

CATALOG
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1959-60

University
of Oregon

MEDICAL SCHOOL

PORTLAND,
OREGON

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UNIVERSITY OF OREGON



OREGON STATE SYSTEM OF HIGHER EDUCATION

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AERIAL VIEW OF THE UNIVERSITY OF OREGON MEDICAL SCHOOL CAMPUS, PORTLAND

**UNIVERSITY
OF OREGON
MEDICAL
SCHOOL**

1959-60 CATALOG

PORTLAND, OREGON

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Oregon State System of Higher Education

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

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

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

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

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

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Board members are appointed to six-year terms by the Governor of
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CHARLES D. BYRNE, Ed.D.....	1950-1955

University of Oregon Medical School Calendar, 1959-60

Medical and Graduate Students

Fall Term, 1959-60

September 14, *Monday*.....Registration
 September 15, *Tuesday*.....Instruction begins
 September 28, *Monday*.....Last day to register for full credit
 or to change courses
 November 26, *Thursday*.....Thanksgiving Day, holiday
 December 5, *Saturday*.....Fall term ends

Winter Term, 1959-60

December 7, *Monday*.....Instruction begins
 December 19, *Saturday*.....Last day to register for full credit
 or to change courses
 December 21, 1959 to January 2, 1960.....Christmas vacation
 March 12, *Saturday*.....Winter term ends

Spring Term, 1959-60

March 21, *Monday*.....Instruction begins
 April 11, *Monday*.....Last day to register for full credit
 or to change courses
 May 30, *Monday*.....Memorial Day, holiday
 June 10, *Friday*.....Commencement
 June 11, *Saturday*.....Spring term ends

Summer Term, 1960

June 13, *Monday*.....Registration
 June 13, *Monday*.....Instruction begins
 June 27, *Monday*.....Last day to register for full credit
 or to change courses
 July 4, *Monday*.....Independence Day, holiday
 September 3, *Saturday*.....Summer term ends

University of Oregon Medical School Calendar, 1959-60

Medical Technology Students

Fall Term, 1959-60

September 14, *Monday*.....Registration
 September 15, *Tuesday*.....Instruction begins
 September 28, *Monday*.....Last day to register for full credit or
 to change courses
 November 26, *Thursday*.....Thanksgiving Day, holiday
 November 29, *Saturday*.....Fall term end

Winter Term, 1959-60

November 30, *Monday*.....Registration and instruction begins
 December 14, *Monday*.....Last day to register for full credit or
 to change courses
 December 21, 1959 to January 2, 1960.....Christmas vacation
 February 27, *Saturday*.....Winter term ends

Spring Term, 1959-60

March 7, *Monday*.....Registration and instruction begins
 March 21, *Monday*.....Last day to register for full credit or
 to change courses
 May 21, *Saturday*.....Spring term ends

In addition to the classroom instruction schedule listed above, students are required to be in attendance for laboratory instruction as required by the Department of Clinical Pathology. The entire program of classroom and laboratory instruction covers a period of one calendar year.

University of Oregon Medical School

Officers of Administration

JOHN R. RICHARDS, Ph.D., Chancellor, Oregon State System of Higher Education; Professor.

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

DAVID W. E. BAIRD, M.D., LL.D., Dean of the Medical School; Professor of Medicine.

CHARLES N. HOLMAN, M.D., Associate Dean of the Medical School; Professor of Medicine.

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JAMES W. ROSENFELD, M.D., Professor Emeritus of Pediatrics.
HARRY J. SEARS, Ph.D., Professor Emeritus of Bacteriology.
LAURENCE SELLING, M.D., Professor Emeritus of Medicine.

Faculty*

JUSTIN A. AALPOEL, M.D., Clinical Instructor in Surgery (1958).
B.S. (1943), M.D. (1945), University of Chicago.

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B.A. (1930), M.D. (1934), Oregon.

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B.S. (1922), University of Washington; M.D. (1926), Oregon.

JOSEPH J. ADAMS, B.B.A., Director of Public Affairs; Alumni Executive Secretary (Assistant Professor) (1951).
B.B.A. (1949), Gonzaga.

H. VICTOR ADIX, M.D., Clinical Instructor in Otolaryngology (1934).
B.A. (1928), M.D. (1930), Oregon; M. Med. Sc. (1933), Pennsylvania.

CLIFFORD V. ALLEN, M.D., Clinical Associate in Radiology (1955).
M.D. (1933), Iowa.

HOWARD E. ALLEN, M.D., Clinical Associate in Medicine (1947).
B.A. (1935), Utah; M.D. (1938), Pennsylvania.

CARL G. ASHLEY, M.D., Assistant Clinical Professor of Pediatrics (1936).
B.A. (1927), M.D. (1931), Oregon.

KURT W. AUMANN, M.D., Clinical Instructor in Medicine (1948).
B.S. (1936), Washington State; M.A. (1940), M.D. (1942), Oregon.

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A.B. (1938), Lafayette; M.D. (1942), Pennsylvania.

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M.D. (1948), Harvard.

S. GORHAM BABSON, M.D., Associate Clinical Professor of Pediatrics (1941).
B.S. (1933), M.D. (1936), Oregon.

DANIEL M. BACHMAN, M.D., Instructor in Medicine (1956).
B.A. (1949), Reed; M.S., M.D. (1952), Oregon.

ROBERT L. BACON, Ph.D., Professor of Anatomy (1955).
B.S. (1940), Hamilton; Ph.D., (1944), Yale.

* The year in parenthesis following the name of each faculty member indicates the date of original appointment to the faculty.

PAUL BAILEY, M.D., Clinical Professor of Otolaryngology (1929).
M.D. (1925), Oregon.

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B.S. (1951), Oregon State; M.D. (1953), Oregon.

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M.D. (1926), Oregon; LL.D. (1946), University of Portland.

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B.A. (1939), Cornell; M.D. (1943), Columbia.

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M.D. (1953), Stritch.

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B.A. (1944), Montana State University.

JOHN W. BASSETT, M.D., Clinical Instructor in Surgery (1954).
B.S. (1943), Arkansas; M.D. (1944), Tulane.

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B.A. (1945), Reed; M.D. (1946), Oregon.

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A.B. (1940), Whitman; M.D. (1950), Louisville.

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B.A. (1945), M.D. (1947), Oregon.

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B.A. (1941), Sarah Lawrence; M.S. (1942), Ph.D., (1945), Columbia.

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B.A. (1938), Reed; M.D. (1942), Oregon.

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A.B. (1946), Haverford; M.D. (1947), Temple; M.Sc. (1953), Pennsylvania.

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B.S. (1924), Oregon State; M.D. (1937), Oregon.

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B.A. (1943), Wesleyan University; M.D. (1946), Harvard.

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B.A. (1932), Lehigh University; M.D. (1936), Johns Hopkins.

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B.S. (1926), M.B., Ch.B. (1929), M.D. (1946), Manchester (England); F.R.C.S. (1932), Royal College of Surgeons.

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B.S. (1937), M.D. (1939), Oklahoma.

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B.A. (1943), M.D. (1945), Oregon.

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A.B. (1923), M.D. (1926), Oregon.

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A.B., B.S. (1925), Linfield; M.D. (1929), Oregon; M.S. (1933), Minnesota.

ARTHUR M. BERGMAN, M.D., Clinical Associate in Medicine (1948).
B.A. (1940), M.D. (1943), New York University.

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B.S. (1945), M.D. (1947), Illinois.
- SIEGFRIED R. BERTHELSDORF, M.D., Clinical Instructor in Psychiatry (1957).
B.A. (1934), M.A., M.D. (1939), Oregon.
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M.D. (1948), Manitoba.
- ADALBERT G. BETTMAN, M.D., Clinical Associate in Surgery (1932).
M.D. (1907), Oregon.
- JOSEPH B. BILDERBACK, M.D., Clinical Professor of Pediatrics (1911).
M.D. (1905), Oregon.
- DANIEL K. BILLMEYER, M.D., Clinical Instructor in Pediatrics (1956).
B.S. (1943), M.D. (1946), Chicago.
- THEODORE M. BISCHOFF, M.D., Clinical Instructor of Obstetrics and Gynecology (1948).
B.A. (1937), Reed; M.D. (1939), Oregon.
- ROBERT A. BISSETT, D.M.D., Clinical Instructor in Dental Medicine (1950).
B.S. (1947), D.M.D. (1950), Oregon.
- HARRY C. BLAIR, M.D., Clinical Professor of Orthopedic Surgery (1926).
M.D. (1915), Oregon.
- WILLIAM D. BLAKE, M.D., Associate Professor of Physiology (1952).
A.B. (1940), Dartmouth; M.D. (1943), Harvard.
- JOHN A. BLANCHARD, M.D., Clinical Instructor in Medicine (1954).
B.S. (1941), Montana State College; M.D. (1950), Oregon.
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A.B. (1927), Willamette; M.D. (1933), Oregon.
- JAMES F. BLICKLE, M.D., Clinical Instructor in Medicine (1952).
A.B. (1943), Oregon; M.D. (1946), Creighton.
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B.A. (1937), Whitman; M.D. (1943), Oregon.
- ROSE MARY BOCEK, M.S., Instructor in Biochemistry (1957).
B.S. (1946), Marylhurst; M.S. (1954), Oregon.
- DARRELL C. BOLLAM, M.D., Clinical Associate in Surgery (1937).
B.S. (1927), M.D. (1928), Oregon.
- WILBUR M. BOLTON, M.D., Assistant Clinical Professor of Otolaryngology (1929).
A.B. (1923), M.D. (1926), Oregon.
- ALLEN M. BOYDEN, M.D., Associate Clinical Professor of Surgery (1946).
B.A. (1929), Oregon; M.D. (1932), M.S. (1937), Michigan.
- THOMAS J. BOYDEN, M.D., Clinical Instructor in Orthopedic Surgery (1953).
B.A. (1944), M.D. (1946), Oregon.
- GEORGE A. BOYLSTON, M.D., Assistant Clinical Professor of Medicine (1946).
B.S. (1936), M.S. (1937), M.D. (1939), Northwestern.
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Head of Division of Child Psychiatry (1948).
B.S. (1925), Cornell; M.D. (1929), Harvard.
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D.D.S. (1924), California.
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B.A. (1936), Concordia; M.D. (1946), Oregon.

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B.S. (1936), Oregon State; M.D. (1943), Oregon.
- GWYNN C. BRICE, Administrative Assistant, Assistant Director of Outpatient Clinic (Assistant Professor) (1946).
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Ph.D., (1916), Montana State University; M.D. (1924), Oregon.
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B.A. (1912), M.D. (1914), Columbia.
- DONALD M. BRINTON, M.D., Clinical Instructor in Anesthesiology (1959).
B.A. (1945), M.D. (1947), Oregon.
- JOHN M. BROOKHART, Ph.D., Professor of Physiology; Chairman of Department (1949).
B.S. (1935), M.S. (1936), Ph.D. (1939), Michigan.
- WEBSTER CLAY BROWN, D.D.S., M.D., Clinical Instructor in Surgery (1958).
B.S. (1942), Wiley; D.D.S. (1945), M.D. (1950), Meharry.
- CLARENCE W. BRUNKOW, M.D., Assistant Clinical Professor of Surgery (1927).
B.A. (1917), Oregon; B.S. (1919), M.B. (1920), M.D. (1921), Minnesota.
- JAMES E. BUCKLEY, M.D., Clinical Instructor in Surgery (1932).
B.S. (1924), Puget Sound; B.A. (1925), M.A. (1928), M.D. (1928), Oregon.
- ROBERT E. BUCKMASTER, M.D., Clinical Instructor in Orthopedic Surgery (1953).
B.S. (1941), Hartwick; M.D. (1944), New York Medical.
- WINFRED H. BUEERMAN, M.D., Clinical Associate in Surgery (1928).
B.S. (1917), Linfield; M.D. (1921), Columbia; Ph.D. (1927), Minnesota.
- PAUL R. BURGNER, M.D., Clinical Instructor in Medicine (1956).
B.S. (1948), M.D. (1952), Oregon.
- ROBERT P. BURNS, M.D., Associate in Ophthalmology (1959).
B.S. (1945), University of Portland; M.D. (1947), Oregon.
- WILLIAM Y. BURTON, M.D., Associate Clinical Professor of Radiology (1940).
A.B. (1931), B.S. (1933), Missouri; M.D. (1936), Washington University.
- JOHN W. BUSSMAN, M.D., Clinical Instructor in Pediatrics (1954).
B.S. (1946), M.B. (1947), M.D. (1948), Minnesota.
- JOHN L. BUTLER, M.D., Assistant Professor of Psychiatry (1958).
B.S. (1942), Idaho; M.D. (1946), Johns Hopkins.
- BARNEY C. BYBEE, D.M.D., Clinical Instructor in Dental Medicine (1957).
B.S. (1939), Utah State Agricultural; D.M.D. (1949), Oregon.
- IVOR M. CAMPBELL, M.D., Clinical Instructor in Psychiatry (1946).
M.D. (1926), Toronto.
- NATHAN J. CAMPBELL, M.D., Clinical Instructor in Surgery (1950).
M.D. (1949), Temple.
- PAUL CAMPBELL, M.D., Clinical Instructor in Orthopedic Surgery (1956).
B.A. (1945), M.D. (1949), Stanford; M.S. (1955), Michigan.
- SANTE CANIPAROLI, M.D., Clinical Instructor in Surgery (1935).
B.A. (1927), M.D. (1930), Oregon.
- C. ELMER CARLSON, M.D., Clinical Professor of Orthopedic Surgery (1925).
A.B. (1917), Reed; M.D. (1920), Oregon.
- C. CONRAD CARTER, M.D., Clinical Instructor in Medicine (1956).
B.A. (1946), Reed; M.D. (1948), Oregon.
- RAYMOND A. CASE, JR., M.D., Clinical Instructor in Orthopedic Surgery (1959).
M.D. (1947), Hahnemann.

- CHARLES E. CATLOW, JR., M.D., Clinical Instructor in Urology (1949).
B.S. (1943), University of Portland; M.D. (1944), Oregon.
- GEORGE E. CHAMBERLAIN, M.D., Clinical Professor of Otolaryngology (1947).
B.A. (1936), M.D. (1938), Oregon.
- JOHN D. CHASE, M.D., Clinical Instructor in Medicine (1956).
B.A. (1942), Wabash; M.D. (1945), Western Reserve.
- LESTER R. CHAUNCEY, M.D., Associate Clinical Professor of Surgery (1940).
B.A. (1931), Victoria; M.D. (1934), Toronto; M.S. (1939), Minnesota.
- CHARLES L. CHAVIGNY, M.D., Clinical Instructor in Obstetrics and Gynecology (1956).
B.S. (1933), B.E. (1934), Tulane; M.D. (1951), Louisiana State.
- BRUCE R. CHENOWETH, M.D., Clinical Instructor in Dermatology (1956).
B.S. (1947), M.D. (1949), Oregon.
- HOWARD L. CHERRY, M.D., Clinical Instructor in Orthopedic Surgery (1950).
M.D. (1943), Oregon.
- LEONARD CHRISTENSEN, M.D., Associate Professor of Ophthalmology (1950).
B.A. (1937), Oregon State; M.D. (1941), M.S. (1949), Oregon.
- E. GEORGE CHUINARD, M.D., Associate Clinical Professor of Orthopedic Surgery (1938).
B.A. (1926), Puget Sound; M.D. (1934), Oregon.
- C. LOUISE CLANCY, M.D., Clinical Instructor in Obstetrics and Gynecology (1944).
B.A. (1929), Albion; M.D. (1934), University of Chicago.
- MARION A. CLARK, M.D., Clinical Instructor in Urology (1955).
B.S. (1944), University of Washington; M.D. (1947), Western Reserve.
- WILLIAM M. CLARK, JR., M.D., Assistant Professor of Pediatrics (1954).
B.A. (1946), Baker; M.D. (1949), University of Chicago.
- WINFRED H. CLARKE, M.D., Clinical Instructor in Orthopedic Surgery (1957).
B.S., M.B., M.D. (1941), Minnesota.
- JOHN G. P. CLELAND, M.D., Clinical Associate in Surgery (1948).
M.D., C.M. (1924), M.S. (1926), McGill.
- A. J. CLEMONS, Superintendent of Physical Plant (Assistant Professor) (1950).
M.D. (1929), Oregon State; M.D. (1934), Oregon.
- QUINTEN W. COCHRAN, M.D., Assistant Clinical Professor of Pediatrics (1951).
B.A. (1940), Reed; M.D. (1943), Oregon.
- CHARLES W. COFFEN, M.D., Clinical Associate in Medicine (1941).
B.S. (1932), Stanford; M.D. (1936), Johns Hopkins.
- ROBERT M. COFFEY, M.D., Clinical Instructor in Surgery (1948).
M.D. (1931), Colorado.
- LAWRENCE J. COHEN, M.D., Clinical Instructor in Orthopedic Surgery (1950).
B.S. (1930), M.D. (1934), Maryland.
- WILLIAM COHEN, M.D., Clinical Associate in Medicine (1946).
B.A. (1931), Reed; M.D. (1935), Oregon.
- EMERSON J. COLLIER, M.D., Clinical Instructor in Urology (1956).
B.S. (1941), Alaska; M.D. (1944), Oregon.
- GEORGE J. COLLINGS, D.M.D., Clinical Instructor in Dental Medicine (1952).
D.M.D. (1949), Oregon.
- HUGH DONALD COLVER, M.D., Clinical Instructor in Surgery (1950).
B.A. (1940), College of Idaho; M.D. (1943), Oregon.

- WILLIAM S. CONKLIN, M.D., Assistant Clinical Professor of Medicine; Associate Clinical Professor of Surgery (1943).
A.B. (1931), Dartmouth; M.D. (1934), Pennsylvania.
- GEORGE W. COTTRELL, M.D., Clinical Associate in Orthopedic Surgery (1949).
B.A. (1937), Oregon State; M.D. (1939), Oregon.
- CLAUDE R. CRITTENDEN, D.M.D., Clinical Instructor in Dental Medicine (1959).
B.S. (1944), U.S. Merchant Marine Academy; D.M.D. (1953), Oregon.
- FRANK W. CROWE, M.D., Associate Clinical Professor of Dermatology (1957).
B.S. (1941), Idaho; M.D. (1949), Utah.
- JOYLE DAHL, M.D., Associate Clinical Professor of Dermatology (1932).
B.A. (1926), M.D. (1930), Oregon.
- GEORGE W. DANA, M.D., Associate Professor of Pediatrics (1951).
A.B. (1940), M.D. (1943), Harvard.
- FARRINGTON DANIELS, JR., M.D., Assistant Professor of Dermatology (1955).
B.A. (1940), M.A. (1942), Wisconsin; M.D. (1943), M.P.H. (1952), Harvard.
- THELMA M. DANILSON, M.S.S., Instructor in Psychiatric Social Work (1953).
B.A. (1938), University of Washington; M.S.S. (1948), University of Chicago.
- NORMAN A. DAVID, M.D., Professor of Pharmacology; Chairman of Department (1937).
A.B. (1925), M.D. (1931), California.
- AUBREY M. DAVIS, M.D., Clinical Associate in Medicine (1934).
B.A. (1927), Stanford; M.D. (1929), Oregon.
- EDWARD W. DAVIS, M.D., Clinical Associate in Neurosurgery (1948).
A.B. (1935), M.D. (1939), California.
- HAROLD E. DAVIS, M.D., Assistant Clinical Professor of Orthopedic Surgery (1946).
B.A. (1936), M.D. (1940), Oregon.
- JOE B. DAVIS, M.D., Associate Clinical Professor of Orthopedic Surgery (1941).
B.A. (1930), Willamette; M.D. (1934), Oregon.
- THOMAS A. DAVIS, M.D., Clinical Associate in Urology (1949).
A.B. (1926), Reed; M.D. (1931), Oregon.
- WILLIAM R. DAVIS, D.M.D., Clinical Associate in Dental Medicine (1951).
B.S. (1946), D.M.D. (1947), Oregon.
- ESTILL N. DEITZ, M.D., Clinical Instructor in Medicine (1957).
M.D. (1946), Long Island College of Medicine.
- JOHN P. DENNIS, M.D., Clinical Instructor in Neurosurgery (1959).
B.S. (1949), Oregon State; M.D. (1951), Oregon.
- DAVID D. DEWEESE, M.D., Clinical Professor of Otolaryngology; Acting Chairman of Department (1944).
A.B. (1934), M.D. (1938), Michigan.
- PETER DEWITT, M.D., Clinical Instructor in Surgery (1955).
B.A. (1939), Union; M.D. (1943), Cornell.
- ARCH W. DIACK, M.D., Clinical Associate in Surgery (1937).
A.B. (1929), Dartmouth; M.D. (1933), Michigan.
- SAMUEL L. DIACK, M.D., Clinical Instructor in Medicine (1933).
M.D. (1930), Michigan.
- H. LENOX H. DICK, M.D., Clinical Instructor in Medicine (1950).
A.B. (1941), Pennsylvania; M.D. (1944), Jefferson.
- HERMAN A. DICKEL, M.D., Associate Clinical Professor of Psychiatry (1942).
B.A. (1933), Montana State University; M.B. (1937), M.D. (1938), Northwestern.

- MARLOW DITTEBRANDT, M.D., Assistant Clinical Professor of Clinical Pathology (1948).
B.S. (1934), Washington State; M.A., M.D. (1938), Oregon.
- HENRY H. DIXON, M.D., Clinical Professor of Psychiatry (1932).
M.D. (1928), Washington University.
- DONALD P. DOBSON, M.D., Clinical Instructor in Anesthesiology (1957).
M.D. (1950), Boston University.
- RALPH M. DODSON, M.D., Assistant Clinical Professor of Surgery (1922).
B.A. (1910), Oregon; M.D. (1914), Johns Hopkins.
- CHARLES T. DOTTER, M.D., Professor of Radiology; Chairman of Department (1952).
B.A. (1941), Duke; M.D. (1944), Cornell.
- ROBERT S. DOW, M.D., Associate Clinical Professor of Neurology (1939).
B.S. (1929), Linfield; M.A., M.D. (1934), Ph.D. (1935), Oregon.
- HILDA E. DRUM, Instructor in Radiological Technique (1954).
- EARL D. DUBOIS, M.D., Assistant Clinical Professor of Medicine (1930).
B.S. (1921), Muskingum; M.D. (1925), Oregon.
- J. ENGLEBERT DUNPHY, M.D., Kenneth A. J. Mackenzie Professor of Surgery; Chairman of Department (1959).
B.A. (1929), Holy Cross; M.D. (1933), Harvard.
- RAPHAEL B. DURFEE, M.D., Associate Professor of Obstetrics and Gynecology (1957).
B.A. (1939), M.D. (1944), Stanford.
- HAROLD P. DYGERT, JR., M.D., Clinical Instructor in Medicine (1956).
B.A. (1941), Rochester; M.D. (1950), Syracuse.
- AUGUSTUS B. DYKMAN, M.D., Clinical Professor of Ophthalmology (1923).
M.D. (1914), New York University.
- ZANLY C. EDELSON, M.D., Clinical Instructor in Surgery (1948).
B.A. (1935), Oregon State; M.D. (1938), Oregon.
- J. COLEMAN EDWARDS, M.D., Clinical Instructor in Anesthesiology (1959).
B.S. (1946), M.D. (1949), Oregon.
- LESTER H. EISENDORF, M.D., Clinical Instructor in Surgery (1950).
B.S. (1935), M.D. (1938), Illinois.
- DONALD G. ELAND, D.M.D., Clinical Associate in Dental Medicine (1956).
D.M.D. (1947), Oregon.
- OTTO R. EMIG, M.D., Assistant Professor of Pathology and Obstetrics and Gynecology (1957).
B.S. (1943), University of Portland; M.D. (1944), Oregon.
- RUDOLF C. H. ENGEL, M.D., Associate Professor of Pediatrics (1952).
M.D. (1929), University of Bonn (Rhineland); M.S., M.D. (1949), Minnesota.
- WAYNE G. ERICKSEN, M.D., Assistant Clinical Professor of Radiology (1950).
B.A. (1944), Stanford; M.D. (1946), Oregon.
- HAROLD M. ERICKSON, M.D., Assistant Clinical Professor of Public Health and Preventive Medicine (1947).
B.A. (1930), M.D. (1933), Oregon; M.P.H. (1940), Johns Hopkins.
- JOHN W. EVANS, M.D., Assistant Clinical Professor of Psychiatry (1939).
B.A. (1932), M.D. (1933), Oregon.
- FRANK G. EVERETT, M.D., D.M.D., Clinical Associate in Dental Medicine (1951).
M.D. (1932), Vienna; B.S., D.M.D. (1941), M.S. (1948), Oregon.
- CLIFFORD L. FEARL, M.D., Associate Clinical Professor of Obstetrics and Gynecology (1940).
B.A. (1930), Montana State University; M.D. (1935), Kansas.

- JACK H. FELLMAN, Ph.D., Assistant Professor of Biochemistry; Associate in Neurology (1955).
B.A. (1948), M.A. (1952), Ph.D. (1954), Kansas.
- J. EDWARD FIELD, M.D., Clinical Associate in Medicine (1945).
M.D. (1940), Louisville.
- J. D. FINLAY, D.M.D., Clinical Instructor in Dental Medicine (1935).
B.S., D.M.D. (1932), Oregon.
- ROBERT E. FISCHER, M.D., Clinical Instructor in Ophthalmology (1952).
B.A. (1944), Oregon State; M.D. (1946), Oregon.
- DELBERT A. FISHER, M.D., Instructor in Pediatrics (1957).
B.A. (1950), M.D. (1953), California.
- STELLA FISHER, M.D., Clinical Instructor in Medicine (1953).
B.A. (1933), Hunter; M.D. (1937), Woman's Medical College.
- H. FREEMAN FITCH, M.D., Clinical Instructor in Orthopedic Surgery (1958).
B.A. (1946), M.A. (1947), British Columbia; M.D. (1951), Oregon.
- HENRY C. FIXOTT, JR., D.M.D., Clinical Associate in Dental Medicine (1939).
D.M.D. (1938), Oregon.
- JOHN R. FLANERY, M.D., Clinical Instructor in Medicine (1956).
B.S. (1948), M.D. (1952), Oregon.
- DONALD E. FORSTER, M.D., Clinical Associate in Medicine (1939).
A.B. (1931), Colgate; M.D. (1935), Harvard.
- THOMAS J. FOX, M.D., Clinical Associate in Surgery (1950).
B.S. (1937), University of Portland; M.D. (1941), Oregon.
- RICHARD W. FRANKLIN, M.D., Clinical Instructor in Obstetrics and Gynecology (1955).
B.S. (1945), M.D. (1948), Oregon.
- W. RONALD FRAZIER, M.D., Clinical Instructor in Obstetrics and Gynecology (1932).
B.S. (1925), Reed; M.D. (1929), Harvard.
- AMBY FREDERICK, B.S., Assistant Business Manager (Assistant Professor) (1946).
B.S. (1932), Oregon State.
- KATHERINE S. FRENCH, Ph.D., Instructor in Anthropology in Pediatrics (1959).
B.A. (1942), Pomona; Ph.D. (1955), Columbia.
- ARTHUR W. FRISCH, M.D., Professor of Bacteriology; Chairman of Department (1946).
B.A. (1931), M.A. (1933), Ph.D., (1935), M.D. (1937), Wisconsin.
- DAVID C. FRISCH, M.D., Clinical Instructor in Dermatology (1952).
B.S. (1938), B.M. (1941), M.D. (1942), Minnesota; M.S. (1949), Wayne.
- LOUIS H. FRISCHE, M.D., Associate Clinical Professor of Radiology (1953).
M.D. (1949), Harvard.
- ROBERT J. FRY, M.D., Clinical Instructor in Orthopedic Surgery (1958).
B.A. (1947), Michigan; M.D. (1952), Temple.
- REMY W. FULSHER, M.D., Clinical Instructor in Obstetrics and Gynecology (1955).
M.D. (1950), Ohio State.
- PETER J. GALANTE, M.D., Clinical Instructor in Medicine (1955).
B.A. (1928), Cornell; M.D. (1933), Royal University of Turin (Italy).
- WILLIAM P. GALEN, M.D., Clinical Associate in Medicine (1953).
B.S. (1946), M.D. (1948), Oregon.

- CALVIN E. GANTENBEIN, M.D., Clinical Instructor in Orthopedic Surgery (1950).
B.A. (1931), M.D. (1933), Oregon.
- J. SCOTT GARDNER, M.D., Associate Clinical Professor of Urology (1945).
B.A. (1935), Utah; M.D. (1939), Cornell.
- WILLIAM M. GARNJOBST, M.D., Clinical Instructor in Surgery (1955).
B.A. (1943), Oregon State; M.D. (1945), Oregon.
- KENNETH D. GAVER, M.D., Assistant Clinical Professor of Psychiatry (1957).
B.A. (1946), California; M.D. (1948), Tennessee.
- JOSEPH H. GILL, M.D., Clinical Associate in Orthopedic Surgery (1949).
B.A. (1940), Reed; M.D. (1943), Oregon.
- MARTIN F. GILMORE, M.D., Clinical Associate in Medicine (1942).
B.S. (1935), Carroll; M.D. (1939), St. Louis.
- MARVIN C. GOLDMAN, M.D., Clinical Associate in Medicine (1958).
Ph.B. (1946), B.S. (1947), M.D. (1950), University of Chicago.
- MORTON J. GOODMAN, M.D., Assistant Clinical Professor of Medicine (1935).
B.A. (1926), M.D. (1929), Oregon.
- ORA K. GOODMAN, B.S., Catalog Librarian (Assistant Professor) (1945).
B.S. (1927), University of Washington.
- SCOTT GOODNIGHT, M.D., Associate Clinical Professor of Pediatrics (1940).
B.A. (1930), Wisconsin; M.D. (1932), Oregon.
- WALTER A. GOSS, M.D., Assistant Clinical Professor of Pediatrics (1946).
B.S. (1933), Oregon State; M.D. (1937), Oregon.
- JARVIS GOULD, M.D., Associate Professor of Medicine; Assistant Medical Director and Assistant Administrator of Hospitals and Clinics (1948).
B.A. (1939), M.D. (1941), Oregon.
- MARVIN GREENBAUM, Ph.D., Assistant Professor of Clinical Psychology (1955).
B.A. (1949), M.A. (1951), Ph.D. (1955), Syracuse.
- ROBERT B. GREENE, M.D., Clinical Instructor in Obstetrics and Gynecology (1949).
B.A. (1927), M.D. (1931), Oregon.
- MONTE A. GREER, M.D., Associate Professor of Medicine; Head of Division of Endocrinology (1956).
A.B. (1944), M.D. (1947), Stanford.
- RAY V. GREWE, M.D., Clinical Instructor in Neurosurgery (1958).
B.S. (1945), University of Washington; M.D. (1947), Oregon.
- HERBERT E. GRISWOLD, M.D., Professor of Medicine; Head of Division of Cardiovascular Renal Diseases (1949).
B.A. (1939), Reed; M.S., M.D. (1943), Oregon.
- RAYMOND D. GRONDAHL, M.D., Professor of Clinical Pathology; Chairman of Department (1945).
B.S. (1939), Washington State; M.S., M.D. (1944), Oregon.
- LEROY E. GROSHONG, M.D., Clinical Instructor in Surgery (1956).
B.S., M.D. (1949), Nebraska.
- MYRON R. GROVER, JR., M.D., Assistant Professor of Medicine; Assistant Medical Director of Hospitals and Clinics (1958).
B.A. (1950), Bowdoin; M.D. (1954), Cornell; M.S. (1956), Oregon.
- JOHN M. GUISS, M.D., Clinical Associate in Surgery (1943).
B.A. (1935), M.D. (1939), Oregon.
- GEORGE E. GULICK, D.M.D., Clinical Instructor in Dental Medicine (1958).
D.M.D. (1945), Oregon.
- DAVID L. GUNBERG, Ph.D., Assistant Professor of Anatomy (1955).
B.A. (1949), Redlands; M.A. (1952), Ph.D. (1954), California.

