

CATALOG
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1962-63

University
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PORTLAND,
OREGON

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UNIVERSITY OF OREGON



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

UNIVERSITY OF OREGON MEDICAL SCHOOL

1962-63 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 State Board of Higher Education, following a survey of higher education in Oregon by the U. S. Office of Education, includes all the state-supported institutions of higher education. The several institutions are elements of an articulated system, parts of an integrated whole. The educational program is so organized as to distribute as widely as possible throughout the state the opportunities for general education and to center on a particular campus specialized, technical, and professional curricula closely related to one another.

The institutions of the State System of Higher Education are the University of Oregon at Eugene, Oregon State University at Corvallis, Portland State College at Portland, Oregon College of Education at Monmouth, Southern Oregon College at Ashland, Eastern Oregon College at La Grande, and Oregon Technical Institute at Klamath Falls. 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 Ashland, Corvallis, Eugene, La Grande, Monmouth, and Salem.

At Oregon College of Education, Southern Oregon College, and Eastern Oregon College, students may complete major work in teacher education or general studies or enroll in a preprofessional program.

Portland State College offers major work in general studies and selected liberal arts and professional fields, as well as certain preprofessional programs.

At the University of Oregon and Oregon State University, major curricula, both liberal and professional, are grouped on either campus in accordance with the distinctive functions of the respective institutions in the unified state system of higher education.

Terminal courses in technical and semiprofessional areas are offered at Oregon Technical Institute.

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

State Board of Higher Education

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

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

Oregon State System of Higher Education Officers

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FREDERICK M. HUNTER, Ed.D., LL.D.....	1935-1946
PAUL C. PACKER, Ph.D.....	1946-1950
CHARLES D. BYRNE, Ed.D.....	1950-1955
JOHN R. RICHARDS, Ph.D.....	1955-1961

Medical and Graduate Students

September 17, <i>Monday</i>	Registration
September 18, <i>Tuesday</i>	Instruction begins
October 1, <i>Monday</i>	Last day to register for full credit or to change courses
November 22, <i>Thursday</i>	Thanksgiving Day, holiday
December 8, <i>Saturday</i>	Fall term ends

December 10, <i>Monday</i>	Instruction begins
December 21, <i>Friday</i>	Last day to register for full credit or to change courses
December 23, 1962, through January 1, 1963.....	Christmas vacation
March 9, <i>Saturday</i>	Winter term ends

March 18, <i>Monday</i>	Instruction begins
April 1, <i>Monday</i>	Last day to register for full credit or to change courses
May 30, <i>Thursday</i>	Memorial Day, holiday
June 7, <i>Friday</i>	Commencement
June 8, <i>Saturday</i>	Spring term ends

June 10, <i>Monday</i>	Registration
June 10, <i>Monday</i>	Instruction begins
June 24, <i>Monday</i>	Last day to register for full credit or to change courses
July 4, <i>Thursday</i>	Independence Day, holiday
August 31, <i>Saturday</i>	Summer term ends

Medical Technology Students

September 10 through September 15.....Laboratory orientation
September 17, *Monday*.....Registration; instruction begins
October 1, *Monday*.....Last day to register for full credit
or to change courses
November 22, *Thursday*.....Thanksgiving Day, holiday
December 1, *Saturday*.....Fall term ends

December 3, <i>Monday</i>	Registration; instruction begins
December 17, <i>Monday</i>	Last day to register for full credit or to change courses
December 22, 1962, through January 1, 1963.....	Christmas vacation; laboratory instruction continues
February 23, <i>Saturday</i>	Winter term ends

March 4, *Monday*.....Registration; instruction begins

March 18, *Monday*.....Last day to register for full credit
or to change courses

May 18, *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

ROY E. LIEUALLEN, Ed.D., L.H.D., Chancellor, Oregon State System of Higher Education; Professor.

ARTHUR S. FLEMMING, LL.D., President, University of Oregon; Professor.

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

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

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

JOSEPH J. ADAMS, B.B.A., Assistant to the Dean; Assistant Professor.

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CHARLES N. HOLMAN, M.D., Medical Director and Administrator; Professor of Medicine.

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MYRON R. GROVER, M.D., Assistant Medical Director; Assistant Professor of Medicine.

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

Business Office

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

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Student Activities

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11

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LOLITA B. McELVENY, Assistant Circulation Librarian; Instructor.

