

CATALOG
ISSUE
1960-61

University
of Oregon

MEDICAL SCHOOL

PORTLAND,
OREGON

BULLETIN

UNIVERSITY OF OREGON



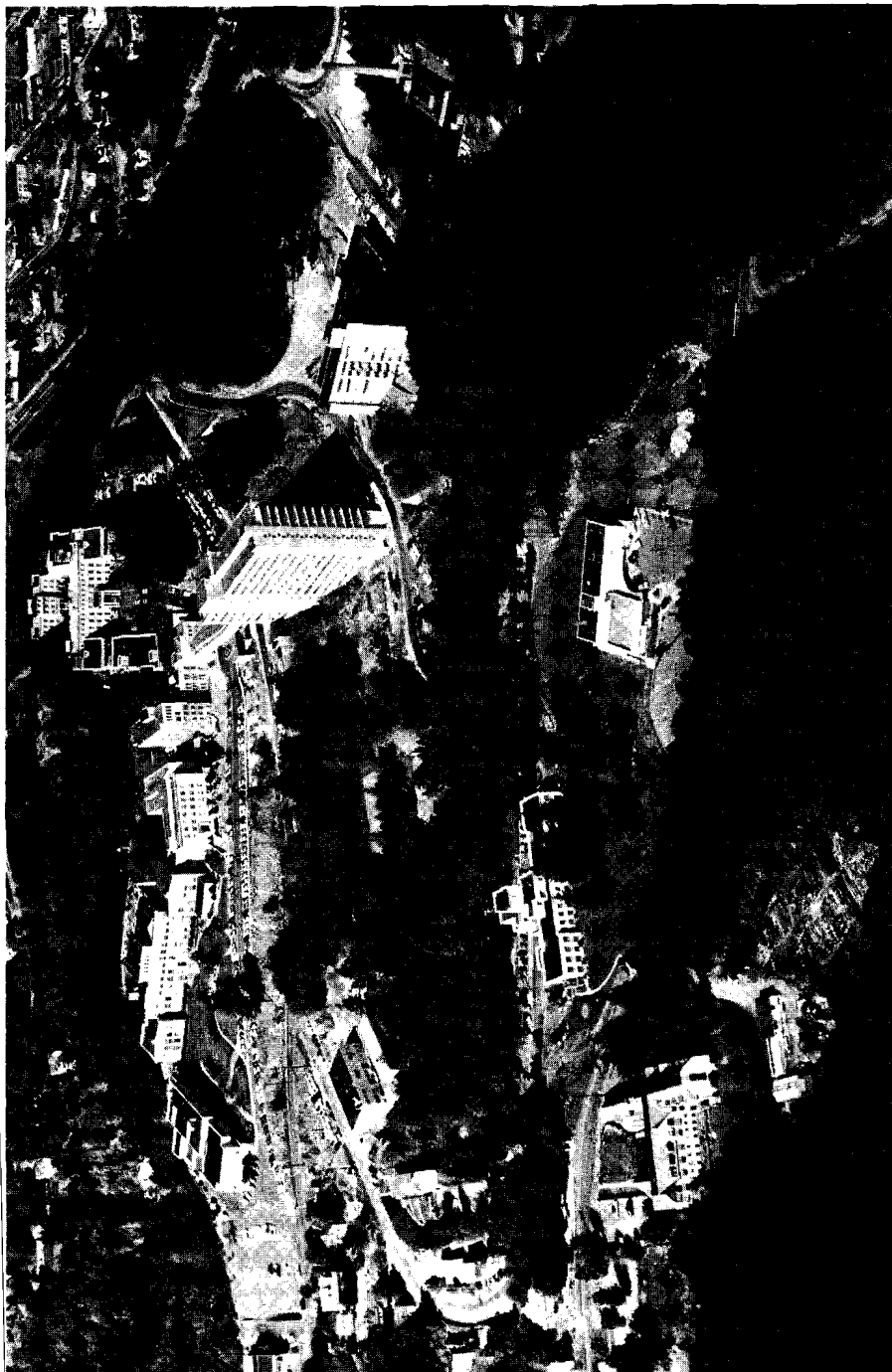
OREGON STATE SYSTEM OF HIGHER EDUCATION

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

UNIVERSITY
OF OREGON
MEDICAL
SCHOOL

1960-61 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.

State Board of Higher Education

	Term Expires
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CHERYL S. MACNAUGHTON, Portland.....	1963
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DOUGLAS MCKEAN, Beaverton.....	1964
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HENRY F. CABELL, Portland.....	1966

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

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

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PAUL C. PACKER, Ph.D., LL.D.....	1946-1950
CHARLES D. BYRNE, Ed.D.....	1950-1955

University of Oregon Medical School Calendar, 1960-61

Medical and Graduate Students

Fall Term, 1960-61

September 19, *Monday*.....Registration
 September 20, *Tuesday*.....Instruction begins
 October 3, *Monday*.....Last day to register for full credit
 or to change courses
 November 24, *Thursday*.....Thanksgiving Day, holiday
 December 10, *Saturday*.....Fall term ends

Winter Term, 1960-61

December 12, *Monday*.....Instruction begins
 December 23, *Friday*.....Last day to register for full credit
 or to change courses
 December 24, 1960 to January 2, 1961.....Christmas vacation
 March 11, *Saturday*.....Winter term ends

Spring Term, 1960-61

March 20, *Monday*.....Instruction begins
 April 3, *Monday*.....Last day to register for full credit
 or to change courses
 May 30, *Tuesday*.....Memorial Day, holiday
 June 9, *Friday*.....Commencement
 June 10, *Saturday*.....Spring term ends

Summer Term, 1960-61

June 12, *Monday*.....Registration
 June 12, *Monday*.....Instruction begins
 June 26, *Monday*.....Last day to register for full credit
 or to change courses
 July 4, *Tuesday*.....Independence Day, holiday
 September 2, *Saturday*.....Summer term ends

University of Oregon Medical School Calendar, 1960-61

Medical Technology Students

Fall Term, 1960-61

September 19, *Monday*.....Registration
 September 20, *Tuesday*.....Instruction begins
 October 3, *Monday*.....Last day to register for full credit
 or to change courses
 November 24, *Thursday*.....Thanksgiving Day, holiday
 December 3, *Saturday*.....Fall term ends

Winter Term, 1960-61

December 5, *Monday*.....Registration and instruction begins
 December 19, *Monday*.....Last day to register for full credit
 or to change courses
 December 24, 1960 to January 2, 1961.....Christmas vacation
 February 25, *Saturday*.....Winter term ends

Spring Term, 1960-61

March 6, *Monday*.....Registration and instruction begins
 March 20, *Monday*.....Last day to register for full credit
 or to change courses
 May 20, *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.

WILLIAM C. JONES, Ph.D., Acting 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.

WILLIAM A. ZIMMERMAN, B.S., Assistant to the Dean; Professor.

JOSEPH J. ADAMS, B.B.A., Assistant to the Dean; Director of Public Affairs; Assistant Professor.

Hospitals and Clinics Administration

DAVID W. E. BAIRD, M.D., Dean; Professor of Medicine.

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JARVIS GOULD, M.D., Assistant Medical Director and Assistant Administrator; Associate Professor of Medicine.

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WILLIAM A. ZIMMERMAN, B.S., Assistant Administrator; Professor.

GWYNN C. BRICE, Administrative Assistant; Assistant Director of Outpatient Clinic; Assistant Professor.

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AMBY FREDERICK, B.S., Assistant Business Manager; Assistant Professor.

RODNEY T. JEFFREY, B.A., Personnel Officer.

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OFFICERS OF ADMINISTRATION

11

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Research Instrument Service

GEORGE I. JOHNSTON, B.S., Research Associate.

Medical Illustration

CLARICE ASHWORTH FRANCONI, Medical Illustrator.

Photography

JAMES T. PHILLIPS, Photographer.

Printing

ALBERT L. BIGEJ, Printer.

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JOHN R. RICHARDS, Chancellor, State System of Higher Education; WILLIAM C. JONES, Acting President, University of Oregon; DAVID W. E. BAIRD, Dean of the Medical School; RALPH C. BENSON, JOHN M. BROOKHART, JACKSON T. CRANE, NORMAN A. DAVID, CHARLES T. DOTTER, J. ENGLEBERT DUNPHY, ARTHUR W. FRISCH, JARVIS GOULD, RAYMOND D. GRONDAHL, ALLAN J. HILL, CHARLES N. HOLMAN, HOWARD P. LEWIS, EDWIN E. OSGOOD, ANTHONY A. PEARSON, GEORGE SASLOW, RICHARD L. SLEETER, KENNETH C. SWAN, ADOLPH WEINZIRL, EDWARD S. WEST, WILLIAM A. ZIMMERMAN, (secretary, ex officio).

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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.

JOHN F. ABELE, M.D., Assistant Clinical Professor of Orthopedic Surgery (1946).
B.A. (1930), M.D. (1934), Oregon.

JOHN C. ADAMS, M.D., Associate Clinical Professor of Surgery (1932).
B.S. (1922), University of Washington; M.D. (1926), Oregon.

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

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

CLIFFORD V. ALLEN, M.D., Associate Clinical Professor of 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.

GEORGE M. AUSTIN, M.D., Professor of Neurosurgery; Head of Division (1957).
A.B. (1938), Lafayette; M.D. (1942), Pennsylvania.

JAMES H. AUSTIN, M.D., Assistant Professor of Neurology (1955).
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., Assistant Professor of 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.

PAUL F. BAILEY, M.D., Clinical Instructor in Ophthalmology (1958).
B.S. (1951), Oregon State; M.D. (1953), Oregon.

DAVID W. E. BAIRD, M.D., Dean of the Medical School; Professor of Medicine (1928).
M.D. (1926), Oregon; LL.D. (1946), University of Portland.

HARVEY W. BAKER, M.D., Clinical Instructor in Surgery (1953).
B.A. (1939), Cornell; M.D. (1943), Columbia.

HENRY B. BALLANTYNE, M.D., Clinical Instructor in Medicine (1957).
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.

JACK E. BATTALIA, M.D., Clinical Instructor in Surgery (1954).
B.A. (1945), Reed; M.D. (1946), Oregon.

SAMUEL T. BEALL, M.D., Clinical Instructor in Medicine (1954).
A.B. (1940), Whitman; M.D. (1950), Louisville.

G. DONALD BEARDSLEY, M.D., Clinical Instructor in Urology (1954).
B.A. (1945), M.D. (1947), Oregon.

CLARISSA H. BEATTY, Ph.D., Assistant Professor of Biochemistry (1953).
B.A. (1941), Sarah Lawrence; M.S. (1942), Ph.D., (1945), Columbia.