- CHARLES E. GURNEY, M.D., Associate Clinical Professor of Surgery (1939).
B.S. (1929), M.D. (1930), Nebraska; M.S. (1938), Minnesota.
- RUSSELL G. GUSTAVSON, M.D., Clinical Instructor in Surgery (1957).
B.A. (1950), M.D. (1952), Nebraska.
- BERTHA B. HALLAM, B.A., Librarian (Professor) (1929).
B.A. (1931), Oregon.
- MARTHA L. HAMILTON, M.D., Instructor in Clinical Pathology (1957).
B.S. (1945), Texas Wesleyan; M.D. (1952), Texas.
- JAMES B. HAMPTON, M.D., Clinical Instructor in Medicine (1952).
M.D. (1944), Oklahoma.
- JOHN R. HAND, M.D., Clinical Professor of Urology (1932).
B.S. (1921), B.M. (1923), M.D. (1924), M.S. (1936), Minnesota.
- HANCE F. HANEY, M.D., Professor of Medicine; Chief, Department of Medicine Outpatient Professional Services (1936).
B.A. (1926), M.A. (1928), Ph.D. (1934), Wisconsin; M.D. (1934), University of Chicago.
- F. SYDNEY HANSEN, M.D., Clinical Instructor in Public Health and Preventive Medicine (1947).
B.S. (1932), M.D. (1936), Oregon.
- JOHN R. HANSEN, M.D., Clinical Instructor in Pediatrics (1950).
B.S. (1939), University of Washington; M.D. (1946), Oregon.
- ROBERT M. HANSEN, M.D., Clinical Professor of Otolaryngology (1948).
B.S. (1935), Nevada; M.D. (1939), Baylor.
- GEORGE S. HARA, M.D., Clinical Instructor in Obstetrics and Gynecology (1957).
B.A. (1948), M.D. (1953), Oregon.
- JAMES V. HARBER, M.D., Instructor in Anesthesiology (1959).
B.S. (1953), M.S. (1955), Oregon.
- JOHN HARDER, M.D., Clinical Instructor in Orthopedic Surgery (1959).
B.A. (1945), Whitman; M.D. (1949), Oregon.
- CLIFFORD E. HARDWICK, M.D., Associate Clinical Professor of Surgery (1947).
B.S., M.D. (1929), Oregon.
- ROBERT L. HARE, M.D., Clinical Instructor in Medicine (1956).
B.S. (1947), M.D. (1949), Illinois; M.S. (1956), Minnesota.
- BERNARD P. HARPOLE, M.D., Clinical Instructor in Surgery (1949).
B.S. (1935), M.D. (1939), St. Louis.
- HOMER H. HARRIS, M.D., Assistant Clinical Professor of Clinical Pathology (1951).
B.A. (1942), Reed; M.D. (1945), Oregon.
- WILLIAM D. HARRISON, M.D., Clinical Instructor in Medicine (1955).
B.S. (1946), Willamette; M.D. (1949), Oregon.
- JOSEPH T. HART, M.D., Clinical Instructor in Pediatrics (1950).
B.S.M. (1941), M.D. (1942), Creighton.
- WILLIAM L. HARTMANN, M.D., Clinical Instructor in Obstetrics and Gynecology (1954).
B.S. (1935), Harvard; M.D. (1939), Johns Hopkins.
- JOHN L. HASKINS, M.D., Assistant Clinical Professor of Psychiatry (1939).
B.S., M.D. (1916), Minnesota.
- FREDERICK P. HAUGEN, M.D., Professor of Anesthesiology; Head of Division (1948).
B.A. (1933), M.D. (1935), Oregon.

- GERHARD B. HAUGEN, M.D., Assistant Clinical Professor of Psychiatry (1937).
B.A. (1932), M.D. (1935), Oregon; M.P.H. (1942), Johns Hopkins.
- JAMES B. HAWORTH, M.D., Associate Professor of Radiology (1953).
B.S. (1933), M.D. (1936), Oregon.
- JOHN F. HAYES, M.D., Clinical Instructor in Surgery (1955).
B.A. (1945), Oregon State; M.D. (1947), Oregon.
- THOMAS S. HEALY, M.D., Clinical Associate in Medicine (1951).
B.A. (1940), M.D. (1942), Oregon.
- CARL G. HELLER, M.D., Associate Clinical Professor of Medicine (1944).
Ph.B. (1935), Ph.D., M.D. (1940), Wisconsin.
- PHILIP H. HENDERSON, JR., M.D., Clinical Instructor in Obstetrics and Gynecology (1954).
B.S. (1945), University of Washington; M.D. (1948), Oregon.
- EDWARD L. HENDRICKS, M.D., Clinical Instructor in Pediatrics (1955).
B.S. (1946), Oregon State; M.S. (1948), M.D. (1949), Oregon.
- HARRIE F. HESS, Ph.D., Instructor in Medical Psychology (1959).
B.A. (1952), Nevada; M.A. (1957), Ph.D. (1959), Colorado.
- WILLIAM W. HICKS, JR., M.D., Clinical Instructor in Obstetrics and Gynecology (1958).
M.D. (1953), Jefferson Medical College; B.S. (1954), University of Washington.
- ALLAN J. HILL, JR., M.D., Professor of Pediatrics; Chairman of Department (1950).
B.S. (1937), M.B. (1939), M.D. (1940), Minnesota.
- IRVIN B. HILL, M.D., Clinical Instructor in Psychiatry (1958).
B.A. (1933), M.A. (1934), M.D. (1939), Oregon.
- ROBERT V. HILL, M.D., Assistant Clinical Professor of Ophthalmology (1948).
B.S. (1936), Oregon State, M.D. (1939), Oregon.
- VINCENT C. HINCK, M.D., Assistant Professor of Radiology (1957).
A.B. (1948), Cornell; M.D. (1953), New York Medical College.
- CLARENCE V. HODGES, M.D., Professor of Urology; Head of Division (1948).
B.S. (1937), Iowa State; M.D. (1940), University of Chicago.
- BLAIR HOLCOMB, M.D., Clinical Professor of Medicine (1922).
M.D. (1919), Rush.
- DONALD H. HOLDEN, M.D., Clinical Instructor in Otolaryngology (1953).
A.B. (1941), Brown; M.D. (1944), Yale.
- THOMAS D. HOLDER, D.M.D., Clinical Instructor in Dental Medicine (1951).
B.A. (1929), D.M.D. (1940), Oregon.
- JAMES E. HOLLAND, M.D., Clinical Instructor in Medicine (1957).
M.D. (1953), Creighton.
- CHARLES N. HOLMAN, M.D., Professor of Medicine; Associate Dean of Medical School; Medical Director and Administrator of Hospitals and Clinics (1940).
B.A. (1931), M.D. (1936), Oregon.
- CARL E. HOPKINS, Ph.D., Associate Professor of Public Health and Preventive Medicine (1949).
B.A. (1933), Dartmouth; M.A. (1935), Ph.D. (1949), Harvard.
- RICHARD J. HOPKINS, M.D., Clinical Associate in Orthopedic Surgery (1950).
B.S. (1943), Idaho; M.D. (1944), Oregon.
- MARCUS M. HORENSTEIN, M.D., Clinical Instructor in Medicine (1947).
B.A. (1937), M.D. (1941), Oregon.

- IRVING J. HOROWITZ, M.D., Clinical Instructor in Radiology (1959).
B.S. (1946), M.S. (1947), M.D. (1952), Michigan.
- SABERT A. HOTT, JR., M.D., Clinical Instructor in Urology (1951).
B.S. (1939), A.B., M.D. (1942), Oklahoma.
- MARTIN A. HOWARD, M.D., Assistant Clinical Professor of Surgery (1929).
B.S. (1923), M.D. (1926), Oregon.
- JAY C. HOYT, M.D., Clinical Associate in Medicine (1956).
B.S. (1946), B.M. (1947), M.D. (1948), Minnesota.
- MARGARET E. HUGHES, Circulation Librarian (Assistant Professor) (1945).
B.S. (1937), Minnesota.
- ARTHUR F. HUNTER, M.D., Clinical Associate in Radiology (1946).
A.B. (1930), Denver; M.D. (1933), Colorado.
- WARREN C. HUNTER, M.D., Professor of Pathology; Chairman of Department (1922).
B.A. (1920), Albany College; M.D. (1924), Oregon; M.A. (1927), Michigan.
- PETER L. HURST, M.D., Clinical Instructor in Pediatrics (1956).
B.S. (1950), Antioch; M.D. (1950), Washington University.
- WILLIAM W. HURST, M.D., Clinical Associate in Medicine (1952).
B.S. (1942), Idaho State; B.M. (1945), M.D. (1946), Northwestern.
- TYRA T. HUTCHENS, M.D., Associate Professor of Clinical Pathology (1953).
B.S. (1943), M.D. (1945), Oregon.
- WENDELL H. HUTCHENS, M.D., Assistant Clinical Professor of Psychiatry (1934).
B.S. (1928), Pacific College; A.B. (1929), M.D. (1932), Oregon.
- MILTON D. HYMAN, M.D., Assistant Clinical Professor of Radiology (1945).
B.A. (1932), College of City of New York; M.S. (1933), New York University; M.D. (1937), Long Island.
- SELMA HYMAN, M.D., Associate Clinical Professor of Radiology (1944).
B.S. (1932), M.D. (1938), New York University.
- TOSHIO INAHARA, M.D., Clinical Instructor in Surgery (1956).
B.S. (1948), M.D. (1950), Oregon.
- DAVID S. JACKSON, Ph.D., Assistant Professor of Biochemistry (1959).
B.Sc. (1949), Ph.D. (1953), Manchester (England).
- ROBERT C. JACKSON, M.D., Clinical Instructor in Obstetrics and Gynecology (1957).
B.S. (1944), M.D. (1947), Oregon.
- STANLEY W. JACOB, M.D., Assistant Professor of Surgery (1959).
B.A. (1945), M.D. (1948), Ohio State.
- SHELDON A. JACOBSON, M.D., Associate Clinical Professor of Pathology (1950).
A.B. (1922), College of City of New York; M.D. (1928), Yale.
- DAVID W. JAMES, M.D., Clinical Instructor in Obstetrics and Gynecology (1949).
B.S. (1930), Denison; M.D. (1933), Ohio State; M.S. (1940), Wayne.
- NORMAN M. JANZER, M.D., Clinical Instructor in Psychiatry (1955).
B.A. (1939), M.D. (1950), Wisconsin.
- RUTH JENS, M.D., Clinical Instructor in Psychiatry (1947).
M.D. (1935), Michigan.
- C. TODD JESSELL, M.D., Clinical Instructor in Radiology (1951).
B.A. (1933), M.D. (1936), Wisconsin.
- ROBERT B. JOHNSON, M.D., Clinical Instructor in Medicine (1954).
M.D. (1948), Nebraska.
- RUSSELL L. JOHNSRUD, M.D., Assistant Clinical Professor of Surgery (1936).
B.A. (1930), M.D. (1933), Oregon.

- ARTHUR C. JONES, M.D., Clinical Professor of Physical Medicine in Surgery (1929).
B.A. (1921), Pacific University; M.A. (1925), M.D. (1926), Oregon.
- LESTER T. JONES, M.D., Clinical Professor of Otolaryngology (1924).
B.A. (1918), Pacific University; M.D. (1921), M.A. (1923), Oregon.
- NOBLE WILEY JONES, M.D., Professor Emeritus of Medicine (1910).
M.D. (1901), Rush.
- ORVILLE N. JONES, M.D., Clinical Associate in Orthopedic Surgery (1947).
B.A. (1931), Reed; M.D., C.M. (1937), McGill.
- SAMUEL T. JONES, M.D., Associate in Ophthalmology (1959).
B.S. (1948), M.D. (1950), Tulane.
- LEWIS W. JORDAN, M.D., Assistant Clinical Professor of Otolaryngology (1936).
B.S. (1929), M.D. (1931), Oregon.
- HULDRICK KAMMER, M.D., Clinical Associate in Medicine (1949).
B.A. (1936), Wisconsin; B.M. (1940), M.D. (1941), Northwestern.
- REINHOLD KANZLER, M.D., Clinical Instructor in Surgery (1958).
B.S. (1934), M.S. (1937), M.D. (1938), Oregon.
- J. DUNN KAVANAUGH, M.D., Clinical Instructor in Surgery (1951).
B.S. (1934), M.D. (1942), Oregon.
- JOHN P. KEIZER, M.D., Assistant Clinical Professor of Ophthalmology (1953).
B.A. (1934), M.D. (1937), Oregon.
- RICHARD B. KELLER, D.M.D., Clinical Associate in Dental Medicine (1939).
D.M.D. (1937), Oregon.
- DONALD F. KELLY, M.D., Clinical Instructor in Pediatrics (1959).
B.S. (1949), University of Portland; M.D. (1954), Oregon.
- HARDY A. KEMP, M.D., Assistant Clinical Professor of Public Health and Preventive Medicine (1959).
B.S. (1923), M.D. (1926), St. Louis.
- A. GURNEY KIMBERLEY, M.D., Assistant Clinical Professor of Orthopedic Surgery (1937).
B.S. (1929), M.D. (1930), Oregon.
- LYLE B. KINGERY, M.D., Clinical Professor of Dermatology (1923).
B.S. (1912), M.D. (1916), Michigan.
- GERALD E. KINZEL, M.D., Clinical Instructor in Obstetrics and Gynecology (1946).
B.A. (1933), M.D. (1936), Oregon.
- EDWARD K. KLOOS, M.D., Clinical Associate in Neurosurgery (1948).
A.B. (1934), Western Reserve; M.D. (1938), Rochester; M.S. (1943), Minnesota.
- ROBERT D. KOLER, M.D., Associate Professor of Medicine (1953).
B.A. (1945), M.D. (1947), Oregon.
- RICHARD H. KOSTERLITZ, M.D., Clinical Instructor in Medicine (1958).
B.S., M.D. (1949), Illinois.
- LEWIS J. KRAKAUER, M.D., Clinical Instructor in Medicine (1956).
A.B. (1947), Williams; M.D. (1951), Harvard.
- ALFRED J. KREFT, M.D., Clinical Associate in Ophthalmology (1951).
B.S. (1933), M.D. (1936), Illinois.
- MARION L. KRIPPAEHNE, M.D., Clinical Associate in Medicine (1952).
B.S. (1944), University of Washington; M.D. (1948), Oregon.
- WILLIAM W. KRIPPAEHNE, M.D., Assistant Professor of Surgery (1953).
B.S. (1943), University of Washington; M.D. (1946), Oregon.

- JOHN J. KRYGIER, M.D., Assistant Clinical Professor of Medicine (1943).
B.S. (1936), M.D. (1938), Wisconsin.
- CLIFFORD KUHN, M.D., Assistant Clinical Professor of Otolaryngology (1940).
B.A. (1928), M.D. (1932), Oregon; M.A. (1943), Pennsylvania.
- MERLE M. KURTZ, M.D., Clinical Instructor in Medicine (1956).
B.A. (1949), College of Idaho; M.D. (1953), Oregon.
- BRUCE N. KVERNLAND, M.D., Clinical Instructor in Neurosurgery (1952).
B.A. (1942), Reed; M.D. (1943), Oregon.
- DANIEL H. LABBY, M.D., Professor of Medicine; Head of Division of Diabetes and Metabolism (1947).
B.A. (1935), Reed; M.D. (1939), Oregon.
- GEORGE H. LAGE, M.D., Clinical Instructor in Obstetrics and Gynecology (1942).
B.A. (1936), Oregon State; M.D. (1939), Oregon.
- WILLIAM M. LAIDLAW, M.D., Clinical Instructor in Medicine (1959).
B.A. (1950), Willamette; M.D. (1955), Oregon.
- DONALD R. LAIRD, M.D., Assistant Clinical Professor of Surgery (1939).
A.B. (1928), Grinnell; M.S. (1933), M.D. (1934), Rush; M.S. (1938), Minnesota.
- EUGENE W. LANDRETH, M.D., Assistant Clinical Professor of Clinical Pathology (1957).
B.S. (1946), M.D. (1948), Oregon.
- LAURENCE R. LANGSTON, M.D., Clinical Associate in Orthopedic Surgery (1956).
B.A. (1947), M.D. (1951), Oregon.
- JOHN A. LARRABEE, M.D., Assistant Clinical Professor of Pediatrics (1948).
B.A. (1938), Nebraska; M.D. (1942), University of Chicago.
- JOHN F. LARSELL, M.D., Clinical Associate in Urology (1949).
B.A. (1939), Oregon State; M.D. (1943), Oregon.
- WILBUR L. E. LARSON, M.D., Clinical Associate in Medicine (1950).
B.A. (1941), M.D. (1945), Oregon.
- GERALD J. LATTIG, M.D., Assistant Professor of Clinical Pathology (1958).
B.S. (1944), Idaho; M.D. (1949), Oregon.
- G. PRENTISS LEE, M.D., Clinical Instructor in Surgery (1952).
B.A. (1939), Reed; M.D. (1943), Oregon.
- J. ROBERT LEE, M.D., Assistant Clinical Professor of Radiology (1955).
B.A. (1944), Willamette; M.D. (1946), Oregon.
- THEODORE H. LEHMAN, M.D., Instructor in Urology (1958).
B.A. (1948), M.A. (1949), M.D. (1953), Nebraska.
- EUGENE A. LENTINI, Ph.D., Instructor in Physiology (1958).
B.A. (1951), M.A. (1955), Ph.D. (1958), Boston University.
- HOWARD P. LEWIS, M.D., Professor of Medicine; Chairman of Department (1932).
B.S. (1924), Oregon State; M.D. (1930), Oregon.
- HEROLD S. LILLYWHITE, Ph.D., Assistant Professor of Speech Pathology (1957).
B.S. (1932), Utah State Agricultural; M.A. (1939), Minnesota; Ph.D. (1943), New York University.
- AARNE J. LINDGREN, M.D., Clinical Associate in Medicine (1948).
B.S. (1936), M.S., M.D. (1942), Oregon.
- VERNER V. LINDGREN, M.D., Clinical Instructor in Surgery (1950).
B.A. (1942), Gustavus Adolphus; B.S. (1944), B.M. (1945), M.D. (1946), Minnesota.
- RICHARD H. LINDQUIST, M.D., Clinical Instructor in Surgery (1958).
B.S. (1946), South Dakota; M.D. (1947), Louisville.

- LOUIS LINO, Ph.D., Instructor in Neurology (1958).
Ph.D. (1935), Faculty of Natural Sciences, Pisa, Italy.
- CHARLES E. LITTLEHALES, M.D., Clinical Associate in Medicine (1939).
B.A. (1932), M.D. (1935), Oregon.
- JAMES H. LIUM, M.D., Associate Clinical Professor of Clinical Pathology (1953).
B.S. (1944), M.D. (1946), Oregon.
- KENNETH E. LIVINGSTON, M.D., Clinical Associate in Neurosurgery (1948).
B.A. (1936), Stanford; M.D. (1939), Harvard.
- WILLIAM K. LIVINGSTON, M.D., Clinical Professor of Surgery (1925).
B.A. (1913), M.A. (1917), Oregon; M.D. (1920), Harvard.
- ERNEST T. LIVINGSTONE, M.D., Clinical Associate in Medicine (1955).
B.A. (1949), Reed; M.S., M.D. (1951), Oregon.
- RAY S. LOBB, M.D., Clinical Instructor in Medicine (1954).
B.A. (1943), University of Washington; M.D. (1950), Louisville.
- WALTER C. LOBITZ, JR., M.D., Professor of Dermatology; Head of Division (1959).
B.S. (1939), B.M. (1940), M.D. (1941), Cincinnati.
- MILTON C. LOCKWOOD, M.D., Clinical Instructor in Surgery (1958).
B.S. (1931), Idaho; M.D. (1940), Oregon.
- LENIER ARTHUR LODMELL, M.D., Clinical Associate in Medicine (1946).
B.S. (1931), North Dakota; B.M. (1933), M.D. (1934), Northwestern.
- GEORGE B. LONG, M.D., Associate Clinical Professor of Medicine; Senior Consultant in Gastroenterology (1943).
B.A. (1934), Montana State University; M.D. (1939), Northwestern.
- JOHN WAYNE LOOMIS, M.D., Assistant Clinical Professor of Radiology (1951).
B.A. (1940), Reed; M.D. (1943), Oregon.
- ERNEST J. LOSLI, M.D., Clinical Instructor in Pathology (1952).
B.A. (1925), M.D. (1928), Oregon.
- LAWRENCE M. LOWELL, M.D., Assistant Clinical Professor of Surgery (1950).
B.S. (1933), Washington State; M.D. (1936), Oregon.
- LEO S. LUCAS, M.D., Clinical Professor of Orthopedic Surgery; Senior Consultant (1924).
B.A. (1919), Pacific University; M.D. (1923), Oregon.
- GEORGE P. LYMAN, M.D., Clinical Associate in Ophthalmology (1954).
B.A. (1926), Pomona; M.D. (1931), Yale.
- J. OPPIE MCCALL, JR., M.D., Clinical Instructor in Obstetrics and Gynecology (1950).
B.A. (1938), Hamilton; M.D. (1942), New York University.
- ELTON L. MCCAWLEY, Ph.D., Professor of Pharmacology (1949).
A.B. (1938), M.S. (1939), Ph.D. (1942), California.
- GUY R. MCCUTCHAN, M.D., Clinical Associate in Medicine (1939).
B.S. (1929), Grand Island; M.D. (1931), Nebraska.
- LOLITA B. McELVENY, Assistant Circulation Librarian (Instructor) (1954).
- DONALD P. MCGREEVEY, M.D., Clinical Instructor in Medicine (1955).
B.S. (1954), Carroll; M.D. (1951), Loyola.
- DONALD MCKINLEY, M.D., Clinical Instructor in Psychiatry (1958).
B.A. (1940), Reed; M.D. (1942), Oregon.
- MATTHEW MCKIRDIE, M.D., Associate Clinical Professor of Surgery (1940).
B.S. (1929), University of Chicago; M.D. (1934), Rush.

- DUNCAN A. McLAUCHLAN, M.D., Clinical Instructor in Psychiatry (1957).
B.S. (1941), University of Washington; M.D. (1944), Oregon.
- EDWARD N. McLEAN, M.D., Clinical Associate in Ophthalmology (1957).
M.D. (1948), Long Island.
- RAYMOND A. McMAHON, M.D., Clinical Associate in Medicine (1938).
B.A. (1932), Ripon; M.D. (1937), Wisconsin.
- W. ROBERT McMURRAY, M.D., Clinical Instructor in Orthopedic Surgery (1953).
B.A. (1942), M.D. (1943), Oregon.
- LAURENCE K. MACDANIELS, M.D., Clinical Instructor in Medicine (1949).
B.A. (1937), Reed; M.D. (1941), Oregon.
- CURTIS A. MACFARLANE, M.D., Clinical Instructor in Urology (1958).
B.A. (1949), M.D. (1951), Wisconsin.
- DAVID W. MACFARLANE, M.D., Clinical Instructor in Pediatrics (1956).
B.S. (1948), M.S., M.D. (1951), Illinois.
- IRA A. MANVILLE, M.D., Clinical Instructor in Medicine (1922).
B.A. (1913), M.A. (1922), M.D. (1923), Oregon.
- ROBERT W. MARCUM, M.D., Clinical Associate in Surgery (1951).
B.S. (1934), Pacific University; M.D. (1940), Oregon.
- MERL L. MARGASON, M.D., Clinical Professor of Medicine; Senior Consultant in Neurology (1926).
A.B. (1920), M.D. (1923), Oregon.
- F. KEITH MARKEE, M.D., Clinical Instructor in Obstetrics and Gynecology (1952).
B.A. (1944), Willamette; M.D. (1946), Oregon.
- R. KENT MARKEE, M.D., Clinical Instructor in Surgery (1953).
B.A. (1944), Willamette; M.D. (1946), Oregon.
- RICHARD E. MARKLEY, M.D., Clinical Instructor in Ophthalmology (1953).
B.A. (1938), Denver; M.D. (1942), Colorado.
- ALFRED N. MARSHALL, M.D., Clinical Instructor in Obstetrics and Gynecology (1957).
B.S. (1932), University of Washington; M.D. (1937), Oregon.
- KARL H. MARTZLOFF, M.D., Associate Clinical Professor of Surgery (1926).
B.A. (1913), Oregon; M.D. (1917), Johns Hopkins.
- DAVID C. MASON, M.D., Clinical Instructor in Surgery (1951).
B.A. (1940), Reed; M.D. (1943), Oregon.
- HOWARD S. MASON, Ph.D., Associate Professor of Biochemistry (1952).
B.S. (1935), M.S. (1936), Ph.D. (1939), Massachusetts Institute of Technology.
- JAMES A. MASON, M.D., Clinical Associate in Orthopedic Surgery (1948).
B.S. (1930), M.D. (1932), Nebraska.
- ROBERT E. MASS, M.D., Clinical Associate in Medicine (1957).
B.A. (1948), M.D. (1951), Oregon.
- JOHN CLIFFTON MASSAR, M.D., Assistant Clinical Professor of Dermatology (1955).
B.S. (1945), University of Washington; M.D. (1948), Oregon.
- JOSEPH D. MATARAZZO, Ph.D., Professor of Medical Psychology (1957).
B.A. (1946), Brown; M.S. (1950), Ph.D. (1952), Northwestern.
- RUTH G. MATARAZZO, Ph.D., Assistant Professor of Medical Psychology (1957).
B.A. (1948), Brown; M.S. (1950), Ph.D. (1952), Northwestern.
- WILLARD L. MATHIESEN, M.D., Clinical Instructor in Surgery (1956).
M.D. (1945), College of Medical Evangelists.

- ROY R. MATTERI, M.D., Clinical Associate in Medicine (1946).
B.S. (1940), M.D. (1942), Creighton.
- FLOYD G. MATTSON, D.M.D., Clinical Instructor in Dental Medicine (1955).
D.M.D. (1945), Oregon.
- GORDON L. MAURICE, M.D., Clinical Associate in Medicine (1949).
B.S. (1940), Washington State; M.D. (1943), Oregon.
- JOHN ARTHUR MAY, M.D., Assistant Clinical Professor of Pediatrics (1948).
B.A. (1939), University of Washington; M.D. (1943), Oregon.
- THOMAS L. MEADOR, M.D., Clinical Instructor in Public Health and Preventive Medicine (1947).
B.A. (1921), M.A. (1924), M.D. (1937), Oregon; M.P.H. (1940), Yale.
- NORBERT E. MEDVED, M.D., Clinical Instructor in Medicine (1956).
B.S. (1946), M.D. (1948), Creighton.
- ROBERT J. MEECHAN, M.D., Instructor in Pediatrics (1956).
B.A. (1951), Oregon State; M.S., M.D. (1953), Oregon.
- EDWARD COLTON MEEK, JR., M.D., Associate Clinical Professor of Pathology (1953).
B.S. (1941), Oregon State; M.D. (1944), Johns Hopkins.
- VICTOR D. MENASHE, M.D., Instructor in Pediatrics (1958).
B.S. (1951), M.D. (1953), Oregon.
- FRANK R. MENNE, M.D., Professor Emeritus of Pathology (1916).
B.S. (1913), Wisconsin; M.D. (1915), Rush.
- RUTH L. MERCER, Clinical Instructor in Dietetics (1958).
B.A. (1941), Kansas; M.A. (1948), Columbia.
- ROLLAND C. MERRIFIELD, M.D., Clinical Instructor in Orthopedic Surgery (1955).
B.A. (1942), M.D. (1945), Oregon.
- DONALD C. METTLER, M.D., Assistant Clinical Professor of Otolaryngology (1956).
B.S. (1952), M.D. (1947), Indiana.
- ERNEST A. MEYER, Sc.D., Instructor in Bacteriology (1958).
A.B. (1949), California; M.S. (1953), Purdue; Sc.D. (1958), Johns Hopkins.
- ROBERT D. MICHEL, M.D., Instructor in Medicine (1958).
B.S. (1937), Northwestern; M.D. (1954), Oregon.
- FRANK O. MIHNOS, D.M.D., Clinical Associate in Dental Medicine (1948).
D.M.D. (1916), Oregon.
- DAVID B. MILLER, JR., M.D., Clinical Instructor in Surgery (1959).
B.A. (1949), Dartmouth; M.D. (1953), New York University.
- JOSEPH MILLER, JR., M.D., Clinical Associate in Medicine (1941).
B.S. (1931), M.D. (1935), University of Chicago.
- JEFF MINCKLER, M.D., Associate Clinical Professor of Pathology (1945).
B.A. (1937), Montana; M.A., Ph.D. (1939), Minnesota; M.D. (1944), St. Louis.
- JOSEPH C. MITCHELL, M.D., Clinical Instructor in Obstetrics and Gynecology (1958).
B.A. (1951), M.D. (1952), Oregon.
- THOMAS R. MONTGOMERY, M.D., Associate Clinical Professor of Urology (1939).
B.A. (1928), M.D. (1932), Oregon.
- DAVID W. MOORE, M.D., Clinical Instructor in Obstetrics and Gynecology (1953).
M.D. (1947), Western Reserve.
- MERLE W. MOORE, M.D., Associate Clinical Professor of Medicine; Head of Division of Allergy (1928).
B.S. (1920), Oregon; M.D. (1924), Jefferson.

- RAYMOND E. MOORE, M.D., Clinical Instructor in Physical Medicine (1958).
B.A. (1951), Reed; M.D. (1953), Oregon.
- JOSEPH I. MORELAND, M.D., Clinical Associate in Ophthalmology (1951).
B.S. (1940), M.D. (1941), Washington University.
- JAMES F. MORRIS, M.D., Clinical Associate in Medicine (1957).
A.B. (1943), Ohio Wesleyan; M.D. (1948), Rochester.
- CARL V. MORRISON, M.D., Clinical Instructor in Psychiatry (1947).
M.D. (1933), Iowa.
- JAN J. MULLER, D.D.S., Clinical Associate in Dental Medicine (1959).
H.B.S. (1935), Drafne Lyceum (Bussum, Holland); D.D.S. (1939), Minnesota.
- WALTER R. MUNROE, M.D., Clinical Instructor in Surgery (1946).
B.S. (1932), University of Washington; M.D. (1939), Oregon.
- JOHN J. MURPHY, M.D., Clinical Associate in Medicine (1948).
B.A. (1938), Carroll College; M.D. (1942), Michigan.
- PAUL B. MYERS, M.D., Clinical Associate in Otolaryngology (1950).
B.A. (1944), Oregon State; M.D. (1946), Oregon.
- JOSEPH V. NADAL, M.D., Assistant Clinical Professor of Surgery (1944).
A.B. (1932), Drury; M.D. (1937), Harvard; M.S. (1941), Michigan.
- GEORGE A. NASH, M.D., Clinical Instructor in Pediatrics (1954).
B.S. (1945), M.D. (1948), Oregon.
- DUNCAN R. NEILSON, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1946).
A.B. (1934), Pacific University; M.D. (1938), Oregon.
- RONALD P. NEILSON, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1943).
A.B. (1934), Pacific University; M.D. (1938), Oregon.
- GUNNAR E. C. NELSON, M.D., Associate Clinical Professor of Obstetrics and Gynecology (1937).
Ph.G. (1923), B.S. (1925), Washington State; M.D. (1933), Oregon.
- *HARRY NEWMAN, M.D., Clinical Instructor in Radiology (1959).
B.S. (1952), University of Portland; M.D. (1954), Oregon.
- GREGORY B. NICHOLS, M.D., Clinical Instructor in Radiology (1950).
M.D. (1943), Creighton.
- H. MINOR NICHOLS, M.D., Clinical Instructor in Surgery (1940).
Ph.B. (1930), Yale; M.D. (1934), Oregon; M.S. (1937), Pennsylvania.
- NELSON R. NILES, M.D., Associate Professor of Pathology (1952).
M.D. (1947), Cornell.
- OLIVER M. NISBET, M.D., Associate Clinical Professor of Surgery (1926).
B.S. (1915), Idaho; M.D. (1919), Rush.
- LAWRENCE NOALL, M.D., Associate Clinical Professor of Orthopedic Surgery (1941).
B.A. (1931), B.M. (1934), Utah; M.D. (1936), Northwestern.
- JOSEPH E. NOHLGREN, M.D., Clinical Instructor in Pathology (1949).
B.S. (1935), South Dakota State; M.D. (1943), Oregon.
- HAROLD J. NOYES, D.D.S., M.D., Clinical Professor of Dental Medicine; Head of Division (1946).
Ph.B. (1923), M.D. (1933), University of Chicago; B.S. (1928), D.D.S. (1928), Illinois.
- PHILLIP L. NUDELMAN, M.D., Clinical Instructor in Medicine (1948).
B.A. (1937), Stanford; M.D. (1943), Oregon.

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- JAMES E. ODELL, M.D., Assistant Professor of Pediatrics (1956).
B.A. (1944), M.D. (1947), Iowa.
- EVELYN L. OGINSKY, Ph.D., Associate Professor of Bacteriology (1957).
B.A. (1938), Cornell; M.S. (1939), University of Chicago; Ph.D. (1946), Maryland.
- DONALD E. OLSON, M.D., Clinical Instructor in Medicine (1955).
B.A. (1943), Reed; M.S., M.D. (1947), Ph.D. (1948), Oregon.
- WILLIAM W. ORNDUFF, M.D., Instructor in Pediatrics (1959).
B.S. (1933), University of Washington; M.D. (1937), Oregon.
- SAMUEL OSBORN, M.D., Clinical Instructor in Orthopedic Surgery (1958).
B.S. (1942), Michigan State; M.D. (1945), Michigan.
- EDWIN E. OSGOOD, M.D., Professor of Medicine; Head of Division of Experimental Medicine and Division of Hematology (1922).
B.A. (1923), M.A., M.D. (1924), Oregon.
- SAMUEL B. OSGOOD, M.D., Clinical Instructor in Public Health and Preventive Medicine (1951).
B.S. (1931), M.D. (1935), Oregon; M.S.P.H. (1939), California.
- ARTHUR L. OVREGAARD, M.D., Clinical Instructor in Radiology (1954).
B.A. (1944), College of Idaho; M.D. (1948), Oregon.
- ABE OYAMADA, M.D., Associate Professor of Pathology (1954).
B.A. (1942), Reed; M.D. (1947), Oregon.
- FRANK B. PACKARD, M.D., Clinical Instructor in Surgery (1939).
B.A. (1930), University of Washington; M.D. (1935), Oregon.
- OTTO C. PAGE, M.D., Clinical Instructor in Medicine (1952).
B.S. (1941), M.D. (1944), Boston University.
- JOSEPH F. PAQUET, M.D., Clinical Associate in Medicine (1944).
M.D. (1940), Duke.
- ALLEN H. PARKER, M.D., Clinical Instructor in Medical Psychology (1958).
B.S. (1953), Oregon State; M.S. (1951), Ph.D. (1954), University of Portland.
- BRENT M. PARKER, M.D., Clinical Associate in Medicine (1957).
M.D. (1952), Washington University.
- C. RUSSELL PARKER, M.D., Clinical Instructor in Psychiatry (1957).
B.A. (1942), Reed; M.D. (1945), Cornell.
- MAX H. PARROTT, M.D., Clinical Instructor in Obstetrics and Gynecology (1949).
B.S. (1938), Oregon State; M.D. (1940), Oregon; M.S. (1949), Michigan.
- JOHN W. PARTRIDGE, M.D., Clinical Instructor in Medicine (1957).
B.S. (1943), M.D. (1945), University of Chicago.
- ROBERT W. PATTON, M.D., Clinical Instructor in Surgery (1951).
B.S. (1936), St. Martin's; M.D. (1942), Creighton.
- DAVID P. PAULL, M.D., Clinical Instructor in Urology (1953).
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- DUANE R. PAULSON, D.D.S., Clinical Instructor in Dental Medicine (1957).
B.S. (1949), Puget Sound; D.D.S. (1954), Northwestern.
- HAROLD D. PAXTON, M.D., Clinical Instructor in Neurosurgery (1956).
M.D. (1948), Johns Hopkins.
- ANTHONY A. PEARSON, Ph.D., Professor of Anatomy; Chairman of Department (1946).
B.S. (1928), Furman; M.A. (1930), Ph.D. (1933), Michigan.
- NORRIS H. PERKINS, M.D., Clinical Instructor in Medicine (1957).
B.A. (1940), M.D. (1953), Oregon.

