
Thesis based in 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. Enrollment only with consent of instructor.
- PE 406. Special Problems.** Hours to be arranged.
- PE 415. Supervised Direction of Camps and Playgrounds.** 1 to 6 hours any term (9 hours maximum credit).
Supervised experience in direction of group recreation and group education for students who are not working toward a teacher's certificate.
- PE 424, 425, 426. Physical-Education Activities (Women).** 1 or 2 hours each term.
For majors. Advanced practice and teaching techniques. Fall: folk, square, and ballroom dance. Winter: badminton, bowling, and small-court games. Spring: archery, tennis.
- PE 427. Boxing (Men).** 2 hours fall.
For professional students.

- PE 428. **Wrestling (Men)**. 2 hours winter.
For professional students.
- PE 429. **Individual Sports (Men)**. 2 hours spring.
For professional students. Golf, badminton, squash.
- PE 444. **Tests and Measurements in Physical Education**. (G) 3 hours fall.
Use of tests and measurements in physical education; evaluation of objectives, programs, and student achievement through measurement techniques.
- PE 445. **The School Program**. 3 hours winter.
Practical construction of physical-education and intramural programs, on the basis of accepted principles, criteria, and functions; emphasis on integration with the total school program. Prerequisite: PE 341, PE 342. Sprague.
- PE 446. **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: PE 471, PE 472. Poley.
- PE 450. **Football Fundamentals**. 2 hours winter.
Individual offensive and defensive play for each position. Stance, starts, charging, blocking, tackling, interference running, passing, kicking. Team offensive and defensive fundamentals. For prospective coaches. Casanova.
- PE 451. **Football Coaching**. 2 hours spring.
Rules, systems of play, strategy, responsibilities of the coach, public relations, conference organization. Casanova.
- PE 452. **Basketball Fundamentals**. 2 hours spring.
Individual fundamentals; footwork, drills, dribbling, passing, shooting, back-board play, individual offense and defense; defensive team plays. For prospective coaches. Borcher.
- PE 453. **Basketball Coaching**. 2 hours fall.
Coaching methods and problems. Fundamentals of team play; comparison of systems; strategy; training, conditioning; rules, officiating; selection of men for positions. Borcher.
- PE 454. **Baseball Fundamentals**. 2 hours fall.
Batting, base running, sliding; how to play each position. Offensive and defensive team plays, squeeze plays, hit-and-run plays, backing-up plays, coaching assignments, battery work. For prospective coaches. Kirsch.
- PE 455. **Baseball Coaching**. 2 hours spring.
Review of fundamentals, with emphasis on methods of instruction; problems and duties of the baseball coach, including baseball strategy, rules and umpiring, baseball psychology, training, conditioning. Kirsch.
- PE 456. **Track Coaching**. 2 hours winter.
Principles of training; development of performance for each track event. Selection of men for different events; conducting meets, officiating. Bowerman.
- PE 460. **Physical Education in the Elementary School**. (g) 3 hours.
An interpretative study and analysis of the functions, purposes, and practices of physical education at the elementary-school level. The program and the significance of its elements. Sprague.
- PE 470. **Mechanics of Body Movement**. 3 hours.
The influence of mechanical principles and laws upon the functioning of the skeletal system in body movement, and upon the functioning of the circulatory, muscular, and sensory systems. Sigereth.
- PE 471. **Human Anatomy**. 3 hours fall.
Gross anatomy; the skeletal and muscular structure, the circulatory, respira-

tory, digestive, and neural systems, and their functioning in physical activities. Prerequisite: two years of biology, senior standing. Sigerseth.

PE 472. **Kinesiology.** 3 hours winter.

Action of muscles involved in fundamental movements, calisthenics, gymnastics, and athletics. Prerequisite: PE 471. 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 481. **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 381.

PE 482. **History of the Dance to 1900.** 3 hours winter.

Historical survey of the dance and its relationship to other arts prior to 1900.

PE 483. **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 484, 485, 486. **Dance and Physical-Education Laboratories.** 2 hours each term.

Advanced instruction and practice. Fall: technique of teaching the dance. Winter: dance workshop. Spring: dance workshop, tennis.

PE 499. **Community Recreation.** 3 hours winter.

Theories of play; basic individual and social needs for group recreation; nature and functions of recreation; principles of program and personnel organization.

GRADUATE COURSES

PE 501. **Research in Physical Education.** Hours to be arranged.

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

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

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

Study of selected problems in the field of physical education or recreation.

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.

Recreation.

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 developments, and on current professional organization and relationships. 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 of policy, supervision, and direction; scope of the program, finances, assignment of responsibilities. 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.
- PE 521, 522, 523. Corrective Physical-Education Studies.** Hours to be arranged.
Basic problems and procedures of corrective physical education. Prerequisite: PE 471, 472 or equivalent. Poley.
- PE 524, 525, 526. Correctives Laboratory.** 1 hour each term.
Practical experience in handling corrective cases; to be taken in conjunction with PE 521, 522, 523.
- PE 530. Developmental and Remedial Physical Education.** 3 hours.
Programs to meet individual physical-fitness and social needs through physical-education activities; case-study techniques, developmental programs, remedial and restrictive programs, development of social traits; administrative problems. Prerequisite: PE 444, PE 446. Clarke.
- PE 531. Muscle Testing and Therapeutic Exercise.** 3 hours.
Fundamentals of muscle re-education. Methods for determining specific muscle weaknesses; application of directed movement in the 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 effects, and their application by the physical educator. Poley.
- PE 533. Techniques of Relaxation.** 3 hours.
The common causes 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 444, 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. Prerequisite: graduate standing in physical education. Washke.
- PE 551. Administration of Physical Education.** 3 hours fall.
Organization and administration of the physical-education program at the college level. Esslinger.
- PE 553. Administration of Recreation.** 3 hours spring.
Organization and administration of recreation programs in recreational districts, communities, and municipalities; legal aspects, sources of funds, types of programs.
- 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 561. Foundations of Physical Growth.** 3 hours fall.
Concept of growth, objectives in studying growth, procedures in collections and analysis of growth data. Physical growth from the beginning of pre-natal life to the close of infancy. Prerequisite: PE 471, 472, Ed 515; or equivalent. 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. Particular attention to differences associated with sex, puberty, socio-economic status, race, secular period, health regimen. Prerequisite: PE 561. Poley.
- PE 563. Growth and 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 444 or HE 465. Sigersth.
- 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. Rhoda.
- PE 567. Motor Development in Infancy and Childhood.** 3 hours.
Study of the acquisition of motor skills during the first decade of life. Prerequisite: PE 444 or Psy 460, 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: PE 471, PE 472, PE 473 or equivalent. Sigersth.
- 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. Prerequisite: PE 572. Sigersth.
- 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 the major sports and individual activities. Prerequisite: Bi 312, 313; PE 473. Sigersth.

COURSES OFFERED ONLY IN SUMMER SESSIONS AND EXTENSION

- PE 411, 412, 413. Physical-Education Workshop.** (g) 9 hours total credit (extension and summer sessions).

School of Journalism

GORDON A. SABINE, Ph.D., Dean of the School of Journalism.

Professors: C. T. DUNCAN, G. A. SABINE, W. F. G. THACHER (emeritus), G. S. TURNBULL (emeritus).

Associate Professors: R. C. HALL (emeritus), W. C. PRICE.

Assistant Professors: P. J. DEUTSCHMANN,* C. H. GROTH, R. E. SUMMERS, W. L. THOMPSON, C. C. WEBB.

Instructors: R. H. ADAMS, E. W. ALLEN, JR., R. K. TWEDELL.

Lecturers: HENRY FOWLER, CARROLL O'ROURKE, W. M. TUGMAN.

Assistants: K. L. HOLMES, J. J. STEWART.

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 fields of news-editorial, advertising-newspaper management, and radio journalism.

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.

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 extra-curricular journalistic activities.

In considering applications for admission to major work, the School of Journalism gives special attention to the previous college record of the student (a grade point average of 2.25 is normally required) and particularly to grades in English composition.

Requirements for the Bachelor's Degree. The minimum requirement in professional courses for a major in journalism is 36 term hours; the maximum allowed in an undergraduate program is 46 term hours. Journalism majors are normally expected to maintain a 2.25 cumulative grade-point average, with a somewhat higher average in journalism courses. Course requirements for the bachelor's degree include a basic group of courses in journalism, required of all majors, required supporting courses in the liberal arts, and a group of advanced courses in one of four fields of journalism, chosen by the student in accordance with his main professional interest. The four special fields are news-editorial (preparation for writing and editing for newspapers, magazines, press associations, etc.), advertising, the community newspaper, and radio-television journalism. Students who wish broader preparation may elect courses in more than one of these fields, but

* On leave of absence, winter term, 1953-54.

the requirements in one field must be completed. The courses required of all majors are as follows:

Liberal Arts—General or English literature, 9 term hours—Shakespeare (Eng 201, 202, 203) recommended; a lower-division year sequence in history, 9 term hours; a lower-division year sequence in one of the following fields: anthropology, economics, geography, philosophy, sociology; American Governments (PS 203, state and local governments); three terms of related upper-division courses in each of two of the following fields: anthropology, economics, geography, history, philosophy, political science, psychology, sociology.