HARRY G. BECKWITH, JR., M.D., Clinical Instructor in Surgery (1953).
B.A. (1938), Reed; M.D. (1942), Oregon.

ROBERT H. BEDROSSIAN, M.D., Clinical Instructor in Ophthalmology (1959).
A.B. (1946), Haverford; M.D. (1947), Temple; M.Sc. (1953), Pennsylvania.

RODERICK E. BEGG, M.D., Assistant Clinical Professor of Orthopedic Surgery (1939).
B.S. (1924), Oregon State; M.D. (1937), Oregon.

ANIS M. BEHNAM, M.B., B.Ch., Instructor in Urology (1960).
M.B., B.Ch. (1951), Faculty of Medicine, Cairo University, Egypt.

JOHN A. BENSON, JR., M.D., Associate Professor of Medicine; Head of Division of Gastroenterology (1959).
B.A. (1943), Wesleyan University; M.D. (1946), Harvard.

RALPH C. BENSON, M.D., Professor of Obstetrics and Gynecology; Chairman of Department (1956).
B.A. (1932), Lehigh University; M.D. (1936), Johns Hopkins.

FREDERIC H. BENTLEY, M.D., Clinical Instructor in Surgery (1953).
B.S. (1926), M.B., Ch.B. (1929), M.D. (1946), Manchester (England); F.R.C.S. (1932), Royal College of Surgeons.

JOHN H. BENWARD, M.D., Assistant Clinical Professor of Pediatrics (1943).
B.S. (1937), M.D. (1939), Oklahoma.

ARTHUR W. BERG, M.D., Clinical Instructor in Medicine (1953).
B.A. (1943), M.D. (1945), Oregon.

RICHARD F. BERG, M.D., Assistant Clinical Professor of Orthopedic Surgery (1935).
A.B. (1923), M.D. (1926), Oregon.

EDMUND H. BERGER, M.D., Clinical Associate in Medicine (1934).
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.
- STANLEY F. BERGQUIST, M.D., Clinical Instructor in Surgery (1956).
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.
- BRUCE H. BEST, M.D., Clinical Instructor in Surgery (1956).
M.D. (1948), Manitoba.
- ADALBERT G. BETTMAN, M.D., Clinical Associate in Surgery (1932).
M.D. (1907), Oregon.
- ROBERT H. BIGLEY, M.D., Instructor in Medicine (1960).
B.S. (1951), University of Washington; M.D. (1953), 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 in 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.
- ROBERT W. BLAKELEY, Ph.D., Instructor in Speech Pathology and Hearing (1959).
B.A. (1951), California; M.S. (1952), Oregon; Ph.D. (1958), Michigan.
- JOHN A. BLANCHARD, M.D., Clinical Instructor in Medicine (1954).
B.S. (1941), Montana State College; M.D. (1950), Oregon.
- RODERICK C. BLATCHFORD, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1938).
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.
- 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.
- CHARLES BRADLEY, M.D., Associate Clinical Professor of Child Psychiatry; Head of Division of Child Psychiatry (1948).
B.S. (1925), Cornell; M.D. (1929), Harvard.
- SAMUEL A. BRANDON, D.D.S., Clinical Associate in Dental Medicine (1941).
D.D.S. (1924), California.

- JOHN O. BRANFORD, M.D., Clinical Instructor in Anesthesiology (1959).
B.A. (1936), Concordia; M.D. (1946), Oregon.
- MELVIN W. BREESE, M.D., Clinical Instructor in Obstetrics and Gynecology (1948).
B.S. (1936), Oregon State; M.D. (1943), Oregon.
- GWYNN C. BRICE, Administrative Assistant; Assistant Director of Outpatient Clinic (Assistant Professor) (1946).
- MORRIS L. BRIDGEMAN, M.D., Associate Clinical Professor of Pediatrics (1927).
Ph.D. (1916), Montana State University; M.D. (1924), Oregon.
- ISIDOR C. BRILL, Associate Clinical Professor of Medicine (1916).
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 D. BRISTOW, M.D., Clinical Instructor in Medicine (1960).
B.A. (1949), Willamette; M.D. (1953), 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., Assistant Professor of 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.
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B.S. (1942), Idaho; M.D. (1946), Johns Hopkins.
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B.A. (1945), M.D. (1949), Stanford; M.S. (1955), Michigan.
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B.A. (1927), M.D. (1930), Oregon.
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M.D. (1947), Hahnemann.
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B.S. (1943), University of Portland; M.D. (1944), Oregon.
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- 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.
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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).
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- 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).
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B.A. (1931), M.D. (1933), Oregon.
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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.
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B.S. (1927), University of Washington.
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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.
- ALBERT A. OYAMA, M.D., Clinical Instructor in Pathology (1959).
B.S. (1951), M.D. (1953), 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 Associate 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.
- 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).
B.A. (1942), Antioch; M.D. (1945), Western Reserve.
- 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 (1944).
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.
- ALEXANDER E. PETROFF, M.D., Clinical Instructor in Otolaryngology (1960).
B.S. (1949), Pacific University; M.S., M.D. (1955), Oregon.
- CARL A. PETERSON, 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 (1956).
A.B. (1945), Whitman; M.A. (1948), M.D. (1949), California.
- WAYNE M. PIDGEON, M.D., Clinical Instructor in Psychiatry (1959).
M.S. (1947), M.D. (1951), Oregon.
- CHARLES T. PINNEY, M.D., Clinical Instructor in Medicine (1959).
A.B. (1943), M.D. (1946), Michigan.
- 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. PITTINGER, 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 Associate 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., Assistant Clinical Professor of 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. RITZMAN, M.D., Associate Clinical Professor of Medicine (1954).
B.A. (1942), Valparaiso; 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.
- BEATRICE K. ROSE, M.D., Clinical Instructor in Medicine (1960).
B.A. (1943), M.D. (1946), George Washington.
- LEONARD B. ROSE, M.D., Assistant Clinical Professor of 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., Associate 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.
- MERRILL W. RUSHER, M.D., Clinical Instructor in Obstetrics and Gynecology (1960).
M.D. (1943), Northwestern.
- 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.
- G. LEE SANDRITTER, M.D., Clinical Instructor in Psychiatry (1959).
M.D. (1935), Nebraska.
- GEORGE SASLOW, M.D., Professor of Psychiatry; Chairman of Department (1957).
Sc.B. (1926), Ph.D. (1931), New York University; M.D. (1940), Harvard.
- HARRY L. SASLOW, Ph.D., Instructor in Medical Psychology (1959).
B.S. (1950), Alberta; M.S. (1954), Oregon; Ph.D. (1959), Pittsburgh.
- 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., 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), De Montmorency College of Dentistry (Lahne, India); L.D.S., R.C.S. (1947), Royal Dental Hospital (London, England); M.S. (1950), Illinois.
- 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.
- 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., Associate 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.
- RALPH E. SHAMBAUGH, M.D., Clinical Instructor in Medicine (1960).
M.D. (1948), Nebraska.
- JAMES C. SHANKLIN, M.D., Assistant Clinical Professor of Psychiatry (1952).
M.D. (1939), Indiana.
- JOHN M. SHAW, M.D., Clinical Instructor in Dermatology (1959).
M.D. (1949), Michigan.
- 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.
- IRIS JOYCE SMALL, M.D., Instructor in Psychiatry (1960).
B.A. (1951), Saskatchewan; M.D. (1956), Manitoba; M.S. (1959), Michigan.
- IVER F. SMALL, M.D., Assistant Professor of Psychiatry (1960).
B.A. (1951), Saskatchewan; M.D. (1954), Manitoba.
- CHARLES E. SMITH, D.M.D., Clinical Associate in Dental Medicine (1946).
D.M.D. (1940), Oregon.
- FRANK B. SMITH, M.D., Associate Clinical Professor of Orthopedic Surgery (1944).
B.A. (1933), Southern California; C.M., M.D. (1937), McGill.
- FREDERIC W. SMITH, M.D., Clinical Instructor in Medicine (1960).
B.S. (1947), Kansas State; M.D. (1956), Cornell.
- GORDON N. SMITH, M.D., Clinical Instructor in Obstetrics and Gynecology (1957).
B.S. (1951), Oregon State; M.D. (1953), Oregon.
- JOHN C. SMITH, M.D., Assistant Professor of Pathology (1960).
B.S. (1950), Oklahoma; M.D. (1954), Johns Hopkins.
- 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.
- 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.
- PAUL R. SPIERLING, M.D., Clinical Instructor in Obstetrics and Gynecology (1958).
B.S. (1950), M.D. (1954), Illinois.
- GEORGE V. SQUIRE, M.D., Clinical Instructor in Medicine (1959).
B.A. (1942), Iowa; B.S. (1949), M.D. (1951), Minnesota.
- WALTER R. STAHL, M.D., Clinical Instructor in Radiology (1959).
B.S. (1951), Massachusetts Institute of Technology; M.D. (1955), Harvard.
- 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.

- GRIER F. STARR, M.D., Clinical Instructor in Pathology (1959).
B.S. (1947), Jamestown; M.D. (1951), Northwestern.
- 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.
- MAX J. STEPHENSON, M.D., Instructor in Pediatrics (1960).
B.A. (1954), M.D. (1955), Oregon.
- 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.
- KURT R. STRAUBE, M.D., Instructor in Radiology (1960).
Cand. Med. (1948), Dr. Med. (1952), University of Vienna, Austria.
- THEODORE SUHER, D.M.D., Clinical Associate in Dental Medicine (1949).
B.S., D.M.D. (1946), Oregon; M.S. (1948), Illinois.
- EUGENE S. SULLIVAN, M.D., Clinical Instructor in Surgery (1959).
B.S. (1950), M.D. (1953), Wisconsin.
- 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., Assistant Clinical Professor of 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., 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.

- 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. TREATOR, 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.
- CHEN I. TSAI, M.D., Instructor in Neurosurgery (1959).
B.S. (1944), St. Johns University, Shanghai, China; M.D. (1949), National Tung-ti University Medical School, Shanghai, China.
- 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., Associate Clinical Professor of Medicine (1937).
M.D. (1933), Harvard.
- REX J. UNDERWOOD, M.D., Assistant Professor of 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.
- WILBUR N. VAN ZILE, D.D.S., Clinical Associate in Dental Medicine (1959).
D.D.S. (1928), Southern California.