- ANNE M. PERLEY, M.A., Assistant Professor of Biochemistry (1951).
B.A. (1927), Grinnell; M.A. (1929), Nebraska.
- FRANK PERLMAN, M.D., Assistant Clinical Professor of Medicine (1935).
B.S. (1931), M.D. (1933), Wisconsin.
- CLARE G. PETERSON, M.D., Professor of Surgery (1948).
B.A. (1939), M.D. (1943), M.S. (1945), Oregon.
- HEYES PETERSON, M.D., Clinical Associate in Medicine (1947).
B.S. (1934), University of Washington; M.D. (1938), University of Chicago.
- RUTH D. PETERSON, Ph.D., Assistant Professor of Biochemistry (1953).
B.S. (1926), Washington State; M.S. (1948), Ph.D. (1950), Oregon.
- CARL A. PETTERSON, M.D., Clinical Instructor in Medicine (1957).
B.A. (1938), M.D. (1942), Kansas.
- JEANNE S. PHILLIPS, Ph.D., Assistant Professor of Medical Psychology (1957).
A.B. (1951), Ph.D. (1957), Washington University.
- DONALD E. PICKERING, M.D., Professor of Pediatrics (1958).
A.B. (1945), Whitman; M.A. (1948), M.D. (1949), California.
- BERNARD PIROFSKY, M.D., Assistant Professor of Medicine (1956).
A.B. (1946), M.D. (1950), New York University.
- LEO A. PIROJNICKOFF, Ph.D., Instructor in Medical Psychology (1958).
A.B. (1951), California; M.S. (1955), University of Washington; Ph.D. (1958), Texas.
- DONALD M. PITCAIRN, M.D., Associate Professor of Medicine (1949).
B.A. (1944), Harvard; M.D. (1945), Oregon.
- ROBERT G. PITTENGER, M.D., Clinical Instructor in Medicine (1957).
B.S. (1948), M.D. (1950), Oregon.
- CAROLINE H. POMMARANE, B.S., Registrar (Assistant Professor) (1943).
B.S. (1928), Nebraska.
- JOHN KARL POPPE, M.D., Clinical Associate in Surgery (1946).
A.B. (1933), Hamilton; M.D. (1937), Rochester.
- DONALD R. PORTER, D.D.S., Clinical Instructor in Dental Medicine (1953).
D.D.S. (1951), M.S. (1953), Michigan.
- IRVING PUZISS, M.D., Clinical Instructor in Surgery (1956).
B.S. (1946), M.D. (1948), Oregon.
- JOHN RAAF, M.D., Clinical Professor of Neurosurgery; Senior Consultant in Neurosurgery (1937).
M.D. (1930), Stanford.
- JAMES RICHARD RAINES, M.D., Assistant Clinical Professor of Radiology (1947).
B.A. (1933), M.D. (1935), Oklahoma.
- ALFRED J. RAMPONE, Ph.D., Assistant Professor of Physiology (1955).
B.A. (1947), M.A. (1950), British Columbia; Ph.D. (1954), Northwestern.
- JAMES DE WITT RANKIN, B.S., Instructor in Cytotechnology (1959).
B.S. (1951), University of Portland.
- ROBERT M. RANKIN, M.D., Clinical Instructor in Orthopedic Surgery (1954).
B.A. (1944), Reed; M.D. (1946), Oregon.
- JESSE L. RAY, M.D., Clinical Instructor in Obstetrics and Gynecology (1953).
B.A. (1935), M.D. (1939), Stanford.
- LEON F. RAY, M.D., Assistant Clinical Professor of Dermatology (1939).
Ph.C. (1930), North Pacific College of Pharmacy; B.S. (1931), Oregon State; M.D. (1935), Oregon.
- RALPH B. REAUME, M.D., Clinical Instructor in Medicine (1959).
M.D. (1953), Washington University.

- EDGAR M. RECTOR, M.D., Assistant Clinical Professor of Pediatrics (1946).
S.B. (1937), Haverford; M.D. (1941), Harvard.
- CHARLES E. REED, M.D., Clinical Associate in Medicine (1951).
M.D. (1945), Columbia.
- SHERMAN E. REES, M.D., Clinical Associate in Radiology (1929).
M.D. (1925), Oregon.
- DONALD G. REESE, D.M.D., Clinical Associate in Dental Medicine (1949).
B.S. (1941), Washington State; D.M.D. (1946), Oregon.
- MELVIN M. REEVES, M.D., Clinical Instructor in Surgery (1957).
B.S. (1943), Hamline; B.M. (1946), M.D. (1947), M.S. (1957), Minnesota.
- PHILIP J. REILLY, M.D., Clinical Instructor in Neurology (1959).
B.S. (1949), St. Thomas; M.D. (1953), Marquette.
- WALTER C. REINER, M.D., Clinical Instructor in Surgery (1948).
B.S. (1930), Montana State University; M.D. (1934), College of Medical Evangelists.
- OREN R. RICHARDS, JR., M.D., Clinical Instructor in Medicine (1951).
B.A. (1945), Reed; M.D. (1947), Oregon.
- NORMAN H. RICKLES, D.D.S., Clinical Associate in Dental Medicine (1957).
D.D.S. (1947), Washington University; M.S. (1951), California.
- MATTHEW C. RIDDLE, M.D., Associate Clinical Professor of Medicine (1930).
B.A. (1917), Reed; M.A. (1922), Oregon; M.D. (1926), Harvard.
- DEMETRIOS A. RIGAS, Ph.D., Associate Professor of Experimental Medicine (1953).
Ch.E. (1941), Ph.D. (1943), National University of Engineering Science (Athens, Greece).
- JAMES A. RILEY, M.D., Clinical Instructor in Medicine (1949).
B.A. (1941), Oregon State; M.D. (1943), Oregon.
- ROBERT E. RINEHART, M.D., Clinical Instructor in Medicine (1953).
B.S. (1937), Oregon State; M.S., M.D. (1942), Oregon.
- EDWARD E. RIPPEY, M.D., Clinical Instructor in Surgery (1953).
B.A. (1920), Walla Walla; M.D. (1924), College of Medical Evangelists.
- ROBERT C. RITTEL, D.M.D., Clinical Instructor in Dental Medicine (1956).
D.M.D. (1943), Oregon.
- LEONARD W. RITZMANN, M.D., Associate Clinical Professor of Medicine (1954).
B.A. (1942), Valpariso; M.D. (1945), Washington University.
- JOSEPH M. ROBERTS, M.D., Clinical Associate in Surgery (1936).
B.A. (1929), M.D. (1932), Oregon.
- GEORGE M. ROBINS, M.D., Clinical Associate in Medicine (1948).
B.A. (1936), Columbia; M.D. (1940), Louisville.
- EDWIN G. ROBINSON, M.D., Clinical Instructor in Orthopedic Surgery (1950).
M.D. (1930), Northwestern.
- EUGENE W. ROCKEY, M.D., Clinical Professor of Surgery (1915).
B.A. (1908), Stanford; M.D. (1912), Harvard.
- WAYNE R. ROGERS, M.D., Clinical Instructor in Medicine (1956).
M.D. (1947), Tennessee.
- LEONARD B. ROSE, M.D., Clinical Associate in Medicine (1956).
A.B. (1939), New York University; M.D. (1943), Georgetown.
- EDWARD E. ROSENBAUM, M.D., Assistant Clinical Professor of Medicine (1948).
B.S. (1936), M.D. (1938), Nebraska; M.S. (1947), Minnesota.
- WILLIAM M. ROSENBAUM, M.D., Clinical Instructor in Surgery (1949).
B.S. (1938), M.D. (1940), Nebraska.

- MILLARD S. ROSENBLATT, M.D., Associate Clinical Professor of Surgery (1930).
A.B. (1922), Stanford; M.D. (1925), Harvard.
- JAMES W. ROSENFELD, M.D., Professor Emeritus of Pediatrics (1912).
M.D. (1910), Johns Hopkins.
- BENJAMIN B. ROSS, Ph.D., Assistant Professor of Physiology (1954).
B.S. (1949), Union; Ph.D. (1954), Rochester.
- JOHN CLARENCE ROTH, M.D., Assistant Professor of Anesthesiology (1957).
B.A. (1949), Willamette; M.D. (1954), Oregon.
- JOHN GORDON ROTH, M.D., Instructor in Neurosurgery (1958).
A.B. (1947), Municipal University of Wichita; M.D. (1950), Kansas.
- PETER P. ROWELL, M.D., Clinical Instructor in Ophthalmology (1959).
B.S. (1947), Idaho; M.D. (1952), Washington University.
- WILLARD D. ROWLAND, M.D., Clinical Instructor in Surgery (1947).
A.B. (1936), M.D. (1940), Washington University.
- HOMER P. RUSH, M.D., Clinical Professor of Medicine; Senior Consultant in Cardiology (1921).
M.D. (1921), Oregon.
- ARNOLD RUSTIN, M.D., Clinical Instructor in Urology (1954).
M.D. (1950), Iowa.
- EDWARD W. ST. PIERRE, M.D., Associate Clinical Professor of Surgery (1933).
M.D. (1921), Rush.
- GEORGE SASLOW, M.D., Professor of Psychiatry; Chairman of Department (1957).
Sc.B. (1926), Ph.D. (1931), New York University; M.D. (1940), Harvard.
- GEORGE R. SATTERWHITE, M.D., Clinical Instructor in Radiology (1959).
B.S. (1950), Seattle; M.D. (1953), St. Louis.
- GEORGE C. SAUNDERS, M.D., Clinical Associate in Otolaryngology (1933).
B.S. (1923), Virginia; M.D. (1927), Washington University.
- THOMAS L. SAUNDERS, M.D., Associate Clinical Professor of Dermatology (1937).
Ph.G. (1928), B.S. (1930), M.D. (1932), Maryland; M.S. (1937), Minnesota.
- BHIM S. SAVARA, B.D.S., Clinical Instructor in Dental Medicine (1950).
B.D.S. (1946), DeMontmorency College of Dentistry (Lahne, India); L.D.S., R.C.S. (1947), Royal Dental Hospital (London, England); M.S. (1950), Illinois.
- ROBERT C. SCHAAN, M.D., Instructor in Pediatrics (1958).
B.A. (1949), M.D. (1953), Washington University.
- WALTER W. SCHAFER, D.M.D., Clinical Instructor in Dental Medicine (1954).
D.M.D. (1953), Oregon.
- PAUL E. SCHAFF, M.D., Clinical Instructor in Anesthesiology (1959).
B.S. (1942), Idaho; M.D. (1951), Oregon.
- GOODRICH C. SCHAUFFLER, M.D., Associate Clinical Professor of Obstetrics and Gynecology (1925).
A.B. (1918), Williams; M.D. (1923), Harvard.
- QUINTEN SCHERMAN, M.D., Clinical Instructor in Obstetrics and Gynecology (1953).
B.A. (1942), M.A. (1943), South Dakota; M.D. (1945), Oregon.
- HENRY E. SCHLEGEL, M.D., Clinical Associate in Ophthalmology (1954).
B.A. (1936), M.S. (1938), Idaho; M.D. (1942), University of Chicago.
- GEORGE J. SCHUNK, M.D., Clinical Instructor in Pediatrics (1954).
A.B. (1943), Jamestown; B.S. (1944), North Dakota; M.D. (1946), Illinois.
- MARVIN SCHWARTZ, M.D., Clinical Associate in Medicine (1945).
A.B. (1935), M.D. (1939), M.S. (1945), Wayne.

- GERALD W. SCHWIEBINGER, M.D., Clinical Instructor in Urology (1955).
B.S. (1946), M.D. (1948), Wisconsin.
- WILLIAM C. SCOTT, M.D., Clinical Associate in Medicine (1946).
B.S. (1935), College of Idaho; B.M. (1939), M.D. (1940), Northwestern.
- DEAN B. SEABROOK, M.D., Clinical Professor of Surgery (1933).
M.D. (1923), Oregon.
- ARTHUR J. SEAMAN, M.D., Associate Professor of Medicine (1948).
B.A. (1939), M.D. (1942), Cincinnati.
- HARRY J. SEARS, Ph.D., Professor Emeritus of Bacteriology (1918).
A.B. (1911), A.M. (1912), Ph.D., (1916), Stanford.
- LAURENCE SELLING, M.D., Professor Emeritus of Medicine (1912).
B.A. (1904), Yale; M.D. (1908), Johns Hopkins.
- PHILIP SELLING, M.D., Assistant Clinical Professor of Medicine (1946).
B.A. (1935), Reed; M.D. (1939), Oregon.
- WILL L. SENDERS, M.D., Clinical Instructor in Medicine (1957).
B.S. (1947), Willamette; M.D. (1950), Oregon.
- JAMES C. SHANKLIN, M.D., Assistant Clinical Professor of Psychiatry (1952).
M.D. (1939), Indiana.
- WILLIAM H. SHELDON, M.D., Clinical Professor of Medicine (1951).
B.A. (1919), Brown; M.A. (1923), Colorado; Ph.D. (1925), M.D. (1933), University of Chicago.
- PAUL E. SHICK, JR., M.D., Assistant Clinical Professor of Pediatrics (1951).
B.A. (1945), Texas Technological; M.D. (1946), Tulane.
- AMBROSE B. SHIELDS, M.D., Clinical Instructor in Surgery (1942).
M.D. (1940), Kansas.
- FRED C. SHIPPS, M.D., Clinical Instructor in Radiology (1954).
A.B. (1942), Ohio Wesleyan; M.D. (1945), Western Reserve.
- NATHAN SHLIM, M.D., Clinical Instructor in Surgery (1956).
B.A. (1937), Wisconsin; M.D. (1941), Rush.
- FAULKNER A. SHORT, M.D., Clinical Associate in Orthopedic Surgery (1945).
B.A. (1932), M.D. (1936), Oregon.
- FRANK SHUBECK, M.D., Assistant Professor of Obstetrics and Gynecology (1958).
B.S. (1949), M.D. (1953), Michigan.
- ROBERT R. SIDDOWAY, D.M.D., Clinical Instructor in Dental Medicine (1952).
D.M.D. (1950), Oregon.
- MAX SIMONS, M.D., Clinical Instructor in Otolaryngology (1930).
M.D. (1924), Oregon.
- FRANK SISLER, M.D., Clinical Instructor in Psychiatry (1957).
A.B. (1942), M.D. (1946), Indiana.
- RICHARD L. SLEETER, M.D., Associate Professor of Pediatrics (1953).
B.A. (1940), Oregon; M.D. (1943), Washington University.
- DONALD B. SLOCUM, M.D., Clinical Associate in Orthopedic Surgery (1956).
B.S. (1932), Stanford; M.D. (1935), Oregon; M.S. (1939), Tennessee.
- CHARLES E. SMITH, D.M.D., Clinical Associate in Dental Medicine (1946).
D.M.D. (1940), Oregon.
- DORIS CATHERINE SMITH, Instructor in Radiological Technique (1954).
- FRANK B. SMITH, M.D., Associate Clinical Professor of Orthopedic Surgery (1944).
B.A. (1933), Southern California; C.M., M.D. (1937), McGill.

- GORDON N. SMITH, M.D., Clinical Instructor in Obstetrics and Gynecology (1957).
B.S. (1951), Oregon State; M.D. (1953), Oregon.
- LONDON H. SMITH, M.D., Assistant Clinical Professor of Pediatrics (1951).
B.A. (1944), Reed; M.D. (1946), Oregon.
- NORRIS D. SMITH, M.D., Clinical Instructor in Medicine (1958).
B.S. (1946), M.D. (1949), Oregon.
- ROGERS J. SMITH, M.D., Clinical Instructor in Psychiatry (1957).
A.B. (1942), Swarthmore; M.D. (1945), Michigan.
- KENNETH D. SMYTH, M.D., Clinical Instructor in Otolaryngology (1957).
B.A. (1948), College of Idaho; M.D. (1954), Oregon.
- PHILIP A. SNEDECOR, M.D., Clinical Instructor in Surgery (1958).
A.B. (1949), Stanford; M.D. (1953), Oregon.
- VINTON D. SNEEDEN, M.D., Clinical Professor of Pathology (1939).
B.A. (1932), Linfield; M.D. (1936), Oregon.
- WILLIAM E. SNELL, M.D., Associate Professor of Orthopedic Surgery; Head of Division (1951).
B.S. (1943), M.D. (1945), Oregon.
- WILLIAM M. SNOOK, M.D., Clinical Instructor in Pediatrics (1954).
M.D. (1949), Virginia.
- JOHN L. SOELLING, M.D., Clinical Associate in Medicine (1953).
B.A. (1944), Columbia; M.D. (1946), New York Medical College.
- CHARLES H. SPARKS, M.D., Clinical Instructor in Surgery (1958).
B.S. (1944), Montana School of Mines; M.D. (1951), St. Louis.
- JAMES T. SPEROS, M.D., Assistant Professor of Medicine (1940).
B.A. (1931), M.D. (1934), Oregon.
- MARGRET H. SPEROS, B.A., Clinical Instructor in Experimental Medicine (1953).
B.A. (1935), College of Idaho.
- PAUL R. SPIERLING, M.D., Clinical Instructor in Obstetrics and Gynecology (1958).
B.S. (1950), M.D. (1954), Illinois.
- HARRY E. SPRANG, M.D., Clinical Instructor in Psychiatry (1951).
B.S. (1942), Baldwin-Wallace; M.D. (1945), Ohio State.
- JOHN H. STALNAKER, M.D., Clinical Instructor in Medicine (1951).
B.A. (1941), Willamette; M.D. (1945), Oregon.
- ALBERT STARR, M.D., Assistant Professor of Surgery (1957).
B.A. (1946), M.D. (1949), Columbia.
- HOWARD C. STEARNS, M.D., Clinical Professor of Obstetrics and Gynecology (1932).
B.S. (1924), M.S. (1925), Oregon State; M.D. (1929), Oregon.
- DAN N. STEFFANOFF, M.D., Clinical Associate in Surgery (1951).
B.A. (1930), M.D. (1934), D.M.D. (1942), Oregon.
- JOHN W. STEPHENS, M.D., Clinical Associate in Medicine (1953).
B.S. (1939), M.D. (1944), Alberta.
- JANICE R. STEVENS, M.D., Assistant Professor of Neurology (1955).
B.A. (1944), Reed; M.D. (1949), Boston University.
- RUDOLPH B. STEVENS, M.D., Clinical Instructor in Surgery (1956).
B.S. (1947), M.D. (1949), Illinois.
- JOHN L. STEVENSON, M.D., Clinical Instructor in Pediatrics (1957).
A.B. (1950), Stanford; M.D. (1954), Oregon.

- WILLIAM A. STOTLER, Ph.D., Associate Professor of Anatomy (1946).
A.B. (1935), Westminster; M.S. (1937), St. Louis; Ph.D. (1942), Cornell.
- THEODORE SUHER, D.M.D., Clinical Associate in Dental Medicine (1949).
B.S., D.M.D. (1946), Oregon; M.S. (1948), Illinois.
- RALPH R. SULLIVAN, M.D., Clinical Instructor in Dermatology (1951).
B.S. (1927), M.B. (1929), M.D. (1930), Minnesota; M.P.H. (1942), Michigan.
- KENNETH C. SWAN, M.D., Professor of Ophthalmology; Chairman of Department (1944).
B.A. (1933), M.D. (1936), Oregon.
- ROY L. SWANK, M.D., Professor of Medicine; Head of Division of Neurology (1953).
B.S. (1930), University of Washington; M.D. Ph.D. (1935), Northwestern.
- WILLIAM R. SWEETMAN, M.D., Clinical Instructor in Surgery (1953).
B.A. (1940), M.D. (1943), Yale.
- WILLIAM J. SWETT, M.D., Clinical Associate in Medicine (1938).
B.A. (1928), Reed; M.D. (1932), Oregon.
- DAVID S. TAKALO, M.S., Clinical Instructor in Medical Technology (1956).
B.S. (1941), M.S. (1942), Oregon State.
- THOMAS E. TALBOT, M.D., Assistant Clinical Professor of Ophthalmology (1953).
B.S. (1942), Oregon State; M.D. (1945), Oregon.
- RONALD K. TALL, D.M.D., Clinical Associate in Dental Medicine (1957).
D.M.D. (1943), Oregon.
- ELLEN L. TALMAN, Ph.D., Assistant Professor of Biochemistry (1955).
B.A. (1942), Reed; M.S. (1949), Ph.D. (1951), Oregon.
- HOWARD J. TATUM, M.D., Associate Professor of Obstetrics and Gynecology (1958).
B.A. (1936), Ph.D. (1941), M.D. (1943), Wisconsin.
- DAVID K. TAYLOR, M.D., Clinical Associate in Medicine (1946).
B.A. (1929), College of Idaho; M.D. (1940), Oregon.
- DUANE R. TAYLOR, M.D., Clinical Instructor in Medicine (1954).
B.A. (1942), Oregon State; M.D. (1948), Washington University.
- E. MERLE TAYLOR, M.D., Clinical Professor of Ophthalmology (1932).
M.D. (1925), Iowa.
- T. GLENN TEN EYCK, M.D., Clinical Associate in Otolaryngology (1946).
B.A. (1930), M.D. (1933), Oregon.
- WILLIAM O. THOMAS, JR., M.D., Clinical Instructor in Obstetrics and Gynecology (1949).
B.A. (1937), Dartmouth; M.D. (1941), Harvard.
- RICHARD F. THOMPSON, Ph.D., Assistant Professor of Medical Psychology (1959).
B.S. (1952), Reed; M.S. (1953), Ph.D. (1956), Wisconsin.
- WILLIAM W. THOMPSON, M.D., Clinical Instructor in Psychiatry (1949).
B.S. (1943), Oregon State; M.D. (1945), Oregon.
- ROBERT H. TINKER, M.D., Clinical Instructor in Surgery (1942).
B.S. (1938), B.M. (1940), M.D. (1941), Illinois.
- ROBERT L. TIPS, M.D., Instructor in Pediatrics (1959).
B.A., M.A. (1949), Texas; Ph.D. (1952), Notre Dame; M.D. (1956), Texas.
- BRUCE L. TITUS, M.D., Assistant Clinical Professor of Otolaryngology (1943).
B.A. (1930), M.D. (1934), Oregon.
- WILBERT R. TODD, Ph.D., Professor of Biochemistry (1936).
B.S. (1925), Ph.D. (1933), Wisconsin.

- JOSEPH B. TRAINER, M.D., Associate Professor of Physiology and Medicine (1949).
B.S. (1939), M.S. (1941), University of Washington; M.D. (1946), Oregon.
- THOMAS A. TREANOR, M.D., Clinical Instructor in Obstetrics and Gynecology (1959).
B.A. (1950), Syracuse; M.D. (1954), New York State University.
- JOHN P. TROMMALD, M.D., Assistant Clinical Professor of Surgery (1939).
B.S. (1929), Yale; M.D. (1933), Harvard.
- JOHN E. TUHY, M.D., Associate Clinical Professor of Medicine; Head of Division of Chest Diseases (1948).
B.A. (1935), M.D. (1938), Oregon.
- ARCHIE R. TUNTURI, M.D., Associate Professor of Anatomy (1945).
B.A. (1939), Reed; M.S. (1943), Ph.D., M.D. (1944), Oregon.
- ALVIN O. UHLE, M.D., Clinical Instructor in Surgery (1955).
B.S. (1945), University of Portland; M.D. (1947), Northwestern.
- FRANKLIN J. UNDERWOOD, M.D., Assistant Clinical Professor of Medicine (1937).
M.D. (1933), Harvard.
- REX J. UNDERWOOD, M.D., Associate in Anesthesiology (1958).
B.A. (1950), Stanford; M.S., M.D. (1953), Oregon.
- JOHN T. VAN BRUGGEN, Ph.D., Associate Professor of Biochemistry (1947).
B.A. (1937), Linfield; M.A. (1939), Oregon; Ph.D. (1944), St. Louis.
- JOHN G. VANDENBERG, M.D., Clinical Instructor in Urology (1953).
B.S. (1945), Puget Sound; B.M. (1947), M.D. (1948), Northwestern.
- CLEMENS W. VAN ROOY, M.D., Clinical Instructor in Pediatrics (1958).
M.D. (1948), St. Louis.
- CHARLES VARGA, M.D., Clinical Instructor in Pediatrics (1956).
B.S. (1939), Rutgers; M.D. (1944), New York Medical College.
- LYLE VEAZIE, Ph.D., Associate Professor of Bacteriology (1942).
B.A. (1928), M.A. (1930), Ph.D. (1947), Oregon.
- BEN VIDCOFF, M.D., Clinical Associate in Medicine (1938).
B.S. (1929), M.D. (1932), M.S. (1948), Oregon.
- MARIE K. WAGNER, Assistant Circulation Librarian (Instructor) (1954).
B.S. (1940), State Teachers College, West Chester, Pennsylvania.
- SHELDON A. WALKER, M.D., Associate Clinical Professor of Dermatology (1955).
M.D. (1942), Iowa.
- GEORGE F. WALLIKER, JR., M.D., Clinical Instructor in Pediatrics (1949).
A.B. (1938), Nebraska; B.S. (1940), University of Portland; M.D. (1944), Tennessee.
- JOHN H. WATERMAN, M.D., Clinical Instructor in Psychiatry (1957).
B.S. (1929), M.D. (1933), Nebraska.
- CHARLES W. WATKINS, M.D., Clinical Instructor in Dermatology (1958).
B.A. (1948), Montana; M.D. (1951), St. Louis; M.S. (1958), Minnesota.
- EDWARD E. WAYSON, M.D., Clinical Instructor in Surgery (1952).
A.B. (1939), Dartmouth; M.D. (1943), Michigan.
- ADOLPH WEINZIRL, M.D., Professor of Public Health and Preventive Medicine; Chairman of Department (1937).
B.S. (1922), M.D. (1925), Oregon; C.P.H. (1932), M.P.H. (1939), Johns Hopkins.
- WARREN S. WELBORN, M.D., Clinical Instructor in Medicine (1956).
B.A. (1949), M.D. (1953), Oregon.
- JOHN D. WELCH, M.D., Clinical Associate in Medicine (1946).
B.A. (1936), Willamette; M.D. (1940), Oregon.

- ALVIN D. WERT, M.D., Associate Clinical Professor of Pediatrics (1946).
A.B. (1937), Colgate; M.D. (1941), Minnesota.
- EDWARD S. WEST, Ph.D., Professor of Biochemistry; Chairman of Department (1934).
A.B. (1917), Randolph-Macon; M.S. (1920), Kansas State; Ph.D. (1923), University of Chicago.
- RALPH N. WESTFALL, M.D., Clinical Associate in Otolaryngology (1949).
A.B. (1935), Maryville State Teachers; M.D. (1940), St. Louis.
- JAMES M. WHITELEY, M.D., Clinical Instructor in Obstetrics and Gynecology (1943).
B.S. (1935), M.D. (1938), Oregon.
- JAMES P. WHITTEMORE, M.D., Assistant Clinical Professor of Pediatrics (1948).
A.B. (1942), Holy Cross; M.D. (1945), Harvard.
- ARTHUR N. WIENS, Ph.D., Clinical Instructor in Medical Psychology (1958).
B.A. (1948), M.A. (1952), Kansas; Ph.D. (1956), University of Portland.
- RICHARD H. WILCOX, M.D., Clinical Instructor in Public Health and Preventive Medicine (1957).
B.S. (1932), South Dakota; M.D. (1934), Louisville; M.P.H. (1937), Johns Hopkins.
- JAMES W. WILEY, M.D., Clinical Instructor in Surgery (1948).
M.D. (1933), Oregon.
- KENNETH C. WILHELM, M.D., Clinical Instructor in Medicine (1956).
B.S. (1946), University of Washington; M.D. (1949), Oregon.
- CELOUS L. WILLIAMS, JR., M.D., Clinical Instructor in Medicine (1958).
M.D. (1954), Virginia.
- CHARLES P. WILSON, M.D., Assistant Clinical Professor of Medicine (1944).
A.B. (1920), Reed; M.D. (1924), Johns Hopkins.
- NATHANIEL D. WILSON, M.D., Clinical Instructor in Surgery (1953).
B.S. (1936), Wheaton; B.M. (1940), M.D. (1941), Northwestern.
- RICHARD D. WILSON, M.D., Clinical Instructor in Medicine (1954).
B.S. (1943), University of Washington; M.D. (1946), Medical College of Virginia.
- WILLIAM M. WILSON, M.D., Associate Clinical Professor of Obstetrics and Gynecology (1928).
B.S. (1920), Whitman; M.D. (1924), Johns Hopkins.
- ZOLTON T. WIRTSCHAFTER, M.D., Associate Clinical Professor of Medicine (1953).
B.S. (1921), Case School of Applied Science; M.B. (1926), M.D. (1927), Cincinnati.
- ROBERT A. WISE, M.D., Associate Clinical Professor of Surgery (1947).
B.A. (1922), M.D. (1925), Columbia.
- GREGG D. WOOD, M.D., Clinical Instructor in Surgery (1949).
B.A. (1939), Reed; M.D. (1943), Oregon.
- JAMES V. WOODWORTH, M.D., Clinical Instructor in Medicine (1952).
A.B. (1944), Whitman; M.D. (1946), Oregon.
- IVAN M. WOOLLEY, M.D., Clinical Associate in Radiology (1924).
M.D. (1919), Oregon.
- CLARENCE T. YAND, M.D., Clinical Instructor in Medicine (1959).
B.S. (1944), University of Washington; M.D. (1948), Oregon.
- ROBERT W. ZELLER, M.D., Assistant Clinical Professor of Ophthalmology (1951).
M.D. (1944), Loyola.
- WERNER E. ZELLER, M.D., Assistant Clinical Professor of Surgery (1946).
B.S. (1933), M.S. (1936), M.D. (1937), Oregon.
- WILLIAM A. ZIMMERMAN, B.S., Assistant to the Dean; Business Manager; Assistant Administrator of Hospitals and Clinics (Professor) (1945).
B.S. (1939), Oregon.

University of Oregon Medical School Hospitals and Clinics

- DAVID W. E. BAIRD, M.D., Dean.
- CHARLES N. HOLMAN, M.D., Associate Dean, Medical Director and Administrator.
- JARVIS GOULD, M.D., Assistant Medical Director and Assistant Administrator.
- MYRON R. GROVER, JR., M.D., Assistant Medical Director.
- WILLIAM A. ZIMMERMAN, B.S., Assistant Administrator.
- GWYNN C. BRICE, Administrative Assistant; Assistant Director of Outpatient Clinic.

- GEORGE M. AUSTIN, M.D., Chief of Surgery Neurological Service.
- RALPH C. BENSON, M.D., Chief of Obstetrical and Gynecological Service.
- WILLIAM S. CONKLIN, M.D., Chief of Thoracic Surgical Service.
- DAVID D. DEWESE, M.D., Acting Chief of Otolaryngological Service.
- CHARLES T. DOTTER, M.D., Chief of Radiological Service.
- J. ENGELBERT DUNPHY, M.D., Chief of Surgical Service.
- RAYMOND D. GRONDAHL, M.D., Chief of Clinical Pathological Service.
- FREDERICK P. HAUGEN, M.D., Chief of Anesthesiology Service.
- ALLAN J. HILL, JR., M.D., Chief of Pediatric Service.
- CLARENCE V. HODGES, M.D., Chief of Urological Service.
- WARREN C. HUNTER, M.D., Chief of Pathological Service.
- ARTHUR C. JONES, M.D., Chief of Physical Medicine.
- HOWARD P. LEWIS, M.D., Chief of Medical Service.
- WALTER C. LOBITZ, JR., M.D., Chief of Dermatological Service.
- HAROLD J. NOYES, D.D.S., M.D., Chief of Dental Medical Service.
- GEORGE SASLOW, M.D., Chief of Psychiatric Service.
- WILLIAM E. SNELL, M.D., Chief of Orthopedic Surgical Service.
- KENNETH C. SWAN, M.D., Chief of Ophthalmological Service.
- ROY L. SWANK, M.D., Chief of Neurological Service.
- MILDRED BERGHEIM, M.A., M.S.W., Supervisor of Medical Social Service.
- GRACE BLACK, O.T., Occupational Therapist.
- A. J. CLEMONS, Superintendent of Physical Plant.
- HILDA E. DRUM, R.T., Chief X-RAY Technician.
- CLARENCE HULTGREN, M.A., P.T., Chief Physical Therapist.
- LAURA P. MARTIN, R.N., C.R.L., Chief Record Librarian.
- MARJORIE P. MAXWELL, B.A., M.T., Chief Medical Technologist.
- MARJORIE R. MERRICK, B.S., Chief of Admitting Service.
- JOSEPH N. GENOUD, Ph.G., Chief Pharmacist.