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GWYNN C. BRICE, Administrative Assistant; Assistant Professor.

Alumni Office

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Animal Care Program

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LEROY F. ERICKSON, D.V.M., Instructor.

Research Instrument Service

GEORGE I. JOHNSTON, B.S., Director; Instructor.

Medical Illustration

CLARICE ASHWORTH FRANCONI, Medical Illustrator.

Photography

JAMES T. PHILLIPS, Photographer.

Printing

ALBERT L. BIGEJ, Supervisor.

Executive Faculty

ROY E. LIEUALLEN, Chancellor, State System of Higher Education; ARTHUR S. FLEMMING, President, University of Oregon; DAVID W. E. BAIRD, Dean of the Medical School; JOSEPH J. ADAMS, RALPH C. BENSON, JOHN M. BROOKHART, JACKSON T. CRANE, NORMAN A. DAVID, DAVID D. DEWEESE, CHARLES T. DOTTER, J. ENGLEBERT DUNPHY, ARTHUR W. FRISCH, JARVIS GOULD, CHARLES N. HOLMAN, TYRA T. HUTCHENS, HOWARD P. LEWIS, JOSEPH D. MATARAZZO, RICHARD W. OLMSTED, EDWIN E. OSGOOD, ANTHONY A. PEARSON, GEORGE SASLOW, RICHARD L. SLEETER, KENNETH C. SWAN, ADOLPH WEINZIRL, EDWARD S. WEST, WILLIAM A. ZIMMERMAN (secretary).

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Jones Lectureship—HOWARD P. LEWIS (chairman), HANCE F. HANEY.

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Student Faculty—Faculty Members: FREDERICK P. HAUGEN (chairman), HOWARD P. LEWIS, ANTHONY A. PEARSON, CLARE G. PETERSON, EDWARD S. WEST. Student members are elected for one- or two-year terms.

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Emeritus Faculty

HARRY C. BLAIR, M.D., Professor Emeritus of Orthopedic Surgery.

NOBLE WILEY JONES, M.D., Professor Emeritus of Medicine.

WILLIAM K. LIVINGSTON, M.D., Professor Emeritus of Surgery.

FRANK R. MENNE, M.D., Professor Emeritus of Pathology.

MERLE W. MOORE, M.D., Associate Professor Emeritus of Medicine.

EUGENE W. ROCKEY, M.D., Professor Emeritus of Surgery.

HARRY J. SEARS, Ph.D., Professor Emeritus of Bacteriology.

LAURENCE SELLING, M.D., Professor Emeritus of Medicine.

Faculty*

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

JOHN C. ADAMS, M.D., 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.

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

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

BERNADENE V. ALLEN, Ph.D., Instructor in Medical Psychology (1962).
B.A. (1956), Whitman; M.S. (1958), Ph.D. (1961), University of Portland.

CLIFFORD V. ALLEN, M.D., Professor of Radiology (1955).
M.D. (1933), Iowa.

ANNALENE J. AMIRANA, M.D., Instructor in Anesthesiology (1962).
M.D. (1959), University of Heidelberg, Germany.

JAMES S. ARNOLD, M.D., Clinical Associate in Pathology (1961).
B.S., M.D., (1948), Duke.

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

KURT W. AUMANN, M.D., Assistant Clinical Professor of 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., Associate Professor of Neurology (1955).
M.D. (1948), Harvard.

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

DANIEL M. BACHMAN, M.D., Associate 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.

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

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

RICHARD E. BAILEY, M.D., Assistant Professor of Medicine (1961).
B.A. (1951), M.D. (1955), Stanford.

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.

MICHAEL D. BAIRD, M.D., Instructor in Medicine. (1961).
B.S. (1954), Reed; M.S., M.D. (1957), Oregon.

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

MARY ELIZABETH BAPTIST, B.A., Instructor in Medical Technology (1950).
B.A. (1944), Montana State University.

JOHN W. BASSETT, M.D., Clinical Associate 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.

RODNEY K. BEALS, M.D., Instructor in Orthopedic Surgery (1961).
B.A. (1953), Willamette; M.D. (1956), Oregon.

*On leave of absence from September 1, 1962 to August 31, 1963. Visiting neurologist at All-India Institute of Medical Sciences, New Delhi, India.