- 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.
- R. MARK VETTO, M.D., Assistant Clinical Professor of Surgery (1959).
M.D. (1949), Jefferson; D.Sc. (1959), Cincinnati.
- 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.
- SUE A. WARREN, Ph.D., Clinical Instructor in Medical Psychology (1960).
A.B. (1939), East Carolina, Greenville, N.C.; M.A. (1951), Duke; Ph.D. (1955), Iowa.
- 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. WHITELY, 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., Assistant Clinical Professor of 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. WILHELMI, M.D., Clinical Instructor in Medicine (1956).
B.S. (1946), University of Washington; M.D. (1949), Oregon.

- CEILOUS 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.
- GORDON T. WOLFE, M.D., Clinical Instructor in Medicine (1959).
B.S. (1942); M.D. (1945), Illinois.
- 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.
- NORTON B. YOUNG, Ph.D., Instructor in Audiology (1960).
B.S. (1950), M.A. (1953), University of Washington; Ph.D. (1957), Purdue.
- 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.

* On leave of absence, Visiting Professor of Surgery, University of Shiraz Medical School; Chief, Surgical Service, Nemazee Hospital, Shiraz, Iran.

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.
JACKSON T. CRANE, M.D., Chief of Pathological Service.
DAVID D. DEWEESE, M.D., Acting Chief of Otolaryngological Service.
CHARLES T. DOTTER, M.D., Chief of Radiological Service.
J. ENGLEBERT 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.
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.
JOSEPH D. MATARAZZO, Ph.D., Chief of Medical Psychological 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.
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.
E. H. EMPEREUR, B.S., 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. RAWLINSON, B.S., R.N., Surgical Supervisor.
LYNN HARTLEY, B.S., 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.
 VIRGINIA McMULLEN, B.S., R.N., Evening Supervisor.
 THELMA CROSLAND, R.N., Assistant Night Supervisor.
 VIOLA ROBINSON, 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 STITLEY, 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.
 MARGARET LINTON, B.A., O.T.R., Medical-Surgical Occupational Therapist.
 BERNICE J. SEE, B.S., O.T.R., Psychiatric Occupational Therapist.
 MADELINE MYERS, Accounting Office Supervisor.

General Outpatient Service

GWYNN C. BRICE, 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. DOENEKA, Chief Engineer.
 DAVID E. ANDERSON, 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.
 GRACE BLACK, O.T.R., Occupational Therapist.

Visiting Physicians' Service

RANDALL WHITE, M.D., Multnomah County Physician.
 C. W. COTTRELL, M.D., Physician.
 HAROLD DOBBIN, M.D., Physician.
 ANTON D. ELMER, M.D., Physician.
 NORMAN D. LOGAN, M.D., Physician.
 DONALD P. MCGREEVEY, M.D., Physician.
 CELOUS L. WILLIAMS, M.D., Physician.
 JAMES WOOD, 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.
 LAURENCE R. LANGSTON, M.D., Clinical Associate in Orthopedic Surgery.
 HARRY L. SASLOW, Ph.D., Instructor in Medical Psychology.
 SAMUEL G. FLETCHER, Ph.D., Research Associate in Speech Pathology.
 GLADYS BELL, A.B., Medical Social Consultant.
 ADELE T. MARTZ, 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.
 IRENE A. BACON, B.S., R.P.T., Physical Therapist.
 VIRGINIA R. HATCH, B.S., Occupational Therapist.
 MARGARET A. COSTELLO, Administrative Assistant.

**Cerebral Palsy Project
(Collaborating Faculty Members)**

RICHARD L. SLEETER, M.D., Associate Professor of Pediatrics.
 RUDOLF C. H. ENGEL, M.D., Associate Professor of Pediatrics.
 RALPH C. BENSON, M.D., Professor of Obstetrics and Gynecology.
 ALLAN J. HILL, M.D., Professor of Pediatrics.
 HOWARD J. TATUM, M.D., Professor of Obstetrics and Gynecology.
 WILLIAM M. CLARK, JR., M.D., Assistant Professor of Pediatrics.
 JOHN O. KANGAS, Ph.D., Assistant Professor of Medical Psychology.
 FRANK SHUBECK, M.D., Assistant Professor of Obstetrics and Gynecology.
 KATHRINE S. FRENCH, Ph.D., Instructor in Anthropology in Pediatrics.
 TOSHIO FUJJKURA, M.D., Instructor in Pathology and Obstetrics and Gynecology.
 WILLIAM W. ORNDUFF, M.D., Instructor in Pediatrics.
 LEO A. PIROJNIKOFF, Ph.D., Instructor in Medical Psychology.
 ROBERT L. TIPS, M.D., Instructor in Pediatrics.
 RICHARD L. LESSEL, M.P.H., Research Assistant in Pediatrics
 C. DONALD NELSON, M.S., Research Assistant in Speech Pathology.

General Information

THE UNIVERSITY OF OREGON MEDICAL SCHOOL is located in Portland (population 405,000), 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 101-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 295 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 72,000 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 uses.

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. A second addition to the building, costing \$200,000, completed in June 1960, provides additional space for the tabulating service, expanded storage facilities, and space for the Medical School's Printing Department.

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 270-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, 29 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.

The *Student Activities Building* (1960), built at a cost of \$358,000, is a two-story structure providing recreational facilities for all student groups on the campus.

Ground was broken for a \$2,611,955 *Medical Research Laboratories Building*, a nine-story structure, in the summer of 1960. The estimated completion date is fall of 1962.

Although not a part of the physical facilities of the University of Oregon Medical School proper, the *U. S. Veterans Administration Hospital*, located adjacent to the campus, serves as one of the teaching units of the Medical School. Established in 1928, this government-owned facility has 555 beds. The teaching program includes clinical experience for medical students as well as advanced residency programs. Coordinating the residency program is the Dean's Committee for the Portland Veterans Administration Hospital.

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 99). 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 120 full-time faculty members serving in its basic and clinical science departments; and more than 500 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.

The University of Oregon School of Nursing provides an important instructional program on the Medical School campus. 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 99-103).

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 under way at the Medical School are supported by gifts and grants amounting to more than \$1,500,000 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 indi-

vidual 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. It also 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 was opened in the summer of 1960.

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. 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.

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. Funds for summer fellowships are now being provided by The National Foundation, Lederle Laboratories Division of the American Cyanamid Company, the Tobacco Industry Research Committee, and the National Institutes of Health.

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 98, 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 \$34,000. 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 the late 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.

Dr. Francis Ortschaft Memorial Fund. This loan fund, approximately \$65,000, was established in 1960 through a bequest under the will of Viola Ortschaft of Portland. It is to be used for loans to needy and worthy medical students.

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 1960-61 are:

DR. ARTHUR W. SULLIVAN, '38, Portland.....	President
DR. JOSEPH E. NOHLGREN, '43, Portland.....	Vice-President
DR. HARRY G. BECKWITH, '42, Wheeler.....	Vice-President
DR. THOMAS W. E. CHRISTMAS, '26, Palo Alto, California.....	Vice-President
DR. WILLIAM E. GRIEVE, '26, Spokane.....	Vice-President
DR. OWEN G. MILLER, '43, Salem.....	Vice-President
DR. JOHN E. TUHY, '38, Portland.....	Secretary
DR. JOYLE O. DAHL, '30, Portland.....	Treasurer
JOSEPH J. ADAMS, Portland.....	Executive Secretary

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 prepares a person for medicine, the student planning to enter medical school 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.

ADMISSION REQUIREMENTS

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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. Early application is advised, since admission begins in the fall term. 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 Alaska, Arizona, Hawaii, Idaho, Montana, New Mexico, or Wyoming, 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-supported 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 transcripts of all previous college records (sent directly to the University of Oregon Medical School Registrar by the registrar of the institution or institutions 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" of the applicant in conventional dress, front view.

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 admissions, or who would be subjected to excessive travel expense. 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 offered 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, page 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.....	117.00
¹ Building fee, per term.....	8.00
² Incidental fee, per term.....	21.00
	\$206.00
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.....	40.00
¹ Building fee.....	8.00
² Incidental fee.....	21.00
	\$ 79.00
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.....	21.00
	\$ 29.00

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 and for use of the Student Activities Building.

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 57.

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.....	\$ 618.00
Tuition and fees, full-time nonresident students.....	921.00
Breakage deposit	15.00
Microscope fee	15.00
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.

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 at the Registrar's Office 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. Members of the senior class are required to pass the Part II examination of the National Board of Medical Examiners is given in April. Failure to pass the examinations necessitates taking special departmental examinations in any subjects failed. 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 recipro-

city 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 year's 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 5,454 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	
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	4
PH 411.....Statistical Methods	12	36	48	2
	384	864	1,248	56

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 515.....Laboratory Neuropathology	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	72	1,188	62½

Third Year

PATHOLOGY				
Pth 514.....Gyn. and Obs. Pathology.....	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		
PSYCHIATRY					
Psy 615.....Lectures in Clinical Psychiatry	12	.....	12	1
Psy 630.....Clinical Clerkship .....	.....	.....	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 .....	.....	228	228	9½
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	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					
Obs 615.....Introductory Obstetrics	12	.....	12	1
Obs 616.....Lectures & Demonstrations in Obstetrics	12	.....	12	1
Obs 630.....Clinical Clerkship .....	.....	66	66	3
Obs 631.....Manikin .....	.....	12	12	½
Obs 632.....Attendance at Deliveries .....	.....	48	48	2
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	1,092	1,614	88½
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
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 1,236 1,404	64½

Recapitulation

	Aggregate class hours			Term hours
	Lecture	Laboratory	Clinic Total	
First year.....	384	864	..... 1,248	56
Second year.....	504	612	72 1,188	62½
Third year.....	498	24	1,092 1,614	88½
Fourth year.....	132	36	1,236 1,404	64½
	1,518	1,536	2,400 5,454	271½

Prescribed Work by Departments

Preclinical

	Aggregate class hours
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.....	576
Orthopedic surgery.....	120
Urology.....	96
Anesthesiology.....	54
Neurosurgery.....	24
Ophthalmology.....	48
Otolaryngology.....	60
Obstetrics.....	264
Gynecology.....	156
Pediatrics.....	420
Total hours, clinical.....	3,378
Total hours, prescribed work.....	5,454

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 (MA, MS., 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
- 503. Thesis
- 505. Reading and Conference
- 507. Seminar

Basic Science Departments

Anatomy

ANTHONY A. PEARSON, Chairman of Department

Professors

ROBERT L. BACON

ANTHONY A. PEARSON

Associate Professors

DAVID L. GUNBERG

WILLIAM A. STOTLER

ARCHIE R. TUNTURI

Research Assistants

GUNNAR E. CHRISTIANSEN
CURTIS L. HOLZGANG

MARILYN LOMMICKY
JILL McLEAN
EDWARD M. SCHNEIDER

DELORES M. WAHL
DAVID H. WESCHER

Student Assistants

DAVID L. HAUGEN

KIT G. JOHNSON
SAM L. MEYER

PETER H. ROBERTS

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, 2 hours a week; laboratory, 12 hours a week. Spring: lectures and quizzes, 2 hours a week; laboratory, 3 hours a week. 372 hours.