University of Oregon Medical School Hospital Doernbecher Memorial Hospital for Children

- SHIRLEY M. THOMPSON, M.A., R.N., Director of Nursing Service.
- BETTY WEIBLE, B.S., R.N., Pediatric Supervisor.
- MAY E. RAWLINSO, B.S., R.N., Surgical Supervisor.
- MIRIAM CASSADY, M.A., R.N., Medical-Psychiatric Supervisor.
- ELEANOR MALLORY, R.N., Surgery Supervisor.
- MARIAN GREEN, M.S., R.N., Auxiliary Personnel Supervisor.

EVELYN BARTON, R.N., Night Supervisor.
 RUTH REMLY, R.N., Evening Supervisor.
 THELMA CROSLAND, R.N., Assistant Night Supervisor.
 VIRGINIA McMULLEN, B.S., R.N., Assistant Evening Supervisor.
 DOROTHY CAHILL, R.N., Head Nurse.
 CATHERINE CANNARD, R.N., Head Nurse.
 BEATRICE DUFFY, B.S., R.N., Head Nurse.
 BETTY Jo EDDINS, R.N., Head Nurse.
 EVA ENNIS, B.S., R.N., Head Nurse.
 FREDERICKA GRABLE, R.N., Head Nurse.
 LOIS HART, B.S., R.N., Head Nurse.
 ADA HOKE, R.N., Head Nurse.
 ESTHER KELLY, R.N., Head Nurse.
 MARY MAHNKE, R.N., Head Nurse.
 REGINA MOCKMORE, B.S., R.N., Head Nurse.
 DORIS STITELY, R.N., Head Nurse.

PAULINE ANDERSON, B.S., R.N., Admitting Supervisor.
 GLEN F. CRITESER, Laundry Manager.
 MAXINE FREEMAN, Executive Housekeeper.
 MARGARET ORTH, B.S., Dietitian.
 ESTHER J. ROHRER, M.A., Credit Supervisor.

General Outpatient Service

GWYNN C. BBICE, Assistant Director.
 MARJORIE R. MERRICK, B.S., Chief Admitting Officer.
 MARIAN W. PARSELL, B.S., R.N., Director of Nursing Service.
 NANCY W. BESHEAR, B.S., Dietitian.

Multnomah Hospital

JARVIS GOULD, M.D., Administrator and Assistant Medical Director.
 GALE RANKIN, R.N., Director of Nursing Service.
 MARGARET FOX, R.N., Assistant Director of Nursing Service.
 BARBARA BROWNE, B.S., R.N., Supervisor.
 PATRICIA GRAVEN, R.N., Supervisor.
 ARDYS HOKENESS, R.N., Supervisor.
 LAVERNE HONEY, R.N., Evening Supervisor.
 LORRAINE NELSON, B.S., R.N., Clinical Instructor.
 JUNE SATCHFIELD, B.S., R.N., Evening Supervisor.
 ALICE SHARF, R.N., Surgical Supervisor.
 EMMA H. McWILLIAMS, R.N., Night Supervisor.
 JEAN CALDWELL, B.S., R.N., Head Nurse.
 LAURA GREEN, R.N., Head Nurse.
 ESTHER HENDERSON, R.N., Head Nurse.
 JOAN NAYSMITH, R.N., Head Nurse.
 LEANN POOLE, R.N., Head Nurse.
 JEAN SCHROFFER, R.N., Head Nurse.
 BERNICE SETERE, B.S., R.N., Head Nurse.
 JOYCE VERCELLINO, R.N., Head Nurse.
 BEVERLY WARD, R.N., Head Nurse.
 DOROTHY YOSHITOMI, B.S., R.N., Head Nurse.

HELEN COLGAN, Ph.G., Pharmacist.
 HENRY L. DOENKA, Chief Engineer.
 VERNA JOHNSEN, R.N., Office Supervisor.
 RAMONA MCAFEE, B.S., R.N., Housekeeper.
 RUTH MERCER, M.A., Dietitian, Clinical Instructor in Dietetics.

Tuberculosis Hospital

JAMES T. SPEROS, M.D., Assistant Medical Director and Director of Outpatient Clinic.
 BARBARA HIATT, M.S., R.N., Superintendent.
 ELSA SWARTZ, R.N., Supervisor.
 JACKLYN PROKOPOVICH, R.N., Evening Supervisor.
 NELLIE WHIPPLE, R.N., Night Supervisor.
 BEVERLY BRYAN, R.N., Head Nurse.
 LUCILLE DORRIS, R.N., Head Nurse.
 MARGARET RYAN, R.N., Head Nurse.
 MADELYN HABIGER, B.S., Dietitian.

Visiting Physicians' Service

RANDALL WHITE, M.D., Multnomah County Physician.
 C. W. COTTERELL, M.D., Physician.
 HAROLD DOBBIN, M.D., Physician.
 ANTON D. ELMER, M.D., Physician.
 DONALD P. MCGREEVEY, M.D., Physician.
 MICHAEL L. MASON, M.D., Physician.
 WARREN S. WELBORN, M.D., Physician.
 CEILOUS L. WILLIAMS, M.D., Physician.

Crippled Children's Division

RICHARD L. SLEETER, M.D., Director.
 VICTOR D. MENASHE, M.D., Assistant Director.
 HEROLD S. LILLYWHITE, Ph.D., Speech and Hearing Consultant.
 ROBERT W. BLAKELEY, Ph.D., Speech and Hearing Consultant.
 HERBERT E. GRISWOLD, M.D., Cardiac Consultant.
 WILLIAM E. SNELL, M.D., Orthopedic Consultant.
 ALBERT STARR, M.D., Assistant Professor of Surgery.
 SAMUEL G. FLETCHER, Ph.D., Research Associate in Speech Pathology.
 GLADYS BELL, A.B., Medical Social Consultant.
 ADELE T. HANNA, B.A., Medical Social Consultant.
 RUTH W. SPOERLI, M.S.S., Medical Social Consultant.
 DOROTHY M. PRINZING, M.A., R.N., R.P.T., Nursing Consultant.
 DORIS CARR, B.S., R.P.T., Physical Therapist.
 PAULINE S. GILSON, B.A., R.P.T., Physical Therapist.
 VIRGINIA R. HATCH, B.S., Occupational Therapist.
 MARGARET A. COSTELLO, Administrative Assistant.

Cerebral Palsy Project (Collaborating Faculty Members)

WILLIAM M. CLARK, JR., M.D., Assistant Professor of Pediatrics.
 ROBERT L. TIPS, M.D., Instructor in Pediatrics.
 WILLIAM W. ORNDUFF, M.D., Instructor in Pediatrics.
 RUDOLF C. H. ENGEL, M.D., Associate Professor of Pediatrics.
 ROBERT C. SCHAAN, M.D., Instructor in Pediatrics.

OTTO R. EMIG, M.D., Assistant Professor of Pathology and Obstetrics and Gynecology.

FRANK SHUBECK, M.D., Assistant Professor of Obstetrics and Gynecology.

HOWARD J. TATUM, M.D., Assistant Professor of Obstetrics and Gynecology.

LEO A. PIROJNIKOFF, Ph.D., Instructor in Medical Psychology.

KATHERINE S. FRENCH, Ph.D., Instructor in Anthropology and Pediatrics.

C. DONALD NELSON, M.S., Research Assistant in Speech Pathology.

General Information

THE UNIVERSITY OF OREGON MEDICAL SCHOOL is located in Portland (population 412,100), the largest city in the state of Oregon. Situated on the Willamette River near its junction with the Columbia River, Portland is a city of diverse business and industrial activities and, although 85 miles from the Pacific Ocean, an important seaport. The city is well-known for its beautiful homes, parks, and boulevards and for its mild climate. The foothills of the Cascade Mountains rise on the outskirts of Portland; Mount Hood, one of the major peaks of the range, towers on the southeastern horizon.

History

MEDICAL EDUCATION in the Pacific Northwest had its beginnings in 1867 when courses and lectures were offered to medical students by the medical department of Willamette University in Salem. After ten years of operation it was decided that the medical department should move to Portland, where the metropolitan advantages of greater population and more hospitals would aid in providing a more complete teaching program.

During this period a group of Portland physicians petitioned the Board of Regents of the University of Oregon to grant a charter for a medical school to be located in Portland. In 1887 the charter was granted and the University of Oregon Medical School became a reality—in a two-room building in northwest Portland.

In 1895 the Willamette University medical department returned to Salem. Because of the limited facilities in that city and the lack of funds to continue operation, it merged with the University of Oregon Medical School in 1913. Under terms of the merger, the students of Willamette's medical department were transferred to the University of Oregon Medical School and, when they graduated received diplomas indicating the consolidation. At the same time the alumni groups also merged.

In 1919 the Medical School moved to its present campus, on a 108-acre tract in Sam Jackson Park overlooking the city of Portland—away from the congested area but within one and one-half miles of the business district. The original tract included 20 acres donated in 1914 by the Oregon-Washington Railroad and Navigation Company and 88 acres given by the late Mrs. C. S. Jackson and the late Philip Jackson in memory of C. S. Jackson, publisher of the *Oregon Journal*. In 1958, the Oregon State Board of Higher Education accepted the gift of an additional 27 acres from the Journal Publishing Company.

Because the location provided an ideal setting for medical center buildings and affiliated units, the University of Oregon Medical School in 1920 conveyed to Multnomah County 9 acres of the campus for the construction of a general charity hospital; in 1926 a 25-acre tract was deeded to the United States government as the site of the U. S. Veterans Hospital.

From 1919 to the present, great advances have been made in the development of the Medical School. The depth and scope of its various programs have continued to expand until today the school has a beautiful campus, fine hospitals, clinics and an excellent faculty.

Physical Facilities

THE PHYSICAL FACILITIES of the University of Oregon Medical School are valued at more than \$20,000,000, and are keeping pace with the school's expanding programs of education, research and public service.

The *First Medical Science Unit* (1919), a three-story structure, was financed through an appropriation of \$110,000 by the 1917 State Legislature and by cash donations amounting to \$25,000 from Portland citizens. *Mackenzie Hall* (1922), the second unit of the Medical Science Building, was financed through an appropriation of \$113,000 by the 1921 State Legislature, matched by an equal appropriation from the General Education Board of New York. Named in honor of the late Dean Kenneth A. J. Mackenzie, the building is four stories high, similar in construction to the first unit, but has twice its capacity. An additional \$50,000 was appropriated by the General Education Board for equipment.

The *Outpatient Clinic* (1931), open to patients throughout the state of Oregon who are unable to obtain medical care elsewhere, affords teaching facilities for the clinical branches of the Medical School. Over 140,000 patient visits are recorded annually. Funds for the construction of the building were provided through a gift of \$400,000 from the General Education Board of New York. The Outpatient Clinic had its origin in the Portland Free Dispensary founded in 1907 by the People's Institute, a private philanthropic institution. The dispensary affiliated with the Medical School in 1909 and moved to the campus in 1931.

Multnomah Hospital (1923, 1950), constructed through funds supplied by Multnomah County, has a capacity of 310 beds with facilities for general, medical, surgical, and obstetrical patients. The Multnomah Hospital group includes the *Heating Plant* (1923) and the *Emma Jones Nurses' Dormitory* (1927). Under terms of a contractual arrangement between the commissioners of Multnomah County and the Oregon State Board of Higher Education, the Medical School has access to the hospital for teaching purposes, and the professional staff of the hospital is appointed by the Medical School. This arrangement provides a most successful affiliation for teaching, research and care of the sick.

The *University State Tuberculosis Hospital* (1939) has an 80-bed capacity and a large outpatient unit, the *Julius L. Meier Memorial Clinic*. The hospital has medical and surgical facilities for teaching medical students, interns, residents, and nurses. Funds for the hospital were provided through a state appropriation of \$110,000, a Public Works Administration grant of \$130,900 and a gift from Mrs. Grace R. Meier, Mrs. Jack Meier, Mrs. Joseph Ehrman, Jr., and Mrs. Frederick Ganz, in memory of Julius L. Meier.

The *Library and Auditorium* (1939) was erected through a gift of \$100,000 from Dr. John E. Weeks, a gift of \$100,000 from the Rockefeller Foundation, and a grant of \$163,500 from the Public Works Administration. The *Auditorium*, with a seating capacity of 600, affords facilities for lectures and scientific meetings.

The *Medical School Library*, with stacks providing shelving space for 100,000 volumes, which may be expanded to accommodate an additional 100,000 volumes, contains more than 69,000 volumes of books and bound periodicals, as well as a large number of unbound periodicals. Approximately 1,300 current periodicals are received. Through the privileges of interlibrary loan and microfilm service, it is possible to obtain within a few days materials not contained in this collection. The Library has been enriched through many valuable gifts of books and periodicals from individuals and organizations. Members of the Women's Auxiliary of the Oregon State Medical Society and other friends of the Medical School aid in assembling books and objects of medical-historical interest. The Oregon State Board of Medical Examiners, the Portland Academy of Medicine and the Multnomah County Medical Society contribute to the annual operating fund. Public acknowledgement of gifts to the Library is made in a printed list in the annual Commencement program.

Entering students are given a survey of the resources of the Library and instruction in their use.

The *Nurses' Dormitory* (1943), formerly the Portland Medical Hospital, was purchased in 1943 to provide needed housing facilities for students in the Department of Nursing Education. This dormitory accommodates 95 students.

The *Laboratory and Administration Building* (1949) was financed through a state appropriation of \$663,000. The building houses facilities for the basic science departments, together with administrative offices for the Medical School.

The *Physical Plant Shop and Warehouse* (1953) provides shop facilities and a central warehouse for the Physical Plant Department. The building was financed by a state appropriation of \$71,000. A \$48,000 addition to the structure was added in 1958 to provide space for a centralized tabulating service operated by the State System of Higher Education Comptroller's Office.

The *Crippled Children's Division Building* (1954) has modern office space and clinical facilities for the statewide crippled children's service administered by the Medical School. It was financed through a \$280,000 appropriation approved by the 1953 Legislature.

The *University of Oregon Medical School Hospital* (1955), a 272-bed teaching and research hospital, was completed in the fall of 1955 at a cost of approximately \$6,300,000. Funds for the construction of the hospital were provided principally from state appropriations, supplemented by several gifts and grants. The hospital contains 128 beds for general, medical, and surgical patients, 31 beds for psychiatric care, and 113 beds for pediatrics (*Doernbecher Memorial Hospital for Children*).

The original Doernbecher Memorial Hospital for Children was built in 1926. It was financed through a gift of \$200,000 by Mrs. E. W. Morse and Edward Doernbecher, in memory of their father, the late F. S. Doernbecher, and by other gifts totaling \$120,000. The original hospital building was remodeled in 1957 at a cost of \$366,779 for clinical laboratory facilities, departmental offices, clinic facilities, and student teaching laboratories.

Philosophy and Objectives

MEDICINE is such a broad and extensive field that it is difficult in four years of the medical school to teach the student all that is required for the practice of medicine. The objective of a medical education is to enable the student to acquire the requisite amount of basic factual material, a desire to continue his education as long as he remains active or interested in medicine, the ability to evaluate objectively current trends and new advances in medicine, and the attitudes and ideals that are implied in accepting medicine as a "way of life" rather than merely a way of earning a living. The student must understand that high ethical standards are required in both his personal and professional conduct. The over-all education of a physician should not only make him proficient in the science and art of medicine, but should also fit him to assume effectively the civic and social responsibilities associated with his position in the community.

The student is not expected to learn all the skills of any specialty in medical school, but should acquire the fundamentals which will enable him, with further training, to enter any field of general or specialty practice, research, or teaching.

Accreditation

THE UNIVERSITY OF OREGON MEDICAL SCHOOL is one of 82 accredited schools of medicine in the United States. It is approved by the American

Medical Association and by the Association of American Medical Colleges. Its residency programs have been approved by the Council on Medical Education and Hospitals of the American Medical Association and by the respective American boards (see page 96). In addition, special programs are approved by the American Dietetic Association, the Council on Medical Education and Hospitals of the American Medical Association, the American Registry of X-Ray Technicians, and the Registry of Medical Technologists of the American Society of Clinical Pathologists.

Administration and Faculty

ALTHOUGH THE MEDICAL SCHOOL, chartered by the Board of Regents of the University of Oregon in 1887, has administrative and faculty autonomy, the academic position of the School as an integral part of the University of Oregon is established in its charter and is recognized under the organizational plan of the Oregon State System of Higher Education. A legislative act more than twenty-five years ago combined all of Oregon's state-operated institutions of higher education into the Oregon State System of Higher Education, which is administered by a nine-member lay board appointed by the Governor. The Chancellor is the chief executive officer.

The Medical School has 110 full-time faculty members serving in its basic and clinical science departments; and more than 450 clinical faculty members who practice in Portland and the surrounding area donate a portion of their time to the teaching and research programs of the Medical School.

Instruction

THE UNIVERSITY OF OREGON MEDICAL SCHOOL provides a standard undergraduate curriculum leading to the degree of Doctor of Medicine. This program begins with an introduction to the normal structure and function of the human body, and continues in the second year with a study of the effects of disease and the methods of diagnosis of disease. The clinical portion of the student's program is largely concentrated in the third and fourth years; much of this training is taken in the wards of the school's hospitals and in the Outpatient Clinic, where students learn under careful supervision and guidance how to apply their scientific knowledge to the care of patients and the prevention of disease.

The Medical School also offers a special five-year program of study for outstanding students leading to both the medical degree and the Master of Science degree. This program, offered through the basic science departments of the Medical School—anatomy, bacteriology, biochemistry, pathology, pharmacology, physiology, and the division of medical psychology—is open to a few selected students each year. A student enters the five-year program after completing the first two years of medicine, and then pursues a combined course of medical and graduate studies. Such students spend three summers and a part of the regular academic years in graduate study. This program affords an unparalleled opportunity for review and consolidation of basic science concepts at a time when the student has had sufficient clinical training to enable him better to appreciate the importance of the basic sciences in relation to clinical medicine. It provides research experience and advanced basic science training desirable for students expecting to enter medical research and teaching as a career and a superior scientific background for clinical medicine.

Five-year medical students assist with teaching in medical laboratory courses during the school year, and with research. In recognition of the value of such

students to the departments concerned, and of the necessity of postponing the acquisition of the M.D. degree, such "student assistantships" are accompanied by remunerations.

The Medical School also offers regular programs of graduate work, leading to the Master of Science and Doctor of Philosophy degrees, in the basic sciences, and conducts training programs for residents and interns in the school's hospitals and clinics.

A Department of Nursing Education is an important part of the Medical School's instructional program. Courses in medical technology and X-ray technique and clinical affiliations in dietetics and occupational therapy also are offered. Each year the Medical School conducts an extensive postgraduate program for physicians of the states of the Pacific Northwest, British Columbia, and Alaska (see also pages 96-97).

Research

ALTHOUGH THE PRIMARY PURPOSE of the University of Oregon Medical School is teaching medical students the science and art of medicine, another and equally important function is medical investigation into the causes and treatment of disease.

In the world-wide struggle to improve the health and happiness of mankind, millions of research dollars are expended annually in the nation's medical schools. Oregon is no exception. Investigations underway at the Medical School are supported by gifts and grants amounting to more than \$1,000,000 annually. These funds are made available by private individuals and industry, by foundations and societies, and by the state and Federal governments.

Currently, over 100 research projects are being conducted at the school in virtually every area of medicine. Contributions made by University of Oregon Medical School investigators to medical knowledge have been numerous and have received world-wide recognition.

Student Organizations

Student American Medical Association. Medical students have an opportunity to join the Student American Medical Association (SAMA), a national medical student organization. The purpose of SAMA is to represent medical student interests on a national scale. Membership is voluntary and on an individual basis. Locally, SAMA, in addition to planning student activities, sponsors an all-campus activities calendar, scientific noon-hour programs, and a part-time employment file for medical students and their wives, and makes available to students life and hospital insurance programs. Annual dues include a subscription to the SAMA publication, the *New Physician*.

Alpha Omega Alpha. Alpha of Oregon chapter of Alpha Omega Alpha, medical college honor society for both men and women, was installed at the University of Oregon Medical School in 1923. The aims of the society are the promotion of scholarship among medical students and the encouragement of high standards of character and conduct. Selection for AOA is made by the active members each spring from the junior and senior classes on the basis of scholastic achievement and character.

Fraternalities. There are three medical fraternities for men at the University of Oregon Medical School—Alpha Kappa Kappa, Nu Sigma Nu, and Phi Beta Pi.

Alpha Kappa Kappa and Phi Beta Pi maintain "houses" which provide living quarters for members.

Women students are members of the Oregon section of the American Medical Women's Association.

Alumni of these groups take an active interest in their affairs, and the association of alumni, faculty, and student members constitutes an important benefit of membership.

Christian Medical Society. The Christian Medical Society (CMS), a non-denominational organization, holds discussion meetings each week and social gatherings once a month. Students of any religious persuasion are invited to attend these meetings.

Junior Medical Auxiliary. During the school year wives of medical students meet twice each month for social activities and welfare projects. A program of interest to all members is scheduled for each of the monthly business meetings. Smaller groups "social clubs," also meet once a month. Membership in the auxiliary is about 150.

Interns and Residents Auxiliary of Portland. Wives of interns and residents in Portland hospitals meet each month for a program, social activities, and the planning of service projects. Meeting place is rotated among the Portland hospitals.

Social Activities and Athletics

GENERAL INVITATIONS are extended to all students to attend special lectures and meetings in the Medical School Auditorium. Notices of these events are posted on student bulletin boards. Several traditional dances and fraternity get-togethers are planned each year by medical student organizations. An annual freshman reception and a reception for graduates following Commencement ceremonies are given by the Faculty Wives' Club.

All students have access to Portland's metropolitan cultural advantages, and may follow their religious preference by attending any of Portland's many churches.

Because of enrollment limitations each year and the highly specialized and concentrated nature of medical subjects, the Medical School is unable to sponsor athletics officially. However, students may participate in an intramural sports program.

A Student Activities Building, providing recreational and athletic facilities for the use of all students on the campus is scheduled for construction, beginning in the summer of 1959.

Housing

WHILE NO FACILITIES FOR HOUSING students are provided by the Medical School, many apartments and boarding houses are located close to the campus. In addition, the Alpha Kappa Kappa and Phi Beta Pi fraternities maintain housing for their members. An up-to-date list of vacancies in apartments and boarding houses is maintained in the Registrar's Office.

Student Health Service

A STUDENT HEALTH SERVICE, maintained by the Medical School, provides care for acute diseases and is available for counselling. Preventive as well

as therapeutic services are provided. Hospitalization for a maximum of fifteen days per academic year is available for emergency medical or surgical conditions only.

Coverage by the Health Service is available if the student is registered for 7 hours or more credit in the current term and has paid the Health Service fee of \$10.00 for the term. There is no provision for care of student's dependents and no provision for elective surgery. All married students are strongly advised to carry some form of hospital insurance.

Detailed information is provided in a Student Health Service booklet available at the Health Service Office and at the Registrar's Office. All students should obtain copies when they register.

Fellowships, Scholarships, Prizes, Loan Funds

Noble Wiley Jones Pathology Research Fellowship. This fellowship, established in 1919, consisting of the interest on \$5,000 held in trust, is the gift of Dr. Noble Wiley Jones of Portland. It is awarded annually to a medical student or resident on the basis of scholastic ability, training in pathology, and interest in research in this field.

Lederle Medical Student Research Fellowships. The Lederle Laboratories Division of the American Cyanamid Company provides fellowships for outstanding students for research in the basic sciences. The annual grant from the Lederle Laboratories is \$1,200, to be distributed among not more than three students. Further information may be obtained in the office of the dean.

The National Foundation Fellowships. Fellowships for medical students are provided each year by The National Foundation. Fellowships are available in each of the following fields: research in the biological and physical sciences related to medicine, physical medicine and rehabilitation, and public health and preventive medicine. Each grant is for \$600 for research during the summer vacation period. Further information may be obtained in the office of the dean.

Summer Student Research Fellowships. A number of fellowships are available to selected medical students for summer research in both basic science and clinical departments. These fellowships provide the opportunity to gain first-hand experience in medical research under the supervision of experienced investigators. Application must be made to the head of the department concerned prior to April 1 preceding the summer for which the fellowship is to be awarded.

Frank Ralston Research Student Assistantship. This assistantship was established in 1946 through a gift of \$5,000 from Dr. Frank Ralston. Since that time additional gifts have increased the principal of the fund to approximately \$13,000. The funds are devoted to research in glaucoma under the direction of the head of the Department of Ophthalmology.

Dr. Laurence Selling Student Research Scholarships. The Selling Scholarship Fund was established in 1957 through a gift of approximately \$200,000 from an anonymous donor. The income is to be used for student research scholarships at the Medical School. Students are recommended for the award by a committee of the faculty, and the awards are based on scholastic ability and research promise. Awards are limited to students participating in the five-year program. (See page 95, Five-Year Program.)

Kenneth A. J. Mackenzie Memorial Scholarship. Five \$200 scholarships are awarded annually for the study of medicine, in accordance with the following

plan; one \$200 scholarship is awarded each year to the outstanding premedical student at the University of Oregon in the last year of his premedical studies; if the student enters the University of Oregon Medical School and continues to maintain a high scholastic record, the scholarship is renewable for each of his four years of medical training; if the student does not maintain a high scholastic record at the Medical School, his scholarship is transferred to the outstanding member of his Medical School class who has taken 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.

Pohl Memorial Scholarships. These scholarships were endowed in 1936 by a gift of \$5,000 from Dr. Esther Pohl Lovejoy, in memory of her husband, Dr. Emil Pohl, and her son, Frederick Clayton Pohl. The original gift has been supplemented by additional annual donations from Dr. Lovejoy, which have increased the endowment to about \$33,000. Awards are made to students of promise in the field of medicine. Two-thirds of the scholarships are given to men students, one-third to women students. Application should be filed with the office of the dean of the Medical School not later than March 1. Scholarships are awarded by the dean upon the recommendation of the Scholarship Committee of the Medical School.

James P. Griffith Scholarships. Three \$500 scholarships are awarded each year from a fund established in 1959 through a bequest from Mrs. James P. Griffith in memory of her husband. Awards are made to worthy and promising medical students on the basis of need and scholastic attainment.

State Scholarships. In accordance with special authorization from the Legislature, the State Board of Higher Education awards annually a limited number of scholarships to students in the institutions of the State System who are residents of Oregon, who rank high in scholastic attainment, and who need financial assistance. These scholarships cover tuition. Recipients must pay the building fee, the incidental fee, and special fees. Award of state scholarships to students at the Medical School is made upon recommendation of the dean and the Scholarship Committee of the Medical School. Application should be filed in the office of the dean of the Medical School not later than March 1.

George H. Strowbridge Memorial Scholarship. This scholarship consists of the income from a bequest of \$5,000 from Mary S. Muellhaupt in memory of Dr. George H. Strowbridge, a graduate of the University of Oregon Medical School in the Class of 1897. Award is made to a student of the second-, third-, or fourth-year class on the basis of scholastic attainment and need. Application should be filed in the office of the dean of the Medical School not later than March 1. Scholarships are awarded by the dean upon the recommendation of the Scholarship Committee of the Medical School.

Henry Waldo Coe Prize. This prize, established in 1929, is awarded to a second-, third-, or fourth-year student in the Medical School who presents an essay on a medical subject exhibiting superiority and originality in composition. The prize consists of the interest on a gift of \$1,000 from the late Dr. Henry Waldo Coe.

George T. Gerlinger Memorial Graduation Gift. An annual award of \$100 is presented to an outstanding senior from Benton, Linn, or Polk County. The award is supported through a gift presented by Mrs. George T. Gerlinger in 1952 in memory of her husband.

Joseph Lipschutz Memorial Essay Award. An award of \$50 is made annually to the fourth-year medical student who writes and presents the best paper

in the field of pediatrics. The award is supported by a \$600 fund contributed by private donors as a memorial to Dr. Joseph Lipschutz, a graduate of the Medical School who gave his life for his country in World War II.

Loan Funds. The Medical School has loan funds available for students. In general, loans fall into two classifications—emergency and long-term loans. Long-term loans are generally limited to \$500 a year or to a maximum of \$1,000 to any one student. Emergency funds are available for small, short-term loans. Interest rates vary with the fund used and application should be made to the Medical School Business Manager's Office.

Ben Selling Loan Fund. This fund, a bequest from the late Mr. Ben Selling, is administered by Dr. Laurence Selling and the Trust Department of the First National Bank of Oregon.

W. K. Kellogg Loan Fund. In May 1942, the W. K. Kellogg Foundation established a \$10,000 loan fund at the University of Oregon Medical School for the financial assistance of medical students. Preference is given to first- and second-year students who have demonstrated scholastic ability, character, and need. The usual loan is \$250. Loans are administered through the office of the dean.

F. E. Jacobs Memorial Loan Fund. This loan fund was established in 1950 through gifts from relatives and friends of the late Dr. F. E. Jacobs, a 1929 graduate of the University of Oregon Medical School. Loans are made to senior medical students. The fund at present totals approximately \$800.

University of Oregon Loan Funds. Medical School students are eligible for loans from the University of Oregon student loan fund on the same basis as students on the campus at Eugene.

National Defense Loan Funds. A limited number of loans are available from Federal funds under the provisions of the National Defense Education Act. The usual loan is \$500 a year.

Alumni Association

FOUNDED in 1913, the Alumni Association of the University of Oregon Medical School also includes graduates of the Willamette University department of medicine. The association is devoted to the interests of students and graduates and to the encouragement of scientific and professional progress among members of the medical profession generally. Its membership numbers more than 2,500. In the spring of each year, the Alumni Association sponsors a three-day scientific meeting on the Medical School campus with about 400 registrations. Alumni Association officers for 1959-60 are:

DR. FAULKNER A. SHORT, Portland.....	President
DR. JOHN E. TUBY, Portland.....	Vice-President
DR. ALLAN L. FERRIN, Salem.....	Vice-President
DR. HERBERT D. LEWIS, Hood River.....	Vice-President
DR. GEORGE A. ULETT, St. Louis, Mo.....	Vice-President
DR. DANIEL G. VAUGHAN, JR., San Jose, Calif.....	Vice-President
DR. ARTHUR W. SULLIVAN, Portland.....	Secretary
DR. JOSEPH E. NOHLGREN, Portland.....	Treasurer

Academic Requirements and Regulations

Admission Requirements

High School Preparation. The applicant must have satisfactorily completed a four-year course in an accredited high school or its equivalent.

Premedical Requirements. Because there is no single course of study which best suits a person for medicine, the best advice for a student planning to prepare for medical school is that he should obtain a thorough, sound general education and emphasize in college those fields in which he has the greatest personal interest, whether they be in the sciences or in the liberal arts. It is essential that a good basic preparation in the fundamentals of chemistry, physics, and biology be obtained; but, with this training, a student whose major undergraduate interest lies outside the biological or physical sciences should have adequate scientific preparation for medicine. Intensive scientific specialization will come soon enough, when the student enters the Medical School. While this specialization is necessary in Medical School, it is exceedingly important that the future physician in training remain constantly aware of the fact that the practice of medicine involves working with all kinds of people in many and complex social relations. For this reason, preparation for a career in medicine is inadequate if limited largely to scientific subjects. Because of their eventual responsibilities in human relationships, students have need for a broad liberal education. As we learn more of man and his reactions, it becomes obvious that social, economic, and other environmental factors have much to do with his physical and mental health.

Certainly, a student with a primary interest in biology, chemistry, or physics should not be discouraged from pursuing such studies as a major course in his undergraduate career. It is not desirable, however, to take courses in college which will be duplicated in medical school (human anatomy, biochemistry, human physiology, medical bacteriology, etc.). A student is better prepared for medicine if he takes more basic courses or work in other fields such as mathematics and the social and behavioral sciences. Premedical education, then, should be planned to include, not only adequate scientific preparation, but also the type of broad education which leads to an understanding of the world in which we live. The three or four years in college should be looked upon as an opportunity to gain a good general education and not merely as a stepping stone to medical school.

Admission to the Medical School is based upon two types of qualifications. The applicant must present evidence of good character, proper attitude, and sincere interest in the study of medicine. He must also have demonstrated sufficient intellectual ability to undertake satisfactorily the study of medicine, as judged by his premedical scholastic record and scores on the Medical College Admission Test. Admission is on a competitive basis.

Applicants for admission are required to complete satisfactorily not less than three years of full-schedule work in an accredited college or university, that is, 138 term hours (92 semester hours) of college work, exclusive of military science, before entering the Medical School.