- G. DONALD BEARDSLEY, M.D., Clinical Instructor in Urology (1954).
B.A. (1945), M.D. (1947), Oregon.
- CLARISSA H. BEATTY, Ph.D., Associate Professor of Biochemistry (1953).
B.A. (1941), Sarah Lawrence; M.S. (1942), Ph.D., (1945), Columbia.
- WILLIAM S. BECK, M.D., Clinical Instructor in Medicine (1960).
B.S. (1949), M.D. (1952), Northwestern.
- 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 Associate 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 Associate 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.
- 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.
- SIGFRIED R. BERTHELDORF, M.D., Clinical Instructor in Psychiatry (1957).
B.A. (1934), M.A., M.D. (1939), Oregon.
- 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.
- MARCIA K. BILBAO, M.D., Instructor in Radiology (1961).
B.S. (1952), Minnesota; M.D. (1957), Columbia.
- 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.

- HARRY C. BLAIR, M.D., Professor Emeritus of Orthopedic Surgery (1926).
M.D. (1915), Oregon.
- PAUL H. BLACHLY, M.D., Assistant Professor of Psychiatry (1961).
B.A. (1950), Reed; M.S., M.D. (1955), Oregon.
- ROBERT W. BLAKELEY, Ph.D., Assistant Professor of Speech Pathology (Pediatrics) (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.
- 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.
- RICHARD N. BOLTON, M.D., Clinical Instructor in Obstetrics and Gynecology (1961).
B.S. (1951), Willamette; M.D. (1955), Oregon.
- WILBUR M. BOLTON, M.D., Assistant Clinical Professor of Otolaryngology (1929).
A.B. (1923), M.D. (1926), Oregon.
- VALENTIN H. BONIFAS, M.D., Associate Professor of Bacteriology (1962).
B.A. (1938), College of Geneva, Switzerland; M.D. (1945), University of Geneva.
- DOUGLAS R. BOTTOMLY, M.D., Instructor in Medicine (1962).
B.S. (1953), Carroll College; M.D. (1957), St. Louis University.
- 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.
- JEAN H. BOYES, B.S., Instructor in Cytotechnology (1961).
B.S. (1948), Lewis and Clark College.
- 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 (1948).
B.S. (1925), Cornell; M.D. (1929), Harvard.
- JAMES L. BRAMHALL, M.B., Instructor in Clinical Pathology (1962).
M.B., Ch.B. (1951), Victoria University of Manchester Medical School, England.
- 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 DAVID BRISTOW, M.D., Assistant Professor of Medicine (1960).
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B.S. (1935), M.S. (1936), Ph.D. (1939), Michigan.
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B.S. (1935), Harvard; M.D. (1939), Johns Hopkins.
- FREDERICK P. HAUGEN, M.D., Professor of Anesthesiology; Head of Division (1948).
B.A. (1933), M.D. (1935), Oregon.
- GERHARD B. HAUGEN, M.D., Assistant Clinical Professor of Psychiatry (1937).
B.A. (1932), M.D. (1935), Oregon; M.P.H. (1942), Johns Hopkins.
- JAMES B. HAWORTH, M.D., Associate Professor of Radiology (1953).
B.S. (1933), M.D. (1936), Oregon.
- JOHN F. HAYES, M.D., Clinical Instructor in Surgery (1955).
B.A. (1945), Oregon State; M.D. (1947), Oregon.
- GORDON D. HAYNIE, M.D., Instructor in Medicine (1961).
B.S. (1949), Idaho State; M.D. (1953), Oregon.