BACTERIOLOGY

67

- 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.

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 Assistants

SANOMAR BARR

GORDON H. DAVIES

RUTH A. MYLLENBECK

Student Assistants

FREDERICK C. HOESLY

CHARLES F. McMAHON

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

GORDON R. JOHNSTON
RUSSELL L. JOLLY

EDWARD PETERSON
DONALD E. PICKERING
DEMETRIOS A. RIGAS

PAUL Y. SAKAGISHI
ISAO YAMAZAKI

Research Assistants

MARILUISE ALLEN
DAVID GAUDIN

KATHLEEN LAMBERT

ROGER PUBOLA
JEAN SCOTT

Student Assistants

JOHN BELLINGER
JOHN P. BENTLEY

RUSSELL MACDONALD
ALICIA E. MARCO

PAUL T. RUSSELL
ELAINE SPENCER

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 DITTERBRANDT

HOMER H. HARRIS

EUGENE W. LANDRETH

Instructors

MARY E. BAPTIST
(Medical Technology)

MARTHA L. HAMILTON

Clinical Instructor

DAVID S. TAKALO

Residents

MARGARET E. BERROTH
JAMES L. BRAMHALL

JAMES E. HAINES

LAWRENCE R. HEISELT
VICTOR C. MARQUARDT, JR.

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 hour 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

JACKSON T. CRANE, Chairman of Department

Professor

JACKSON T. CRANE

Clinical Professors

WARREN C. HUNTER

VINTON D. SNEEDEN

Associate Professors

NELSON R. NILES

ABE OYAMADA

Associate Clinical Professors

SHELDON A. JACOBSON

E. COLTON MEEK, JR.

Assistant Professor

*OTTO R. EMIG

Instructors

TOSHIO FUJIKURA

JOHN C. SMITH, II

Instructor in Cytotechnology

JAMES DE WITT RANKIN

Clinical Instructors

ERNEST J. LOSLI

JOSEPH E. NOHLGREN

GRIER F. STARR

ALBERT A. OYAMA

Clinical Fellow

NORMAN H. RICKLES

Residents

MOLLY TAN LO

LAURENCE W. PRICE, JR.

Graduate Assistants

JAMES LITTLE

ALVIN SCHEISS

Student Assistants

F. LAWRENCE CLARE
JOHN T. FLAXEL

RICHARD T. GOURLY

WINSTON E. MAXWELL
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 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 neu-

* On leave of absence for Public Health Service Fellowship at the University of Washington.

rology. Gross pathological specimens and demonstrations used in illustrating the diseases studied. Lectures, 1 hour a week; laboratory, 2 hours a week. 36 hours.

THIRD YEAR

- 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.
- 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.** 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.** 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

Assistant Clinical Professor

H. LENOX H. DICK

Research Assistant

STERLING M. SORENSON

Student Assistants

DAVID McCLURE

JAMES S. NOBLE

DONALD WEBER

REQUIRED COURSES

SECOND YEAR

Phc 511, 512. **Systematic Pharmacology.** 5 hours each term, winter and spring.

Lectures on the important therapeutic drugs listed in the U. S. Pharmacopoeia, National Formulary and those newer drugs described in the New and Non-Official Drugs for the current year. Lectures are correlated with the latest editions of the several most widely used textbooks of pharmacology. Classic experiments in pharmacology are performed by groups of students following prior demonstration of techniques and procedures. Several experiments are of the volunteer human-trial-of-drug types. Four laboratory sessions are devoted to clinical presentations dealing with case reports and therapeutic use of drugs in hospitalized and clinic patients. Prescription writing, pharmacy, and toxicology considered in both the lecture and laboratory work. Lectures, 4 hours a week; laboratory, 3 hours a week. 168 hours.

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.

Physiology

JOHN M. BROOKHART, Chairman of Department

Professor

JOHN M. BROOKHART

Associate Professors

BENJAMIN B. ROSS

JOSEPH B. TRAINER

Assistant Professors

PAOLO CREPAK

ALFRED J. RAMPONE

Instructor

EUGENE A. LENTINI

*Clinical Research Associates*GEORGE M. AUSTIN
MONTE A. GREER

WILLIAM L. HARTMANN

DONALD M. PITCAIRN
MOSES E. STEINBERG*Research Fellow*

TAKAHISA HIRAO

Student Assistants

WESLEY A. COOK, JR.

ROLF R. ENGEL
WALTER R. SCHRECK

MYRON E. SHIRASU

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 411. 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. GRISWOLDCHARLES N. HOLMAN
*DANIEL H. LABBY
HOWARD P. LEWISWALTER C. LOBITZ
EDWIN E. OSGOOD
ROY L. SWANK*Clinical Professors*BLAIR HOLCOMB
LYLE B. KINGERYMERL L. MARGASON
HOMER P. RUSHTHOMAS S. SAUNDERS
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
FRANK W. CROWE
JOYLE DAHL
ROBERT S. DOWGEORGE B. LONG
MERLE W. MOORE
MATTHEW C. RIDDLE
LEONARD W. RITZMANN
PHILIP SELLINGJOHN E. TUHY
FRANKLIN J. UNDERWOOD
SHELDON A. WALKER
ZOLTON T. WIRTSCHAFER*Assistant Professors*JAMES H. AUSTIN
DANIEL M. BACHMANFARRINGTON DANIELS, JR.
MYRON R. GROVER, JR.
BERNARD PIROFSKYJAMES T. SPEROS
JANICE R. STEVENS

* On leave of absence for Commonwealth Fund Fellowship at University of Strasbourg Medical School, Strasbourg, France.

† On leave of absence for Public Health Service (National Heart Institute) Research Fellowship at the Galton Laboratory of Eugenics, University College, London, England.

Assistant Clinical Professors

GEORGE A. BOYLSTON
AUBREY M. DAVIS
EARL D. DuBOIS
WILLIAM P. GALLEN
MORTON GOODMAN
HULDRICK KAMMER

FREDERICK A. J. KINGERY
JOHN J. KRYGIER
ROBERT E. MASS
JOHN CLIFFTON MASSAR
JAMES F. MORRIS
FRANK PERLMAN

LEON F. RAY
CHARLES E. REED
LEONARD B. ROSE
EDWARD E. ROSENBAUM
WILLIAM J. SWETT
CHARLES P. WILSON

Associate

JACK H. FELLMAN

Clinical Associates

HOWARD E. ALLEN
EDMUND H. BERGER
ARTHUR M. BERGMAN
C. CONRAD CARTER
CHARLES W. COFFEN
WILLIAM COHEN
RUDOLPH M. CROMMELIN
DONALD E. FORSTER
MARTIN F. GILMORE
MARVIN C. GOLDMAN
THOMAS S. HEALY
MARCUS M. HORENSTEIN

JAY C. HOYT
WILLIAM W. HURST
MARION L. KRIPFAEHNE
WILBUR L. LARSON
AARNE J. LINDGREN
CHARLES E. LITTLEHALES
ERNEST T. LIVINGSTONE
LENIER ARTHUR LODMELL
ROY R. MATTERI
GORDON L. MAURICE
GUY R. MCCUTCHAN
RAYMOND A. McMAHON

JOHN J. MURPHY
DONALD E. OLSON
OTTO C. PAGE
JOSEPH F. PAQUET
HEYES PETERSON
GEORGE M. ROBINS
MARVIN SCHWARTZ
WILLIAM C. SCOTT
JOHN L. SOELLING
JOHN W. STEPHENS
DAVID K. TAYLOR
JOHN D. WELCH

Instructors

ROBERT H. BIGLEY

LOUIS LINO

ROBERT D. MICHEL

Clinical Instructors

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

JAMES E. HOLLAND
RICHARD H. KOSTERLITZ
LEWIS J. KRAKAUER
MERLE M. KURTZ
WILLIAM M. LAIDLAW
L. WILLIAM LARSON
RAY S. LOBB
LAURENCE E. MACDANIELS
STEPHEN W. MAKES
DENNIS E. McCAFFERTY
DONALD P. MCGREEVEY
NORBERT E. MEDVED
RUTH L. MERCER (Dietetics)
PHILLIP L. NUDELMAN
JOHN D. O'HOLLAREN
JOHN W. PARTRIDGE
NORRIS H. PERKINS
CARL A. PETERSON
CHARLES T. PINNEY
ROBERT G. PITTENGER

RALPH B. REAUME
PHILLIP J. REILLY
JAMES A. RILEY
ROBERT E. RINEHART
WAYNE R. ROGERS
BEATRICE K. ROSE
WILL L. SENDERS
JOHN M. SHAW
FREDERIC W. SMITH
NORRIS D. SMITH
GEORGE V. SQUIRE
JOHN H. STALNAKER
RALPH R. SULLIVAN
CHARLES W. WATKINS
WARREN S. WELBORN
*KENNETH C. WILHELMI
CEILOUS L. WILLIAMS, JR.
RICHARD D. WILSON
GORDON T. WOLFE
JAMES V. WOODWORTH

Research Assistant

JACK H. HUTCHINSON

Fellows

MILES J. EDWARDS

DONALD G. KASSEBAUM

Residents

JODY ANDERSON
MICHAEL D. BAIRD
WILLIAM E. DRIPS, JR.
ROBERT D. GOLDMAN

RICHARD L. GRANT
ROBERT H. GRAY
WALTER E. MEIHOFF

CLIFFORD S. MELNYK
WILLIAM R. NEAL
GEORGE A. PORTER
AGNAR A. STRAUMFJORD

Allergy

MERLE W. MOORE, Head of Division

Associate Clinical Professor

MERLE W. MOORE

Assistant Clinical Professors

FRANK PERLMAN

CHARLES E. REED

Clinical Associates

ROY R. MATTERI

GEORGE M. ROBINS

* On leave of absence.