The following subjects and credits are prescribed as the minimum acceptable for admission:

	Term hours
Chemistry.....	24
General inorganic, which may include qualitative analysis.....	12
Quantitative analysis, emphasis on volumetric analysis.....	4
Organic.....	8
Biology.....	15
General biology or zoology.....	9
Selections from comparative anatomy, embryology, or genetics (in this order of preference).....	6
Physics.....	12
Mathematics.....	6
*English.....	9
Electives.....	72
Total prescribed credit.....	138

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 the physician. Students anticipating research in the medical sciences should have 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 requirements. At least 25 per cent of all chemistry credit must be for laboratory work.

Human anatomy is not accepted toward meeting the minimum requirements in biology. The work in physics must include the divisions of mechanics, heat and sound, light and electricity.

The work in mathematics should be of standard college grade, and should include subjects such as algebra, elementary analysis, trigonometry, or calculus.

Recommended Elective Subjects. The student preparing to study medicine is advised to plan a balance in elective courses between those in liberal arts and courses beyond the minimum requirements in subjects prescribed for admission to the Medical School. Subjects suggested are: history, economics, sociology, psychology, English, public speaking, and foreign language.

Medical College Admission Test. Applicants for admission are expected to have taken the Medical College Admission Test given for the Association of American Medical Colleges at the various institutions offering premedical curricula. Exceptions to this rule may be allowed in the case of applicants who, because of legitimate reasons approved by the Committee on Admissions, have been unable to take the test.

Applicants should take the test during the calendar year immediately preceding the year of their admission to the Medical School. The test is given twice each year—in the early fall and mid-spring. Information as to exact time and place of the test and registration deadlines can be obtained from college premedical advisers.

Bachelor's Degree. A student entering the University of Oregon Medical School without a Bachelor of Arts or Bachelor of Science degree must complete the work required for one of these degrees in the Oregon State System of Higher Education or in 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, Oregon State College, and most of the colleges and universities of the Pacific Northwest recognize credit earned by a student during his first year at the Medical School as credit earned in residence toward the bachelor's degree.

Application Procedure. Application forms may be obtained from the Medical School Registrar, and all credentials should be sent to that office. Because the Committee on Admissions begins examining applications a year in advance of

* Students expecting to receive the bachelor's degree from the University of Oregon should include 9 hours of English composition and 9 hours of English literature in their premedical programs.

entrance to the Medical School, *early application is advisable*. Applications are accepted between July 1 and December 15. A place in the first-year class is not granted to an applicant more than one year before the beginning of instruction for that class.

The University of Oregon Medical School gives primary consideration to well-qualified applicants who are residents of Oregon. Preference is also given to residents of neighboring western states which do not have medical schools, particularly residents of states which are members of the Western Interstate Commission on Higher Education (WICHE). Occasionally exceptional applicants from other regions are admitted.

Applicants who are residents of Idaho, Montana, Arizona, New Mexico, Wyoming, or Alaska should request certification for medical training under WICHE from their state certifying officer or agency at the time application is made for admission to the University of Oregon Medical School. In addition to preferential consideration for admission given WICHE certified applicants over other nonresident applicants, the WICHE-certified applicant pays the Oregon resident tuition fee.

On or before December 15 the applicant must submit the following:

Formal application for admission on the form furnished by the Medical School Registrar.

Official transcript of previous college record (sent directly to the University of Oregon Medical School Registrar by the registrar of the institution where preprofessional training was taken), showing the complete college record with grades and credits.

A fee of \$5.00 which is charged for the evaluation of transcripts. This fee should be enclosed with the application for admission. (Make checks or money orders payable to the University of Oregon Medical School.)

One unmounted recent glossy photograph, size 2½" x 3."

Scores received on the Medical College Admission Test (when the student takes the test he should request that his scores be sent to the University of Oregon Medical School Registrar).

After the initial screening, well-qualified applicants will be required to submit: (1) a *health questionnaire*, completed by the student; (2) a *physical examination sheet*, completed by the student's physician.

Processing of Applications

Evaluation of Credentials. The Committee on Admissions examines each applicant's credentials and bases its preliminary decision on the objective evaluation of the following factors: preprofessional training, evidence of scholarship, Medical College Admission Test scores, personal evaluation of the student by premedical instructors, and evidence of good moral character.

Personal Interview. After examination of credentials, residents of Oregon generally are requested to appear for a personal interview with the Committee on Admissions. A personal interview is not requested of nonresidents whose credentials indicate that they cannot meet the competition for admission. The committee schedules interviews in Portland, Eugene, and Corvallis.

Physical Examination. Just as the Medical School's Committee on Admissions may refuse admission to a student on the basis of academic record, it also may reject an applicant on the grounds of lack of physical or mental suitability.

Applicants who appear well qualified on the basis of the initial screening by the committee are required to submit reports of complete examinations by their own physicians, which are reviewed by the student health physician before final acceptance.

Notification of Acceptance or Rejection. All candidates are given written notification of acceptance or rejection as soon as possible after the Committee on Admissions has reached its final decision; notification is generally given by April 15. Acknowledgement of notification of acceptance should be made promptly in writing by the successful applicant.

Acceptance of Appointment. When an applicant is accepted for admission to the Medical School and wishes to accept this admission, a deposit of \$25.00 must be paid not later than two weeks following notice of acceptance in order to reserve a place in the entering class. If the deposit is made prior to December 15, it is not refundable after January 15 should the student release his place in the class. If the deposit is made after December 15 it is not refundable after a period of thirty days following notice of acceptance.

Special Students. Special students are admitted to the University of Oregon Medical School under certain special conditions. The reasons for admission, qualifications for entrance, and the courses to be taken as a special student must be passed upon by the Admissions Committee and approved by the dean.

Graduates in medicine may be admitted as special students, but graduates in medicine from other medical schools may not be candidates for the degree of Doctor of Medicine at the University of Oregon Medical School.

Students holding only academic degrees may be admitted as special students in certain courses in the Medical School. Such students may not receive academic credit for work in clinical subjects and may not audit clinical courses.

Undergraduates may not be admitted to courses in the Medical School as special students.

A person who has failed a course as a medical student in another medical school may not repeat the course as a special student at the University of Oregon Medical School unless the course is given at some time other than during the regular academic year.

Special students are charged fees according to the credit hours of work taken.

Application forms for admission as a special student may be obtained from the Registrar.

Advanced Standing. A student may be considered for admission with advanced standing, provided his official credentials are accompanied by a statement from the registrar of the institution from which he is transferring to the effect that the applicant's scholarship in medical school work ranks in the upper fifty per cent of his class. An honorable dismissal and premedical preparation meeting the regular requirements for admission are also required. In general, only transfer to the third-year class is feasible. Only a limited number of students can be admitted with advanced standing.

Registration Procedure. Medical students register only once each year (see Calendar, p. 8), at the beginning of the fall term. Students report to the Registrar's Office on the day of registration to receive schedules of classes and fee slips (indicating the total fees to be paid for the term). Fees are to be paid at the Cashier's Office during the first week of classes.

Schedules of classes for subsequent terms are available at 8:00 a.m. on the first day of the term at the Registrar's Office. During the first week of the term the student must report to that office to pick up a fee slip.

Fees and Expenses

FEES AND DEPOSITS paid by students at the University of Oregon Medical School are as follows:

Regular Fees

Tuition, per term.....	\$ 60.00
Laboratory and course fee, per term.....	123.00
¹ Building fee, per term.....	8.00
² Incidental fee, per term.....	10.00
	<hr/>
	\$201.00
Nonresident fee, per term (in addition to fees for resident students).....	\$101.00

Graduate Fees³

For graduate students registered for 7 or more term hours of work per term:	
Tuition	\$ 10.00
Laboratory and course fee.....	46.00
¹ Building fee.....	8.00
² Incidental fee.....	10.00
	<hr/>
	\$ 74.00
For graduate students registered for 6 term hours of work or less.....\$10.50 per term hour (minimum, \$21.00 per term)	
For graduate students employed as graduate or research assistants or fellows, per term:	
¹ Building fee.....	\$ 8.00
² Incidental fee.....	10.00
	<hr/>
	\$ 18.00

Deposits

⁴ Deposit to reserve place in entering class (applied on tuition).....	\$25.00
⁵ Breakage deposit, per year—first and second years.....	15.00
⁵ Breakage deposit, per year—graduate students.....	5.00

Special Fees

Registration and laboratory fee for special students registered for 6 term hours of work or less——\$17.00 per term hour (minimum, \$34.00 per term)	
Auditor's fee for lectures, per term hour.....	\$ 5.50
An auditor is a person who has obtained permission to attend classes without receiving academic credit.	
Transcript fee.....	\$ 1.00
One transcript is issued free; a fee of \$1.00 is charged for each additional transcript.	
Evaluation fee.....	\$ 5.00
The evaluation fee is charged for the evaluation of transcripts submitted with the application for admission; not refundable.	

¹ Part-time special students (students taking 6 hours of work or less) do not pay the building fee.

² The incidental fee is for student health service.

³ Only those students pursuing programs of study toward the M.A., M.S., or Ph.D. degree are classified as graduate students. These students do not pay the nonresident fee.

⁴ See page 55.

⁵ The cost of any damage done by a student to Medical School property is deducted from his deposit; in case the identity of the one responsible cannot be established, a pro-rata charge is made against the entire class of which he is a member.

Late-registration fee, per day.....	\$1.00
Students registering after the scheduled registration day of any term pay a late-registration fee of \$1.00 per day. The first penalty day for graduate students is one week after the scheduled registration day.	
Penalty for late payment of tuition and fees, per day.....	25 cents
The first penalty day is one week after registration. Enrollment is canceled if tuition is not paid two weeks after registration day; a \$2.00 fee is required for reinstatement.	
Graduate qualifying-examination fee.....	\$1.00 to \$15.00

Microscopes

Medical students are expected to provide themselves with microscopes. Microscopes are available for students who wish to rent them, for a fee of \$5.00 a term.

Estimate of Yearly Expenses

The following table represents only estimates based on current fees and results of student surveys.

Tuition and fees, full-time resident students.....	\$ 570.00
Tuition and fees, full-time nonresident students.....	843.00
Breakage deposit	15.00
Microscope fee	12.00
Books and supplies	135.00
Board and room	1,000.00
Personal expenses	200.00

Fee Refunds

Students who withdraw from the Medical School 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 Oregon State Board of Higher Education and is on file in the Business Office of the Medical School. 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.

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 summer session, (c) a student paying part-time fees, (d) a student whose parent is a regular employee of the Federal government stationed in Oregon, (e) a student who has been a resident of Hawaii or Alaska for two years immediately preceding admission to the Medical School, or (f) a student whose father is domiciled in the state of Oregon as defined under (1) below.

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

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 considering intent include length of time within the state, age and family status of student, residence of near relatives, place of voting, ownership of property, source of financial support, 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 her parents' 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 his Oregon domicile is lost.

Part-Time Employment

The academic responsibilities in medical school are such that it is usually impossible for a student to undertake outside employment during the school year without causing academic work to suffer. This is particularly true in the first and second years. Under special circumstances students may find employment in various departments of the University of Oregon Medical School and hospitals during their second, third, and fourth years and during summer vacations.

Veterans' Information

The student must present a Certificate of Eligibility to the Registrar effective prior to the opening day of the course in order to take advantage of veterans' benefits. The Medical School maintains contractual arrangements with the Veterans Administration covering practically all courses of study offered by the institution.

Public Law 550 (Korean Veterans). Under this plan the student pays all the expenses of tuition and books and receives a monthly check, designed to cover both educational expenses and subsistence, from the Veterans Administration. The amount of the check is based on the number of hours for which the student is enrolled. The Korean veteran may discontinue his training for a period not exceeding twelve months without losing his eligibility. If he wishes to return to school after this period, he must reapply for a Certificate of Eligibility.

Public Law 894 (Korean Veterans). Each case is handled individually according to the percentage of disability. Disabled veterans should contact the Veterans Administration directly for answers to their questions concerning this law.

Questions concerning benefits should be directed to the Registrar's Office.

Scholastic Regulations

Grades and Grading System. A numerical grading system of *I* to *V* is used at the Medical School. *I* is the highest and *V* is the lowest passing grade. If a course is not completed within the time allotted, the work must be finished satisfactorily within one year. Failure in a course requires repetition of the course. In most courses the student will be given frequent written and practical tests, marked with percentage grades. The student may be given these percentage grades by his instructors, but *final grades are issued only by the Registrar's*

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

Office. Final grades are given for each term's work, but are issued only at the end of the school year.

If at any time during the school year the student feels his work is not satisfactory, he should consult his instructor. Should special problems arise that threaten to interfere with study, the student should consult a faculty member for advice before his scholarship has been seriously affected.

Promotion. In order to be promoted unconditionally from the first to the second year and from the second to the third year in Medical School, the student must receive a passing grade in all subjects and a weighted grade average of 4.00 or better (less than 4.00) determined from grades received and number of credit hours. For promotion from the third to the fourth year, students must satisfactorily complete all subjects. The status of students failing to meet these requirements is determined by the promotion boards.

The Preclinical Promotion Board, which considers only students in the first and second years of medicine, consists of all faculty members giving instruction during the first and second years. The Clinical Promotion Board is concerned with the performance of third- and fourth-year students; this board is composed of representatives from all the clinical departments. The boards meet after the end of each term to consider incomplete work, conditions, and failures.

Specific problems are referred to the Review Board for subsequent action. The Review Board, composed of heads of departments, considers primarily requests from students arising from actions taken by the Preclinical and Clinical Promotion Boards.

Elective Courses. Elective courses are offered in both clinical and basic science departments. Registration for elective courses must be arranged with the Registrar during the first week of the term in which the course is given.

If the student withdraws from an elective course for any reason, this must be done at the Registrar's Office within two weeks after the beginning of the course. Otherwise he will be held responsible for the course and the grade will be incorporated into his record.

Dismissal. The faculty has the right to sever, at any time, the connection with the Medical School of any student who is considered to be physically, morally, or mentally unfit for a career in medicine. A student may be dropped upon the recommendation of a Promotion Board.

A student ordinarily may be on probation status for two terms before the Promotion Board recommends his dismissal; however, the faculty, for adequate cause, may drop a student without previous warning.

Requirements for the Degree of Doctor of Medicine. A candidate for the degree of Doctor of Medicine must complete satisfactorily the curriculum and all other requirements prescribed by the faculty of the Medical School. All candidates for degrees are required to be present at the Commencement Exercises to receive their diplomas in person. The Doctor of Medicine degree is conferred by the University of Oregon upon the recommendation of the faculty of the Medical School.

Licensure. Admission to the practice of medicine in any state is conditioned upon the requirements of a state board of medical examiners. Admission to practice in the state of Oregon is dependent upon the candidate's having an M.D. degree, completing a one-year straight or rotating internship, and passing the basic science and licensing examinations. For candidates who are already licensed to practice in another state, the licensing examination may be waived by reciprocity with that state, if such a reciprocal agreement is in force. In some instances completion of the basic science requirements may be arranged by reciprocity also.

Further information about licensure requirements may be obtained from the Oregon State Board of Medical Examiners, 609 Failing Building, Portland.

Students are urged to take the Oregon basic science examination at the end of their sophomore year. This examination is given by the Basic Science Examining Committee of the Oregon State Board of Higher Education and is required for licensure in Oregon. Information concerning this examination may be obtained by writing the Basic Science Examining Committee, Oregon State Board of Higher Education, Eugene.

Curriculum in Medicine

THE CURRICULUM IN MEDICINE requires a total of seven years' work beyond high school. The first three years must be satisfactorily completed before admission to the Medical School in Portland. Since facilities for instruction provide for the acceptance of only a limited number of applicants, completion of pre-medical studies does not guarantee admission to the Medical School.

The four years spent in the Medical School in Portland are devoted to the subjects of the regular four-year curriculum in medicine required by law.

The prescribed and recommended subjects for the three premedical years are described under ADMISSION AND REQUIREMENTS. In the first, second, third, and fourth years at the Medical School there are 5,436 class hours of required work. Descriptions of courses are to be found under the several departmental headings.

Prescribed Work

First Year

	Aggregate class hours			Term hours
	Lecture	Lab.	Clinic Total	
An 411, 412, 413...Gross Anatomy	84	288	372	15
An 414.....Embryology	24	72	96	4
An 415.....Histology	36	108	144	6
An 511.....Neurology	24	72	96	4
BCh 411, 412.....Biochemistry	96	180	276	13
Phy 411.....Human Physiology	60	108	168	8
Med Ps 411, 412.....Intro. to Medical Psychology	48	.....	48	3
PH 411.....Statistical Methods	12	36	48	2
	384	864	1,248	55

Second Year

Bac 413, 414.....Med. Microbiology & Immunology	72	144	216	10
CP 511.....Intro. to Clinical Pathology	36	72	108	5
Pth 511, 512.....General Pathology	72	144	216	10
Pth 514.....Gyn. and Obs. Pathology	12	24	36	1½
Phc 511, 512.....Pharmacology	96	72	168	10
Phy 412.....Human Physiology	48	72	120	6
Med 612, 613, 614.....Physical Diagnosis	72	72	144	9
Psy 511, 512.....Interview. Tech. & Psychiatric Med.	24	48	72	4
PH 512, 513.....Epidemiology	36	36	72	4
Sur 610, 611.....Introduction to Surgery	24	.....	24	2
Sur 612.....Healing Processes	12	.....	12	1
	504	612	1,188	62½

Third Year

PATHOLOGY				
Pth 515.....Laboratory Neuropathology	12	24	36	1½
Pth 615, 616.....Clin. Pathology Conference .....	.....	24	24	1
MEDICINE				
Med 615, 616, 617.....Lectures in Internal Medicine	84	.....	84	7
Med 630.....Clinical Clerkship .....	.....	276	276	12
Der 615, 616, 617.....Lect. & Demon. in Dermatology	36	.....	36	3

	Aggregate class hours			Term hours
	Lecture	Lab.	Clinic Total	
PSYCHIATRY				
Psy 615.....Lectures in Clinical Psychiatry	12	.....	12	1
Psy 630.....Clinical Clerkship .....	.....	72	72	3
RADIOLOGY				
Rad 615, 616, 617.....Radiographic Diagnosis	36	.....	36	3
PUBLIC HEALTH & PREVENTIVE MEDICINE				
PH 511.....Principles of Public Health	36	.....	36	3
SURGERY				
Sur 615, 616.....Minor Surgery	24	.....	24	2
Sur 617, 618, 619.....Lectures on Surgery	36	.....	36	3
Sur 630.....Clinical Clerkship .....	.....	210	210	8½
Sur 631.....Surgery Clerkship-Clinic .....	.....	36	36	1½
Orth Sur 615.....Orthopedics	24	.....	24	2
Orth Sur 616, 617.....Surgery of the Extremities	24	.....	24	2
Orth Sur 630.....Orthopedic Clerkship-Clinic .....	.....	12	12	½
Orth Sur 631.....Fractures and Joint Injuries .....	.....	24	24	1
Ur 615.....Dis. of Genito-Urinary Tract	12	.....	12	1
Ur 630.....Urology Clerkship-Clinic .....	.....	12	12	½
Ur 631.....Urology Clerkship .....	.....	24	24	1
Anes 615, 616.....Lectures on Anesthesia	24	.....	24	2
Anes 630.....Regional Anesthesia	18	.....	18	1½
Neur Surg 630.....Neurosurgical Seminar .....	.....	24	24	1
OPHTHALMOLOGY				
Eye 615.....Eye	12	.....	12	1
OTOLARYNGOLOGY				
Ent 615.....Ear, Nose and Throat	12	.....	12	1
Ent 616.....Ear, Nose and Throat	12	.....	12	1
OBSTETRICS				
Ohs 615.....Introductory Obstetrics	12	.....	12	1
Ohs 616.....Lectures & Demonstration in Obstetrics	12	.....	12	1
Ohs 630.....Clinical Clerkship .....	.....	66	66	3
Ohs 631.....Manikin .....	.....	12	12	½
Ohs 632.....Attendance at Deliveries .....	.....	12	12	½
GYNECOLOGY				
Gyn 615, 616.....Gynecology	24	.....	24	2
Gyn 630.....Clinical Clerkship .....	.....	60	60	2½
PEDIATRICS				
Ped 615, 616, 617.....Diseases of Infancy & Childhood	36	.....	36	3
Ped 630.....Clerkship .....	.....	174	174	7½
	498	24	1,038	1,560
				86
Fourth Year				
CLINICAL PATHOLOGY				
CP 650.....Clinical Pathology	12	.....	12	1
PATHOLOGY				
Pth 650, 651, 652.....Clinical Pathology Conference .....	.....	36	36	1½
Pth 653.....Forensic Medicine	12	.....	12	1
Pth 654.....Oncology	12	12	24	1
Pth 655.....Surgical Pathology	12	24	36	1½
MEDICINE				
Med 650, 651, 652.....General Clinical Conference .....	.....	72	72	3
Med 653, 654, 655.....Conference on Medical Therapy .....	.....	36	36	1½
Med 656.....Allergy	12	.....	12	1
Med 657.....Occupational Medicine	12	.....	12	1
Med 658.....Medical Economics	12	.....	12	1
Med 670.....Medical Outpatient Clinic .....	.....	120	120	5
Med 671.....Gastroenterology Outpatient Clinic .....	.....	12	12	½
Med 672.....Metabolism & Diabetes Outpatient Cl. ....	.....	12	12	½
Med 673.....Endocrinology Outpatient Clinic .....	.....	12	12	½
Med 674.....Cardiovascular-renal Outpatient Clinic .....	.....	12	12	½
Med 675.....Chest Disease Outpatient Clinic .....	.....	12	12	½
Med 676.....Allergy Outpatient Clinic .....	.....	12	12	½
Med 677.....Hematology Outpatient Clinic .....	.....	12	12	½
Med 678.....Tb. Outpatient Clinic and Clerkship .....	.....	24	24	1
Neu 670.....Neurology Outpatient Clinic .....	.....	12	12	½
Der 670.....Dermatology Outpatient Clinic .....	.....	36	36	1½
DM 650.....Dent. Facial Growth & Oral Path.....	12	.....	12	1

	Aggregate class hours				Term hours		
	Lecture	Lab.	Clinic	Total			
PSYCHIATRY							
Psy 670.....	Psychiatry Outpatient Clinic & Clerk.....	.....	72	72	3	
SURGERY							
Sur 650.....	Surgical Conference	12	.....	12	1	
Sur 651, 652.....	General Surgical Clinic .....	.....	48	48	2	
Sur 670.....	Surgery Outpatient Clinic .....	.....	60	60	2½	
Sur 671.....	Surgical Conference .....	.....	12	12	½	
Sur 672.....	Cancer .....	.....	24	24	1	
Sur 673.....	Clinical Pathology .....	.....	36	36	1½	
Sur 674.....	Physical Medicine .....	.....	24	24	1	
Orth Sur 670.....	Orthopedic Outpatient Clinic .....	.....	36	36	1½	
Ur 650.....	Dis. of Genito-Urinary Tract	12	.....	12	1	
Ur 670.....	Urology Outpatient Clinic .....	.....	36	36	1½	
Anes 670.....	Anesthesia Clerkship .....	.....	12	12	½	
OPHTHALMOLOGY							
Eye 650.....	Eye	12	.....	12	1	
Eye 670.....	Eye Outpatient Clinic .....	.....	24	24	1	
OTOLARYNGOLOGY							
Ent 670.....	Ear, Nose & Throat Outpatient Clinic.....	.....	36	36	1½	
OBSTETRICS							
Obs 670.....	Obstetrics Outpatient Clinic .....	.....	78	78	3½	
Obs 671.....	Spec. Prob. in Obs. Outpatient Clinic .....	.....	18	18	1	
Obs 672.....	Postnatal Outpatient Clinic .....	.....	18	18	1½	
Obs 673.....	Attendance at Deliveries .....	.....	36	36	1½	
GYNECOLOGY							
Gyn 670.....	Gynecology Outpatient Clinic .....	.....	48	48	2	
Gyn 671.....	Gynecology Tumor Outpatient Clinic.....	.....	24	24	1	
PEDIATRICS							
Ped 670.....	Pediatric Outpatient Clinic.....	.....	90	90	4	
Ped 671.....	Pediatric Outpatient Specialty Clinic .....	.....	120	120	5	
			132	36	1,272	1,440	65½

Recapitulation

	Aggregate class hours				Term hours
	Lecture	Laboratory	Clinic	Total	
First year.....	384	864	.....	1,248	53½
Second year.....	504	612	72	1,188	62½
Third year.....	498	24	1,038	1,560	86
Fourth year.....	132	36	1,272	1,440	65½
	1,518	1,536	2,382	5,436	267½

Prescribed Work by Departments

	Aggregate class hours
Preclinical	
Anatomy.....	708
Bacteriology.....	216
Biochemistry.....	276
Clinical pathology.....	108
Pathology.....	216
Pharmacology.....	168
Physiology.....	288
Medical psychology.....	48
Public health.....	48
Total hours, preclinical.....	2,076
Clinical	
Clinical pathology.....	12
Pathology.....	204
Medicine:	
General medicine.....	876
Dermatology.....	72
Neurology.....	12
Dental medicine.....	12

Psychiatry.....	228
Radiology.....	36
Public Health.....	108
Surgery:	
General surgery.....	558
Orthopedic surgery.....	120
Urology.....	96
Anesthesiology.....	54
Neurosurgery.....	24
Ophthalmology.....	48
Otolaryngology.....	26
Obstetrics.....	264
Gynecology.....	156
Pediatrics.....	420
Total hours, clinical.....	3,360
Total hours, prescribed work.....	5,436

Description of Courses

Course Numbering System

MEDICAL SCHOOL courses are numbered in accordance with the uniform course-numbering system of the Oregon State System of Higher Education. This numbering system, as it applies to the Medical School courses, is as follows:

- 400-499. Upper-division courses primarily for first-year students in medicine, but to which graduate students may be admitted on approval of the graduate adviser and department head concerned.
- 500-599. Courses primarily for students in basic medical science, but to which graduate students may be admitted on approval of graduate adviser and department head concerned.
- 600-699. Courses that are highly professional in nature may count toward a professional degree, but cannot apply toward an advanced academic degree (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 acceptable work done. These course numbers are as follows:

- | | |
|---------------|-----------------------------|
| 501. Research | 505. Reading and Conference |
| 503. Thesis | 507. Seminar |

Basic Science Departments

Anatomy

ANTHONY A. PEARSON, Chairman of Department

Professors

ROBERT L. BACON

ANTHONY A. PEARSON

Associate Professors

WILLIAM A. STOTLER

ARCHIE R. TUNTURI

Assistant Professor

DAVID L. GUNBERG

Research Assistants

ANNE CIPOLLA

RICHARD B. LYONS

EDWARD M. SCHNEIDER

GUNNAR E. CHRISTIANSEN

JILL McLEAN

DOLORES M. WAHL

Student Assistants

DAVID L. HAUGEN

KEITH D. HOLMES

PETER H. ROBERTS

SAM L. MEYER

REQUIRED COURSES

FIRST YEAR

An 411, 412, 413. **Gross Anatomy.** 6 hours fall, 6 hours winter, 3 hours spring.

Regional dissection of the human body. Each two students dissect the lateral half of a body. The student is furnished with a loan collection of disarticulated bones for the study of osteology. Demonstrations include surface and radiological anatomy. Fall: lectures and quizzes, 2 hours a week; laboratory, 12 hours a week. Winter: lectures and quizzes, 3 hours a week; laboratory, 9 hours a week. Spring: lectures and quizzes, 2 hours a week; laboratory, 3 hours a week. 372 hours.

An 414. **Embryology.** 4 hours winter.

Lectures on reproductive cycle, fertilization, normal and abnormal human development, correlated with the laboratory study of pig embryos and with demonstrations of human embryos and fetuses. Lectures and quizzes, 2 hours a week; laboratory, 6 hours a week. 96 hours.

An 415. **Histology and Organology.** 6 hours fall.

Systematic study of the microscopic anatomy of normal human tissues and organs. Lectures and laboratory exercises furnish an introduction to how cells contribute to tissue and organ function and to how the organs are assembled from tissues. Lectures and quizzes, 3 hours a week; laboratory, 9 hours a week. 144 hours.

An 511. **Neurology and Organs of Special Senses.** 4 hours spring.

Study of the structure and functions of the organs of special senses and of the central nervous system. This is accomplished by gross dissections and stained sections of the human brain, spinal cord, and organs of special senses. Pathological conditions illustrating lesions of the nervous system are demonstrated. Prerequisites: An 411, An 412, An 413, An 415. Lectures, 2 hours a week; laboratory, 6 hours a week. 96 hours.

ELECTIVE COURSES

An 416. **Microscopic Technique.** 2 hours spring.

The theory and practice of preparing animal tissue for histological study. Limited to 4 students, registration only after consultation with instructor. Laboratory, 6 hours a week; 72 hours.

An 501. **Research.** Any term, hours to be arranged.

Open to qualified students in any branch of anatomy upon approval of the instructors.

An 505. **Reading and Conference.** Any term, hours to be arranged.

An 507. **Seminar and Journal Club.** Any term, hours to be arranged.

An 514. **Special Dissections.** Term and hours to be arranged.

Human anatomical material dissected and certain parts of the body studied more thoroughly. Conferences and quizzes arranged with the instructor. Registration limited by available material. Prerequisites: An 411, 412, 413.

An 611. **Applied Anatomy.** 2 hours spring.

The objective of this course is to present to a limited number of students (30-40) a review of human anatomy, with an anatomical consideration of the various regions of the body with reference to specific surgical problems. Embalmed and unembalmed cadavers used. Surface and radiological anatomy included. Prerequisites: An 411, 412, 413. Lectures and demonstrations, 2 hours a week; 24 hours.

Bacteriology

ARTHUR W. FRISCH, Chairman of Department

Professor

ARTHUR W. FRISCH

Associate Professors

EVELYN L. OGINSKY

LYLE VEAZIE

Instructor

ERNEST A. MEYER

Research Assistant

GORDON H. DAVIES

Student Assistant

R. BRADLEY SACK

REQUIRED COURSES

SECOND YEAR

Bac 413, 414. **Medical Microbiology and Immunology.** 5 hours each term, fall and winter.

The material covered includes basic bacteriology, immunology, and pathogenic microbiology. Bacterial, viral, rickettsial, and fungal diseases presented during the first 18 weeks. The last six weeks are devoted to the study of protozoan and helminthic parasites of man. Lectures and recitations, 3 hours a week; laboratory, 6 hours a week. 216 hours.

ELECTIVE COURSES

Bac 501. **Research in Bacteriology and Immunology.** Hours to be arranged.

Bac 505. **Reading and Conference.** Any term, hours to be arranged.

Bac 507. **Seminar in Bacteriology and Immunology.** 1 hour any term.

Meetings of the departmental staff and assistants with a number of specially qualified students to discuss the newer developments in the science as they appear in the current periodical literature. Topics assigned and individual reports read at meetings of the class. Open to a limited number of students. Meetings held once each week for one hour.

Bac 508. **Advanced Bacteriology and Immunology.** Any term, hours to be arranged.

A course for medical, special, and graduate students who wish to pursue any phase of the subject beyond Bac 414.

Biochemistry

EDWARD S. WEST, Chairman of Department

Professors

WILBERT R. TODD

EDWARD S. WEST

Associate Professors

HOWARD S. MASON

JOHN T. VAN BRUGGEN

Assistant Professors

CLARISSA H. BEATTY
JACK H. FELLMAN

DAVID S. JACKSON
ANNE M. PERLEY

RUTH D. PETERSON
ELLEN L. TALMAN

Instructor

ROSE MARY BOCEK

Research Associates

FRANCISCO K. ANAN
GORDON R. JOHNSTON
RUSSELL L. JOLLY

EDWARD PETERSON
DONALD E. PICKERING
DEMETRIOS A. RIGAS

K. NOLAN TANNER
ISAO YAMAZAKI

Research Assistants

MARILOUISE ALLEN

BETTY BAXTER
PHYLLIS A. HOFFMAN

JEAN SCOTT

Student Assistants

WALTER C. BERNARDS
J. CLINTON ELWOOD

NICHOLAS KONTAXIS
MADHUKAR PHATAK

WILLIAM H. SACK

REQUIRED COURSES

FIRST YEAR

BCh 411, 412. **General Medical Biochemistry.** 6 hours fall, 7 hours winter.

Organic and physical chemistry pertaining to biochemistry; the composition of tissues; enzymes, digestion, and absorption; detoxication; the chemistry of blood and respiration; hormones; metabolism; nutrition; the excretions. Fall: lectures, 4 hours a week; laboratory, 6 hours a week. Winter: lectures, 4 hours a week; laboratory, 9 hours a week. 276 hours.

ELECTIVE COURSES

BCh 501. **Biochemistry Research.** Any term, hours to be arranged.

BCh 505. **Reading and Conference.** Any term, hours to be arranged.

BCh 507. **Seminar.** Any term, hours to be arranged.

BCh 512. **Biochemical Techniques.** Any term, hours to be arranged.

Preparation of selected substances of biochemical importance, selected methods of analysis, theory and use of radioisotopes, instrumentation. Assigned readings, lectures, and laboratory. Prerequisites: BCh 411, 412.

BCh 513. **Advanced Biochemistry.** Any term, hours to be arranged.

The more advanced phases of biochemistry, with special emphasis upon metabolic processes. Assigned readings and lectures. Prerequisites: BCh 411, 412.

BCh 514. **Chemistry of Bio-organic Substances.** Any term, hours to be arranged.