Journalism—The following basic courses: Reporting (J 331); Principles of Advertising (J 339); Copyediting (J 434); Investigative Methods in Journalism (J 481, 482). In addition, the courses specified in *one* of the following fields:

(1) Advertising—Mechanics of Publishing (J 311); Advertising Copywriting (J 446); 9 term hours selected from: Newspaper Advertising (J 443), Radio-Television Advertising (J 441), Journalism and Public Opinion (J 429), Advertising Production (J 440), Advertising Problems (J 444), Advertising Copywriting (J 447).

(2) Community Newspaper—Mechanics of Publishing (J 311); Community Newspaper: Editorial Problems (J 411); 9 term hours selected from: Community Newspaper: Business Problems (J 412), Community Newspaper: Production Problems (J 413), Journalism and Public Opinion (J 429), Advertising Copywriting (J 446), Advanced Reporting (J 415), Newspaper Advertising (J 443), Advertising Production (J 440).

(3) News-Editorial—Mechanics of Publishing (J 311); Advanced Reporting (J 415); Reporting of Public Affairs (J 416); 9 terms hours selected from: Magazine Article Writing (J 421), History of Journalism (J 428), Journalism and Public Opinion (J 429), Magazine Editing (J 461), Community Newspaper: Editorial Problems (J 411), Interpretive Writing (J 417).

(4) Radio-Television Journalism—Radio-Television News Program Building (J 432); Radio-Television Advertising (J 441); 9 term hours selected from: Seminar: Radio-Television Station Policies (J 407), Seminar: Television Problems (J 407), Journalism and Public Opinion (J 429), Advanced Reporting (J 415), Reporting of Public Affairs (J 416), Radio and Television Workshop (Sp 341), Radio and Television Program Production (Sp 444).

Graduate Study. The School of Journalism offers graduate work leading to the Master of Arts or Master of Science degree. Programs of study include advanced courses in journalism and in an allied field or fields. Candidates for advanced degrees must satisfy all requirements of the Graduate School. The School of Journalism recommends that students not begin graduate study before they have had some practical experience in the field.

The school also offers graduate work toward a minor in journalism for students majoring in other fields (in special cases, doctoral candidates may complete a minor in journalism).

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 copywriting, radio-television news and advertising (the school has its own broadcasting studios), photography, and typography (facilities for advanced laboratory work in typography are available in the University Press, which occupies the first floor of Allen Hall). 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 regu-

lar newspaper, radio-television, and teletypesetter 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.

Courses in Journalism

LOWER-DIVISION COURSE

J 211. Introduction to Journalism. 3 hours.

An introduction to the newspaper and other media of mass communication, including news, editorial, pictorial, business, and advertising aspects. No prerequisite.

UPPER-DIVISION COURSES

J 311. 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.

J 312. Background of Publishing. 4 hours.

Newspaper advertising—space-selling techniques; elementary retail advertising; layout, copy, use of mat services; rates; contracts. Weekly newspaper management—income sources, newspaper-business law, newspaper merchandising, commercial printing, cost accounting. Not offered 1954-55.

J 313. Typography Laboratory. 1 hour.

Practice in setting type and making layouts.

J 314. Advanced Typography Laboratory. 1 hour.

An advanced course for selected students showing aptitude, and desiring to continue J 313. Prerequisite: consent of instructor.

J 331. Reporting. 3 hours.

Training in news writing and reporting. The newspaper audience, types of news stories, news values, newspaper organization. Lectures, individual conferences, and laboratory.

J 339. Principles of Advertising. 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, magazines, broadcasting, outdoor advertising, direct mail.

J 341. Introduction to the Magazine. 3 hours.

Survey of the magazine field, including business papers, the specialized press, and company publications. Analysis of the principal magazine types; editorial, business, and mechanical aspects. Not offered 1954-55.

Sp 341. Radio and Television Workshop. 2 hours.

Theory and application of 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.

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.
Public Relations Problems.
Radio Station Policies.
Television Problems.
- J 411. **Community Newspaper: Editorial Problems.** (G) 3 hours fall.
News and editorial problems of weekly and small daily newspapers; relationship between the community and newspaper staff personnel. Prerequisite: senior standing.
- J 412. **Community Newspaper: Business Problems.** (G) 3 hours winter.
Business problems of weekly and small daily newspapers; advertising and rate structures; circulation promotion and auditing. Prerequisite: senior standing.
- J 413. **Community Newspaper: Production Problems.** (G) 3 hours spring.
Mechanical and shop problems of weekly and small daily newspapers; equipment; financing and evaluating newspapers. Prerequisite: senior standing.
- J 415. **Advanced Reporting.** (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 331.
- J 416. **Reporting of Public Affairs.** (G) 3 hours.
Newspaper reporting of legislative and executive governmental bodies; political news; civil and criminal courts and appellate procedure; legal privilege. Prerequisite: J 415.
- J 417. **Interpretive Writing.** (G) 3 hours.
Application of advanced writing technique in the analysis and interpretation of news for media and mass communication; the editorial, symposium, commentary, column, review, and interpretive article. Prerequisite: J 415.
- J 419. **Advanced Practice.** 1 to 3 hours.
No-grade course. Advanced editorial and advertising practice. Prerequisite: consent of instructor.
- J 421, 422. **Magazine Article Writing.** (G) 3 hours each term.
A study of the problems of writing and selling articles, with emphasis on the marketing of manuscripts. Conferences. Individual projects stressed the second term. Prerequisite: J 331 or consent of instructor.
- J 427. **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 on publication: libel, right of privacy, copyright, contempt of court, censorship, and radio news regulation.
- J 428. **History of Journalism.** (G) 3 hours.
A 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.
- J 429. **Journalism and Public Opinion.** (G) 3 hours.
Influence of opinion by major communications media—the press, magazines, radio, and films; theories of public opinion and propaganda; activities of pressure groups and other organized groups.

- J 430. 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.
- J 431. Radio-Television News Writing.** 3 hours.
History, theory, and practice of preparing news copy for broadcasting; adapting press-service copy for broadcast; gathering and writing local news for broadcast. Lectures, individual conferences, and laboratory. For students with no prior news experience.
- J 432. Radio-Television News Program Building.** (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 331 or J 431.
- J 434. Copyediting.** 3 hours.
Instruction and practice in copyreading, headline writing, picture editing, news display, with emphasis on the newspaper; elements of makeup. The class edits the daily teleprinter report of the Associated Press or United Press. Lectures and laboratory. Prerequisite: J 311, J 331.
- J 436. Newsroom Policies.** (G) 3 hours.
Advanced practice in news editing and makeup, including special pages; news judgment; ethical problems of news presentation; management of the editorial staff. Prerequisite: J 434.
- 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 311, J 339.
- J 441. Radio-Television Advertising.** (G) 3 hours.
A 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 339.
- J 443. Newspaper Advertising.** (G) 3 hours fall.
A description of the organization and methods of the advertising department of newspapers and other publications. Prerequisite: J 339.
- J 444. Advertising Problems.** (G) 3 hours spring.
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 339, J 446.
- Sp 444. Radio and Television Program Production.** 3 hours.
Theory and practice of 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 445. Retail Advertising.** (G) 3 hours.
Study of management problems of the retail advertising department. Advanced practice in layout, copywriting, and production of retail advertising for newspaper, radio, and direct mail. Prerequisite: J 339. Not open to students who have had J 441 or J 443.
- J 446, 447. Advertising Copywriting.** (G) 3 hours each term.
Training and practice in the art of writing advertising copy for various media. Study of diction, sentence structure, headlines and slogans, style. Lectures and laboratory. Prerequisite: J 339.

- J 451, 452. **Graphic Journalism.** 3 hours each term.
Instruction in use of the news camera; picture editing; analysis and influence of news pictures. Lectures and laboratory. Prerequisite: J 331.
- J 461. **Magazine Editing.** (G) 3 hours.
Principles and problems of magazine editing; content selection, use of pictures, headline writing, caption writing, layout, makeup, typography; editorial responsibility. Lectures and laboratory. Prerequisite: J 434.
- J 481, 482, 483. **Investigative Methods in Journalism.** (G) 4 hours each term.
Discovery of enlightened opinion on public affairs. Application of social sciences to problems of the day. Editorial writing. Methods by which an editor attains authentic judgment.
- J 488. **The Public and the Press.** (g) 3 hours.
Analysis of the role of newspapers, magazines, motion pictures, radio, and television in a democratic society; the problem of improving the relationship between the public and the press in the mass-communication process. Not open to journalism majors.
- J 489. **Supervision of School Publications.** (g) 3 hours.
The teacher's role in guiding student publications in secondary schools and junior college.

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.
Society and Mass Communications.
Interpretive Writing.
Teaching Methods in College Journalism.
Communications Research Methods.
Advertising Problems.
Economics of Mass Communications.
- J 521. **Communications Media and the Constitution.** 3 hours.
A detailed study of the constitutional problems facing the communications media of the United States.
- J 522. **Propaganda and the Communications Media.** 3 hours.
Characteristics of the various media of mass communications with respect to propaganda; the employment of these media by private and governmental agencies as instruments of propaganda.

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, K. J. O'CONNELL, J. D. BARNETT (emeritus).