Clinical Instructors

GEORGE V. SQUIRE

GORDON T. WOLFE

Cardiology

HERBERT E. GRISWOLD, Head of Division

Professors

HERBERT E. GRISWOLD

HANCE F. HANEY

Clinical Professor

HOMER P. RUSH

Associate Clinical Professors

LEONARD W. RITZMANN
PHILIP SELLING

FRANKLIN J. UNDERWOOD

Assistant Clinical Professors

WILLIAM P. GALLEN
LEONARD B. ROSE

WILLIAM J. SMETT

Clinical Associates

WILLIAM W. HURST

GORDON L. MAURICE
MARVIN SCHWARTZ

Clinical Instructors

LEONARD M. GOLDBERG

JAMES A. RILEY

WAYNE R. ROGERS

Fellows

ZAVIN A. ADROUNY

GEORGE A. PORTER

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 Professor

JAMES F. MORRIS

Clinical Associates

WILLIAM COHEN

DONALD E. OLSON

Instructor

ROBERT D. MICHEL

Clinical Instructor

PETER J. GALANTE

Diabetes and Metabolism

*DANIEL H. LABBY, Head of Division

Professor

*DANIEL H. LABBY

Assistant Clinical Professor

HULDRICK KAMMER

Clinical Associates

RUDOLPH M. CROMMELIN
MARCUS M. HORENSTEIN

ERNEST T. LIVINGSTONE

OTTO C. PAGE
JOHN W. STEPHENS

Clinical Instructor

ROBERT L. HARE

* On leave of absence for Commonwealth Fund Fellowship at University of Strasbourg Medical School, Strasbourg, France.

Endocrinology

MONTE A. GREER, Head of Division

Professor

DANIEL H. LABBY

Associate Professor

MONTE A. GREER

Assistant Clinical Professor

HULDRICK KAMMER

Clinical Associate

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*MARVIN C. GOLDMAN
THOMAS S. HEALYCHARLES E. LITTLEHALES
LENIER ARTHUR LODMELLHEYES PETERSON
JOHN L. SOELLING*Clinical Instructors*

LEWIS J. KRAKAUER

NORBERT E. MEDVED

FREDERIC W. SMITH

Hematology

EDWIN E. OSGOOD, Head of Division

Professor

EDWIN E. OSGOOD

Associate Professors

*ROBERT D. KOLER

DEMETRIOS A. RIGAS
(Experimental Medicine)

ARTHUR J. SEAMAN

Assistant Professor

BERNARD PIROFSKY

Assistant Clinical Professor

ROBERT E. MASS

Instructor

ROBERT H. BIGLEY

Clinical Instructor

ROBERT G. PITTENGER

Research Associate

JOHN H. BROOKE

Research Assistant

PATRICIA VANBELLINGHEN

Resident

LIEN-FU LO

* On leave of absence for Public Health Service (National Heart Institute) Research Fellowship at the Galton Laboratory of Eugenics, University College, London, England.

Neurology

ROY L. SWANK, Head of Division

Professor

ROY L. SWANK

Clinical Professor

MERL L. MARAGASON

Associate Clinical Professor

ROBERT S. DOW

Assistant Professors

JAMES H. AUSTIN

JANICE R. STEVENS

Associate

JACK H. FELLMAN

Clinical Associate

C. CONRAD CARTER

Instructor

LOUIS LINO

Clinical Instructors

IRA A. MANVILLE

PHILIP J. REILLY

Research Associates

AAGOT GRIMSGAARD

VICTOR MILSTEIN

Fellows

NAGAO WAKABAYASHI

HIDEO YAMAMOTO

Residents

ALAN H. ADAMS

GEORGE P. DAUZIER

Dermatology

WALTER C. LOBITZ, JR., Head of Division

Professor

WALTER C. LOBITZ, JR.

Clinical Professors

LYLE B. KINGERY

THOMAS S. SAUNDERS

Associate Clinical Professors

FRANK W. CROWE

JOYLE DAHL

SHELDON A. WALKER

Assistant Professor

FARRINGTON DANIELS, JR.

Assistant Clinical Professors

FREDERICK A. J. KINGERY

JOHN CLIFFTON MASSAR

LEON F. RAY

*Clinical Instructors*BRUCE R. CHENOWETH
DAVID C. FRISCH

JOHN M. SHAW

RALPH R. SULLIVAN
CHARLES W. WATKINS*Research Associate*

DORIS E. BROPHY

Research Assistants

MARY C. CAMPBELL

SAM SILVERSTEIN

G. RICHARD WALLMANN

*Residents*JALAL BAMSHAD
LARRY BOSLEY

HUBERT D. CHINN

DENNIS D. DAVENPORT
ALBERT E. LARNER**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. MUELLER
DONALD R. PORTER
DONALD G. REESE

NORMAN H. RICKLES
CHARLES E. SMITH
THEODORE SUHER
RONALD K. TALL
WILBUR N. VAN ZILE

Clinical Instructors

ROBERT A. BISSETT
BARNEY C. BYBEE
GEORGE J. COLLINGS
CLAUDE R. CRITTENDEN

J. D. FINLAY
GEORGE E. GULICK
THOMAS D. HOLDER
FLOYD G. MATTSON
DUANE R. PAULSON

ROBERT 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 Veterans 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.

Conference with the medical resident and staff for the presentation of cases of special interest in the Hospital and Chest Outpatient Service, supplemented by cases from private practice which present current difficult problems in diagnosis and treatment.

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.

Demonstrations and conferences; primary tuberculosis in children. (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 10 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 6 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, symptomology, 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. 6 hours a week for 6 weeks; 36 hours.

PSYCHIATRY

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 W. EVANS

KENNETH D. GAVER

JOHN L. HASKINS

Instructors

LENA KENIN

Clinical Instructors

SIEGFRIED R. BERTHELSDORF

RALPH CRAWSHAW

HENRY H. DIXON, JR.

NORMAN M. JANZER

DONALD MCKINLEY

DUNCAN A. McLAUGHLAN

CARL V. MORRISON

C. RUSSELL PARKER

WAYNE M. PIDGEON

Residents

DONALD D. DENNEY

MARY ANNE DE WITT

VICTOR GREGORY

IVER F. SMALL

GERHARD B. HAUGEN

JAMES G. SHANKLIN

I. JOYCE SMALL

G. LEE SANDRITTER

FRANK SISLER

WILLIAM W. THOMPSON

JOHN H. WATERMAN

ARLEN QUAN

Child Psychiatry

Associate Clinical Professor

CHARLES BRADLEY

Assistant Professor of Medical 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

MARVIN GREENBAUM

JOHN O. KANGAS

RUTH G. MATARAZZO

Instructors

LEO A. PIROJNIKOFF

HARRIE F. HESS

JEANNE S. PHILLIPS

RICHARD F. THOMPSON

HARRY L. SASLOW

Clinical Instructors

ALLEN H. PARKER SUE A. WARREN ARTHUR N. WIENS

Research Assistants

ALBERT J. HALL, JR. ARNOLD M. LABBY BURT E. LAVACEK

Fellows

HERBERT L. COLLIER MARILYN McRAE

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. **Child 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.** 2 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.** 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.

Emotion, Motivation and Physiological Psychology.

History and Systems of Psychology.

Theories of Personality.

Learning.

Statistics and Research Design.

Radiology

CHARLES T. DOTTER, Chairman of Department

Professor

CHARLES T. DOTTER

Clinical Professor

WILLIAM Y. BURTON

Associate Professors

JAMES B. HAWORTH

VINCENT C. HINCK

Associate Clinical Professors

CLIFFORD V. ALLEN
(Radiotherapy)

LOUIS H. FRISCHE
SELMA HYMAN

J. ROBERT LEE

Assistant Clinical Professors

WAYNE G. ERICKSEN

MILTON D. HYMAN
JOHN WAYNE LOOMIS

JAMES R. RAINES

Clinical Associates

ARTHUR F. HUNTER

SHERMAN E. REES

IVAN M. WOOLLEY

Instructor

KURT R. STRAUBE

Clinical Instructors

IRVING J. HOROWITZ
ROBERT S. MILLER
*HARRY NEWMAN

GREGORY B. NICHOLS
ARTHUR L. OVREGAARD

GEORGE F. SAITERWHITE
FRED C. SHIPPS
WALTER R. STAHL

Instructor in Radiological Technique

HILDA E. DRUM

Residents

NORMAN A. AARESTAD
WERNER G. BERROTH
MARCIA K. BILBAO

JOHN C. ENGLISH
JOHN L. HOWIESON
JOHN THOMAS JENKINS

MELVIN P. JUDKINS
IAIN M. MACKAY
JOHN C. McMILLAN

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.

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.

* On leave for military service.

Public Health and Preventive Medicine

ADOLPH WEINZIRL, Chairman of Department

Professor

ADOLPH WEINZIRL

Associate Professor

CARL E. HOPKINS

Assistant Clinical Professor

RICHARD H. WILCOX

Clinical Instructors

F. SYDNEY HANSEN

THOMAS L. MEADOR

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

Associate Professor

WILLIAM W. KRIPPAEHN

SURGERY

Associate Clinical Professors

JOHN C. ADAMS
ALLEN M. BOYDEN
LESTER R. CHAUNCEY
WILLIAM S. CONKLIN

CHARLES E. GURNEY
CLIFFORD E. HARDWICK
MATTHEW MCK. RDIE

OLIVER M. NISBET
MILLARD S. ROSENBLATT
EDWARD W. ST. PIERRE
*ROBERT A. WISE

Assistant Professors

STANLEY W. JACOB

ALBERT STARR

Assistant Clinical Professors

CLARENCE W. BRUNKOW
RALPH M. DODSON
MARTIN A. HOWARD

RUSSELL L. JOHNSRUD
DONALD R. LAIRD
LAWRENCE M. LOWELL
JOSEPH W. NADAL

JOHN P. TROMMALD
R. MARK VETTO
WERNER E. ZELLER

Clinical Associates

ADALBERT G. BETTMAN
DARRELL C. BOLLAM
WINFRED H. BUEERMAN
JOHN G. P. CLELAND

ARCH DIACK
THOMAS J. FOX
JOHN M. GUISS

ROBERT W. MARCUM
J. KARL POPPE
JOSEPH M. ROBERTS
DAN N. STEFFANOFF

Instructor

WILLIAM S. FLETCHER

Clinical Instructors

JUSTIN A. AALPOEL
HARVEY W. BAKER
JOHN W. BASSETT
JACK E. BATTALIA
HARRY G. BECKWITH
FREDERIC H. BENTLEY
STANLEY F. BERQUIST
BRUCE H. BEST
WEBSTER CLAY BROWN
JAMES E. BUCKLEY
NATHAN J. CAMPBELL
SANTE D. CANIPAROLI
KEITH M. CLISBY
ROBERT M. COFFEY
HUGH DONALD COLVER
PETER DEWITT
ZANLEY C. EDELSON
LESTER H. EISENDORF
WILLIAM M. GARNJOBST
LEROY E. GROSHONG

J. GORDON GROUT
RUSSELL G. GUSTAVSON
BERNARD P. HARPOLE
JOHN F. HAYES
TOSHIO INAHARA
REINHOLD KANZLER
J. DUNN KAVANAUGH
G. PRENTISS LEE
VERNER V. LINDGREN
RICHARD H. LINDQUIST
MILTON C. LOCKWOOD
R. KENT MARKEE
DAVID C. MASON
WILLARD L. MATHIESON
DAVID B. MILLER, JR.
RAYMOND E. MOORE
(Physical Medicine)
WALTER R. MUNROE
H. MINOR NICHOLS
FRANK B. PACKARD

ROBERT W. PATTON
IRVING PUZISS
MELVIN M. REEVES
WALTER C. REINER
EDWARD E. RIPPEY
WILLIAM M. ROSENBAUM
WILLARD D. ROWLAND
AMBROSE B. SHIELDS
NATHAN SHLIM
PHILIP A. SNEDECOR
CHARLES H. SPARKS
RUDOLPH B. STEVENS
EUGENE S. SULLIVAN
WILLIAM R. SWEETMAN
ROBERT H. TINKER
ALVIN O. UHLE
EDWARD E. WAYSON
JAMES W. WILEY
NATHANIEL D. WILSON
GREGG D. WOOD

Research Fellow

ULRICH FREIHOFFER

Teaching Fellow

MALCOLM ROBINSON

Residents

JOHN C. BIGELOW
DAVID BLUMEN
CHARLES R. BOG
DONALD L. CLELAND
DANIEL L. DENNIS
GUY W. GORRELL, JR.