The composition and properties of substances important in biochemistry presented from the viewpoint of modern chemical and physical theories. Assigned readings and lectures. Prerequisites: BCh 411, 412.

Clinical Pathology

RAYMOND D. GRONDAHL, Chairman of Department

Professor

RAYMOND D. GRONDAHL

Associate Professor

TYRA T. HUTCHENS

Associate Clinical Professor

JAMES H. LIUM

Assistant Professor

GERALD J. LATTIG

Assistant Clinical Professors

MARLOWE DITTEBRANDT

HOMER H. HARRIS

EUGENE W. LANDRETH

Instructors

MARY E. BAPTIST
(Medical Technology)

MARTHA L. HAMILTON

Clinical Instructor

DAVID S. TAKALO

Residents

TOSHIO FUJIKURA

JAMES E. HAINES
LAWRENCE R. HEISELT

NIGEL A. PICKERING

REQUIRED COURSES

SECOND YEAR

CP 511. **Introduction to Clinical Pathology.** 5 hours spring.

Lectures, demonstrations, and laboratory work dealing with the application of laboratory measurements to the practice of medicine. Lectures, 3 hours a week; laboratory, 6 hours a week. 108 hours.

FOURTH YEAR

CP 650. **Clinical Pathology.** 1 hour spring.

Lectures and demonstrations, dealing with recent development in laboratory methods applicable to the practice of medicine. Special emphasis on serum diagnosis and the use of radioisotopes. 1 hours a week; 12 hours.

ELECTIVE COURSES

CP 501. **Research.** Any term, hours to be arranged.

- CP 520, 521. **Radioisotope Techniques.** 1 hour each term, fall and winter. Lectures and demonstrations concerning the theoretical and practical application of radioisotope techniques to medicine. 1 hour a week; 24 hours.
- CP 522. **Radioisotope Laboratory.** Any term, hours to be arranged. Laboratory experience with instruments used in radioisotope work.

Pathology

WARREN C. HUNTER, Chairman of Department

Professor

WARREN C. HUNTER

Clinical Professor

VINTON D. SNEEDEN

Associate Professors

NELSON R. NILES

ABE OYAMADA

Associate Clinical Professors

SHELDON A. JACOBSON

E. COLTON MEEK, JR.

JEFF MINCKLER

Assistant Professor

OTTO R. EMIG

Instructor in Cytotechnology

JAMES DE WITT RANKIN

Clinical Instructors

ERNEST J. LOSLI

JOSEPH E. NOHLGREN

Clinical Fellow

NORMAN H. RICKLES

Residents

MARGRET E. BERROTH

LINDA E. CASTRO

ZOILOR R. VICIEDO

Graduate Assistant

WILLIAM B. WESCOTT

Student Assistants

JOHN C. KELLY

WINSTON E. MAXWELL

RICHARD A. ROMAINE

RONALD W. VINYARD

REQUIRED COURSES

SECOND YEAR

- Pth 511. **General Pathology.** 5 hours fall. General principles of disease. Study of prepared slides supplemented by experiments and study of selected autopsies by all students; fresh and museum specimens; Kodachrome slides and scopicon orientation. Lectures and recitations, 3 hours a week; laboratory, 6 hours a week. 108 hours.
- Pth 512. **General Pathology.** 5 hours winter. Same as Pth 511 except that disease is related to body systems. Lectures, 3 hours a week; laboratory, 6 hours a week. 108 hours.
- Pth 514. **Gynecological and Obstetrical Pathology.** 1½ hours spring. Basic and practical consideration of diseases of female organs. Lectures, 1 hour a week; laboratory, 2 hours a week. 36 hours.
- THIRD YEAR
- Pth 515. **Laboratory Neuropathology.** 1½ hours spring. Laboratory work and demonstrations dealing with inflammatory reactions and degenerative conditions, with emphasis on general paresis, tabes dorsalis, and brain tumors. Correlative lectures in neurophysiology and clinical neurology. Gross pathological specimens and demonstrations used in illustrating the diseases studied. Lectures, 1 hour a week; laboratory, 2 hours a week. 36 hours.

- Pth 615, 616. **Clinical-Pathological Conference.** ½ hour each term. Presentation of autopsy cases by departments concerned, together with clinical pathologic correlation and general discussion. 1 hour a week; 24 hours.

FOURTH YEAR

- Pth 650, 651, 652. **Clinical-Pathological Conference.** ½ hour each term. Presentation of autopsy cases by departments concerned, together with clinical pathologic correlation and general discussion. 1 hour a week; 36 hours.
- Pth 653. **Forensic Medicine.** 1 hour fall. Lectures and demonstrations of medicolegal and allied subjects. 1 hour a week; 12 hours.
- Pth 654. **Oncology.** 1 hour spring. Systematic study of cancer. Historical development of knowledge; experimental development of cancer; characteristics of human cancer; statistical information; present cancer problems; recent developments; organizational attack; methods of diagnosis and therapy; patient's and physician's responsibilities. Round-table instruction with illustration. Lectures, 1 hour a week; laboratory, 1 hour a week. 24 hours.
- Pth 655. **Surgical Pathology.** 1½ hours, one section each term. Applications of pathology to immediate study of operatively removed tissues, correlating the clinical aspects of individual cases with pathologic findings; occasional comprehensive demonstrations. 3 hours a week; 36 hours.

ELECTIVE COURSES

- Pth 501. **Research.** Any term, hours to be arranged. Open to specially qualified students.
- Pth 505. **Reading and Conference.** Any term, hours to be arranged.
- Pth 516. **Advanced Systemic Pathology.** Any term, hours to be arranged. Study of the detached pathology of one system.
- Pth 517. **Advanced Pathological Histology.** Any term, hours to be arranged. Systematic study of microscopic sections of autopsy tissues. Open to students who have had at least one term's work in pathology.
- Pth 518. **Special Pathology of Heart and Circulation.** Spring, hours to be arranged. Systematic and inclusive study of the pathologic states affecting the circulatory system, illustrated by sections and gross materials.
- Pth 614. **Attendance at Autopsies.** Fall or winter, hours to be arranged. Opportunity offered to students to elect autopsy attendance with instruction. Such students are required to assist and make detailed suggestions. Limited to 20 students.

Pharmacology

NORMAN A. DAVID, Chairman of Department

Professors

NORMAN A. DAVID

ELTON L. MCCAWLEY

Research Associate

NILKANTH M. PHATAK

Clinical Research Associates

H. LENOX H. DICK

WARREN S. WELBORN

Research Assistant

STERLING M. SORENSON

Student Assistants

ROYAL C. AUBREY
CHARLES B. CARTER

WESLEY R. JACOBS
ALBERT R. KEARNS

BENJAMIN B. SHEPHERD
ANDREW N. URBAN

REQUIRED COURSES

SECOND YEAR

Phc 511. Systematic Pharmacology and Prescription Writing. 5 hours winter.

Lecture material includes anesthetic agents and adjuncts, hypnotics, anti-histaminics, ataractics, analgesics, the xanthine drugs, etc. Each group of drugs is considered from the standpoint of chemistry, absorption, fate and excretion, preparations used therapeutically, dosage, untoward and toxic effects and contraindications. Basic prescription writing considered briefly, and examples of useful prescriptions for each group of drugs presented. Laboratory experiments are correlated with the lecture material; general and specific pharmacologic effects in small animals and the dog studied by the student or demonstrated. The hypnotics, ataractics, and opiate analgesics studied by human trial, using average therapeutic doses in selected volunteer students. Lectures, 4 hours a week; laboratory, 3 hours a week. 84 hours.

Phc 512. Systematic Pharmacology and Pharmacodynamics. 5 hours spring.

A continuation of Phc 511, with consideration of the autonomic drugs, anti-hypertensives, antispasmodics, diuretics, antibiotic and chemotherapeutic agents, cardiac drugs, endocrine drugs, vitamins, and anti-anemia preparations. Human-trial student experiments include studies on autonomic drugs and diuretics. Several mammalian experiments, using the dog and recording various vital functions, are done by demonstration using the Grass polygraph recorder or by the student groups using standard kymograph technique for the multiple observations. Lectures, 4 hours a week; laboratory, 3 hours a week. 84 hours. Prerequisite: Phc 511.

ELECTIVE COURSES

Phc 501. Research. Any term, hours to be arranged.

Students who are properly qualified and who can devote an adequate amount of time to the work are encouraged to pursue original investigations of pharmacological problems.

Phc 505. Reading and Conference. Any term, hours to be arranged.**Phc 507. Seminar.** 2 hours spring.

Open to third- and fourth-year students. 2 hours a week; 24 hours.

Phc 514. Toxicological Analysis. 2 hours spring.

(Second year.) Limited to 16 students. Lectures and quizzes, 1 hour a week; laboratory, 3 hours a week. 48 hours.

Physiology

JOHN M. BROOKHART, Chairman of Department

Professor

JOHN M. BROOKHART

Associate Professors

WILLIAM D. BLAKE

JOSEPH B. TRAINER

Assistant Professors

ALFRED J. RAMPONE

BENJAMIN B. ROSS

Instructor

EUGENE A. LENTINI

Clinical Research Associates

GEORGE M. AUSTIN
MONTE A. GREER

WILLIAM L. HARTMANN
DONALD M. PITCAIRN

MOSES E. STEINBERG

Student Assistants

ROLF R. ENGEL
LYNN S. HUSBAND

LEW B. MYERS
T. JAMES ROBNETT

JOHN D. SIGURDSON

REQUIRED COURSES

FIRST YEAR

Phy 411. Human Physiology. 8 hours spring.

Lectures, laboratory exercises, and conferences devoted to mammalian physiology, with special application to the human. Consideration given to the basic elements of effector control; basic information essential to the understanding of the functions of the respiratory, cardiovascular, and renal systems; discussion of gastrointestinal, liver, and endocrine functions. Lectures, 5 hours a week; laboratory, 9 hours a week. 168 hours.

SECOND YEAR

Phy 412. Human Physiology. 6 hours fall.

Continuation of Phy 412. Special attention given to the functional interrelationships between respiratory, cardiovascular, and renal systems. The general and special senses and the regional physiology of the central nervous systems discussed. Appropriate laboratory exercises and conferences related to lecture material. Lectures, 4 hours a week; laboratory, 6 hours a week. 120 hours.

ELECTIVE COURSES

Phy 501. Research. Any term, hours to be arranged.

Prerequisite: Phy 411, 412.

Phy 505. Reading and Conference. Any term, hours to be arranged.

Prerequisite: Phy 411, 412.

Phy 507. Seminar. Any term, hours to be arranged.

Prerequisite: Phy 411, 412.

Phy 514. History of Physiology. 1 hour winter.

One hour a week; 12 hours.

Clinical Departments**Medicine**

HOWARD P. LEWIS, Chairman of Department

Professors

DAVID W. E. BAIRD
HANCE F. HANEY
HERBERT E. GRISWOLD

CHARLES N. HOLMAN
DANIEL H. LABBY
HOWARD P. LEWIS

EDWIN E. OSGOOD
ROY L. SWANK

Clinical Professors

BLAIR HOLCOMB

MERL L. MARGASON
HOMER P. RUSH

WILLIAM H. SHELDON

Associate Professors

JARVIS GOULD
MONTE A. GREER
JOHN A. BENSON, JR.

ROBERT D. KOLER
DONALD M. PITCAIRN
DEMETRIOS A. RIGAS
(Experimental Medicine)

ARTHUR J. SEAMAN
JOSEPH B. TRAINER

Associate Clinical Professors

ISIDOR C. BRILL
ROBERT S. DOW
CARL G. HELLER

GEORGE B. LONG
MERLE W. MOORE
MATTHEW C. RIDDLE

LEONARD W. RITZMANN
JOHN E. TUHY
ZOLTON T. WIRTSCHAFTER

Assistant Professors

JAMES H. AUSTIN

BERNARD PIROFSKY
JAMES T. SPEROS

JANICE R. STEVENS

Assistant Clinical Professors

GEORGE A. BOYLSTON
WILLIAM S. CONKLIN
EARL D. DUBOIS

MORTON GOODMAN
JOHN J. KRYGIER
FRANK PERLMAN
EDWARD E. ROSENBAUM

PHILIP SELLING
FRANKLIN J. UNDERWOOD
CHARLES P. WILSON

Clinical Associates

HOWARD E. ALLEN
EDMUND H. BERGER
ARTHUR M. BERGMAN
CHARLES W. COFFEN
WILLIAM COHEN
AUBREY M. DAVIS
J. EDWARD FIELD
DONALD E. FORSTER
WILLIAM P. GALEN
MARTIN F. GILMORE
MARVIN C. GOLDMAN
THOMAS S. HEALY
JAY C. HOYT
WILLIAM W. HURST

HULDRICK KAMMER
MARION L. KRIPPAEHNE
WILBUR L. LARSON
AARNE J. LINDGREN
CHARLES E. LITTLEHALES
ERNEST T. LIVINGSTONE
LENIER ARTHUR LODMELL
ROBERT E. MASS
ROY R. MATTERI
GORDON L. MAURICE
GUY R. McCUTCHEAN
RAYMOND A. McMAHON
JOSEPH MILLER
JAMES F. MORRIS
JOHN J. MURPHY

JOSEPH F. PAQUET
BRENT M. PARKER
HEYES PETERSON
CHARLES E. REED
GEORGE M. ROBINS
LEONARD B. ROSE
MARVIN SCHWARTZ
WILLIAM C. SCOTT
JOHN L. SOELLING
JOHN W. STEPHENS
WILLIAM J. SWETT
DAVID K. TAYLOR
BEN VIDGOFF
JOHN D. WELCH

Instructors

DANIEL M. BACHMAN

ROBERT D. MICHEL

Clinical Instructors

KURT W. AUMANN
HENRY B. BALLANTYNE
SAMUEL T. BEALL
ARTHUR W. BERG
JOHN A. BLANCHARD
JAMES F. BLICKLE
PAUL R. BURGNER
C. CONRAD CARTER
JOHN D. CHASE
ESTILL N. DEITZ
SAMUEL DIACK
H. LENOX H. DICK
HAROLD P. DYGERT, JR.
STELLA FISHER
JOHN R. FLANERY
PETER J. GALANTE
JAMES B. HAMPTON
ROBERT L. HARE

WILLIAM D. HARRISON
JAMES E. HOLLAND
MARCUS M. HORENSTEIN
ROBERT B. JOHNSON
RICHARD H. KOSTERLITZ
LEWIS J. KRAKAUER
MERLE M. KURTZ
WILLIAM M. LAIDLAW
RAY S. LOBB
LAURENCE K. MACDANIELS
DONALD P. MCGREEVEY
NORBERT E. MEDVED
RUTH L. MERCER (Dietetics)
PHILLIP L. NUDELMAN
DONALD E. OLSON
OTTO C. PAGE
JOHN W. PARTRIDGE
NORRIS H. PERKINS

CARL A. PETTERSON
ROBERT G. PITTENGER
RALPH B. REAUME
OREN R. RICHARDS, JR.
JAMES A. RILEY
ROBERT E. RINEHART
WAYNE R. ROGERS
WILL L. SENDERS
NORRIS D. SMITH
MARGRET H. SPEROS
(Experimental Medicine)
JOHN H. STALNAKER
DUANE R. TAYLOR
WARREN S. WELBORN
KENNETH C. WILHELMI
CELOUS L. WILLIAMS, JR.
RICHARD D. WILSON
JAMES V. WOODWORTH

Research Assistant

JACK H. HUTCHINSON

Residents

MICHAEL D. BAIRD
WILLIAM E. DRIPS, JR.
MILES J. EDWARDS
ROBERT D. GOLDMAN

ROBERT H. GRAY
DONALD G. KASSEBAUM
MARION M. LARSEN
HARRY W. MASENHIMER

WILLIAM R. NEAL
GEORGE A. PORTER
AGNAR A. STRAUMFJORD
ROBERT D. WILSON

Allergy

MERLE W. MOORE, Head of Division

Associate Clinical Professor

MERLE W. MOORE

Assistant Clinical Professor

FRANK PERLMAN

Clinical Associate

ROY R. MATTERI

CHARLES E. REED

GEORGE M. ROBINS

Cardiology

HERBERT E. GRISWOLD, Head of Division

Professors

HERBERT E. GRISWOLD

HANCE F. HANEY

Clinical Professor

HOMER P. RUSH

Associate Clinical Professors

ISIDOR C. BRILL

LEONARD W. RITZMANN

Assistant Clinical Professors

PHILIP SELLING

FRANK UNDERWOOD

Clinical Associates

EDMUND H. BERGER
CHARLES W. COFFEN
AUBREY M. DAVIS

WILLIAM P. GALEN
WILLIAM W. HURST
GORDON L. MAURICE
BRENT M. PARKER

LEONARD B. ROSE
MARVIN SCHWARTZ
WILLIAM J. SWETT

Clinical Instructors

JAMES A. RILEY

WAYNE R. ROGERS

Chest Diseases

JOHN E. TUHY, Head of Division

Associate Professor

DONALD M. PITCAIRN

Associate Clinical Professor

JOHN E. TUHY

Assistant Professor

JAMES T. SPEROS

Assistant Clinical Professors

WILLIAM S. CONKLIN

MORTON GOODMAN

Clinical Associates

WILLIAM COHEN

GORDON L. MAURICE

JAMES F. MORRIS

Clinical Instructors

SAMUEL DIACK

PETER J. GALANTE

DONALD E. OLSON

LAWRENCE M. LOWELL

Diabetes and Metabolism

DANIEL H. LABBY, Head of Division

Professor

DANIEL H. LABBY

Clinical Professor

BLAIR HOLCOMB

Clinical Associates

HULDRICK KAMMER

ERNEST T. LIVINGSTONE

JOHN W. STEPHENS

Clinical Instructor

MARCUS M. HORENSTEIN

Endocrinology

MONTE A. GREER, Head of Division

Professor

DANIEL H. LABBY

Associate Professor

MONTE A. GREER

Associate Clinical Professor

CARL G. HELLER

Clinical Associates

HULDRICK KAMMER

ERNEST T. LIVINGSTONE

Clinical Instructors

KURT W. AUMANN

WILLIAM M. LAIDLAW

Gastroenterology

JOHN A. BENSON, JR., Head of Division

Associate Professor

JOHN A. BENSON, JR.

Associate Clinical Professor

GEORGE B. LONG

Assistant Clinical Professors

GEORGE A. BOYLSTON

JOHN J. KRYGIER

*Clinical Associates*J. EDWARD FIELD
THOMAS S. HEALY

CHARLES E. LITTLEHALES

LENIER ARTHUR LODMELL
JOHN L. SOELLING*Clinical Instructors*

LEWIS J. KRAKAUER

NORBERT E. MEDVED

JAMES A. RILEY

Hematology

EDWIN E. OSGOOD, Head of Division

Professors

HANCE F. HANEY

EDWIN E. OSGOOD

Associate Professors

ROBERT D. KOLER

ARTHUR J. SEAMAN

Assistant Professor

BERNARD PIROFSKY

Clinical Associate

ROBERT E. MASS

Clinical Instructor in Experimental Medicine

MARGRET H. SPEROS

Residents

SHELBY H. ATCHLEY, JR.

FRANCES P. SESSIONS

Neurology

ROY L. SWANK, Head of Division

Professor

ROY L. SWANK

Clinical Professor

MERL L. MARGASON

Associate Clinical Professor

ROBERT S. DOW

Assistant Professors

JAMES H. AUSTIN

JANICE R. STEVENS

Associate

JACK H. FELLMAN

Instructor

LOUIS LINO

Clinical Instructors

C. CONRAD CARTER

ROBERT B. JOHNSON
IRA A. MANVILLE

PHILIP J. REILLY

Research Associates

AAGOT GRIMSGAARD

VICTOR MILSTEIN

Fellows

HARUOMI NAKAMURA

NAGAO WAKABAYASHI

Dermatology

WALTER C. LOBITZ, JR., Head of Division

Professor

WALTER C. LOBITZ, JR.

Clinical Professor

LYLE B. KINGERY

Associate Clinical Professors

FRANK W. CROWE

JOYLE DAHL

SHELDON A. WALKER

THOMAS S. SAUNDERS

Assistant Professor

FARRINGTON DANIELS, JR.

Assistant Clinical Professors

JOHN CLIFFTON MASSAR

LEON F. RAY

Clinical Instructors

BRUCE R. CHENOWETH

DAVID C. FRISCH

CHARLES W. WATKINS

RALPH R. SULLIVAN

Research Assistants

MADHUKAR A. PHATAK

LESTER BERGERON

Residents

JALAL BAMSHAD

DAVID H. BRUCE

DENNIS D. DAVENPORT

Dental Medicine

HAROLD J. NOYES, Head of Division

Clinical Professor

HAROLD J. NOYES

*Clinical Associates*SAMUEL A. BRANDON
WILLIAM R. DAVIS
DONALD G. ELAND
FRANK G. EVERETT
HENRY C. FIXOTT, JR.RICHARD B. KELLER
FRANK O. MIHNOS
JAN J. MULLER
DONALD R. PORTERDONALD G. REESE
NORMAN H. RICKLES
CHARLES E. SMITH
THEODORE SUHER
RONALD K. TALL*Clinical Instructors*ROBERT A. BISSETT
BARNEY C. BYBEE
GEORGE J. COLLINGS
CLAUDE R. CRITTENDENJ. D. FINLAY
GEORGE E. GULICK
THOMAS D. HOLDER
FLOYD G. MATTSOON
DUANE R. PAULSONROBERT C. RITTEL
BHIM S. SAVARA
WALTER W. SCHAFER
ROBERT R. SIDDOWNAY**Internal Medicine**

REQUIRED COURSES

SECOND YEAR

Med 612, 613, 614. **Physical Diagnosis.** 3 hours each term.

Systematic lectures on the principles of history taking, physical examination and the pathophysiological basis for physical signs. Lectures, patient demonstrations, technique practice sessions, and ward rounds. Lectures, 2 hours a week; demonstrations, 2 hours a week. 144 hours.

THIRD YEAR

Med 615, 616, 617. **Lectures on Internal Medicine.** 3 hours fall; 2 hours each term, winter and spring.

Discussions of the broad principles and concepts concerned with the recognition and treatment of medical disorders. 84 hours.

Med 630. **Clinical Clerkship.** 12 hours, one section each term.

One-third of the class is assigned to the medical services of Multnomah, Medical School and Veteran's hospitals for one term in rotation, for the purpose of case study, ward and teaching rounds, and clinical conferences. Students also study selected psychiatric problems with the Department of Psychiatry (see Ps 630). 276 hours.

FOURTH YEAR

Med 650, 651, 652. **General Clinical Conference.** 1 hour each term.

Presentation and discussion of basic problems in clinical medicine by all departments of the Medical School. 2 hours a week; 72 hours.

- Med 653, 654, 655. **Conference on Medical Therapy.** ½ hour each term.
Conferences on therapy. 1 hour a week; 36 hours.
- Med 656. **Allergy.** 1 hour fall.
Lectures on the nature and fundamental causes of the allergic state, and on the manifestations and treatment of allergic diseases. 1 hour a week; 12 hours.
- Med 657. **Occupational Medicine.** 1 hour spring.
Lectures and demonstrations dealing with important industrial health hazards and diseases. 1 hour a week; 12 hours.
- Med 658. **Medical Economics.** 1 hour spring.
Series of lectures concerning the economic, sociological, legal and other problems connected with the practice of medicine. Lectures, 1 hour a week; 12 hours.
- Med 670. **Medical Outpatient Clinic.** 5 hours, one section each term.
Diagnosis and treatment of ambulant medical patients under supervision. 10 hours a week; 120 hours.
- Med 671. **Gastroenterology Outpatient Clinic.** ½ hour, one section each term.
Outpatient Clinic clinical conferences. 2 hours a week for six weeks; 12 hours.
- Med 672. **Diabetes and Metabolism Outpatient Clinic.** ½ hour, one section each term.
Outpatient Clinic clinical conferences. 2 hours a week for six weeks; 12 hours.
- Med 673. **Endocrinology Outpatient Clinic.** ½ hour, one section each term.
Outpatient Clinic clinical conferences. 2 hours a week for six weeks; 12 hours.
- Med 674. **Cardiovascular-Renal Outpatient Clinic.** ½ hour, one section each term.
Outpatient Clinic clinical conferences. 2 hours a week for six weeks; 12 hours.
- Med 675. **Chest Disease Outpatient Clinic.** ½ hour, one section each term.
Outpatient Clinic clinical conferences. 2 hours a week for six weeks; 12 hours.
- Med 676. **Allergy Outpatient Clinic.** ½ hour, one section each term.
Outpatient Clinic clinical conferences. 2 hours a week for six weeks; 12 hours.
- Med 677. **Hematology Outpatient Clinic.** ½ hour, one section each term.
Outpatient Clinic clinical conferences. 2 hours a week for six weeks; 12 hours.
- Med 678. **Tuberculosis Outpatient Clinic and Clerkship.** 1 hour, one section each term.
Case studies, clinical conferences, and X-ray conferences concerning patients in the Tuberculosis Hospital and Tuberculosis Outpatient Clinic. 2 hours a week; 24 hours.

ELECTIVE COURSES

- Med 501. **Research in Hematology.** Any term, hours to be arranged.
- Med 505. **Reading and Conference.** Any term, hours to be arranged.
For third- and fourth-year students. Arrangements may be made with the head of a division of internal medicine.
- Med 601. **Research.** Any term, hours to be arranged.
Students may elect to conduct research in the various divisions of medicine by arrangement with the chief of the division.
- Med 605. **Reading and Conference: Chest Diseases.** Any term, hours to be arranged.
- Med 605. **Reading and Conference: Cardiology.** Any term, hours to be arranged.
- Med 607. **Seminar in Medicine.** Any term, hours to be arranged.

- Med 690. **Medical Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements of the regular Outpatient Clinic course.
(Fourth year.) Elective credit for completion of clinical work in the department in addition to that required in the regular Outpatient Clinic course.
- Med 691. **Tuberculosis Control Outpatient Clinic for Children.** ½ hour, one section each term.
(Fourth year). 2 hours a week for 6 weeks; 12 hours.
- Med 692. **Ward Rounds in Endocrinology.** 1 hour, any term.
(Fourth year.) Examination and discussion of hospitalized patients with endocrine disease in Multnomah Hospital and Medical School Hospital. Limited to 4 students. 2 hours a week for 12 weeks; 24 hours.
- Med 693. **Rheumatology Outpatient Clinic.** 1 hour each term.
Outpatient Clinic. Clinical conferences and demonstrations. Limited to 9 students a term. 2 hours a week; 24 hours.
- Med 694. **Renal Rounds.** 1 hour, one section each term.
Intensive study of selected cases of renal disease in the Multnomah and Medical School Hospitals. Students work in pairs and study assigned patients. Conferences and discussions concerning the diagnosis, treatment, and basic mechanisms of the disorders of these and other similar patients conducted on rounds. Patient study 2 hours a week at any convenient time; rounds 2 hours a week; 48 hours.
- Med 695. **Fundamental Aspects of Disease.** 1 hour winter.
Lectures and discussions presenting concepts of disease that have developed from advances in basic and clinical research; principles upon which contemporary research in medical science is based; discussions of current investigation of major disease processes. 1 hour a week; 12 hours.
- Med 696. **Special Case Studies in Medicine.** Any term, hours to be arranged.
Students may elect to make detailed studies and reports of selected cases in the fields of cardiovascular, pulmonary, endocrinological and metabolic diseases with conference and supervision by the staff.
- Med 697. **Hematological Cell Identification.** ½ hour any term.
Students taught cell identification by actual study of slides under supervision. Maximum of 5 students for three weekly sessions. Given four times each term. 1 hour a week for 3 weeks; 3 hours.
- Med 698. **Case Conference.** 1 hour any term.
Analysis of selected case material, utilizing new and selected techniques in the study of pulmonary disease. 2 hours a week; 24 hours.

Neurology

REQUIRED COURSE

FOURTH YEAR

- Neu 670. **Neurology Outpatient Clinic.** ½ hour, one section each term.
Outpatient Clinic clinical conferences. 2 hours a week for six weeks; 12 hours.

ELECTIVE COURSES

- Neu 691. **Neurology Conference.** 1 hour any term.
(Fourth year.) Combined conference including neurology, neurosurgery, neuro-ophthalmology and neuroradiology. Limited to 10 students. 2 hours a week; 24 hours.
- Neu 692. **Experimental Neurology.** Hours to be arranged, any term.
Research techniques in neurology, neurochemistry, and electroencephalography. Open to third- and fourth-year students.
- Neu 693. **Clinical Clerkship in Advanced Neurology.** 1 hour any term.
Selected neurological cases studied and presented for discussion. Participation in combined neurological, neuroradiological, and neurosurgical conferences.

Dermatology

REQUIRED COURSES

THIRD YEAR

Derm 615, 616, 617. **Lectures and Demonstrations in Dermatology.** 1 hour each term.

Presentation of clinical cases, with detailed discussion of etiology, symptomatology, and differential diagnosis. 1 hour a week; 36 hours.

FOURTH YEAR

Derm 670. **Dermatology Outpatient Clinic.** 1½ hours, one section each term.

Utilization of outpatient material; clinical and microscopic diagnostic procedures; general therapy. 3 hours a week, 36 hours.

Dental Medicine

REQUIRED COURSE

FOURTH YEAR

DM 650. **Dental Facial Growth and Oral Pathology.** 1 hour winter.

Designed to give the medical student a survey of facial growth and oral disease, with discussion of specific diagnostic criteria and treatment of the more common lesions. Coordinated lectures and textbook reading on: Disturbances of oral and facial growth; oral and facial pain; dental caries, pulpitis and periapical pathology; differential diagnosis of radiolucencies in the jawbones; diagnosis of common oral conditions.

Psychiatry

GEORGE SASLOW, Chairman of Department

Professor

GEORGE SASLOW

Clinical Professor

HENRY H. DIXON

Associate Clinical Professor

HERMAN A. DICKEL

Assistant Professor

JOHN L. BUTLER

Assistant Clinical Professors

JOHN L. HASKINS

GERHARD B. HAUGEN

JAMES G. SHANKLIN

Clinical Instructors

SIEGFRIED R. BERTHELSDORF
IVOR M. CAMPBELL
IRVIN B. HILL
NORMAN M. JANZER
RUTH JENS

DONALD MCKINLEY
DUNCAN A. McLAUCHLAN
CARL V. MORRISON
C. RUSSELL PARKER
WAYNE M. PIDGEON

FRANK SISLER
ROGERS J. SMITH
HARRY E. SPRANG
WILLIAM W. THOMPSON
JOHN H. WATERMAN

Residents

DONALD D. DENNEY

VICTOR GREGORY

LENA KENIN

Child Psychiatry

CHARLES BRADLEY, Head of Division

Associate Professor

CHARLES BRADLEY

Assistant Professor of Clinical Psychology

MARVIN GREENBAUM

Instructor in Psychiatric Social Work

THELMA M. DANILSON

Medical Psychology

JOSEPH D. MATARAZZO, Head of Division

Professor

JOSEPH D. MATARAZZO

Assistant Professors

RUTH G. MATARAZZO

JEANNE S. PHILLIPS

RICHARD F. THOMPSON

Instructors

MARVIN GREENBAUM

LEO A. PIROJNIKOFF

HARRIE F. HESS

Clinical Instructors

ALLEN H. PARKER

ARTHUR N. WIENS

Research Assistant

HERBERT L. COLLIER

Fellows

DAVID W. CORTHELL

HAROLD E. TRYK

Psychiatry

REQUIRED COURSES

SECOND YEAR

Ps 511, 512. **Interviewing Techniques and Psychiatric Medicine.** 2 hours each term, fall and winter.

Lectures, clinical demonstrations, and student discussions designed to help in the acquisition of basic skills in interviewing, history taking, and the evaluation of patients as persons in a social environment. Differential diagnostic descriptions of the major psychiatric entities conclude the course. 3 hours a week; 72 hours.

THIRD YEAR

Ps 615. **Lectures in Clinical Psychiatry.** 1 hour spring.

Planned to acquaint students with practical aspects of diagnosis and treatment of common emotional, behavior, and learning problems of children. 1 hour a week; 12 hours.

Ps 630. **Clinical Clerkship.** 3 hours, one section each term.

Emphasis on the diagnosis and treatment of a wide variety of medical and psychiatric inpatient problems. 6 hours a week during the clerkship in medicine; 72 hours.

FOURTH YEAR

Ps 670. **Psychiatry Outpatient Clinic Clerkship.** 3 hours, one section each term.

Supervised experience in interviewing, evaluating, and initiating treatment of patients referred to the Psychiatry Clinic. Lectures and demonstrations dealing with the problems of psychiatric therapy. 6 hours a week; 72 hours.

ELECTIVE COURSES

Ps 601. **Research in Psychiatry.** Any term, hours to be arranged.

Ps 605. **Reading and Conference in Psychiatry.** Any term, hours to be arranged.

Ps 607. **Seminar in Psychiatry.** Any term, hours to be arranged.

Medical Psychology

REQUIRED COURSES

FIRST YEAR

Med Ps 411, 412. **Introduction to Medical Psychology.** 1½ hours each term, winter and spring.

An introductory course including lectures, student discussion, and clinical

and experimental demonstrations designed to familiarize the student with psychology as the scientific base of psychiatry. 2 hours a week; 48 hours.