Associate Professors: E. P. MORTON,* BORDEN WOOD.

Assistant Professors: F. R. LACY,† H. A. LINDE.

Special Lecturers: A. T. GOODWIN, L. D. PEDERSON, 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 without intellectual content of substantial value.

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 first-year basic college course in accounting (BA 111, 112, 113 or equivalent); (3) a minimum of 36 term hours of credit in courses in the general field of social science.

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 must take such entrance or aptitude examinations as may be required by the faculty of the school.

All students intending to enter the School of Law must file a formal application for admission with the dean of the school. Official application forms may be obtained from the School of Law.

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.

* Deceased Feb. 27, 1954.

† On leave of absence 1953-54.

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 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 completion of prelegal requirements and one year of professional work in the School of Law, provided they have satisfied all general University requirements for such a degree and all requirements for a major in law or in some other field. 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 60 ff.)

Degrees and Graduation Requirements. The School of Law offers a standard curriculum leading to the Bachelor of Laws or Doctor of Jurisprudence degree. A total of at least three years' resident study in this or in some other law school of recognized standing is required of every applicant for a law degree, of which, normally, the last two years must be spent at this University. 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 with which the legal profession is vested. 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 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.

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 credit, 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 transfers credits from another law school has complied with the minimum grade-point average of 2.00 required for the LL.B degree, only grades earned at the University of Oregon will be considered.

In determining whether a student who transfers credits from another law school has complied with the minimum grade-point average of 3.00 required 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 Fenton, 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 43,761 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 180 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 directed 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, as a service to the members of the Oregon bar and as a stimulus to legal research and productive scholar-

ship on the part of students. The LAW REVIEW has been in continuous publication since 1921.

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.

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 Prizes. For descriptions see pages 78 ff.

Courses in Law

The School of Law assumes that its primary duty is owed to the people of the state of Oregon. For this reason, special emphasis is placed on Oregon substantive law and on Oregon procedure. Each course is organized to give the student a thorough foundation in the fundamental principles of the common law, and an understanding of the modification of common-law principles in Oregon by judicial decisions and statutes.

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.

The right is reserved to make any desirable or necessary changes in the course offerings listed below.

All courses are required except those marked with an asterisk ().*

FIRST-YEAR COURSES

L 412, 413. **Contracts.** 4 hours each term, fall and winter.

Formation of simple contracts; consideration; third-party beneficiaries; assignments; the Statute of Frauds; performance and breach; illegality; discharge. Patterson and Goble, *Cases on Contracts* (3rd edition). Howard.

L 418. **Legal Bibliography.** 1 hour spring.

Legal reference materials; legislative enactments; judicial precedents; classes of law books; training in their mechanical 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. **Rights in Land.** 3 hours each term, winter and spring.

Air space; nuisance; lateral support; waters; easements; licenses; profits; estates in land; concurrent ownership; remainders, reversions; uses, executory interests; perpetuities; descent. Bigelow, *Cases on Rights in Land* (3rd edition). O'Connell.

L 422, 423. **Torts.** 4 hours each term, winter and spring.

Intentional invasions 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. Seavy, Keeton, and Thurston, *Cases on Torts*.

- L 425, 426. **Criminal Law and Procedure.** 3 hours fall, 2 hours winter.
Source and purpose of criminal law; elements of specific crimes; factors negating or mitigating culpability; inchoate crimes; parties; procedure in criminal actions. Hall and Glueck, *Criminal Law and Enforcement*. 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, *Selected Cases on the Law of Agency* (4th edition).
- L 428. **Personal Property.** 3 hours fall.
Possession of unappropriated or abandoned chattels, lost chattels, bailments, liens, pledges, accession and confusion, gifts, fixtures. Fraser, *Cases and Readings on Property*, vol. II (3rd edition). O'Connell.
- 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 edition). Lacy.

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. Kirkwood, *Cases on Conveyances* (2nd edition). O'Connell.
- 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 edition). Lacy.
- L 436, 437. **Bills and Notes.** 2 hours fall, 3 hours winter.
The Negotiable Instruments Law; operative facts of negotiability; transfer, holders in due course, equities; the contractual element, liabilities of parties; discharge. Britton, *Cases on Law of Bills and Notes* (4th edition). Howard.
- L 439. **Creditors' Rights.** 4 hours winter.
Remedies of and priorities between individual unsecured creditors; exemptions; fraudulent conveyances; general assignments and creditors' agreements; bankruptcy. Hanna and MacLachlan, *Cases on Creditors' Rights*, vol. I (4th edition). Lacy.
- *L 440. **Insurance.** 3 hours spring.
The insurance business; insurable interest; coverage of contract as to event and insured; subrogation; warranties, representations, and concealment. Patterson, *Cases on Insurance* (2nd edition). Lacy.
- *L 444. **Quasi Contracts.** 3 hours spring.
Historical background; availability and operation of quasi-contract and other remedies for unjust enrichment; restitution of benefits tortiously acquired or conferred under 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.
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 edition). Poole.
- L 447, 448. **Partnerships and Corporations.** 4 hours fall, 3 hours winter.
Partnerships, limited partnerships, joint-stock associations, business trusts,

corporations; powers of management; claims against the enterprise; solvent dissolution. Magill and Hamilton, *Cases on Business Organization*, vol. II.

L 451. Mortgages. 3 hours spring.

Real and chattel; legal and equitable; title, possession, rents and profits, waste, foreclosure, redemption; priorities; marshalling; extension; assignment; discharge. Osborne, *Cases on Property Security*. O'Connell.

L 452. Sales of Personal Property. 4 hours spring.

The transaction, the Statute of Frauds, transfer of property; acquisition of property rights by third persons; documents of title; financing methods; rights and duties of parties. Bogert, *Cases and Materials on the Law of Sales* (2nd edition). Howard.

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 pleading; amendments. Cleary, *Cases on Pleading*. Hollis.

L 456. 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.

L 457. Legal Writing I. 1 hour.

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; rights under foreign law in torts, contracts, sales, security transactions, business organizations, family law. Lorenzen, *Cases on Conflict of Laws* (6th edition). Hollis.

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 spring term. McBaine, *Cases on Trial Practice* (3rd edition). Hollis.

L 467. Constitutional Law. 4 hours fall.

Study of the Federal system under the Constitution of the United States; the doctrine of judicial review in constitutional cases; the commerce power, the power to tax and spend, and the other powers of Congress; residual powers of the states; Congressional consent to state action; limitations on governmental power for the protection of life, liberty, and property. Dowling, *Cases on Constitutional Law* (4th edition).

***L 471. Legislation.** 3 hours spring.

Growth and province of legislation; forms; reform legislation; limitations on legislation; the legislative process and constitutional control; initiative and referendum; drafting; interpretation; curative legislation. Read and MacDonald, *Cases on Legislation*.

L 472. Trusts. 4 hours fall.

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 edition). O'Connell.

***L 476. Labor Law.** 3 hours spring.

Study of the legal relations of workers and their employers as reflected in the common law and as affected by Federal and state statutes.

L 477. Legal Ethics. 1 hour winter.

Organization of bench and bar; functions of the legal profession in the ad-

- ministration of justice; illegitimate legal practices; canons of professional and judicial ethics. Cheatham, *Cases on the Legal Profession*. Howard.
- 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. Morgan and Maquire, *Cases on Evidence* (3rd edition).
- *L 481. **Trade Regulation**. 3 hours.
Intimidating and molesting, disparaging competitor's goods or services, appropriating trade values, inducing breach of contracts, boycotting, unfair price practices, unfair advertising.
- L 482. **Taxation**. 4 hours spring.
Purposes for which taxes may be levied; distribution of tax burden; jurisdiction; taxes: property, inheritance, estate, income, franchise, excise; collection; remedies. Surrey and Warren, *Cases on Federal Income Taxation* (2nd edition).
- *L 484. **Administrative Law**. 3 hours winter.
The characteristics and history of the administrative process; creation of the administrative agency, and legislative and executive control of its action; formulation and enforcement of the administrative program; nature and scope of judicial review. Katz, *Cases on Administrative law*.
- *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 edition). Howard.
- L 488. **Legal Writing II**. 1 hour
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. **Legal 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' credit may be earned.
- *L 503. **Thesis**. Hours to be arranged.
A maximum total of 3 hours' credit may be earned.
- *L 507. **Seminar**. Hours to be arranged.

Medical School

DAVID W. E. BAIRD, M.D., LL.D., Dean of the Medical School.

WILLIAM A. ZIMMERMAN, B.S., Executive Secretary and Business Manager.

HENRIETTA DOLTZ, M.N., R.N., Director, Department of Nursing Education.

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 93-95 of this Catalog.

Curricula in Nursing Education. As an integral part of the Medical School the Department of Nursing Education offers a four-year curriculum leading to the B.A. or B.S. degree. The student takes five terms of prenursing work at the University of Oregon in Eugene, or at another accredited college or university. The prenursing curriculum is completed with one term of work on the campus of the Medical School, and is followed by a ten-term professional curriculum coordinated with clinical instruction in the hospitals and clinics of the Medical School. The Department of Nursing Education also offers advanced professional curricula for graduate nurses in the fields of general nursing, public health nursing, and teaching and supervision.