DAVID F. HICKOK
THOMAS K. HUNT
RODERICK L. JOHNSON
GARY H. LEAVERTON
DONALD F. MAHNKE

U. SCOTT PAGE
RICHARD G. SANDERSON
LESTER J. SCHWAEGLER, JR.
ROBERT L. WEBB
PAUL M. WALSTAD
DAVID R. WINTERNITZ

Orthopedic Surgery

WILLIAM E. SNELL, Head of Division

Clinical Professors

HARRY C. BLAIR

C. ELMER CARLSON

LEO S. LUCAS

Associate Professor

WILLIAM E. SNELL

* On leave of absence. Visiting Professor of Surgery, University of Shiraz Medical School, Chief, Surgical Service, Nemazee Hospital, Shiraz, Iran.

E. GEORGE CHUINARD	<i>Associate Clinical Professors</i> JOE B. DAVIS LAWRENCE NOALL	FRANK B. SMITH
JOHN F. ABELE RODERICK E. BEGG	<i>Assistant Clinical Professors</i> RICHARD F. BERG	HAROLD E. DAVIS GURNEY A. KIMBERLEY
GEORGE W. COTTRELL JOSEPH H. GILL RICHARD J. HOPKINS	<i>Clinical Associates</i> ORVILLE N. JONES LAURENCE R. LANGSTON	JAMES A. MASON FAULKNER A. SHORT DONALD B. SLOCUM
THOMAS J. BOYDEN ROBERT E. BUCKMASTER PAUL CAMPBELL WINFRED H. CLARKE HOWARD L. CHERRY LAURENCE J. COHEN	<i>Clinical Instructors</i> H. FREEMAN FITCH ROBERT J. FRY CALVIN E. GANTENBEIN JOHN HARDER CALVIN H. KEST	FRANK E. McCASLIN, JR. W. ROBERT McMURRAY ROLLAND C. MERRIFIELD SAMUEL OSBORN ROBERT M. RANKIN EDWIN G. ROBINSON
RODNEY K. BEALS ROBERT F. CORRIGAN THOMAS A. EDWARDS	<i>Residents</i> NORMAN D. LOGAN DONN K. McINTOSH RALPH E. PETERSON	MICHAEL R. RASK KEITH TAYLOR RICHARD C. ZIMMERMAN

Urology

CLARENCE V. HODGES, Head of Division

Professor

CLARENCE V. HODGES

Clinical Professor

JOHN R. HAND

Associate Clinical Professors

J. SCOTT GARDNER

THOMAS R. MONTGOMERY

Clinical Associates

THOMAS A. DAVIS

JOHN F. LARSELL

THEODORE H. LEHMAN

Instructor

ANIS M. BEHNAM

*Clinical Instructors*G. DONALD BEARDSLEY
CHARLES E. CATLOW, JR.
EMERSON J. COLLIER
ROBERT B. GREENE, JR.SABERT A. HOTT, JR.
CURTIS A. MACFARLANE
ROBERT J. MOOREDAVID P. PAULL
ARNOLD RUSTIN
GERALD W. SCHWIEBINGER
JOHN G. VANDENBERG*Residents*JOHN B. AUERBACH
JERRY D. GIESY
HARALAMBOS J. HALIKIOPOULOSGERALD N. HECKER
ROBERT L. KALEZJOHN M. OCKER
IVAN L. SANDOZ
RALPH V. STAGNER**Anesthesiology**

FREDERICK P. HAUGEN, Head of Division

Professor

FREDERICK P. HAUGEN

Assistant Professors

JOHN CLARENCE ROTH

REX J. UNDERWOOD

*Clinical Instructors*JOHN O. BRANFORD
DONALD M. BRINTON

DONALD P. DOBSON

J. COLEMAN EDWARDS
PAUL E. SCHAFF*Residents*ROBERT J. ALZNER
ANNELENE J. AMIRANA
C. STEPHEN BENNETTROY M. CLARK
DAVID GOWING
KENNETH W. HILLYEREVERETT E. JONES
RAYMOND R. MAAS
JOE S. NAEMURA**Neurosurgery**

GEORGE M. AUSTIN, Head of Division

Professor

GEORGE M. AUSTIN

Clinical Professor

JOHN RAAF

Clinical Associates

EDWARD W. DAVIS

EDWARD K. KLOOS

KENNETH E. LIVINGSTON

Instructors

JOHN GORDON ROTH

CHEN I. TSAI

Clinical Instructors

JOHN P. DENNIS

RAY V. GREWE
BRUCE N. KVERNLAND

HAROLD D. PAXTON

*Residents*CARL J. BELBER
LEWIS J. BROWN

MOHAMMED RAFIULLAH

JACK E. SINCLAIR
SHOKEI YAMADA**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 YEARSur 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 patho-physiologic 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.** 9½ hours, one section each term.

Orientation lecture, 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. 228 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 YEARSur 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 treat-

ment, 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 6 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 regional diagnosis and treatment of orthopedic conditions. 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 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.

Discussions and demonstrations of the altered neurophysiologic background and anatomy encountered in patients with neurosurgical problems. Emphasis placed on student interest and participation in discussion of the basic concepts involved. 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 Professor

ROBERT P. BURNS

Assistant Clinical Professors

JOHN P. KEIZER
THOMAS E. TALBOT

ROBERT W. ZELLER

Clinical Associates

GEORGE P. LYMAN
EDWARD N. MCLEAN

JOSEPH I. MORELAND
HENRY E. SCHLEGEL

Clinical Instructors

ROBERT C. COWGER

RICHARD E. MARKLEY
PETER P. ROWELL

Research Associate

ELLEN L. TALMAN

Residents

ROBERT F. HANEY
RICHARD A. LALLI

PAUL ROBINSON
THEODORE E. WILLS

ROBERT V. HILL

ROBERT E. FISCHER
ALFRED J. KREFT

PAUL F. BAILEY
ROBERT H. BEDROSSIAN

W. LEIGH CAMPBELL
ROY J. ELLSWORTH

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. DEWEESE, Acting Chairman of Department

Clinical Professors

PAUL BAILEY
GEORGE E. CHAMBERLAIN

DAVID D. DEWEESE

ROBERT M. HANSEN
LESTER T. JONES

Assistant Clinical Professors

WILLIAM M. BOLTON
LEWIS W. JORDAN

CLIFFORD KUHN

DONALD C. METTLER
BRUCE L. TITUS

Clinical Associates

H. VICTOR ADIX
PAUL B. MYERS

GEORGE C. SAUNDERS

T. GLENN TEN EYCK
RALPH N. WESTFALL

Clinical Instructors

DONALD H. HOLDEN

JACK B. MILLER
ALEXANDER E. PETROFF

KENNETH D. SMYTH

Residents

PATRICK J. DOYLE
BYRON L. FORTSCH

RICHARD HODGSON
DARRELL W. LANDREY

LYNN B. ROBINSON
RICHARD L. SWANSON

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

Professors

RALPH C. BENSON

HOWARD J. TATUM

Clinical Professor

HOWARD C. STEARNS

Associate Professor

RAPHAEL B. DURFEE

Associate Clinical Professors

CLIFFORD FEARL

GUNNAR E. C. NELSON

WILLIAM M. WILSON

GOODRICH C. SCHAUFFLER

Assistant Professors

*OTTO R. EMIG

FRANK SHUBECK

Assistant Clinical Professors

RODERICK C. BLATCHFORD

DUNCAN R. NEILSON

RONALD P. NEILSON

Instructor

TOSHIO FUJIKURA

Clinical Instructors

THEODORE M. BISCHOFF
MELVIN W. BREESE
CHARLES L. CHAVIGNY
C. LOUISE CLANCY
RICHARD W. FRANKLIN
W. RONALD FRAZIER
MALCOLM E. FULLER
REMY W. FULSHER
ROBERT B. GREENE
GEORGE S. HARA
WILLIAM L. HARTMANN

PHILIP H. HENDERSON, JR.
WILLIAM W. HICKS, JR.
ROBERT C. JACKSON
DAVID W. JAMES
BENJAMIN B. JONES
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
MERRILL W. RUSHER
QUINTEN SCHERMAN
GORDON N. SMITH
PAUL R. SPIERLING
WILLIAM O. THOMAS
THOMAS A. TREANOR
JAMES M. WHITELEY

* On leave of absence for Public Health Service Fellowship at University of Washington.

Residents

JAMES A. AFFLECK
CLARENCE BENSON

ROBERT P. DOUGHTON
GEORGE S. MCCAN

RAYMOND D. RICE
ERNEST 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, breech extraction, cesarean 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 Hospital. 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. Attendance at Deliveries. 2 hours, any term.

Each student is required to be in attendance at and observe twelve deliveries in Multnomah Hospital, including delivery of patients in the hospital and attendance upon mother and child after deliveries. Each student is required to participate in at least six deliveries during an assigned period. Prerequisite: Obs 615. 48 hours.

FOURTH YEAR

Obs 670. Obstetrics Outpatient Clinic. 3½ hours, one section each term.

Examination of pregnant women, pelvimetry, and instructions in prenatal and postpartum 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.

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 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.