ELECTIVE COURSES

- Med Ps 501. **Research in Psychology.** Any term, hours to be arranged.
Prerequisite: Med Ps 411, 412.
- Med Ps 505. **Reading and Conference.** Any term, hours to be arranged.
Prerequisite: Med Ps 411, 412.
- Med Ps 507. **Seminar.** Any term, hours to be arranged.
Prerequisite: Med Ps 411, 412.
- Med Ps 508. **Child Psychology Seminar.** 1 hour fall.
Prerequisite: Med Ps 411, 412.

Radiology

CHARLES T. DOTTER, Chairman of Department

Professor

CHARLES T. DOTTER

Clinical Professor

WILLIAM Y. BURTON

Associate Professor

JAMES B. HAWORTH

Associate Clinical Professors

LOUIS H. FRISCHE

SELMA HYMAN

Assistant Professor

VINCENT C. HINCK

Assistant Clinical Professors

J. ROBERT LEE

JOHN WAYNE LOOMIS

JAMES R. RAINES

Clinical Associates

ARTHUR F. HUNTER

SHERMAN E. REES

IVAN M. WOOLLEY

Clinical Instructors

C. TODD JESSELL

ARTHUR L. OVREGAARD

*HARRY NEWMAN

FRED C. SHIPPS

GREGORY B. NICHOLS

Instructors in Radiological Technique

HILDA E. DRUM

DORIS C. SMITH

Research Associate

JOSEPH W. GRIFFITH

Residents

JOHN L. HOWIESON

JOHN F. SIEGRIST

ROBERT S. MILLER

KURT R. STRAUBE

JACK R. RABENBERG

REQUIRED COURSES

THIRD YEAR

Rad 615, 616, 617. **Radiographic Diagnosis.** 1 hour each term.

Broad experience in the interpretation and reporting of x-rays through weekly film reading assignments followed by small-group case presentation exercises. Lectures on diagnostic principles, radiotherapy, radiation hazard and protection. 1 hour a week; 36 hours.

* On leave for military service.

ELECTIVE COURSE

Rad 690. **Radiographic Diagnosis.** Any term, hours to be arranged.

(Third or fourth year.) Practical experience derived from interpretation of cases from the current files. Correction of student's reports and final dictations by member of staff. Limited to 6 students.

Public Health and Preventive Medicine

ADOLPH WEINZIRL, Chairman of Department

Professor

ADOLPH WEINZIRL

Associate Professor

CARL E. HOPKINS

Assistant Clinical Professors

HAROLD M. ERICKSON

HARDY A. KEMP

Clinical Instructors

F. SYDNEY HANSEN

THOMAS L. MEADOR

RICHARD H. WILCOX

SAMUEL B. OSGOOD

REQUIRED COURSES

FIRST YEAR

PH 411. **Statistical Methods as Applied to Medicine.** 2 hours spring.

Introduction to the principles of scientific method and statistical reasoning useful in the practical problems of medical research, practice, and administration. Lectures, 1 hour a week; laboratory, 3 hours a week. 48 hours.

SECOND YEAR

PH 512. **Epidemiology.** 1 hour winter.

Clinical and epidemiologic aspects of communicable diseases, correlated with bacteriology. Lectures and recitations, 1 hour a week; 12 hours.

PH 513. **Epidemiology.** 3 hours spring.

Principles of epidemiology illustrated by clinical and epidemiologic aspects of common communicable and other diseases. Lectures and recitations, 2 hours a week; laboratory or clinic, 3 hours a week. 60 hours.

THIRD YEAR

PH 511. **Principles of Public Health.** 3 hours winter.

The general principles of public health activities; control of communicable diseases; organization of Federal, state, local, and other health agencies; elements of infant, school, and industrial hygiene; vital statistics. Lectures, recitations, and discussions. 3 hours a week; 36 hours.

ELECTIVE COURSES

PH 501. **Research.** Any term, hours to be arranged.

PH 505. **Reading and Conference.** Any term, hours to be arranged.

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

Surgery

J. ENGLEBERT DUNPHY, Chairman of Department

General Surgery

Professors

J. ENGLEBERT DUNPHY

CLARE G. PETERSON

Clinical Professors

ARTHUR C. JONES
(Physical Medicine)

WILLIAM K. LIVINGSTON

EUGENE W. ROCKEY
DEAN B. SEABROOK

	<i>Associate Clinical Professors</i>	
JOHN C. ADAMS	CHARLES E. GURNEY	OLIVER M. NISBET
ALLEN M. BOYDEN	CLIFFORD E. HARDWICK	MILLARD S. ROSENBLATT
LESTER R. CHAUNCEY	KARL H. MARTZLOFF	EDWARD W. ST. PIERRE
WILLIAM S. CONKLIN	MATTHEW MCKIRDIE	ROBERT A. WISE
	<i>Assistant Professors</i>	
WILLIAM W. KRIPPAEHN	STANLEY W. JACOB	ALBERT STARR
	<i>Assistant Clinical Professors</i>	
CLARENCE W. BRUNKOW	RUSSELL L. JOHNSRUD	JOSEPH W. NADAL
RALPH M. DODSON	DONALD R. LAIRD	JOHN P. TROMMALD
MARTIN A. HOWARD	LAWRENCE M. LOWELL	WERNER E. ZELLER
	<i>Clinical Associates</i>	
ADALBERT G. BETTMAN	ARCH DIACK	ROBERT W. MARCUM
DARRELL C. BOLLAM	THOMAS J. FOX	J. KARL POPPE
WINIFRED H. BUEERMAN	JOHN M. GUISS	JOSEPH M. ROBERTS
JOHN G. P. CLELAND		DAN N. STEFFANOFF
	<i>Clinical Instructors</i>	
JUSTIN A. AALPOEL	LEROY E. GROSHONG	ROBERT W. PATTON
HARVEY W. BAKER	RUSSELL G. GUSTAVSON	IRVING PUZISS
JOHN W. BASSETT	BERNARD P. HARPOLE	MELVIN M. REEVES
JACK E. BATTALIA	JOHN F. HAYES	WALTER C. REINER
HARRY G. BECKWITH	TOSHIO INAHARA	EDWARD E. RIPPY
FREDERIC H. BENTLEY	REINHOLD KANZLER	WILLIAM M. ROSENBAUM
STANLEY H. BERQUIST	J. DUNN KAVANAUGH	WILLARD D. ROWLAND
BRUCE H. BEST	G. PRENTISS LEE	AMBROSE B. SHIELDS
WEBSTER CLAY BROWN	VERNER V. LINDGREN	NATHAN SHLIM
JAMES E. BUCKLEY	RICHARD H. LINDQUIST	PHILIP A. SNEDECOR
NATHAN J. CAMPBELL	MILTON C. LOCKWOOD	CHARLES H. SPARKS
SANTE D. CANIPAROLI	R. KENT MARKEE	RUDOLPH B. STEVENS
KEITH M. CLISBY	DAVID C. MASON	WILLIAM R. SWEETMAN
ROBERT M. COFFEY	WILLARD L. MATHIESON	ROBERT H. TINKER
HUGH DONALD COLVER	DAVID B. MILLER, JR.	ALVIN O. UHLE
PETER DEWITT	RAYMOND E. MOORE	EDWARD E. WAYSON
ZANLEY C. EDELSON	(Physical Medicine)	JAMES W. WILEY
LESTER H. EISENDORF	WALTER R. MUNROE	NATHANIEL D. WILSON
WILLIAM M. GARNJOBST	H. MINOR NICHOLS	GREGG D. WOOD
	FRANK B. PACKARD	
	<i>Research Fellow</i>	
	ULRICH FREIHOFFER	
	<i>Teaching Fellow</i>	
	MALCOLM ROBINSON	
	<i>Residents</i>	
ROBERT LAMAR ANDERSON	THOMAS K. HUNT	DONALD F. MAHNKE
DONALD L. CLELAND	RODERICK L. JOHNSON	LESTER J. SCHWAEGLER, JR.
WILLIAM S. FLETCHER	ROBERT W. KENDALL	ROBERT W. TOON
GUY W. GORRELL, JR.	GARY H. LEAVERTON	PAUL M. WALSTAD
	Orthopedic Surgery	
	WILLIAM E. SNELL, Head of Division	
	<i>Clinical Professors</i>	
HARRY C. BLAIR	C. ELMER CARLSON	LEO S. LUCAS
	<i>Associate Professor</i>	
	WILLIAM E. SNELL	
	<i>Associate Clinical Professors</i>	
E. GEORGE CHUINARD	JOE B. DAVIS	FRANK B. SMITH
	LAWRENCE NOALL	
	<i>Assistant Clinical Professors</i>	
JOHN F. ABELE	RICHARD F. BERG	HAROLD E. DAVIS
RODERICK E. BEGG		GURNEY A. KIMBERLEY
	<i>Clinical Associates</i>	
GEORGE W. COTTRELL	ORVILLE N. JONES	JAMES A. MASON
JOSEPH H. GILL	LAURENCE R. LANGSTON	FAULKNER A. SHORT
RICHARD J. HOPKINS		DONALD B. SLOCUM

	<i>Clinical Instructors</i>	
THOMAS J. BOYDEN	LAURENCE J. COHEN	W. ROBERT McMURRAY
ROBERT E. BUCKMASTER	H. FREEMAN FITCH	ROLLAND C. MERRIFIELD
PAUL CAMPBELL	ROBERT J. FRY	SAMUEL OSBORN
WINFRED H. CLARKE	CALVIN E. GANTENBEIN	ROBERT M. RANKIN
HOWARD L. CHERRY	JOHN HARDER	EDWIN G. ROBINSON
	<i>Residents</i>	
RODNEY K. BEALS	CALVIN H. KIEST, JR.	RALPH E. PETERSON
THOMAS A. EDWARDS	NORMAN D. LOGAN	MICHAEL R. RASK
CHARLES A. FAGAN	DONN K. MCINTOSH	KEITH TAYLOR
	Urology	
	CLARENCE V. HODGES, Head of Division	
	<i>Professor</i>	
	CLARENCE V. HODGES	
	<i>Clinical Professor</i>	
	JOHN R. HAND	
	<i>Associate Clinical Professors</i>	
J. SCOTT GARDNER	THOMAS R. MONTGOMERY	
	<i>Clinical Associates</i>	
THOMAS A. DAVIS	JOHN F. LARSELL	
	<i>Instructor</i>	
	THEODORE H. LEHMAN	
	<i>Clinical Instructors</i>	
G. DONALD BEARDSLEY	EMERSON J. COLLIER	ARNOLD RUSTIN
CHARLES E. CATLOW, JR.	SABERT A. HOTT, JR.	GERALD W. SCHWIEBINGER
MARION A. CLARK	CURTIS A. MACFARLANE	JOHN G. VANDENBERG
	DAVID P. PAULL	
	<i>Residents</i>	
JOHN B. AUERBACH	ROBERT L. KALEZ	RALPH V. STAGNER
GERALD N. HECKER	ROBERT J. MOORE	WILLIAM B. WHITTIER
	JOHN M. OCKER	
	Anesthesiology	
	FREDERICK P. HAUGEN, Head of Division	
	<i>Professor</i>	
	FREDERICK P. HAUGEN	
	<i>Assistant Professor</i>	
	JOHN CLARENCE ROTH	
	<i>Associate</i>	
	REX J. UNDERWOOD	
	<i>Instructor</i>	
	JAMES V. HARBER	
	<i>Clinical Instructors</i>	
JOHN O. BRANFORD	DONALD P. DOBSON	J. COLEMAN EDWARDS
DONALD M. BRINTON		PAUL E. SCHAFF
	<i>Residents</i>	
ROBERT L. ALLISON	CHARLES S. BENNETT	ROBERT L. JAMES
ROBERT J. ALZNER	ROBERT M. GILBERT	RAYMOND R. MASS
ROBERT LYNN ANDERSON	KENNETH W. HILLYER	RICHARD R. SACKMANN
	Neurosurgery	
	GEORGE M. AUSTIN, Head of Division	
	<i>Professor</i>	
	GEORGE M. AUSTIN	

Clinical Professor

JOHN RAAF

Clinical Associates

EDWARD W. DAVIS

EDWARD K. KLOOS

KENNETH E. LIVINGSTON

Instructor

JOHN GORDON ROTH

Clinical Instructors

JOHN P. DENNIS

RAY V. GREWE

HAROLD D. PAXTON

BRUCE N. KVERNLAND

Residents

CARL J. BELBER

FREDERICK E. JACKSON

JACK E. SINCLAIR

MASASHICHI KAWANO

General Surgery**REQUIRED COURSES****SECOND YEAR**

Sur 610, 611. **Introduction to Surgery.** 1 hour each term, winter and spring.

Designed to give the student an appreciation of surgery, the history of its achievements and its limitations, the principles and underlying surgical techniques, and the application of the basic sciences to surgical practice. Lectures, 1 hour a week; 24 hours.

Sur 612. **Healing Processes.** 1 hour spring.

The reaction of soft parts and bone to injury, infection, and tumors; the principles of surgical treatment. Lectures, 1 hour a week; 12 hours.

THIRD YEAR

Sur 615, 616. **Minor Surgery.** 1 hour each term, fall and winter.

A systematic presentation by lectures and demonstrations of the surgical conditions which occur in ambulatory patients. 1 hour a week; 24 hours.

Sur 617, 618, 619. **Lectures on Surgery.** 1 hour each term.

A systematic lecture survey of surgical conditions, with emphasis on pathophysiologic process, the essentials of clinical diagnosis, and the physiologic, biochemical, and anatomical basis for therapy. 1 hour a week; 36 hours.

Sur 630. **Clinical Clerkship.** 8½ hours, one section each term.

Orientation lectures, case discussion, and instruction in the methods of physical examination and history taking. Work at the bedside in the examination of the surgical patient. Emphasis throughout is placed on individual instruction or instruction in small groups. One-third of the class is assigned, by groups, to the surgical services of Multnomah Hospital, the Medical School Hospital, and the Veterans Hospital for one term. 210 hours.

Sur 631. **Surgery Clerkship-Clinic.** 1½ hours, one section each term.

Clinics and demonstrations to familiarize the student with the techniques of examination and the diagnostic procedures used in general surgery. A correlative clinic given in connection with inpatient clerkship work. 3 hours a week; 36 hours.

FOURTH YEAR

Sur 650. **Surgical Conference.** 1 hour, winter term.

An integrated sequence of lecture-demonstrations on trauma, including the following subjects: evaluation of the multiple-injury case, priorities in treatment, resuscitation and anesthesia, the lesions of war in wound treatment, craniocerebral injury, maxillo-facial trauma, thoraco-abdominal injuries, vascular trauma, urologic injuries, the injured hand, the treatment of burns. 1 hour a week; 12 hours.

Sur 651, 652. **General Surgical Clinic.** 1 hour each term, fall and winter.

A correlation clinic in general surgery for the fourth-year medical student. 2 hours a week; 48 hours.

Sur 670. **Surgery Outpatient Clinic.** 2½ hours, one section each term.

Active student participation in all phases of the clinical management of ambulant patients in the surgery outpatient clinic. 5 hours a week; 60 hours.

Sur 671. **Surgical Conferences.** ½ hour, one section each term.

A weekly meeting of the attending surgical staff, surgical house officers, and students. Case presentations and group discussions of selected problems in surgery with problem case conferences. 2 hours a week for six weeks; 12 hours.

Sur 672. **Cancer.** 1 hour, one section each term.

An introduction to clinical problems in cancer by student attendance at tumor clinic, tumor conference, and student participation in the management of specific patients with cancer. 4 hours a week for six weeks; 24 hours.

Sur 673. **Clinical Pathology.** 1½ hours, one section each term.

A clinical study of the significance, interpretation, and technique of clinical laboratory procedures, with emphasis on surgical applications. Correlative lectures, clinical laboratory demonstrations, workshop sessions, and problem case conferences analyzing selected patient problems. 6 hours a week for six weeks; 36 hours.

Sur 674. **Physical Medicine.** 1 hour, one section each term.

Practical discussions and demonstrations of the applications and theory of physical medicine. 2 hours a week; 24 hours.

ELECTIVE COURSES

Sur 601. **Research.** Any term, hours to be arranged.

For third- or fourth-year students.

Sur 640. **Proctology Lectures.** ½ hour.

(Third year.) A systematic lecture survey of ano-rectal disease. Practical demonstrations of the techniques of diagnostic instrumentation. 1 hour a week; 12 hours.

Sur 690. **Surgery Outpatient Clinic.** Any term, hours to be arranged, in accordance with the requirements in the regular Surgery Outpatient Clinic course (Sur 670).

Orthopedic Surgery**REQUIRED COURSES****THIRD YEAR**

Orth Sur 615. **Orthopedics.** 2 hours fall.

Lectures and patient demonstrations of orthopedic conditions of adults and children. 2 hours a week; 24 hours.

Orth Sur 616, 617. **Surgery of the Extremities.** 1 hour each term, winter and spring.

Lectures and patient demonstrations concerned chiefly with the diagnosis and treatment of fractures and other injuries. 1 hour a week; 24 hours.

Orth Sur 630. **Orthopedic Clerkship-Clinic.** ½ hour, one section each term.

Clinics and demonstrations to familiarize the student with the techniques of examination and the diagnostic procedures used in orthopedics. A correlative clinic given in connection with inpatient clerkship work. 1 hour a week; 12 hours.

Orth Sur 631. **Fractures and Joint Injuries.** 1 hour, one section each term.

Patient demonstrations, ward walks, and lectures on fractures, joint injuries, and other traumatic affections. 2 hours a week; 24 hours.

FOURTH YEAR

Orth Sur 670. **Orthopedic Outpatient Clinic.** 1½ hours, one section each term. Active student participation in all phases of the clinical management of ambulant patients in the orthopedic outpatient clinic. 3 hours a week; 36 hours.

ELECTIVE COURSES

Orth Sur 601. **Research.** Any term, hours to be arranged. For third- or fourth-year students.

Orth Sur 690. **Orthopedic Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements in the regular Orthopedic Outpatient Clinic course (Orth Sur 670).

Orth Sur 691. **Orthopedic Ward Walk.** 1 hour, one section each term. General ward rounds in the Shriner's Hospital for Crippled Children, with discussion of the cases and methods of orthopedic treatment in deformities of children. 2 hours a week; 24 hours.

Urology

REQUIRED COURSES

THIRD YEAR

Ur 615. **Diseases Affecting the Genito-Urinary Tract.** 1 hour spring. A systematic presentation by means of lectures and patient demonstration of the diagnosis and treatment of urologic conditions. 1 hour a week; 12 hours.

Ur 630. **Urology Clerkship-Clinic.** ½ hour, one section each term. Clinics and demonstrations to familiarize the student with the techniques of examination and diagnostic procedures used in urology. A correlative clinic given in connection with inpatient clerkship work. 1 hour a week; 12 hours.

Ur 631. **Urology Clerkship.** 1 hour, one section each term. A ward walk and clerkship. Supervised workup of urology inpatients. 2 hours a week; 24 hours.

FOURTH YEAR

Ur 650. **Diseases Affecting the Genito-Urinary Tract.** 1 hour fall. A continuation course, extending the study of urologic problems, diagnostic techniques, and the principles of urologic treatment. Lectures and clinic presentations. 1 hour a week; 12 hours.

Ur 670. **Urology Outpatient Clinic.** 1½ hours, one section each term. Active student participation in all phases of the clinical management of ambulant patients in the urology outpatient clinic. 3 hours a week; 36 hours.

ELECTIVE COURSES

Ur 601. **Research.** Any term, hours to be arranged. For third- or fourth-year students.

Ur 690. **Urology Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements in the regular Urology Outpatient Clinic course.

Anesthesiology

REQUIRED COURSES

THIRD YEAR

Anes 615, 616. **Lectures on Anesthesia.** 1 hour each term, winter and spring. An integrated series of lectures on anesthesiology, with demonstrations and description of equipment employed; a discussion of the history of anesthesia; applied physiology; the clinical signs and methods of anesthesia; a discussion of the various anesthetic agents. 1 hour a week; 24 hours.

Anes 630. **Regional Anesthesia.** 1 hour, one section each term. Lectures concerned with the diagnostic, therapeutic, and anesthetic applications of nerve blocks. Clinical demonstrations of nerve-block procedures, and demonstrations using anatomic dissections. 1½ hours a week; 18 hours.

FOURTH YEAR

Anes 670. **Anesthesia Clerkship.** ½ hour, one section each term. A continuation course. Observation of anesthetic procedures in the operating room, and directed supervision in assisting with the administration of the various types of anesthetic agents. 4 hours a day for three days; 12 hours.

ELECTIVE COURSE

Anes 601. **Research.** Any term, hours to be arranged. For third- or fourth-year students.

Neurosurgery

REQUIRED COURSE

THIRD YEAR

Neu Sur 630. **Neurosurgical Seminar.** 1 hour, one section each term. Designed to acquaint the student with the major problems of neurological surgery. Emphasis is placed on the manner of diagnosis and the types of treatment available to patients with peripheral nerve, spinal, and intracranial lesions. Lectures, case presentations, and group discussions. 2 hours a week; 24 hours.

ELECTIVE COURSES

Neu Sur 601. **Research.** Any term, hours to be arranged. Clinical and basic research projects in neurosurgery. It is expected that students wishing to undertake such projects will be primarily interested in careers in neurology and neurological surgery.

Neu Sur 640. **Differential and Regional Neurosurgical Diagnosis and Therapeutics.** ½ hour, winter or spring. Clinical concepts coordinated with basic research ideas; patient presentations from the clinical side used to illustrate brain and spinal-cord pathology and physiology. Lectures and demonstrations. 1 hour a week; 12 hours.

Ophthalmology

KENNETH C. SWAN, Chairman of Department

Professor

KENNETH C. SWAN

Clinical Professors

AUGUSTUS B. DYKMAN

E. MERLE TAYLOR

Associate Professor

LEONARD CHRISTENSEN

Assistant Clinical Professors

ROBERT V. HILL

JOHN P. KEIZER
THOMAS E. TALBOT

ROBERT W. ZELLER

Associates

ROBERT P. BURNS

SAMUEL T. JONES

Clinical Associates

ROBERT E. FISCHER
ALFRED J. KREFT

GEORGE P. LYMAN
EDWARD N. MCLEAN

JOSEPH I. MORELAND
HENRY E. SCHLEGEL

Clinical Instructors

PAUL F. BAILEY

ROBERT H. BEDROSSIAN
RICHARD E. MARKLEY

PETER P. ROWELL

Research Associate

ELLEN L. TALMAN

Alfred P. Sloan Fellow

K. NOLAN TANNER

*Residents*W. LEIGH CAMPBELL
ROY J. ELLSWORTHWALTER R. ENDERS
DON W. LIMPAUL ROBINSON
THEODORE E. WILLS

REQUIRED COURSES

THIRD YEAR

Eye 615. **Eye.** 1 hour fall.

Diseases of the eye and adnexa. Lectures, demonstrations, and quizzes. 1 hour a week; 12 hours.

FOURTH YEAR

Eye 650. **Eye.** 1 hour winter.

Ophthalmology in relation to systemic disease. Lectures, demonstrations, and quizzes. 1 hour a week; 12 hours.

Eye 670. **Eye Outpatient Clinic.** 1 hour, one section each term.

Student participation in the patient-care program in the Adult and Children's Eye Clinic. Demonstration and use of instruments and techniques for ophthalmic diagnosis and treatment. About one-third of the course is devoted to study of ophthalmic manifestations of systemic disease in hospitalized patients. 2 hours a week; 24 hours.

ELECTIVE COURSES

Eye 601. **Research.** Any term, hours to be arranged.Eye 690. **Eye Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements of the regular Eye Outpatient Clinic course (Eye 670).

Otology, Rhinology, and Laryngology

DAVID D. DEWESE, Acting Chairman of Department

*Clinical Professors*PAUL BAILEY
GEORGE E. CHAMBERLAIN

DAVID D. DEWESE

ROBERT M. HANSEN
LESTER T. JONES*Assistant Clinical Professors*WILBUR M. BOLTON
LEWIS W. JORDAN

CLIFFORD KUHN

DONALD C. METTLER
BRUCE L. TITUS*Clinical Associates*

PAUL B. MYERS

GEORGE C. SAUNDERS
T. GLENN TEN EYCK

RALPH N. WESTFALL

Clinical Instructors

H. VICTOR ADIX

DONALD H. HOLDEN
MAX SIMONS

KENNETH D. SMYTH

Residents

PATRICK J. DOYLE

BYRON L. FORTSCH
ALEXANDER E. PETROFF

LYNN B. ROBINSON

REQUIRED COURSES

THIRD YEAR

ENT 615. **Ear, Nose, and Throat.** 1 hour fall.

An integrated series of lectures, demonstrations, motion pictures, and informal discussions reviewing the basic anatomy, physiology, and symptomatology of the ear, nose, and throat diseases, with emphasis on diagnosis. 1 hour a week; 12 hours.

ENT 616. **Ear, Nose, and Throat.** 1 hour spring.

Continuation of ENT 615 on principles of medical and surgical treatment of ear, nose, and throat diseases, with emphasis on the more common situations encountered in practice. Advanced treatment which falls into specialty use also covered and discussed. 1 hour a week; 12 hours.

FOURTH YEAR

ENT 670. **Ear, Nose, and Throat Outpatient Clinic.** 1½ hours, one section each term.

Practical instruction, examination of patients, use of diagnostic instruments, and treatment programs under supervision. 3 hours a week; 36 hours.

ELECTIVE COURSE

ENT 690. **Ear, Nose, and Throat Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements in the regular Ear, Nose, and Throat Outpatient Clinic course (ENT 670).

Obstetrics and Gynecology

RALPH C. BENSON, Chairman of Department

Professor

RALPH C. BENSON

Clinical Professor

HOWARD C. STEARNS

Associate Professors

RAPHAEL B. DURFEE

HOWARD J. TATUM

Associate Clinical Professors

CLIFFORD FEARL

GUNNAR E. C. NELSON
GOODRICH C. SCHAUFFLER

WILLIAM M. WILSON

Assistant Professors

OTTO R. EMIG

FRANCK SHUBECK

Assistant Clinical Professors

RODERICK C. BLATCHFORD

DUNCAN R. NEILSON

RONALD P. NEILSON

*Clinical Instructors*THEODORE M. BISCHOFF
MELVIN W. BREESE
CHARLES L. CHAVIGNY
C. LOUISE CLANCY
RICHARD W. FRANKLIN
W. RONALD FRAZIER
REMY W. FULSHER
ROBERT B. GREENE
GEORGE S. HARA
WILLIAM L. HARTMANNPHILIP H. HENDERSON, JR.
WILLIAM W. HICKS, JR.
ROBERT C. JACKSON
DAVID W. JAMES
GERALD E. KINZEL
GEORGE H. LAGE
F. KEITH MARKEE
ALFRED N. MARSHALL
J. OPPIE MCCALL, JR.JOSEPH C. MITCHELL
DAVID W. MOORE
MAX H. PARROTT
JESSE L. RAY
QUINTEN SCHERMAN
GORDON N. SMITH
PAUL R. SPIERLING
WILLIAM O. THOMAS
THOMAS A. TREANOR
JAMES M. WHITELY*Residents*JAMES A. AFFLECK
CLARENCE BENSON

JULES V. NAPIER

RAYMOND D. RICE
ERNST A. WATERMAN

Obstetrics

REQUIRED COURSES

THIRD YEAR

Obs 615. **Introductory Obstetrics.** 1 hour fall.

Lectures, recitations, and demonstrations in obstetrics. The anatomy and physiology of the female pelvis and genitals; diagnosis of pregnancy; the management of normal pregnancy; physiology of and clinical course in normal labor and puerperium. 1 hour a week; 12 hours.

- Obs 616. **Lecture and Demonstration Course in Obstetrics.** 1 hour winter.
Mechanism of normal and abnormal presentation; manikin demonstration; care of the newborn child. Obstetrical technique; forceps version, pubiotomy, cesarian section, and embryotomy. 1 hour a week; 12 hours.
- Obs 630. **Clinical Clerkship.** 3 hours, one section each term.
Patient study, ward rounds, and conferences in obstetrics. Multnomah and Medical School Hospitals. 11 hours a week for six weeks; 66 hours.
- Obs 631. **Manikin.** ½ hour, one section each term.
Lectures and demonstrations with the manikin on the mechanism of normal and abnormal labor and delivery, including pelvic mensuration, pelvic architecture, presentation and position of the fetus, complications of labor and delivery. 1 hour a week; 12 hours.
- Obs 632. **Inpatient Service and Attendance at Deliveries.** ½ hour any term.
Each student required to be in attendance at and observe twelve deliveries in Multnomah Hospital. Prerequisite: Obs 615. 12 hours.

FOURTH YEAR

- Obs 670. **Obstetrics Outpatient Clinic.** 3½ hours, one section each term.
Examination of pregnant women, pelvimetry, and instructions in prenatal and post-partum care. 13 hours a week for 6 weeks; 78 hours.
- Obs 671. **Special Problems in Obstetrics Outpatient Clinic.** 1 hour, one section each term.
Problems involving likely difficult labor due to a large infant or small pelvis (dystocia), metabolic, cardiac, and other complicated obstetrical conditions. Cases are evaluated and a definitive course outlined. 3 hours a week for 6 weeks; 18 hours.
- Obs 672. **Postnatal Outpatient Clinic.** 1 hour, one section each term.
Examination and demonstration of normal and abnormal details of pelvic anatomy following parturition. Outline of treatment for the postpartum patient. Methods of child spacing detailed. 3 hours a week for 6 weeks; 18 hours.
- Obs 673. **Outpatient Service and Attendance at Deliveries.** 1½ hours any term.
Delivery of patients in the hospital and attendance upon mother and child after delivery. Each student required to participate in at least six deliveries during an assigned period. Prerequisite: Obs 632. 36 hours.

ELECTIVE COURSES

- Obs 601. **Research.** Any term, hours to be arranged.
- Obs 640. **Fetal Neonatal Death Conference.** ½ hour, any term.
Review of the pathology of pre-delivery and postnatal period. Discussion of the likely causes of death from the clinical, gross, and microscopic review of each case. 1 hour a week; 12 hours.
- Obs 690. **Obstetrics Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements in the regular Obstetrics Outpatient Clinic course (Obs 670).

Gynecology

REQUIRED COURSES

THIRD YEAR

- Gyn 615, 616. **Gynecology.** 1 hour each term, fall and winter.
Gynecologic pathology and oncology demonstrated; details of surgery for pelvic hernia; inflammatory problems and pelvic tumors. 1 hour a week; 24 hours.
- Gyn 630. **Clinical Clerkship.** 2½ hours, one section each term.
Patient study, ward rounds and conferences in gynecology. Multnomah and Medical School Hospitals. 10 hours a week for 6 weeks; 60 hours.

FOURTH YEAR

- Gyn 670. **Gynecology Outpatient Clinic.** 2 hours, one section each term.
Examination of patients, demonstration of problems related to office gynecology; postoperative followup and cancer detection emphasized; treatment of gynecologic problems outlined. 8 hours a week for 6 weeks; 48 hours.
- Gyn 671. **Gynecology Tumor Outpatient Clinic and Pathology Conference.** 1 hour.
Evaluation of gynecological cancer patients, pre- or post-therapy. A follow-up of at least five years post-therapy is instituted. Complications of surgical and radiologic management are evaluated and corrective measures prescribed. 4 hours a week for 6 weeks; 24 hours.

ELECTIVE COURSES

- Gyn 601. **Research.** Any term, hours to be arranged.
- Gyn 690. **Gynecology Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements in the regular Gynecology Outpatient Clinic course (Gyn 670).

Pediatrics

ALLAN J. HILL, JR., Chairman of Department

Professors

ALLAN J. HILL, JR.

DONALD E. PICKERING

Clinical Professor

JOSEPH B. BILDERBACK

Associate Professors

CHARLES BRADLEY

GEORGE W. DANA
RUDOLF C. H. ENGEL

RICHARD L. SLEETER

Associate Clinical Professors

S. GORHAM BABSON

MORRIS L. BRIDGEMAN
SCOTT GOODNIGHT

ALVIN D. WERT

Assistant Professors

WILLIAM M. CLARK, JR.

JAMES E. ODELL

Assistant Clinical Professors

CARL G. ASHLEY
JOHN H. BENWARD
QUINTEN W. COCHRAN
WALTER A. GOSSJOHN A. LARRABEE
HEROLD S. LILLYWHITE
(Speech Pathology)
JOHN ARTHUR MAYEDGAR M. RECTOR
PAUL E. SHICK, JR.
LONDON H. SMITH
JAMES P. WHITTEMORE

Instructors

DELBERT A. FISHER
KATHERINE S. FRENCH
(Anthropology)ROBERT J. MEECHAN
VICTOR D. MENASHEWILLIAM W. ORNDUFF
ROBERT C. SCHAAN
ROBERT L. TIPS

Clinical Instructors

DANIEL K. BILLMEYER
JOHN W. BUSSMAN
JOHN R. HANSEN
JOSEPH T. HART
EDWARD L. HENDRICKSPETER H. HURST
DONALD F. KELLY
DAVID W. MACFARLANE
GEORGE A. NASH
GEORGE J. SCHUNKWILLIAM M. SNOOK
JOHN L. STEVENSON
CLEMENS W. VAN ROOY
CHARLES VARGA
GEORGE F. WALLIKER

Residents

JOHN R. BERRY
JAMES E. ELLIOTTFREDERICK J. KITTLER
LOUIS R. MCKAELDAVID L. SESSIONS
MAX J. STEPHENSON

REQUIRED COURSES

THIRD YEAR

- Ped 615, 616, 617. **Diseases of Infancy and Childhood.** 1 hour each term.
A survey of pediatrics from a correlative standpoint. Lectures and demonstrations. 1 hour a week; 36 hours.