A suggested preparatory curriculum is printed on pages 96-97 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. The curriculum is printed on pages 97-98 of this Catalog.

Medical School Catalogs. Separate catalogs, containing detailed information concerning the curricula in medicine and nursing education, may be obtained on request.

School of Music

THEODORE KRATT, Mus.M., Mus.D., Dean of the School of Music.

Professors: E. A. CYKLER, GEORGE HOPKINS, THEODORE KRATT, ROSE E. MCGREW (emeritus), JANE THACHER (emeritus).

Associate Professors: GEORGE BOUGHTON, ARNOLD ELSTON, HERMAN GELHAUSEN, S. L. GREEN, C. H. KEUTZER, R. E. NYE, R. S. VAGNER.

Assistant Professors: EXINE ANDERSON, F. W. BITTNER, MILTON DIETERICH, I. D. LEE.

Instructors: DORIS H. CALKINS, D. R. CHINBURG, JR., ROBERT CUNNINGHAM, E. L. MYRICK, W. J. PETERSON, C. L. STEELE, JOHN STRUBE, W. C. WOODS.

Assistants: GEORGEANNA K. BEAVER, N. A. BUSSARD, H. VIRGINIA NYE.

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 entrance and for graduation are in accordance with the standards of the 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 staff of the School of Music as faculty 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 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 (twenty additional practice rooms are provided in two temporary structures west of the Music Building). 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. The new 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 Choral Union, 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 instruments are: one lesson a week, \$20.00 per term; two lessons a week, \$40.00 per term.

Private 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 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 faculty adviser to whom each student is assigned will explain fully general University requirements, school requirements, and desirable electives. Ample time is available for a thorough discussion of each student's qualifications and needs, in order that his program may be a consistent and profitable one.

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 objectives. 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 group requirement.

The following courses are required during the student's upper-division years:

	Term hours
Music Theory II (Mus 211, 212, 213).....	9
Applied Music—Instrument or Voice.....	6
History of Music (Mus 360, 361, 362).....	9
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.

Curriculum in Music Education. This curriculum is designed for students who wish to prepare themselves for the teaching and supervision of music in the 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
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
Voice Class (MuE 351).....	2
School in American Life (Ed 311).....	3
Psychological Found. of Teaching I (Ed 312).....	4
Special Methods (Ed 408).....	6
Oregon School Law & System of Education (Ed 316).....	2
Oregon History (Hst 377).....	2
Supervised Teaching (Ed 415).....	9

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
Choral Conducting (MuE 323, 324, 325).....	6
Choral Arranging (Mus 357).....	2
Instrumental Techniques (Mus 363, 364, 365).....	3

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, 322).....	6
Stringed Instruments (MuE 332, 333, 334).....	3
Wind & Percussion Instruments (MuE 335, 336, 337).....	3
Instrumentation & Arranging (Mus 329, 330, 331).....	6
Supervision of the General Music Program (MuE 426).....	3

The program outlined satisfies the Oregon state requirements for a provisional state teacher's certificate. A fifth year of preparation is required for regular certification. For further information concerning regular certification, see SCHOOL OF EDUCATION.

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
Applied Music—Instrument or Voice (Mus 490).....	12
History of Music (Mus 360, 361, 362).....	9
Band, Orchestra, or Chorus (Mus 395, Mus 396, or Mus 397).....	6
Counterpoint I (Mus 311, 312, 313).....	6
Harmonic & Structural Analysis (Mus 314, 315, 316).....	6

In addition to those requirements, students are advised to elect upper-division courses from the following:

	Term hours
Composition I (Mus 414, 415, 416).....	6
Advanced Harmony (Mus 417, 418, 419).....	6
Counterpoint II (Mus 420, 421, 422).....	6
Seminar in Music History (Mus 408).....	9
Chamber Music (Mus 343, 344, 345).....	3
Instrumentation & Arranging (Mus 329, 330, 331).....	6
Choral Arranging (Mus 357).....	2
Choral Conducting (MuE 323, 324, 325).....	6
Instrumental Conducting (MuE 320, 321, 322).....	6
Opera Workshop (Mus 398).....	3-6

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 Students—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 Students—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 Students—A concerto or chamber-music composition equivalent in grade of difficulty to Brahms' Opus 78; selections from the more important works of some leading modern composers.

Voice Students—An aria from an opera or an oratorio; a group of classic songs; and a group of modern songs.

Students selecting a legitimate orchestral or band instrument for major study toward 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—for historical and theoretical studies, and for graduate work in music education.

Master of Music—for graduate work in theory and composition, instrumental music, vocal music, and music education.

Master of Science in General Studies—a graduate degree for public-school teachers; the program is adapted to the needs of many students in music education.

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. Transcripts of the student's previous college work must be submitted, with the application, both to the Director of Admissions and to the dean. The applicant must satisfy all general admission requirements of the Graduate School, including the requirement of the equivalent of an undergraduate major in the special field in which he plans to do graduate work. The School of Music enforces additional admission requirements related to standards of ability and training in the several fields. Applications are accepted or rejected after individual consideration of the applicant's record in the light of these standards.

Courses in Music

LOWER-DIVISION COURSES

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 the analysis of the styles of Bach, Haydn, Mozart, Beethoven, and other eighteenth- and nineteenth-century composers. Bittner, Dieterich.

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—Myrick.

Piano—Bittner, Green, Hopkins,
Woods.

Voice—Gelhausen, Anderson.

Violin—Boughton.

Cello—Dieterich.

Harp—Calkins.

Woodwind Instruments—Chin-
burg, Peterson, Steele, Vag-
ner.

Brass Instruments—Lee.

Mus 195. **Band.** 1 hour each term.

Six hours maximum credit. Vagner.

Mus 196. **Orchestra.** 1 hour each term.

Six hours maximum credit. Cykler, Kratt.

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

Six hours maximum credit. Kratt, Keutzer.

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. Elston.

Mus 211, 212, 213. **Music Theory II.** 3 hours each term.

For description, see Mus 111, 112, 113. Prerequisite: Mus 111, 112, 113. 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. 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: 211, 212, 213. Elston.

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. Lee.

Mus 343, 344, 345. **Chamber Music.** 1 hour each term.

Prerequisite: consent of dean. Boughton, Vagner.

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 363, 364, 365. **Instrumental Techniques.** 1 hour each term.

Designed to provide a working knowledge of at least one basic instrument in

each of the following three divisions: woodwind, brass, and strings. For vocal music-education students only.

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. For music majors. 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 395. Band. 1 hour each term.

Six hours maximum credit. Vagner.

Mus 396. Orchestra. 1 hour each term.

Six hours maximum credit. Cykler, Kratt.

Mus 397. Choral Union. 1 hour each term.

Six hours maximum credit. Kratt, Keutzer.

Mus 398. Opera Workshop. 1 hour each term (6 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. Gelhausen, Anderson.

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

Mus 407. Seminar. 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. Elston.

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. Elston.

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 fughetta. Prerequisite: Mus 311, 312, 313. Elston.

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 431, 432, 433. 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.

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 Education.
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. Elston.

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. Elston.

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 431, 432, 433 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 431, 432, 433 or equivalent; consent of instructor. Kratt.

Mus 526, 527, 528. **Composition III.** 2 or 3 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. Elston.

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. Anderson, Boughton, Gelhausen, Green, Hopkins, Myrick, Wagner.

COURSES OFFERED ONLY IN SUMMER SESSIONS

Mus 434, 435, 436. **Applied Theory.** (G) 3 hours each term.

Courses in Music Education

LOWER-DIVISION COURSES

MuE 235, 236, 237. **Wind and Percussion Instruments I.** 1 hour each term.

A study of the wind and percussion instruments of the orchestra and band; for music-education students only. 2 recitations a week. Vagner, Lee.

UPPER-DIVISION COURSES

MuE 317, 318, 319. **Music Education.** 3 hours each term.

Survey of methods and materials used in the teaching of music in the public schools, with emphasis on supervision. 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. 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. Nye, Keutzer.

MuE 332, 333, 334. Stringed Instruments. 1 hour each term.

A study of the stringed instruments of the symphony orchestra. For music-education students only. 2 recitations a week. Boughton.

MuE 335, 336, 337. Wind and Percussion Instruments II. 1 hour each term.

Continuation of MuE 235, 236, 237. Vagner, Lee.

MuE 351. Voice Class. 2 hours.

Study of the voice problems involved in the teaching of music in the public schools. For music-education students only. Anderson.

MuE 370, 371. 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. Required of majors in elementary education. Nye.

MuE 372. Music Methods for Elementary Teachers. 3 hours.

Experiences in teaching the various music activities in the elementary schools. Required of majors in elementary education. Nye.

Ed 408. Special Teaching Methods. 2 hours each term.

This course parallels practice teaching in the public schools. Observations, reports, and conferences on material and procedures used in choral and instrumental groups. Prerequisite: consent of instructor. Nye, Vagner.

Ed 415. Supervised Teaching. 1-12 hours any term (12 hours maximum credit.)

Prerequisite: consent of the School of Education.

MuE 426. Supervision of the General Music Program. (G) 3 hours.

The general music class; its organization and function. For music-education students following the instrumental option. Nye.

GRADUATE COURSES

MuE 426 may also be taken for graduate credit.