Obs 690. Obstetrics Outpatient Clinic. Any term, hours to be arranged in accordance with 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

WILLIAM M. CLARK, JR. RUDOLF C. H. ENGEL JAMES E. ODELL
GEORGE W. DANA RICHARD L. SLEETER

Associate Clinical Professors

S. GORHAM BABSON MORRIS L. BRIDGEMAN ALVIN D. WERT
SCOTT GOODNIGHT

Assistant Professor

HEROLD S. LILLYWHITE
(Speech Pathology)

Assistant Clinical Professors

CARL G. ASHLEY QUINTEN W. COCHRAN EDGAR M. RECTOR
JOHN H. BENWARD WALTER A. GOSS PAUL E. SHICK, JR.
ROBERT W. BLAKELEY JOHN A. LARRABEE LENDON H. SMITH
(Speech Pathology and Hearing) JOHN ARTHUR MAY JAMES P. WHITTEMORE

Instructors

KATHRINE S. FRENCH VICTOR D. MENASHE ROBERT L. TIPS
(Anthropology) WILLIAM W. ORNDUFF NORTON B. YOUNG
ROBERT J. MEECHAN MAX J. STEPHENSON (Audiology)

Clinical Instructors

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

Research Fellow

GEORGE R. KERR

Residents

PEGGY J. COPPLE LOUIS R. MCKAEL JAMES L. SCHNELLER
JOHN E. FINCH GEORGE M. MAHAN DAVID L. SESSIONS

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 and medical technology.

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 not essential for admission to graduate studies, but must be demonstrated before the degree of Doctor of Philosophy is granted. 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 61, 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 58.

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 100 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 the 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 \$15.00 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.

School of Nursing

THE UNIVERSITY OF OREGON SCHOOL OF NURSING, located on the campus of the University of Oregon Medical School, Portland, offers three programs:

(1) The *Basic Degree Program*, leading to the Bachelor of Science in Nursing degree, prepares professional nurses who give total patient care in hospitals, public health agencies, and in the community, who assume leadership of other nursing personnel, and who possess the requirements for advanced study in teaching supervision, administration, and consultation. This program is four academic years and one summer term in length.

For the freshman year the student enrolls in an accredited college or university for work in liberal arts and basic sciences.

For the sophomore year, the student nurse transfers to the School of Nursing, Portland, where she continues her liberal arts studies along with professional nursing courses. Student nurses receive their clinical experience in the teaching hospitals and clinics of the Medical School—the Medical School Hospital, Multnomah Hospital, the University State Tuberculosis Hospital, and the Outpatient Clinic. Psychiatric and public health nursing experience is secured in off-campus facilities—in the Oregon State Hospital, Salem, and in selected health departments and agencies.

(2) The *Baccalaureate Degree Program for Registered Nurses*, with a major in general nursing, is planned for graduates of diploma-school programs. The courses in the general nursing major contribute to the broadening and strengthening of the student's previous preparation and assist in the further development of professional competence. The curriculum also provides the opportunity for a broadened foundation in general education, liberal arts, and the behavioral sciences.

(3) The *Master's Degree Program*, leading to a degree of Master of Science in Nursing, provides advanced professional preparation for the qualified graduate nurse who holds a bachelor's degree from an accredited college or university. A major in teaching is offered.

A catalog containing detailed information about the programs of the School of Nursing may be obtained by writing to the Director, University of Oregon School of Nursing, Portland 1.

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 March 1.

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, uniforms, and incidental fees. 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 pro-

cedures, 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 Instructor in Radiological Technique, 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. LIUM

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: three years of college work,* with: 24 term hours in biology, including one full academic year of general biology and/or zoology; 24 term hours of chemistry, which must include one full academic year of general inorganic chemistry (survey courses in chemistry are not acceptable); 4 term hours of college mathematics. The three years of college preparation may be obtained at any accredited college. The applicant's credentials must be approved by the Registry prior to admission.

Classes begin with the fall term and 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.

* Students entering the medical technology program prior to October 1, 1961 may be admitted with two years of college preparation.

Application blanks for admission may be obtained from the Registrar of the 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.....	36.00	108.00
Building fee	8.00	24.00
Incidental fee (student health service)	21.00	63.00
Total for Oregon residents	\$ 85.00	\$255.00
Total for nonresidents who pay an additional \$55.00 per term.....	\$140.00	\$420.00

Medical technology students pay the "special fees" listed on pages 58-59—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
	—
	16

Winter Term

MT 411. Clinical Bacteriology	6
MT 425. Clinical Biochemistry	6
MT 431. Special Hematology	3
	—
	15

Spring Term

MT 414. Urinalysis	4
MT 420. Histological Technique	4
MT 436. Applied Serology	5
MT 437. Clinical Parasitology	3
	—
	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, gastrometric 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 the 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.

ELECTIVE COURSES

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

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

MT 507. Seminar. Any terms, hours to be arranged.

Enrollment and Degrees

Degrees Conferred June 10, 1960

Doctor of Medicine

GRADUATE

INTERNSHIP

John Theodore Abraham, Jr.....Good Samaritan Hospital, Phoenix, Ariz.
 Royal Grover Aubrey.....U. S. Naval Hospital, Bremerton, Wash.
 Roger Alan Barnhart.....Madigan General Hospital, Tacoma, Wash.
 John Alan Bearc.....Doctors Hospital, Seattle, Wash.
 Russell Lee Belknap.....University of Oregon Medical School Hospitals
 and Clinics, Portland, Ore.
 Ernest Jack Benner.....University of Oregon Medical School Hospitals
 and Clinics, Portland, Ore.
 Lester Leo Bergeron.....University of Oregon Medical School Hospitals
 and Clinics, Portland, Ore.
 Walter C. Bernards.....Walter Reed General Hospital, Washington, D.C.
 David Elmer Billings.....U.S. Naval Hospital, Great Lakes, Ill.
 Richard Maurice Burns.....General Hospital of Riverside County, Arlington, Calif.
 Robert Bryce Campbell.....Emanuel Hospital, Portland, Ore.
 Charles BoDine Carter.....Mary Hitchcock Memorial Hospital, Hanover, N.H.
 Juris U. Cilnis.....Receiving Hospital, Detroit, Mich.
 William Vance Coyner.....University of Oregon Medical School Hospitals
 and Clinics, Portland, Ore.
 Richard Vincent Crisera.....St. Vincent's Hospital, Portland, Ore.
 Dennis Gary Crockett.....Los Angeles County Hospital, Los Angeles, Calif.
 Clayton H. deBruin.....Good Samaritan Hospital, Portland, Ore.
 John Michael Deeney.....University of Virginia Hospital, Charlottesville, Va.
 Eldon LeRoy Erickson.....University of Oregon Medical School Hospitals
 and Clinics, Portland, Ore.
 William Forest Farr.....U.S. Naval Hospital, Oakland, Calif.
 James Archibald Fraser.....University of Oregon Medical School Hospitals
 and Clinics, Portland, Ore.
 Fredrick T. Frannfelder.....University of Chicago Clinics, Chicago, Ill.
 Pearl Rocca Garofalo.....Good Samaritan Hospital, Portland, Ore.
 Robert Harry Gustafson.....St. Vincent's Hospital, Portland, Ore.
 Archie Y. Hamilton.....San Joaquin General Hospital, Stockton, Calif.
 Chris Louis Harrigfeld.....Sacramento County Hospital, Sacramento, Calif.
 Joseph Ivan Hewitt.....Orange County General Hospital, Orange, Calif.
 Keith Davis Holmes.....Walter Reed General Hospital, Washington, D.C.
 Lynn Sherman Husband.....Good Samaritan Hospital, Portland, Ore.
 Wesley Ray Jacobs.....University of Oregon Medical School Hospitals
 and Clinics, Portland, Ore.
 Joanne Jene.....Philadelphia General Hospital, Philadelphia, Penn.
 Robert Harding Jensen.....Good Samaritan Hospital, Portland, Ore.
 David William Johnson.....U.S. Naval Hospital, Bremerton, Wash.
 Albert R. Kearns.....Los Angeles County Hospital, Los Angeles, Calif.
 Darwin Carl Lehfeltd.....U.S. Naval Hospital, Camp Pendleton, Calif.
 John Lewis Linn.....Emanuel Hospital, Portland, Ore.
 Robert Charles Loomis.....University of Oregon Medical School Hospitals
 and Clinics, Portland, Ore.
 Laury Edward Lundberg.....District of Columbia General Hospital, Washington, D.C.
 Richard Bernard Lyons.....University of Oregon Medical School Hospitals
 and Clinics, Portland, Ore.
 Robert Alan McFarlane.....Receiving Hospital, Detroit, Mich.
 Michael Joseph Miller.....University of Oregon Medical School Hospitals
 and Clinics, Portland, Ore.
 Lew Barclay Myers.....University of Oregon Medical School Hospitals
 and Clinics, Portland, Ore.
 Rodger Michael O'Harra.....Good Samaritan Hospital, Phoenix, Ariz.
 Richard Paul Panian.....University of Oregon Medical School Hospitals
 and Clinics, Portland, Ore.

Clarence David Peters.....Good Samaritan Hospital, Phoenix, Ariz.
 Richard Harvey Phillips.....Emanuel Hospital, Portland, Ore.
 William Robert Pollard.....Tripler Army Hospital, Honolulu, Hawaii
 Donald Dale Ramsthe.....San Bernardino County Charity Hospital,
 San Bernardino, Calif.
 Keith Alden Robertson.....University of Oregon Medical School Hospitals
 and Clinics, Portland, Ore.
 T. James Robnett.....Los Angeles County Hospital, Los Angeles, Calif.
 Richard Allen Romaine.....Norfolk General Hospital, Norfolk, Va.
 Robert Adolph Roth.....Sacramento County Hospital, Sacramento, Calif.
 Richard Bradley Sack.....University Hospital, Seattle, Wash.
 William H. Sack.....University of California Hospitals, San Francisco, Calif.
 James Alan Saunders.....Tripler Army Hospital, Honolulu, Hawaii
 Alexander John Schleuning, II.....University of Oregon Medical School Hospitals
 and Clinics, Portland, Ore.
 John David Sigurdson.....Gorgas Hospital, Balboa Heights, Canal Zone
 Rosemary Wright Stevens.....University of Oregon Medical School Hospitals
 and Clinics, Portland, Ore.
 John Harry Stone.....Ancker Hospital, St. Paul, Minn.
 William Richard Stoner.....General Hospital of Riverside County, Arlington, Calif.
 George Robert Suckow.....Good Samaritan Hospital, Portland, Ore.
 Howard H. Sussman.....University of Oregon Medical School Hospitals
 and Clinics, Portland, Ore.
 Kenneth Ian Sutherland.....University of Oregon Medical School Hospitals
 and Clinics, Portland, Ore.
 Norio Takayama.....General Hospital of Fresno County, Fresno, Calif.
 K. Nolan Tanner.....Letterman General Hospital, San Francisco, Calif.
 James K. Tsujimura.....Good Samaritan Hospital, Portland, Ore.
 Andrew Neal Urbanc.....U.S. Naval Hospital, San Diego, Calif.
 Vance Vaupel.....General Hospital of Riverside, Arlington, Calif.
 Jerry Wetherell.....San Bernardino County Charity Hospital, San Bernardino, Calif.
 Ralph Edward Whiting.....General Hospital of Fresno County, Fresno, Calif.
 Homer Llaroy Winslow.....U.S. Naval Hospital, Camp Pendleton, Calif.
 Richard Kramer Woodward.....Good Samaritan Hospital, Portland, Ore.