Ped 630. **Clerkship.** 7½ hours, one section each term.

Review of pediatric problems in an inpatient setting by patient responsibility, individual and group discussion. 29 hours a week for 6 weeks; 174 hours.

FOURTH YEAR

Ped 670. **Pediatric Outpatient Clinic.** 4 hours, one section each term.

General pediatric problems in an outpatient setting with patient responsibility, individual and group discussions. 15 hours a week for 6 weeks; 90 hours.

Ped 671. **Pediatric Outpatient Specialty Clinics.** 5 hours, one section each term.

Study of special pediatric problems in cardiovascular, neurologic, endocrine, metabolic, and hematologic diseases. 20 hours a week for 6 weeks; 120 hours.

ELECTIVE COURSES

Ped 601. **Research.** Any term, hours to be arranged.

Ped 640. **Fetal Neonatal Death Conference.** ½ hour, any term.

Review of the pathology of predelivery and postnatal period. Discussion of the likely causes of death from the clinical, gross, and microscopic review of each case. 1 hour a week; 12 hours.

Ped 641. **Congenital Heart Disease.** 1 hour, one section each term.

Students have an opportunity to examine patients with congenital heart disease in the Crippled Children's Division under the guidance of consultants from the Departments of Medicine, Radiology, Surgery, and Pediatrics. 2 hours a week; 24 hours.

Ped 690. **Pediatric Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements in the regular Pediatrics Outpatient Clinic course (Ped 670).

Special Programs

Graduate Studies

THE UNIVERSITY OF OREGON MEDICAL SCHOOL offers graduate programs in the basic medical sciences, leading to the Master of Science and Doctor of Philosophy degrees; the degrees are conferred by the University of Oregon upon recommendation of the faculty of the Medical School. A combined program leading to both medical and basic science graduate degrees is also offered.

Work leading to the Master of Science or Doctor of Philosophy degree is offered in anatomy, bacteriology, biochemistry, pathology, pharmacology, and physiology. Work toward the master's degree is offered in medical psychology.

Recommended Preparation for Graduate Work

For admission to graduate studies an applicant must have a Bachelor of Arts or Bachelor of Science degree from an accredited college. Reading ability in a foreign language is highly desirable for applicants expecting to become candidates for the Master of Science degree. Reading ability in two modern foreign languages is required before admission to candidacy for the Doctor of Philosophy degree. It is highly desirable that all applicants have completed undergraduate courses in elementary statistics; training in statistical methods is required for all candidates for advanced degrees.

The subjects and credits required for admission to the Medical School are recommended for admission to graduate studies. In addition, the several departments offering graduate work generally require certain of the following:

Anatomy: comparative anatomy, genetics, general physiology, microtechniques.

Bacteriology: general microbiology.

Biochemistry: physical chemistry and mathematics through differential and integral calculus (essential for students who intend to work for the Ph.D. degree, and desirable for master's candidates). Additional courses in analytical and organic chemistry recommended for all graduate students.

Pathology: admission to the Medical School.

Pharmacology; physical chemistry, advanced organic chemistry.

Physiology: advanced courses in biology, chemistry, physics, mathematics.

Psychology: general psychology, admission to Medical School.

Further information concerning qualifications for graduate study may be obtained from the Registrar's Office or from the head of the department in which the student plans to work.

Admission to Graduate Status

Admission to graduate-student status is contingent upon (1) application by the student on forms available from the Registrar of the Medical School, (2) recommendation by the head of the department in which the student desires to work, and (3) approval by the Graduate Council and the dean of the Medical School. Only candidates with superior college records or presenting other clear evidence that they have a capacity for productive scholarship will be considered.

The qualifications of students expecting to continue graduate studies after receiving a master's degree will be reviewed by the Graduate Council.

Acceptance by a student of admission to graduate status is regarded as a declaration of intent to complete a program of graduate study prior to application for enrollment in other Medical School training programs.

Standards of Performance

Graduate students are graded on the same basis as medical students in the courses they take in the Medical School. Graduate credit is granted only for course work in which grades of I, II, III, or IV are earned. A minimum yearly weighted grade average of 3.00 must be maintained. (See page 59, Promotion.)

Admission to Candidacy for a Graduate Degree

Admission to graduate status is not equivalent to admission to candidacy for a graduate degree; the latter is granted only after the student has demonstrated knowledge of the fundamentals of his field and ability to perform work of graduate character. A written qualifying examination is required of students desiring to become candidates for the degree of Doctor of Philosophy, and may also be required, at the discretion of the major department and Graduate Council, of students desiring to become candidates for the Master of Science degree. The qualifying examination is given by the major department in which the student is registered and covers the broad field of his background preparation. It must be taken not later than the spring or summer term prior to the academic year in which the degree is to be received. The student becomes eligible to take the qualifying examination for candidacy for the degree of Doctor of Philosophy after he has passed reading examinations in two modern foreign languages.

Admission to candidacy for an advanced degree is determined by the Graduate Council after review of the examination, the scholastic record of graduate work, and the recommendation of the student's major department head.

Requirement for Graduate Degrees

(1) *Residence.* Academic residence is established by registration for graduate credit in the University of Oregon Medical School. For the Master of Science degree a minimum of three academic terms in residence as a graduate student is required. For the Doctor of Philosophy degree a minimum of six academic terms in residence as a graduate student is required. Interruptions in residence are undesirable but may be permitted by joint agreement of the major department and Graduate Council.

(2) *Duration of Candidacy.* For the master's degree a student must be a candidate for the degree for at least one academic term; for the doctor's degree a student must be a candidate for three academic terms.

(3) *Hours of Graduate Work Required.* (a) For the degree of Master of Science 30 term hours of graduate credit in the major department and 15 hours of credit in a minor department are required.

(b) For the degree of Doctor of Philosophy a total of 135 term hours of graduate credit is required. Of this total, a minimum of 100 hours must be credit in the major department; the student must also complete work in a minor field or fields: a minimum of 20 hours in a single minor or a minimum total of 30 hours in two minors.

(c) Two term hours of credit in an advanced statistics course, dealing with the design of experiments and the analysis and interpretation of experimental data, are required.

(d) Special permission of the Graduate Council is required for a work load in excess of 18 hours per term.

No courses in the third and fourth years of the medical curriculum may be taken for graduate credit without special permission of the Graduate Council.

(4) *Thesis Requirements.* The candidate for an advanced degree must present a written description of experimental investigations carried out during the course of graduate study. Ordinarily, the thesis for the degree of Master of Science is a report of experimental work conducted by the student under the close supervision of his major professor. The thesis for the degree of Doctor of Philosophy must show evidence of originality on the part of the student in the planning and execution of independent experimental work, and the results must represent a definite contribution to knowledge. General instructions on the preparation of the thesis may be obtained from the chairman of the Graduate Council. The thesis must be accepted by the head of the department and the Graduate Council. The thesis must be submitted to the Graduate Council on or before the first of May.

(5) *Oral Thesis Examinations.* An oral examination covering the subject of the thesis is required of all candidates for advanced degrees. The examining committee is appointed by the chairman of the Graduate Council with the advice of the head of the major department. The examination must take place at least ten days prior to the date of Commencement.

Combined Program Leading to the M.D. and a Graduate Degree

The Medical School offers a special five-year program of study for students wishing to work toward the Master of Science degree while completing the regular curriculum in medicine. The combined program of graduate-medical study is open only to students who plan to spend five years in residence at the Medical School. Required graduate major credit is earned in a major department of graduate study. Minor credits are granted for basic science courses in the medical curriculum. Medical students wishing to enter this program must be accepted as graduate students by the Graduate Council and the dean.

Candidates for the Doctor of Philosophy degree who have already earned the Doctor of Medicine degree may apply a maximum of 45 term hours of credit (one academic year) in the basic medical sciences toward the advanced degree. Duplicate enrollment as a medical student working toward the degree of Doctor of Medicine and as a graduate student working toward the degree of Doctor of Philosophy is not allowed.

Registration and Payment of Fees

Registration for graduate study is renewed quarterly and study programs arranged at the beginning of each term. Dates for registration and payment of fees conform to the dates indicated in the calendar of the Medical School. (See page 8.) The student is responsible for the arrangement of his course schedule by agreement with the head of his major department and the instructors teaching the desired courses.

Fees for graduate study are payable at the beginning of each term according to the schedule listed on page 56.

Internship and Residency Programs

THE INTERNSHIP PROGRAM of the University of Oregon Medical School Hospitals and Clinics is approved by the Council on Medical Education and Hospitals of the American Medical Association. The hospitals participate in the National Internship Matching Program. The interns who receive training in the Medical School Hospitals and Clinics (currently 30) have a twelve-month

rotating internship in both the Medical School Hospital and Multnomah Hospital. All patients in the hospitals and clinics are house cases and are under the personal care of an intern, who is responsible to the resident on the service. Internship appointments are effective July 1.

One of the important functions of a medical school is the training of physicians in the medical specialties. The demand for such training has greatly increased in recent years. In response, the Medical School residency program has been expanded to provide approximately 80 appointments. Residency training follows one year of internship and consists of two to five years of study devoted entirely to one specialized field of medicine. Instruction is given both in clinical departments and in related basic science departments of the school.

All residencies have received the approval of the Council on Medical Education and Hospitals of the American Medical Association and of the respective American boards. Residencies are offered in anesthesiology, dermatology, hematology, internal medicine, neurological surgery, neurology, obstetrics and gynecology, ophthalmology, orthopedic surgery, otolaryngology, pathology (both clinical and anatomical), pediatrics, psychiatry, radiology, general surgery, thoracic surgery, and urology.

The following Portland hospitals cooperate with the Medical School in the residency programs: Emanuel Hospital, Shriner's Hospital for Crippled Children, and Veterans Hospital.

Applications should be made to the medical director of the University of Oregon Medical School Hospitals and Clinics. Appointments are made six to eight months in advance of the beginning of the residency period, July 15.

Postgraduate Program

THE MEDICAL SCHOOL makes its teaching and clinical facilities available to physicians for continued postgraduate study. An extensive postgraduate program has been arranged, consisting of a series of short intensive courses, usually of three to five days' duration. These courses are devoted to special subjects and are scheduled throughout the year. Instruction is by lectures and demonstrations, the method of presentation depending upon the subject.

Enrollment is open to any graduate of an approved medical school who is licensed to practice in his state of residence. The fee for each course is \$10.00 per day.

Any physician meeting the eligibility requirements stated above may attend any of the regularly scheduled clinical teaching activities in the hospitals and clinics without official enrollment and without payment of fees.

Nursing Education

THE DEPARTMENT OF NURSING EDUCATION at the University of Oregon Medical School is organized on a collegiate basis; the department offers (1) an undergraduate curriculum designed to prepare young women for service as professional nurses in the care of the sick and in the promotion of community health; and (2) advanced programs of study for graduate nurses.

The student in the undergraduate four-year degree curriculum takes the first five terms of her work at the University of Oregon, at Oregon State College, 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 teaching units in which clinical

experience is received are the Multnomah Hospital, the University State Tuberculosis Hospital, the Outpatient Clinic, the Oregon State Hospital, and the University of Oregon Medical School Hospital.

The programs for graduate nurses are planned to provide: (1) opportunities for building a strong educational foundation through work in written and spoken English, history, socio-economic problems, literature and the fine arts, and biological and physical science; (2) a thorough preparation in one or more of the following broad nursing fields: (a) general nursing, (b) public health nursing, and (c) teaching and supervision. The programs are open both to nurses who desire to complete work towards a Bachelor of Science degree with a major in nursing and to nurses who wish preparation in a particular area of professional nursing.

A separate catalog containing detailed information on organization, faculty, facilities, requirements, and curricula of the Department of Nursing Education may be obtained on request.

Hospital Dietetics

THE COURSE IN HOSPITAL DIETETICS offered in the University of Oregon Medical School Hospitals and Clinics was approved by the American Dietetic Association in 1943. The course provides the one year's internship in a hospital, necessary to complete requirements for membership in the association.

The minimum admission requirement is graduation with a B.S. degree, including the academic requirements of the American Dietetic Association.

During the twelve-month training period at the Medical School, the student pays no tuition but provides her own supplies, including uniforms. Students receive complete maintenance and an allowance of \$65.00 per month.

Appointments are made once a year; applications should be submitted to the Director of Dietetics, University of Oregon Medical School Hospitals and Clinics, not later than February 15.

X-Ray Technique

THE DEPARTMENT OF RADIOLOGY of the University of Oregon Medical School offers a two-year course of training for X-ray technicians. The course, which was established in 1930, is approved by the Council on Medical Education and Hospitals of the American Medical Association and by the American Registry of X-Ray Technicians.

The minimum admission requirement is graduation from an accredited high school with a high scholastic rating; however, preference is given to applicants who have college training with credits in mathematics and physics.

No tuition is charged during the period of training, but the student must provide his own books, supplies, and uniforms. During the second year, the student serves as an apprentice technician and receives a stipend of \$50.00 per month.

The course includes lectures in anatomy, physiology, physics, and X-ray equipment, and lectures and clinical experience in dark-room chemistry and procedures, X-ray techniques, positioning of patients, hospital ethics, record keeping, department operation, and X-ray therapy. Students receive clinical experience in special X-ray procedures during their second year of training. All instruction is under the direction of the head of the Department of Radiology of the University of Oregon Medical School.

Twelve students are admitted annually in July. Applications should be submitted to the Chief Technician, Department of Radiology, University of Oregon Medical School Hospitals and Clinics.

The two-year program qualifies the student to take the registry examination of the American Registry of X-Ray Technicians, offered twice each year. The program includes the year of apprenticeship otherwise required by the Registry.

Medical Technology

RAYMOND D. GRONDAHL, Director of Medical Technology Program

Professor

RAYMOND D. GRONDAHL

Associate Professor

TYRA T. HUTCHENS

Associate Clinical Professor

JAMES H. LIVUM

Assistant Professor

GERALD J. LATTIG

Assistant Clinical Professors

MARLOWE DITTEBRANDT

HOMER H. HARRIS

EUGENE W. LANDRETH

Instructors

MARY ELIZABETH BAPTIST

MARTHA L. HAMILTON

Clinical Instructor

DAVID S. TAKALO

TRAINING IN MEDICAL TECHNOLOGY is offered in the clinical laboratories of the University of Oregon Medical School. The twelve-month program, established in 1933, is approved by the Registry of Medical Technologists of the American Society of Clinical Pathologists and by the Council on Medical Education and Hospitals of the American Medical Association.

The minimum admission requirements are: two years of college work, including: 18 term hours in biology; 9 term hours in inorganic chemistry; 4 term hours in either quantitative analysis, organic chemistry, or biochemistry.* The applicant's credentials must be approved by the Registry prior to admission. At the present time, approximately 20 students are enrolled annually. Preference is given students who have three years of college work.

Academic credit is granted for the work of the fall, winter, and spring terms. No credit is given for the summer term, which is required for certification by the Registry. Upon satisfactory completion of the twelve continuous months' training period, a certificate is issued to the student by the University of Oregon Medical School. The student is then eligible to take the National Registry Examination, which is given twice a year. Upon passing the examination, the student is qualified as a registered medical technologist with the American Society of Clinical Pathologists.

Application blanks for admission may be obtained from the Registrar of the University of Oregon Medical School.

Fees. Students in the medical technology program pay the following fees:

	Per term	Per year
Tuition.....	\$ 20.00	\$ 60.00
Laboratory and course fee.....	42.00	126.00
Building fee.....	8.00	24.00
Incidental fee (student health service).....	10.00	30.00
Total for Oregon residents.....	\$ 80.00	\$240.00
Total for nonresidents, who pay an additional \$55.00 per term.....	\$135.00	\$405.00

* Beginning January 1, 1962, the minimum requirement will be three years of college work in an approved college or university.

Medical technology students pay the "special fees" listed on pages 56-57 under the conditions indicated.

Textbooks and uniforms are supplied by the student. No dormitories are available on the Medical School campus.

Curriculum in Medical Technology

	Fall Term	Term hours
MT 410. Clinical Bacteriology		4
MT 413. Laboratory Orientation.....		2
MT 424. Clinical Biochemistry		5
MT 430. Principles of Hematology		5
		<hr/> 16
	Winter Term	
MT 411. Clinical Bacteriology		6
MT 425. Clinical Biochemistry		6
MT 431. Special Hematology		3
		<hr/> 15
	Spring Term	
MT 414. Urinalysis		4
MT 420. Histological Technique		4
MT 436. Applied Serology		5
MT 437. Clinical Parasitology		3
		<hr/> 16

Description of Courses

MT 410, 411. Clinical Bacteriology. 4 hours fall, 6 hours winter.

The bacteria pathogenic for man. Study of the culture, the morphological characteristics, and the means of isolation and identification of these organisms. Fall: lectures, 4 hours a week. Winter: lectures, 3 hours a week; laboratory, 9 hours a week. 176 hours.

MT 413. Laboratory Orientation. 2 hours fall.

A study of the collection, preservation, and care of the various types of clinical specimens. Lectures, 1 hour a week; laboratory, 3 hours a week; 44 hours.

MT 414. Urinalysis. 4 hours spring.

A study of the mechanisms of formation and identification of the normal and abnormal components of urine. Lectures, 2 hours a week; laboratory, 6 hours a week; 88 hours.

MT 420. Histological Technique. 4 hours spring.

Principles of tissue fixation, dehydration, and staining, with special emphasis upon the methods used in histopathological technique. Lectures, 2 hours a week; laboratory, 6 hours a week; 88 hours.

MT 424, 425. Clinical Biochemistry. 5 hours fall, 6 hours winter.

The principles of biochemistry and the applications of colorimetry, gasometric analysis, and quantitative chemistry in the determination of the substances in blood and body fluids. Fall: lecture, 3 hours a week; laboratory, 6 hours a week. Winter: lectures, 3 hours a week; laboratory, 9 hours a week. 231 hours.

MT 430. Principles of Hematology. 5 hours fall.

The normal function and development of blood cells, red blood counts, white blood counts, differential cell counts, platelet counts, sedimentation rate, coagulation, bleeding time, and red blood cell fragility. Lectures, 3 hours a week; laboratory, 6 hours a week; 99 hours.

MT 431. Special Hematology. 3 hours winter.

Blood dyscrasia, bone marrow, and blood studies relative to the anemias, leukemia, and other pathological conditions of blood. Lectures, 2 hours a week; laboratory, 3 hours a week; 55 hours.

MT 436. Applied Serology. 5 hours spring.

The principles of serological phenomena in the laboratory. The factors influencing precipitin, flocculation, and complement fixation tests as applied to serum diagnosis of disease. Special consideration of flocculation and complement fixation tests as they apply to the diagnosis of syphilis. Lectures, 2 hours a week; laboratory, 9 hours a week; 121 hours.

MT 437. Clinical Parasitology. 3 hours spring.

The life cycles, modes of transmission, and diagnostic features of the more common parasites of man. Lectures, 2 hours a week; laboratory, 3 hours a week; 55 hours.

Enrollment and Degrees

Degrees Conferred June 12, 1959

Doctor of Medicine

GRADUATE	INTERNSHIP
David Gordon Bragg	Philadelphia General Hospital, Philadelphia, Penn.
Robert McDannell Brown	District of Columbia General Hospital, Washington, D.C.
Richard Duane Brust	Orange County General Hospital, Orange, Calif.
John Arthur Buehler	Good Samaritan Hospital, Portland, Ore.
Peggy Jean Copple	Minneapolis General Hospital, Minneapolis, Minn.
Nolan Ralph Cordon	San Bernardino County Charity Hospital, San Bernardino, Calif.
Winston Irvin Cozine	U.S. Public Health Service Hospital, Staten Island, N.Y.
Betty Jo Davenport	Methodist Hospital, Brooklyn, N.Y.
Floyd Douglas Day	Good Samaritan Hospital, Portland, Ore.
Wayne Roswell DeMott	Madigan Army Hospital, Tacoma, Wash.
H. Loring Dixon	Southern Pacific General Hospital, San Francisco, Calif.
Robert Preston Doughton	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Richard Franklin Drake	Ancker Hospital, St. Paul, Minn.
William James Dunlap	Good Samaritan Hospital, Portland, Ore.
Edward Charles Eberdt	Orange County General Hospital, Orange, Calif.
Joseph William Edgett, Jr.	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Donald Gene Edwards	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
John Harold Ellison	Tripler Army Hospital, Honolulu, T.H.
John Canisius English	Santa Clara County Hospital, San Jose, Calif.
Riccardo Rudolfo Foggia	Gorgas Hospital, Balboa Heights, C.Z.
Jerry Donald Giesy	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Kenneth Merle Giles	Letterman Army Hospital, San Francisco, Calif.
Giles Sheldon Green	St. Mary's Hospital, San Francisco, Calif.
Donne Gale Griffith	Tripler Army Hospital, Honolulu, T.H.
Kenneth Burton Haevernick	Good Samaritan Hospital, Portland, Ore.
Lawrence Henry Hansen	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Toshi Hasuike	Good Samaritan Hospital, Portland, Ore.
William Scott Hoskinson	Gorgas Hospital, Balboa Heights, C.Z.
Darrell Herbert Hunsaker	U.S. Naval Hospital, Camp Pendleton, Calif.
James Donald Imbrie	U.S. Naval Hospital, Bremerton, Wash.
Harley Duncan Kelley	Los Angeles County Hospital, Los Angeles, Calif.
Walter Franklin Krengel, Jr.	Philadelphia General Hospital, Philadelphia, Penn.
Robert Chester Luther	Ancker Hospital, St. Paul, Minn.
Richard John McCarty	Valley Forge Army Hospital, Phoenixville, Penn.
David Schwab McDaniel	Good Samaritan Hospital, Portland, Ore.
Walter Edwin Meihoff	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Robert Allen Mendelson	Tripler Army Hospital, Honolulu, T.H.
Tate Muldown Minckler	Jackson Memorial Hospital, Miami, Fla.
Winston Applewhite Mitchell	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Wayne Lee Murray	U.S. Naval Hospital, Bremerton, Wash.
Dean Elton Neal	Los Angeles County Hospital, Los Angeles, Calif.
Marilyn Adella Nelson	Philadelphia General Hospital, Philadelphia, Penn.
James Richard Orendurff	St. Vincent's Hospital, Portland, Ore.
Urlin Scott Page	Philadelphia General Hospital, Philadelphia, Penn.
Willis Edward Peacock	Madigan Army Hospital, Tacoma, Wash.
James Lawrence Petroske	Boston City Hospital, Boston, Mass.
John Nicol Roehr	Virginia Mason Hospital, Seattle, Wash.
George Jiro Sakurai	Good Samaritan Hospital, Portland, Ore.
Richard Dennis Saloum	Emanuel Hospital, Portland, Ore.
Richard Douglas Schultz	Gorgas Hospital, Balboa Heights, C.Z.
Delbert Edward Scott	Kansas City General Hospitals, Kansas City, Mo.
David Alan Sears	Strong Memorial-Rochester Municipal Hospital, Rochester, N.Y.

GRADUATE

Glen Stuart Shipley	Glockner-Penrose Hospital, Colorado Springs, Colo.
Ramon Gary Shoen	San Bernardino County Charity Hospital, San Bernardino, Calif.
Ronald Peter Smith	Harber General Hospital, Torrance, Calif.
Russell Thomas Stodd	Los Angeles County Hospital, Los Angeles, Calif.
Roy Douglas Strand	University of Illinois Research and Educational Hospital, Chicago, Ill.
Robert W. Straumfjord	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Betty Blomquist Thompson	Good Samaritan Hospital, Portland, Ore.
John Wallace Thompson	Good Samaritan Hospital, Portland, Ore.
Edward Takaaki Toyooka	University of Illinois Research and Educational Hospital, Chicago, Ill.
Cecil A. Van Kleek	Good Samaritan Hospital, Portland, Ore.
Gaylord Clinton Weeks	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Robert Woodford Wesche	Philadelphia General Hospital, Philadelphia, Penn.
Livingston Mahn Fong Wong	Good Samaritan Hospital, Portland, Ore.
Marvin Richard Young	Philadelphia General Hospital, Philadelphia, Penn.

Doctor of Philosophy

James Otis Alben
Marvin Carroll Hines

Master of Science

Arthur Lloyd Eckhardt
Kenneth Merle Giles
Catherine Louise Gruber

INTERNSHIP

Alicia Elvira Marco
James McNcese
Edward Takaaki Toyooka

Enrollment 1958-59

Medical Students

First-Year Class

Curtis D. Adams	Leonard L. Hays	Roy E. Paulsen, Jr.
James W. Asaph	H. Douglas Hering	William G. Prescott
Dee D. Atkinson	Curtis R. Holzgang	Charles E. Richardson
Herbert C. Baker	Leslie W. Inman	Jens J. Robinson
Roger M. Bandy	John G. Iwakiri	John P. Rundle
Larry L. Bassinger	Edwin C. James	C. Dudley Saul III
Richard W. Beighle	R. Marshall Jelderks	George R. Schoedinger III
C. Sabin Belknap	Gary C. Jenkins	Walter R. Schreck
John D. Bischel	Robert G. Kaufman	Donald H. Scott
Dudley M. Bright	Alan L. Keaton	Myron E. Shirasu
Howard A. Buell	Philip J. Keizer	Lauren K. Stanley
Tong C. Cheah	Donald T. Kerr	Laddie E. Stover
Wesley A. Cook, Jr.	Robert E. Kramer	Fillmore Y. Sue
Lyle E. Crecelius	Michael N. Landis	John M. Talbot
James C. Dinneen	Arthur E. Lewis	Newton L. Thompson
Edwin C. Everts	Ronald G. Lewis	Per H. Tønning
Richard W. Fieber	Thomas W. Mann	Fredric J. Van Rheenen
R. Clifford Flanders	Paul T. Mannen, Jr.	Joyce Asbury Walker
John T. Flaxel	Carl Mark III	David A. Weeks
Arthur R. Fry, Jr.	Charles F. McMahon	Lawrence H. Welter
Thomas A. Gail	Leo J. McMahon	David H. Wesche
Robert F. Gast	Donald L. McNeill	Mary Helen Wilder
John M. Gevurtz	Russell W. Newcomb	Eugene L. Wonderlick
James H. Gilbaugh, Jr.	William T. Painter	Oak Chee Wong
Richard T. Gourley	Richard O. Panzer	Oakland Wong
James A. Haaland	George N. Pasto	Eldon W. Younger
Arthur L. Hauge		I. Minter Yount

Second-Year Class

Robert A. Beatty	David L. Haugen	Bruce A. Peters
Samuel T. Bennett	Donald H. Heithecker	Donald W. Pittman
Charles A. Bonnett	Leonard L. Heston	James C. Pucas
Richard P. Bunch	Frederick C. Hoesly	Richard L. Redfern
Douglas M. Burns	Howard E. Johnson	Peter H. R. Roberts
Jean E. Carter	Kit G. Johnson	Thomas L. W. Roe
George H. Caspar	Richard H. Johnson	Edward M. Schneider
Richard E. Cavalli	Bruce B. Johnstone	Alan F. Scott
Gerald R. Christensen	Paul W. Jones	James M. Scott
Marilyn A. Christensen	Irwin E. Joselyn	Norman F. Seidenverg
Byong-Uk Chung	Visut Kanchanapoomi	Michael J. Skala
F. Lawrence Clare	John C. Kelly	Perry R. Sloop, Jr.
Willis I. Cottel	Harry Knudson	Esther A. Strom
Mary Jane D. Dubinski	Delbert M. Kole	John W. Tarnasky
Lloyd O. Eckhardt	James C. Kraus	Louis A. Taucher
Raymond D. Endicott	Richard P. Lewis	Duane F. Taylor
Thomas E. Fagan	Merritt L. Linn	Thomas L. Thornton
Bill B. Ferguson	Dale L. W. Lowther	William M. Veatch
Robert L. Fulwylter	Joseph C. Macdonald	Vernon V. Viles
Lee A. Gleason	Malcolm M. Marquis	Ronald W. Vinyard
Raymond F. Graap, Jr.	Winston E. Maxwell	Wayne L. Walling
Keith F. Harcourt	Hideyo Minagi	Daniel L. Wesche
Thomas J. Harrison	Peter M. Nakamura	David L. Wishart
James T. Hartford	James S. Noble	Rose K. L. Wong
	Herald S. Nokes	

Third-Year Class

John T. Abraham, Jr.	Fredrick T. Fraunfelder	Richard H. Phillips
Royal G. Aubrey	P. Rocco Garofalo	William B. Pollard
Roger A. Barnhart	Robert H. Gustafson	Donald D. Ramsthal
John A. Beare	Archie Y. Hamilton	Keith A. Robertson
R. Lee Belknap	Chris L. Harrigfeld	Richard A. Romaine
Ernest J. Benner	J. Ivan Hewitt	Robert A. Roth
Lester L. Bergeron	Keith D. Holmes	James A. Saunders
Walter C. Bernards	Wesley R. Jacobs	Alexander J. Schlenning
David E. Billings	Joanne Jene	Benjamin B. Shepherd
Richard M. Burns	Robert H. Jensen	Rosemary W. Stevens
Robert B. Campbell	David W. Johnson	John H. Stone
Charles B. Carter	Albert R. Kearns	William R. Stoner
Gunnar E. Christiansen	Darwin G. Lehfeldt	George R. Suckow
Juris Cilinis	John L. Linn	Kenneth I. Sutherland
William V. Coyner	Robert C. Loomis	Norio Takayama
Richard V. Crisera	Laury E. Lundberg	K. Nolan Tanner
Dennis G. Crockett	Richard B. Lyons	James K. Tsujimura
Clayton H. deBruin	Robert A. McFarlane	Andrew N. Urbanc
John M. Deeney	Sam L. Meyer	Vance Vaupel
Rolf R. Engel	Michael J. Miller	Jerry Wetherell
Eldon L. Erickson	Rodger M. O'Harra	Ralph E. Whiting
William F. Farr	Richard P. Panian	Homer L. Winslow
James A. Fraser	Clarence D. Peters	Richard K. Woodward

Fourth-Year Class

David G. Bragg	Jerry D. Giesy	Wayne L. Murray
Robert M. Brown	Kenneth M. Giles	Lew B. Myers
Richard D. Brust	G. Sheldon Green	Dean E. Neal
John A. Buehler	Donne G. Griffith	Marilyn A. Nelson
Peggy J. Copple	Kenneth B. Haevernick	James R. Orendurff
Nolan R. Cordon	Lawrence H. Hansen	U. Scott Page
Winston I. Cozine	Toshi Hasuike	Willis E. Peacock
Betty Jo Davenport	William S. Hoskinson	James L. Petroske
F. Douglas Day	Darrell H. Hunsaker	T. James Robnett
Wayne R. DeMott	Lynn S. Husband	John N. Roehr
H. Loring Dixon	James D. Imbrie	R. Bradley Sack
Robert P. Doughton	Harley D. Kelley	William H. Sack
Richard F. Drake	Walter F. Krengel	George J. Sakurai
William James Dunlap	Robert C. Luther	Richard D. Saloom
Edward C. Eberdt	Richard J. McCarty	Richard D. Schultz
Joseph W. Edgett, Jr.	David S. McDaniel	Delbert E. Scott
Donald G. Edwards	Walter E. Meihoff	David A. Sears
John H. Ellison	Robert A. Mendelson	Glen S. Shipley
John C. English	Tate M. Minckler	Ramon G. Shoen
Riccardo R. Foggia	Winston A. Mitchell	John D. Sigurdson

Ronald P. Smith
 Russell T. Stodd
 Roy D. Strand
 Robert W. Straumfjord

Howard H. Sussman
 Betty Blomquist Thompson
 John W. Thompson
 Edward T. Toyooka
 Cecil A. Van Kleek

Gaylord C. Weeks
 Robert W. Wesche
 Livingston M. F. Wong
 Marvin R. Young

Graduate Students

James O. Alben
 John C. Elwood
 Jack G. Giesy
 Catherine L. Gruber

Marvin C. Hines
 Nicholas E. Kontaxis
 James McNeese
 Alicia E. Marco
 Madhukar A. Phatak

Special Students and Auditors

Robert H. Anderson
 John Bellinger

Joan P. Payne
 William E. Walsh, III

Medical Technology Students

Sylvia E. Burk
 Joan F. Butler
 Barbara A. Cone
 Agnes A. Coughlin
 Darel E. Courser
 Judith A. Elijah
 Sherman B. Everett
 Dianne W. Gardner
 Kathryn F. Hardwick
 Jerriann Honey
 Shirley Y. Jewett
 Evi Kink

Herman E. Mellish
 Donna M. Morse
 Janice R. Roehlk
 Barbara J. Sanders
 Leslie R. Seder
 Jeanette L. Siddall
 Karlyn M. Sugai
 Mary Ann Thompson
 Eva L. Tucker
 Lyne D. Vincentelli
 Kay O. Wadsworth
 Mary H. Wilmot

Summary of Enrollment, 1958-59

	Men	Women	Total
First year	78	2	80
Second year	69	4	73
Third year	66	3	69
Fourth year	69	4	73
Total regular students	282	13	295
Graduate students	7	2	9
Special students and auditors	3	1	4
Medical technology students	3	21	24
Total	295	37	332