MuE 529. Choral Literature for Public Schools. 3 hours.

Repertory of choral groups in the public schools; problems of leadership, presentation, organization, and program planning. Prerequisite: consent of instructor. Nye.

MuE 530. String Literature for Public Schools. 3 hours.

Repertory for orchestra and other stringed-instrument groups in the public schools; problems of leadership, presentation, organization, and program planning. Prerequisite: consent of instructor. Boughton.

MuE 531. Wind Literature for Public Schools. 3 hours.

Repertory for bands and other wind-instrument groups in the public schools; problems of leadership, presentation, organization, and program planning. Prerequisite: consent of instructor. Vagner, Lee.

MuE 532. Problems in Music Education. 3 hours.

Research, reports, and discussion of problems and issues in music education. Prerequisite: consent of instructor. Nye.

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

Philosophy, supervision, curriculum, materials, and procedures of music teaching in the elementary school. Research in problems involving music and related areas of instruction. Nye.

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

Continuation of MuE 533. Nye.

Department of Military and Air Science and Tactics

EDWIN B. DAILY, B.S., Colonel, U.S. Air Force; Head of Department.

ROBLEY D. EVENS, B.A., Lieutenant Colonel, U.S. Army; In Charge of Program in Military Science and Tactics.

THE Department of Military and Air Science and Tactics is organized as a regular instructional division of the University. The department consists of a unit of the Army 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 and Tactics 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 and 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 have not reached the age of 23 years at the time of admission to the University and who are citizens of the United States, unless excused; lower-division students who transfer to the University from other institutions are required to take the Basic Course until they have completed 93 term hours of college work. As grounds for exemption from military instruction, consideration is given to physical incapacity and to conscientious objection to military service. Veterans are granted credit for instruction in military science received in the armed services, and are exempt from the Basic Course requirements. However, in some instances, veterans must complete all or part of the Basic Course as a prerequisite for admission to the Advanced Course. (In the Army R.O.T.C., students who have completed three years of Junior R.O.T.C. are exempt from the First-Year Basic Course.)

One term hour of academic credit is granted for each term of work completed in the Basic Course. Students in the Basic Course are furnished an officer-type uniform and all required textbooks.

Advanced Course. The third and fourth years of military instruction, plus instruction in a six-week summer camp, constitute the Advanced Course. The summer camp, conducted at one of the regular installations of the Army or the Air Force, is normally attended by Advanced Course students in the summer between their 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 an officer-type uniform. Students attending summer camp are rationed and quartered, are paid at the rate for enlisted men of the first grade (\$75 a month), and receive a travel allowance of 5 cents a mile to and from camp.

Three term hours of academic credit is granted for each term of work completed in the Advanced Course, plus 6 term hours of credit for summer camp. Students completing the full four-year program thus receive a total of 30 term hours of credit, of which 24 hours is upper-division credit.

Admission to Advanced Course. For admission to the Advanced Course, 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. officials, with the concurrence of the University of Oregon.
- (3) Be less than 27 years of age upon entering the Army Advanced Course or less than 25 years of age upon entering the Air Force Advanced Course.
- (4) Have successfully completed such survey or general screening tests as may be prescribed.
- (5) Have completed the Basic Course or have received a waiver in lieu of the Basic Course.
- (6) Be a citizen of the United States.
- (7) Be physically qualified under standards prescribed by the Department of the Army or the Department of the Air Force.
- (8) Execute a written agreement with the United States government to complete the Advanced Course, if he remains in college, and to attend the summer camp at the time specified.
- (9) If enrolled in the Air Force R.O.T.C., agree to apply for flying training if physically qualified, unless specifically exempted; quotas for those not applying for flying training are limited.

Requirements for a Commission. To qualify for a commission, a student must complete the Advanced Course, and must satisfy the following minimum nonmilitary requirements: *Army*—(1) age limits, between 21 and 28 years; (2) successful completion of four years of work at the college level. *Air Force*—(1) age limit, less than 28 years (Air Force officers must be under 26½ years of age to be eligible to enter flight training); (2) a baccalaureate degree.

Relation of R.O.T.C. to Selective Service Act. Enrollment in the R.O.T.C. does not excuse a student from registration under the Universal Military Training and Service Act of 1951; all students who are 18 years of age must register under the provisions of this act. Selected students enrolled in the R.O.T.C. within quotas allotted by the Department of the Army or the Department of the Air Force, who are not exempt from selective service because of prior military service, may, under certain conditions, be deferred. A student within these quotas, in order to retain deferment, must maintain a high standard of proficiency in his academic studies and military courses.

Military Science and Tactics

Professor: LIEUTENANT COLONEL R. D. EVENS.

Assistant Professors: LIEUTENANT COLONEL E. W. RALF, LIEUTENANT COLONEL W. R. THOMAS, LIEUTENANT COLONEL F. G. WARD, CAPTAIN H. A., BUCKLEY,* CAPTAIN H. D. WOLAVER.

Administrative Assistants: MASTER SERGEANT W. S. BALDWIN, MASTER SERGEANT D. E. BROOKS, C. H. BILLINGTON.

Technical Assistants: MASTER SERGEANT W. J. HARDER,† MASTER SERGEANT W. C. LEDBETTER, MASTER SERGEANT D. R. PIERCE, MASTER SERGEANT W. L. SCOLES, SERGEANT (FIRST CLASS) C. L. SMITH.

THE GENERAL 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. (Courses planned as a part of the general military-science program will take the place of Mil 411, 412, 413 and Mil 414, 415, 416 in the fall of 1955.)

Students who have completed the Advanced Course, have received a baccalaureate degree from the University, and have qualified for designation as a Dis-

* Transferred Apr. 29, 1954.

† Transferred May 8, 1954.

tinguished Military Graduate may apply for appointment as commissioned officers in the Regular Army.

LOWER-DIVISION COURSES

Mil 111, 112, 113. First-Year Basic Course. 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. Second-Year Basic Course. 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. First-Year Advanced Course. 3 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 330. Summer Camp. 6 hours.

Practical work and application of theory covered in previous courses. Prerequisite: Mil 313.

Mil 411, 412, 413. Second-Year Advanced Course (Infantry). 3 hours each term.

Leadership, drill, and exercise of command; military training methods; administration; military law; troop movements; supply and evacuation; psychological warfare; command and staff procedures; military organization; motors and transportation; maps and aerial photographs; tactics; military team; new developments. 5 hours a week.

Mil 414, 415, 416. Second-Year Advanced Course (Transportation Corps). 3 hours each term.

Leadership, drill, and exercise of command; military training methods; administration; military law; military railroads in a theater of operations; psychological warfare; command and staff procedures; transportation services in a theater of operations; movement control in a theater of operations; communications; logistics; the installation transportation officer; combat and transportation intelligence. 5 hours a week.

Air Science

Professor: COLONEL E. B. DAILY.

Assistant Professors: LIEUTENANT COLONEL R. B. FORBES, LIEUTENANT COLONEL S. S. SHEFFIELD, MAJOR J. C. MANLEY, MAJOR N. N. MIHAILOV, JR.,* MAJOR C. J. PURCELL, MAJOR G. R. SMITH,† MAJOR L. E. TIFFANY, CAPTAIN R. A. LAURENCE, CAPTAIN M. A. SALEMI.

Administrative Assistants: MASTER SERGEANT J. O. BATEMAN, MASTER SERGEANT L. A. CALVERT, MASTER SERGEANT H. A. CASE, MASTER SERGEANT F. L. FINAN, MASTER SERGEANT J. J. PALMER, MASTER SERGEANT J. D. PERRY, MASTER SERGEANT H. L. WICKMAN.

THE AIR Force Reserve Officers' Training Corps program consists of a broad generalized curriculum of military studies, oriented to an understanding of air power and of its importance and influence in modern civilization.

The Basic Course includes instruction in the utilization of aircraft as a basic instrument of air power, the military and political significance of global geography, international security organizations, and the instruments of national security. The course also includes instruction in the elements of aerial warfare,

* Transferred May 20, 1954.

† Transferred Mar. 29, 1954.

designed to give the student an understanding of the fundamentals of modern air power.

The Advanced Course includes instruction designed specifically to qualify the student as an officer in the Air Force, and to provide him with a sound background of military training. Emphasis is placed on leadership, management, and advanced instruction in Air Force subjects. Second-year Advanced Course students are required to take National Power and Strategy (PS 422) during the winter term, in place of academic instruction in air science; attendance at the Air Force field leadership laboratory is required throughout the academic year.

It is anticipated that vacancies in the Advanced Course and commissions in the Air Force will be limited largely to students who are physically qualified for, and volunteer to apply for, flight training as pilots or observers. A very small number of vacancies in administrative and technical fields have been available in the past for students who are not qualified for flight training; a few such vacancies may be available in the future.

LOWER-DIVISION COURSES

Mil 114, 115, 116. First-Year Basic Course. 1 hour each term.

Obligations for and significance of service in the Armed Forces. Historical development of aviation; fundamentals of global geography, international tensions, security structures, and the role of the United States in world leadership. Historical development of the Armed Forces as instruments of national military security. Basic military training in leadership, drill, and exercise of command. 3 hours a week.

Mil 221, 222, 223. Second-Year Basic Course. 1 hour each term.