Doctor of Philosophy

John Clinton Elwood Nicholas E. Kontaxis Madhuker A. Pathak

Master of Science

Walter C. Bernards	Joan Priscilla Payne
Charles BoDine Carter	T. James Robnett
Keith Davis Holmes	Richard Bradley Sack
Lynn Sherman Husband	William H. Sack
Wesley Ray Jacobs	John David Sigurdson
Richard Bernard Lyons	Howard H. Sussman
Lew Barclay Myers	Andrew Neal Urbanc

Enrollment 1959-60

Medical Students

First-Year Class

Joseph G. Antony	Robert W. Clark	Edward L. Hargis
Hollis L. Auger	Thomas R. Conklin	Stanley G. Harris
Jerry J. Bass	Miss S. Hope Davidson	Miss Artyce Lee Hawman
Duane G. Beard	Michael J. DeBenedetti	James D. Hearn
William S. Bechen	Carl M. Deming	George R. Hegstrom, Jr.
Robert M. Belanger	William R. Fore	Richard W. Hehn
James B. Borden	Richard C. Gilsdorf	Gene W. Heinrichs
Elroy D. Brandt	George A. Goodman	Hilbert J. Henrickson
Larry T. Brice	J. Catlin Goss, Jr.	Gerald R. Herrin
James A. Brooks	Larry J. Hall	Walter W. Hutchison
Douglas Chalmers	Samuel J. Hammond	Jay T. Johnson

George W. Keillor
Alvin M. Klass
Donald J. Knepp
Robert C. Koch
Marshall L. Koonce
Ben R. Kuhner
Maung M. Kun
Russell K. Lawson
Willard R. Lilly
Gerald T. Lisac
Kenneth K. Magee
Charles L. Martinson
James W. Mortensen
Daniel W. Nebert
William B. Ness
Walter E. Norton

James E. O'Dea
Donald R. Olson
Larry M. Ottis
Michael P. Pulos
David D. Reeder
Mrs. Esther H. Robinson
Banchert Saetan
C. Dudley Saul
Richard S. Scott
Jon A. Shaw
Steven D. Sholkoff
Kenneth M. Stevens
Robert C. Stewart
Calvin T. Tanabe
James R. Ten Eyck

Richard P. Tesoro
David S. Todd
Per H. Tonning
Gerold van der Vlugt
Thomas A. Van Veen
Raul A. Vernal
Fredrick D. Wade
Theodore A. Walters
Harold H. Wesche
Jacob H. Wilson
Stuart D. Wilson
William S. Wilson
Laurence E. Winter, Jr.
Miss Sybil K. H. Wong
Richard C. Wright

Second-Year Class

Curtis D. Adams
James W. Asaph
Dee D. Atkinson
Herbert C. Baker
Roger M. Bandy
Larry L. Bassinger
Richard W. Beighle
C. Sabin Belknap
John D. Bischel
Dudley M. Bright
Howard A. Buell
Tong C. Cheah
Wesley A. Cook, Jr.
Lyle E. Creclius
James C. Dinneen
Edwin C. Everts
Richard W. Fieber
R. Clifford Flanders
John T. Flaxel
Arthur R. Fry, Jr.
Thomas A. Gail
John M. Gevurtz
James H. Gilbaugh, Jr.
Richard T. Gourley
James A. Haaland

Arthur L. Hauge
Leonard L. Hays
H. Douglas Hering
Curtis R. Holzgang
Leslie W. Inman
John G. Iwakiri
Edwin C. James
R. Marshall Jelderks
Gary C. Jenkins
Robert G. Kaufman
Alan L. Keaton
Philip J. Keizer
Donald T. Kerr
Robert E. Kramer
Michael N. Landis
Arthur E. Lewis
Ronald G. Lewis
Thomas W. Mann
Carl Mark, III
Charles F. McMahon
Leo J. McMahon
James McNeese
Donald L. McNeill
Russell W. Newcomb
Richard O. Panzer

George N. Pasto
Roy E. Paulsen, Jr.
William G. Prescott
Charles E. Richardson
John P. Rundle
George R. Schoedinger, III
Walter R. Schreck
Donald H. Scott
Myron E. Shirasu
Lauren K. Stanley
Laddie E. Stover
Fillmore Y. Sue
John M. Talbot
Newton L. Thompson
Fredric J. Van Rheenen
Mrs. Joyce Asburry Walker
David A. Weeks
Lawrence H. Welter
David H. Wesche
Miss Mary Helen Wilder
Eugene L. Wonderlick
Oak Chee Wong
Oakland Wong
Eldon W. Younger
I. Minter Yount

Third-Year Class

Robert A. Beatty
Samuel T. Bennett
Charles A. Bonnett
Richard P. Bunch
Douglas M. Burns
Jean E. Carter
George H. Caspar
Richard E. Cavalli
Gerald R. Christensen
Miss Marilyn A. Christensen
Gunnar E. Christiansen
Byong-Uk Chung
F. Lawrence Clare
Willis I. Cotel
Miss Mary Jane D. Dubinski
Lloyd O. Eckhardt
Raymond D. Endicott
Thomas E. Fagan
Bill B. Ferguson
Robert L. Fulwyler
Lee A. Gleason
Raymond F. Graap, Jr.
Keith F. Harcourt
Thomas J. Harrison

James T. Hartford
David L. Haugen
Donald H. Heithecker
Leonard L. Heston
Frederick C. Hoesly
Howard E. Johnson
Kit G. Johnson
Richard H. Johnson
Bruce B. Johnstone
Irwin E. Joslyn
Visut Kanchanapoomi
John C. Kelly
Harry Knudson
Delbert M. Kole
James C. Kraus
Richard P. Lewis
Merritt L. Linn
Dale L. W. Lowther
Joseph C. Macdonald
Malcolm M. Marquis
Winston E. Maxwell
Hideyo Minagi
Peter M. Nakamura
James S. Noble
Herald S. Nokes

Bruce A. Peters
Donald W. Pittman
James C. Puscas
Richard L. Redfern
Peter H. R. Roberts
Thomas L. W. Roe
Edward M. Schneider
Alan F. Scott
James M. Scott
Norman F. Seidenberg
Michael J. Skala
Perry R. Sloop, Jr.
Miss Esther A. Strom
John W. Tarnasky
Louis A. Taucher
Duane F. Taylor
Thomas L. Thornton
William M. Veatch
Vernon V. Viles
Ronald W. Vinyard
Graham M. Watkins
Daniel L. Wesche
David L. Wishart
Mrs. Rose K. L. Wong

Fourth-Year Class

John T. Abraham, Jr.
Royal G. Aubrey
Roger A. Barnhart
John A. Beare
R. Lee Belknap
Ernest Jack Benner
Lester L. Bergeron
Walter C. Bernards
David E. Billings
Richard M. Burns
Robert B. Campbell
Charles B. Carter
Juris Cilnis
William V. Coyner
Richard V. Crisera
Dennis G. Crockett
Clayton H. deBruin
John Michael Deeney
Rolf R. Engel
Eldon L. Erickson
William F. Farr
James A. Fraser
Fredrick T. Fraunfelder
Miss P. Rocca Garofalo
Robert H. Gustafson

Archie Y. Hamilton
Chris L. Harrigfeld
J. Ivan Hewitt
Keith D. Holmes
Lynn S. Husband
Wesley R. Jacobs
Miss Joanne Jene
Robert H. Jensen
David W. Johnson
Albert R. Kearns
Darwin C. Lehfeltd
John L. Linn
Robert C. Loomis
Laury E. Lundberg
Richard B. Lyons
Robert A. McFarlane
Sam L. Meyer
Michael J. Miller
Lew B. Myers
R. Michael O'Harra
Richard P. Panian
Clarence D. Peters
Richard H. Phillips
William R. Pollard
Donald D. Ramsthal

Kcith A. Robertson
T. James Robnett
Richard A. Romaine
Robert A. Roth
R. Bradley Sack
William H. Sack
James A. Saunders
Alexander J. Schleuning
Benjamin B. Shepherd
John D. Sigurdson
Miss Rosemary W. Stevens
John H. Stone
William R. Stoner
George R. Suckow
Howard H. Sussman
Kenneth I. Sutherland
Norio Takayama
K. Nolen Tanner
James K. Tasujimura
Andrew N. Urbanc
Vance Vaupel
Jerry Wetherell
Ralph E. Whiting
Homer L. Winslow
Richard K. Woodward

Graduate Students

John Bellinger
John Peter Bentley
John C. Elwood
Ulrich Freihoffer
Jaek G. Giesy

Nicholas E. Kontaxis
Alicia E. Marco
Russell R. MacDonald
David A. McClure
Madhukar Pathak

Joan P. Payne
Paul Telford Russell
Elaine Spencer
Donald G. Weber

Special Students and Auditors

James S. Bennett
Harvey A. Coates

Joan C. Hopper
George R. Kerr

Patricia Vanbellinghen

Medical Technology Students

Anita E. Barg
Dave Basaraba
Orron Blalock
Karen D. Bolton
Nancy K. Bond
Sonya B. Clark
Ruth L. Davis
Sally DeArmond
Earleen R. Edberg
Carolyn R. Gorham
Joyce E. Hudd

Francine A. Ireton
Helen C. Johnson
Margot J. Johnson
Patricia Johnson
Gladys R. Jongeling
Opal C. Jordan
Priscilla G. Kempton
Alice J. Layport
Nancy G. McKeown
Herman E. Mellish
Naimi Miura
Karen J. Munson

Carol Nelson
Irene M. Pierovich
Rochelle K. Plank
Herbert Z. Shiroma
Steve D. Snider
Carol E. Stoakes
Friedrich H. Stutz
Fred S. Tanabe
Marna I. Vaughn
Karla M. Waid
Linda K. Zell

Summary of Enrollment, 1959-60

	Men	Women	Total
First Year	75	4	79
Second Year	73	2	75
Third Year	69	4	73
Fourth Year	72	3	75
Total regular students	289	13	302
Graduate students	11	3	14
Special students and auditors	3	2	5
Medical technology students	7	27	34
Total	310	45	355