Elements of aerial warfare; types of targets, weapons, delivery aircraft. Air bases as platforms for the delivery of weapons. United States Air Force combat and support organizations; career opportunities. Basic military training in leadership, drill, and exercise of command. 3 hours a week.

UPPER-DIVISION COURSES

Mil 321, 322, 323. First-Year Advanced Course. 3 hours each term.

Responsibilities and functions of the Air Force commander and his staff. Problem solving, conference techniques in the solution of problems, and techniques of oral and written communications. Types of courts martial; trial procedures and board procedures. Aerodynamics and propulsion, aircraft engines, navigation and weather. Functions of the air base and of assigned officers. Field laboratory in leadership, drill, and exercise of command for cadet officers and noncommissioned officers. 5 hours a week.

Mil 332. Air Force Summer Camp. 6 hours.

Physical training. Familiarization with and qualification firing of carbine, pistol, and submachine gun. Preflight, inflight, and postflight activities of air crewmen. Duties of wing headquarters, the primary mission group, the maintenance and supply group, and the air-base group. 6 weeks, June and July. Selected Air Force bases.

Mil 421, 422. Second-Year Advanced Course. 3 hours each term, fall and spring.

Mature treatment of military and political factors affecting air power and its employment. Analysis of the art of leadership, fundamentals of group relations, Air Force management methods, practice of the principles of leadership, career guidance, briefing for commissioned service. Critique of summer-camp activities. Field laboratory in leadership, drill, and exercise of command, for cadet officers. Students are required to take PS 422 in the winter term. 5 hours a week.

Graduate School

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

RAYMOND T. ELLICKSON, Ph.D., Associate Dean of the Graduate School.

Graduate Council

E. L. JOHNSON (chairman), J. V. BERREMAN, R. T. ELLICKSON, A. A. ESSLINGER, R. R. FERENS, C. W. HINTZ, P. G. HOFFMAN, R. A. LITTMAN, C. W. MACY, A. F. MOURSUND, R. E. NYE, A. A. SANDIN, HOYT TROWBRIDGE.

IN THE discipline of undergraduate education the primary aim is to prepare the student for cultured living and intelligent citizenship, and in 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 dentistry, law, and medicine, is administered through the Graduate School. The formulation of graduate programs in their special fields and the working out and direction of the programs of individual students are the responsibilities of the instructional department, subject, however, to the general rules and requirements of the Graduate School.

The Graduate School, with the advice and assistance of the faculty Research Committee, also administers the University's program for the encouragement of research by members of its faculty, through the provision of necessary facilities and through grants in aid.

Although honorary master's and doctor's degrees were conferred by the University in the 1880s, a program of graduate study with definite residence requirements was first established in 1897; two master's degrees, under these standards, were conferred in 1899. The Graduate School was organized in 1900. For many years, the graduate program was limited to work toward the master's degree. Requirements for the degree of Doctor of Philosophy were first announced in 1920; the first doctor's degree was granted in 1926.

In 1933, as a part of the original plan of the Oregon State System of Higher Education, an interinstitutional Graduate Division was created for the administration of graduate work in all institutions of the System. In October 1946, the State Board of Higher Education returned to the institutions direct responsibility for their programs of advanced study, and re-established the University Graduate School.

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 and physical education, journalism, medical sciences (at the Medical School in Portland), and music. 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, history, mathematics, medical sciences, physical education, physics, political science, psychology, Romance languages, sociology.

Doctor of Education: education.

Master of Arts (departmental): anthropology, architecture, art, biology, business administration, chemistry, economics, education, English, geography, geology, health and physical education, history, journalism, landscape architecture, mathematics, medical sciences, music, philosophy, physics, political science, psychology, Romance languages, sociology, speech (also authorized—Classical languages, Germanic languages).

Master of Arts in General Studies: see page 259.

Master of Science (departmental): anthropology, architecture, art, biology, business administration, chemistry, dental sciences (major work offered at present only in bacteriology), economics, education, geography, geology, health and physical education, history, journalism, landscape architecture, mathematics, medical sciences, music, physics, political science, psychology, sociology, speech.

Master of Science in General Studies: see page 260.

Master of Architecture: architecture, city and regional planning.

Master of Fine Arts: drawing and painting, sculpture, ceramics, weaving.

Master of Business Administration: business administration.

Master of Education: education.

Master of Landscape Architecture: landscape architecture, city and regional planning.

Master of Music: composition, instrumental music, vocal music.

General Regulations

THREE classes of graduate students are recognized: (1) those wishing to become candidates for a master's degree; (2) those wishing to become candidates for a doctor's degree; and (3) those wishing merely to take work beyond the requirements for the bachelor's degree. Students of the first and second classes follow programs organized in conformity with the rules stated below. Students of the third class register for the courses they desire, with the understanding that the institution is under no implied obligation to accept credit earned as credit toward a degree. Whether a student is adequately prepared to enroll for a particular course is determined by the instructor in charge and the head of the department.

Admission. A graduate of any accredited college or university is admitted to the Graduate School if his credentials indicate that he will be able to maintain a satisfactory scholastic average as a graduate student.

Admission to the Graduate School does not in itself entitle a student to become a candidate for a degree. Admission to candidacy for an advanced degree is granted only after the student has demonstrated, by passing a qualifying examination, the thoroughness of his preparation and his ability to do graduate work.

Provisional graduate standing may be granted to graduates of nonaccredited institutions. After at least one term of satisfactory graduate work in the University, such students may petition for regular graduate standing, and for credit in courses completed acceptably under provisional admission. The Graduate Record Examination may be required as additional validation.

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 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 before the end of the term in which the courses are taken.

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 normal load for a graduate student devoting all of his time to graduate study is 12 term hours of course work and 3 term hours for thesis. The maximum load is 16 term hours. For assistants and fellows, the maximum load is 12 term hours. Assistants receiving a fractional stipend may carry a maximum of 15 term hours of work, but are advised to limit their study programs in proportion to the amount of service rendered. All graduate students who devote part of their time to other occupations are expected to limit their programs in a similar fashion, according to the share of their time available for graduate work.

The student's graduate program should include a substantial amount of work with at least three faculty members offering graduate instruction.

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

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 400 courses designated (G) is restricted to seniors; undergraduate enrollment in 400 courses designated (g) is restricted to juniors and seniors.

Fees and Deposits. The regular fees and tuition for graduate students total \$55.00 per term. Students holding graduate or research assistantships or fellowships pay a special reduced fee of \$20.50 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.

Master of Arts and Master of Science

Credit Requirements. For the departmental Master of Arts or Master of Science degree, the student must complete a program of study totaling not less

than 45 term hours in courses approved for graduate credit. 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 complementary 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 Master of Arts and Master of Science degrees is three terms or summer sessions, in each of which the student earns 10 or more term hours of credit. One term of the required work in residence may be taken in the General Extension Division of the Oregon State System of Higher Education or at Oregon State College. (For the residence requirement for the degree of Master of Arts in General Studies, see page 259 below.)

The requirement of campus residence rests on the conviction that the objectives of most graduate programs cannot be attained unless the candidate devotes himself full time and wholeheartedly to the opportunities afforded by life in the academic community, enriched by close association with the faculty, competitive stimulation of fellow graduate students, ready access to research materials, and cultural opportunities outside the classroom. Modifications of the requirement may be made by the Graduate School in cases deserving special consideration.

Transferred Credit. A maximum of 15 term hours earned in graduate courses at other accredited institutions may be counted toward the master's degree, under the following conditions: (1) the courses must be relevant to the degree program as a whole; (2) the transfer must be approved by the student's major department and by the Graduate School; (3) 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 Master of Arts degree, the student must show, by examination or by adequate undergraduate courses (two years of college work), 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 Master of Science degree there is no foreign-language requirement, unless a language is required by the school or department.

Course Requirements. For the departmental Master of Arts or Master of Science degree, at least one year sequence in the 500-599 series (normally of seminar or research nature and for 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. A student wishing to become a candidate for a master's degree is given 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 examinations.

Thesis. In some schools and departments, all candidates for the Master of Arts or Master of Science 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 School office not less than two weeks before the date of his final oral examination: (1) three copies of his thesis, carrying the signature of his thesis adviser; and (2) six copies of an abstract not exceeding 500 word in length.

The three copies of the thesis are filed unbound, 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 of theses may be obtained on request to the Graduate School.

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—two in the student's major field, one in the minor field. The examining committee is 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.

Master of Arts in General Studies

The University offers the degree of Master of Arts in General Studies in fields in which graduate work is allocated to the institution. This degree is granted for achievement in cultural scholarship, not for specialized work in one of the traditional fields of learning. The student pursues a program of study selected from the offerings of not less than three departments or schools. The requirements or flexible, but the work must be integrated and organic. The student's thesis provides the focus which determines the selection of courses for his program. On the recommendation of the student's adviser, the foreign-language requirement may be waived.

The residence requirement for the Master of Arts in General Studies is the same as for a departmental master's degree (see page 258), except that 33 of the 45 term hours of work required may be taken in the Portland State Extension Center or in approved courses in the General Extension Division. The remaining 12 hours must be earned on the Eugene campus, and of these 12 hours at least 10 must be earned in one term or summer session.

The program is supervised by the Committee on General Studies, of which Dr. J. V. Berreman, professor of sociology, is chairman.

In addition to courses chosen from the offerings of the several University schools and departments, the following courses are available for the general-studies student:

GSSt 501. **Research in General Studies.** Hours to be arranged.

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

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

Master of Science in General Studies

The University offers a program of graduate study planned especially for students working toward the satisfaction of the Oregon state requirement of a fifth year of college work for regular high-school teacher certification. The program leads to the degree of Master of Science in General Studies.

Enrollment in the program is open to any person who is eligible for admission to the Graduate School; the student must, however, have a reasonable background of undergraduate study in the fields or departments in which he proposes to work, and must complete prerequisites for specific courses. The requirements for the degree of Master of Science in General Studies are:

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

(a) A total of 36 term hours in graduate courses in two departments or fields of study (other than education), including not less than 15 term hours in each field. At least 6 term hours must be in 500 courses in one of the two departments; the student's program must be planned to provide well-rounded knowledge and must not be made up of scattered, unrelated courses.

(b) Between 9 and 15 term hours in graduate courses in the field of education, the number of hours to be determined on the basis of the work in education completed by the student as an undergraduate. (The Oregon state teacher's certification requirement specifies 9 term hours of graduate work in education and 6 term hours in education electives, which may be taken either at the undergraduate or the graduate level; students who take these electives in the fifth year must complete a total of 15 term hours of graduate work in education to qualify for the degree of Master of Science in General Studies.)

(2) Satisfaction of the regular requirements of the Graduate School for the master's degree, except that no thesis is required.

The program is administered by the dean of the Graduate School and supervised by the Committee on General Studies, of which Dr. J. V. Berreman, professor of sociology, is chairman.

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.

Students whose academic work, both undergraduate and graduate, has been primarily at the University of Oregon are not accepted as candidates for the Doctor of Philosophy degree, except upon special approval of the Graduate Council. Ordinarily, the candidate should have had at least one year of upper-division or graduate work at another institution.

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 had 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 Doctor of Philosophy 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.

Preliminary Examinations. The student working toward the Doctor of Philosophy degree must pass a group of comprehensive preliminary examinations (oral or written, or both) not less than one academic year before he expects to receive the degree. These examinations, prepared and evaluated by his advisory committee, 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 Doctor of Philosophy degree, a reading knowledge of French and German must be demonstrated by a formal examination in each language. These examinations should be taken as early as possible after the beginning of graduate work, and must be passed before the preliminary examinations may be taken. Another foreign language may, with the approval of the Graduate Council, be substituted for either French or German if, in the opinion of the student's advisory committee, it will be of more value in his program.

Thesis. Every candidate for the Doctor of Philosophy 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 deposited unbound in the Graduate Office not less than four weeks before the time set for the final examination. Seven copies of an abstract of the approved thesis (not longer than 1,500 words) must be filed two weeks before the examination.

Final Examination. The final examination for the Doctor of Philosophy 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.

At 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.

Other Graduate Degrees

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. Two written comprehensive final examinations are required, one in the candidate's area of concentration, the other in the more general functional areas of teaching.

The residence requirement for the Master of Education degree is the same as for the Master of Arts or Master of Science degree (see page 258), except that 33 of the 45 term hours of work required may be taken in the Portland State Extension Center or in approved courses in the General Extension Division. The remaining 12 hours must be earned on the Eugene campus, and of these 12 hours at least 10 must be earned in one term of summer session.

Master of Fine Arts. Work leading to this degree is offered in four fields: drawing and painting, sculpture, ceramics, weaving. The requirements include the completion of an extended creative project of professional character, instead of a thesis. Normally, candidates having a high degree of creative ability may expect to spend about two years on this project and correlated course work before receiving the degree. 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. For further information, see page 170.

Master of Architecture, Master of Landscape Architecture. For requirements, see page 170.

Master of Music. Work leading to the degree of Master of Music is offered in three fields: composition, instrumental music, and vocal music. To be admitted to candidacy for the Master of Music 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 for the degree 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 "thesis" for the Master of Music degree may be a research paper, an original composition in the large form, or a public instrumental or vocal performance. The student of vocal music must demonstrate a reading knowledge of at least two foreign languages and satisfactory diction in a third.

Doctor of Education. To be admitted to graduate study toward the degree of Doctor of Education, the student must submit evidence of successful professional experience. Three full years of graduate work (135 term hours), including work for the master's degree, are required for the Doctor of Education degree. This work should be distributed approximately as follows: education, 60 term hours; work in a field or fields, other than education, which is closely related to the major aim of the student's graduate program, 40 term hours; electives, 20 term hours; doctoral thesis, 15 term hours.

Students whose academic work, both undergraduate and graduate, has been primarily at the University of Oregon are not accepted as candidates for the Doctor of Education degree except upon special approval of the Graduate Council. Ordinarily the candidate should have had at least one year of upper-division or graduate work at another institution.

The student chooses one of ten divisions within the field of education as a field of major interest. Normally, from 20 to 30 term hours of work (exclusive of thesis) are taken in this major field and from 12 to 18 term hours of work are selected from each of two related divisions.

Physical education and music education are recognized as divisions of the field of education; students choosing one of these two as a field of major interest complete from 40 to 60 term hours of work in the major (exclusive of thesis) and at least 30 term hours in two related divisions.

The candidate must present a thesis on a problem in the field of education. The thesis may be: (1) a mature and expert evaluation of existing knowledge in its application to the student's problem; (2) an original contribution to knowledge through research.

There is no foreign-language requirement for this degree, unless the student's program demands an acquaintance with foreign literature.

The student working toward the Doctor of Education degree takes the following examinations: (1) the Graduate Record Examination, during his first term of work toward the degree or before registering for a second term; (2) divisional examinations covering his major field in education and related fields, given after he has completed not less than 105 term hours of graduate work; (3) a final oral examination on his thesis.

Assistantships, Scholarships, and Fellowships

GRADUATE 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 15. 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 4641 Hollywood Blvd., Los Angeles 27, Cal.

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 \$900 to \$1,200 a year. Graduate assistants pay a special reduced fee of \$20.50 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 markedly superior work toward that degree completed. Teaching fellows give instructional assistance in their departments. 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 \$1,200 to \$1,500 a year. Fellows pay a special reduced fee of \$20.50 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, Committee on Scholarships and Grants in Aid, on official blanks furnished by his office, and must be filed before April 1.

Other Scholarships and Fellowships. Other scholarships and fellowships available to University graduate students are listed on pages 72-78. See especially: Eric W. Allen Memorial Fellowship, Robert A. Booth Fellowship in Public Service, Thomas Condon Fellowship in Palaeontology, Maud Densmore Fellowship in Music, Ion Lewis Scholarship in Architecture, Arthur P. Pratt Scholarship, Zimmerman Scholarship.

Graduate Work at the Medical School

THE University of Oregon Medical School offers graduate instruction leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees in the medical sciences: anatomy, bacteriology, biochemistry, pathology, pharmacology, and physiology. Graduate degrees earned at the Medical School are conferred by the University of Oregon, upon recommendation by the faculty of the Medical School. 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 doing work of this kind may qualify for graduate degrees.

Graduate Work in the Portland Center

IF ADEQUATE course offerings are available for an integrated program in the fields in which the student wishes to work, part of the requirements for master's degrees may be completed in the Portland State Extension Center of the Oregon State System of Higher Education.

The maximum amount of work which may be completed in the Portland Center toward the departmental Master of Arts or Master of Science degree or the Master of Science in General Studies is 15 term hours. A total of 33 term hours of work toward the Master of Arts in General Studies or the Master of Education degree may be completed in Portland. Degrees are awarded by the University or the State College according to major subject, in harmony with State System allocations of curricula.

Graduate work beyond the master's degree is not offered in the Portland Center.

Summer Sessions

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

THE regular sessions of the University are supplemented by an annual eight-week summer session. The summer program includes courses both for undergraduate and for graduate students; special attention is given to the needs of teachers in the public school.

Students who wish to earn credit toward degrees from the University of Oregon through summer study must satisfy the regular University requirements for admission, and should file credentials in the Registrar's Office as early as possible before the opening of the summer session (for credentials required, see pages 51-52).

The 1954 summer session opens on June 21 and closes in August 13. For the 1955 summer calendar, see page 9.

Detailed announcements of summer courses are included in a special Catalog, published annually in March. Copies will be furnished on request to the Director of Summer Sessions.

General Extension Division

JOHN F. CRAMER, D.Ed., Dean, General Extension Division; Professor of Education.

PHILIP G. HOFFMAN, Ph.D., Vice-Dean, General Extension Division; Associate Professor of History.

VIRON A. MOORE, D.Ed., Assistant Dean, General Extension Division; Head of State-Wide Services; Associate Professor of Education.

JAMES C. CAUGHLAN, Ph.D., Assistant Dean, General Extension Division; Director of Evening Program, Portland State Extension Center; Director of Portland Summer Session; Professor of Education.

STEPHEN E. EPLER, Ph.D., Director of Day Program, Portland State Extension Center; Professor of Education.

HOWARD J. AKERS, D.Ed., Administrative Assistant, Department of State-Wide Services; Head of Correspondence Study; Assistant Professor of Education.

JAMES M. MORRIS, B.S., Program Manager, Radio Station KOAC; Associate Professor of Radio Education.

W. CURTIS REID, Ph.D., Head of Department of Visual Instruction; Professor of Visual Education.

E. DEAN ANDERSON, M.A., Executive Secretary, High-School-College Relations.

THROUGH extension services the benefits of all the Oregon state institutions of higher education are brought to the people of the state in their own communities. All divisions of the Oregon State System of Higher Education seek through every means possible, so far as resources and facilities permit, to serve the entire state. All extension activities of the several institutions are administered through two coordinated extension services: the General Extension Division and the Federal Cooperative Extension Service.* The latter includes all extension activities carried on jointly with the Federal government.

The General Extension Division of the Oregon State System of Higher Education serves the people of the state through adult education by means of extension classes, correspondence study, visual instruction, and radio. Its work is organized into the following departments: at Eugene: Correspondence Study, State-Wide Extension Classes; at Corvallis: Visual Instruction, Radio Station KOAC; at Portland: Portland State Extension Center.

Portland State Extension Center. The General Extension Division offers a full program of day classes and evening classes in the Portland State Extension Center, located at 1620 S. W. Park Avenue, Portland. Classes are taught by instructors from the University of Oregon, Oregon State College, the Colleges of Education, and the Portland State Extension Center, and by approved specialists in business and the professions.

Department of Visual Instruction. The Department of Visual Instruction of the General Extension Division provides instructional materials such as glass and film slides, microscope slides, and motion-picture films suitable for educational use by schools, community clubs, and other organizations. A special bulletin lists the materials available. The department also provides a consultant

* The Federal Cooperative Extension Service is charged with extending to the residents of the state the benefits, advantages, and available information of the State College and of the United States Department of Agriculture in agriculture and home economics. This service includes all forms of cooperative off-campus instruction and assistance in those subjects which can be adapted, through extension methods, to the direct needs of the people of the state, particularly in enlarging and enriching the agricultural and home interests of Oregon.

service to school districts requesting it and an artist's service for the various institutions of the Oregon State System of Higher Education.

The department is maintained jointly by the General Extension Division and the Federal Cooperative Extension Service.

Radio Station KOAC. Radio Station KOAC is Oregon's state-owned station, of which the State Board of Higher Education is the managing agency. The station is located at Corvallis on the campus of Oregon State College, the licensee and operator of the physical plant; the General Extension Division directs the program service. Program talent is drawn from Oregon State College, the University of Oregon, and the three Oregon colleges of education, and from various departments of the state government. Many other public agencies, organizations, and individuals contribute frequently to broadcasts. KOAC operates with 5,000 watts power on a frequency of 550 kilocycles by authority of the Federal Communications Commission. The station is operated in the interest of the Oregon public, and programs are free of commercialism. Program schedules are issued periodically and will be furnished on request. Studios are located at Corvallis, Eugene, Monmouth, and Salem. "Tapes for Teaching" are provided for the schools of Oregon as a special service.

Department of State-Wide Services. The program of the Department of State-Wide Services includes extension classes in communities outside Portland and correspondence study.

Through its program of state-wide extension classes, the General Extension Division provides the people of the state of Oregon with opportunities for college instruction and educational growth in their home communities. Courses will be organized in any community which can furnish a suitable meeting place for a class and give assurance of an enrollment large enough to pay, through course fees, the cost of providing an instructor. The state-wide extension program includes both courses for college credit and noncredit courses. Through the Department of State-Wide Services, the General Extension Division cooperates in the operation of the local community-college program at Bend, Oregon.

Correspondence study at home under competent supervision is provided through carefully organized courses of instruction prepared by members of the faculties of the Oregon State System of Higher Education. These lesson outlines take the place of lectures and class exercises given to students in residence. More than two hundred courses in a wide variety of subjects are offered. Courses may be taken without credit by persons who enjoy the intellectual stimulus of organized, directed study, or they may be taken for credit toward a college degree. There are no special entrance requirements for correspondence courses; any adult who has sufficient preparation to profit from them may enroll. Complete information is published in a special Correspondence Study Bulletin.

Summary of Enrollment and Degrees Granted 1952-53

ENROLLMENT BY CLASS AND MAJOR, REGULAR SESSIONS, 1952-53

Division	Spec.	Fr.	So.	Jr.	Sr.	Gr.	Total
College of Liberal Arts:							
Lower Division.....	231	999	926	.....	.....	.....	2,156
Basic Liberal Studies.....	.....	.....	.....	1	1	.....	2
Far Eastern Studies.....	.....	.....	.....	3	5	.....	8
General Arts and Letters.....	.....	.....	.....	.....	1	.....	1
General Science.....	.....	.....	.....	11	10	.....	21
General Social Science.....	.....	.....	.....	10	12	.....	22
Preidental.....	1	31	23	10	2	1	68
Prelegal.....	1	51	39	16	2	.....	109
Premedical.....	1	67	46	25	8	4	151
Prenursing.....	1	39	14	1	1	.....	56
Anthropology.....	.....	.....	.....	4	5	16	25
Biology.....	.....	.....	.....	8	10	21	39
Chemistry.....	.....	.....	.....	9	7	26	42
Economics.....	.....	.....	.....	8	15	16	39
English.....	.....	.....	.....	36	41	17	94
Foreign Languages.....	.....	.....	.....	6	8	14	28
Geography and Geology.....	.....	.....	.....	14	12	19	45
History.....	.....	.....	.....	41	35	27	103
Mathematics.....	.....	.....	.....	6	6	26	38
Philosophy.....	.....	.....	.....	2	6	7	15
Physics.....	.....	.....	.....	3	5	18	26
Political Science.....	.....	.....	.....	15	29	16	60
Psychology.....	.....	.....	.....	22	27	40	89
Sociology.....	.....	.....	.....	21	28	10	59
Speech.....	.....	.....	.....	21	30	12	63
Total, College of Liberal Arts.....	235	1,187	1,048	293	306	290	3,359
School of Architecture and Allied Arts.....	.....	.....	.....	63	172	31	266
School of Business Administration.....	.....	.....	.....	157	208	36	401
School of Education.....	.....	.....	.....	47	40	159	246
School of Health and Physical Education.....	1	33	30	24	22	40	150
School of Journalism.....	.....	.....	.....	24	21	12	57
School of Law.....	.....	.....	.....	.....	22	50	72
School of Music.....	.....	.....	.....	25	26	29	80
General Studies.....	.....	.....	.....	.....	.....	44	44
Total, Eugene campus.....	236	1,220	1,078	633	817	691	4,675
Dental School (Portland).....	.....	.....	.....	.....	.....	.....	*316
Medical School (Portland).....	.....	.....	.....	.....	.....	.....	*811
Total, University of Oregon.....	.....	.....	.....	.....	.....	.....	5,802

* Enrollment figures for the Dental and Medical schools are for a full year of four terms.

ENROLLMENT BY SEX, ALL SESSIONS, 1952-53

Session	Men	Women	Total
Summer session at Eugene, 1952.....	1,083	591	1,674
Fall term at Eugene, 1952-53.....	2,720	1,511	4,231
Winter term at Eugene, 1952-53.....	2,569	1,425	3,994
Spring term at Eugene, 1952-53.....	2,449	1,390	3,839
Net total regular sessions at Eugene, 1952-53.....	3,012	1,663	4,675
Net all sessions, Dental School at Portland, 1952-53.....	288	28	316
Net all sessions, Medical School at Portland, 1952-53.....	302	509	811
Net total, all sessions, University of Oregon, 1952-53.....	4,377	2,700	7,077

ENROLLMENT IN GENERAL EXTENSION DIVISION

July 1, 1952—June 30, 1953

Classes	Under-graduate	Graduate	Non-credit	Total
Extension classes:				
Portland State Extension Center (day).....	1,663	.....	.....	1,663
Portland State Extension Center (night).....	1,800	2,245	836	4,881
State-wide classes (67 centers).....	3,477	1,240	753	5,470
Central Oregon Community College.....	177	.....	.....	177
Total, extension classes.....	7,177	3,485	1,589	11,191
Correspondence study:				
New registrations.....	2,487	.....	.....	2,487
Old registrations.....	2,600	.....	.....	2,600
Total correspondence study.....	5,087	.....	.....	5,087
Total, General Extension Division.....	12,204	3,485	1,589	17,278

SUMMARY OF DEGREES GRANTED, 1952-53

Advanced degrees:	
Doctor of Philosophy.....	9
Doctor of Education.....	9
Doctor of Dental Medicine.....	65
Doctor of Medicine.....	70
Master of Arts.....	47
Master of Science.....	97
Master of Architecture.....	3
Master of Business Administration.....	4
Master of Education.....	170
Master of Fine Arts.....	3
Master of Music.....	2
Total, advanced degrees.....	479
Bachelor's degrees:	
Bachelor of Arts.....	187
Bachelor of Science.....	591
Bachelor of Architecture.....	28
Bachelor of Business Administration.....	80
Bachelor of Education.....	7
Bachelor of Interior Architecture.....	1
Bachelor of Landscape Architecture.....	6
Bachelor of Laws.....	15
Bachelor of Music.....	6
Total, bachelor's degrees.....	921
Total degrees granted.....	1,400

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