- THOMAS S. HEALY, M.D., Clinical Associate in Medicine (1951).
B.A. (1940), M.D. (1942), Oregon.
- WILLIAM J. HEMPHILL, M.D., Clinical Instructor in Dermatology (1961).
M.D. (1947), Oklahoma.
- PHILIP H. HENDERSON, JR., M.D., Clinical Instructor in Obstetrics and Gynecology (1954).
B.S. (1945), University of Washington; M.D. (1948), Oregon.
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B.S. (1946), Oregon State; M.S. (1948), M.D. (1949), Oregon.
- WILLIAM W. HICKS, JR., M.D., Clinical Instructor in Obstetrics and Gynecology (1958).
M.D. (1953), Jefferson Medical College; B.S. (1954), University of Washington.
- ROBERT B. HIGGINS, M.D., Assistant Clinical Professor of Urology (1960).
A.B. (1941), M.D. (1944), Harvard.
- ALLAN J. HILL, JR., M.D., Clinical Professor of Pediatrics (1950).
B.S. (1937), M.B. (1939), M.D. (1940), Minnesota.
- ROBERT V. HILL, M.D., Assistant Clinical Professor of Ophthalmology (1948).
B.S. (1936), Oregon State; M.D. (1939), Oregon.
- WILLIAM E. HILL, M.D., Clinical Instructor in Pediatrics (1962).
B.A. (1947), Maine; M.D. (1951), Tufts.
- VINCENT C. HINCK, M.D., Associate Professor of Radiology (1957).
A.B. (1948), Cornell; M.D. (1953), New York Medical College.
- CLARENCE V. HODGES, M.D., Professor of Urology; Head of Division (1948).
B.S. (1937), Iowa State; M.D. (1940), University of Chicago.
- RICHARD A. HODGSON, M.D., Clinical Instructor in Otolaryngology (1962).
B.S. (1954), Oregon State; M.D. (1956), Oregon.
- BLAIR HOLCOMB, M.D., Clinical Professor of Medicine (1922).
M.D. (1919), University of Chicago (Rush).
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A.B. (1941), Brown; M.D. (1944), Yale.
- CARL L. HOLM, M.D., Clinical Instructor in Orthopedic Surgery (1961).
B.A. (1940), Willamette; M.D. (1943), Oregon.
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B.A. (1931), M.D. (1936), Oregon.
- RICHARD J. HOPKINS, M.D., Clinical Associate in Orthopedic Surgery (1950).
B.S. (1943), Idaho; M.D. (1944), Oregon.
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B.A. (1937), M.D. (1941), Oregon.
- IRVING J. HOROWITZ, M.D., Clinical Instructor in Radiology (1959).
B.S. (1946), M.S. (1947), M.D. (1952), Michigan.
- A. WESLEY HORTON, Ph.D., Professor of Biochemistry and Environmental Medicine (1962).
B.S. (1940), Wisconsin; M.S. (1947), Ph.D., (1949), Yale.
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B.S. (1923), M.D. (1926), Oregon.
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B.A. (1950), M.A. (1951), M.D. (1955), Kansas.
- JAY C. HOYT, M.D., Clinical Associate in Medicine (1956).
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B.S. (1937), Minnesota.
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- PETER L. HURST, M.D., Clinical Instructor in Pediatrics (1956).
B.S. (1950), Antioch; M.D. (1950), Washington University.
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B.S. (1942), Idaho State; B.M. (1945), M.D. (1946), Northwestern.
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- TOSHIO INAHARA, M.D., Clinical Instructor in Surgery (1956).
B.S. (1948), M.D. (1950), Oregon.
- DAVID S. JACKSON, Ph.D., Professor of Biochemistry (1959).
B.Sc. (1949), Ph.D., (1953) Manchester, England.
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- DAVID W. JAMES, M.D., Clinical Instructor in Obstetrics and Gynecology (1949).
B.S. (1930), Denison; M.D. (1933), Ohio State; M.S. (1940), Wayne.
- JOHN PAUL JARABAK, D.D.S., Clinical Associate in Dental Medicine (1960).
D.D.S. (1939), Indiana.
- ROBERT B. JOHNSON, M.D., Clinical Instructor in Medicine (1954).
M.D. (1948), Nebraska.
- RODERICK L. JOHNSON, M.D., Clinical Instructor in Surgery (1960).
B.S. (1948), M.D. (1951), University of Washington.
- WARREN E. JOHNSON, M.A., Clinical Instructor in Otolaryngology (Audiology) (1962).
A.B. (1949), Wabash; M.A. (1950), Northwestern.
- RUSSELL L. JOHNSRUD, M.D., Assistant Clinical Professor of Surgery (1936).
B.A. (1930), M.D. (1933), Oregon.
- GEORGE I. JOHNSTON, B.S., Director, Research Instrument Service (Instructor) (1961).
B.S. (1955), Johns Hopkins.
- ARTHUR C. JONES, M.D., Clinical Professor of Physical Medicine in Surgery (1929).
B.A. (1921), Pacific University; M.A. (1925), M.D. (1926), Oregon.

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B.S. (1950), Pittsburgh; M.D. (1953), Temple.
- LESTER T. JONES, M.D.**, Clinical Professor of Otolaryngology (1924).
B.A. (1918), Pacific University; M.D. (1921), M.A. (1923), Oregon.
- MAXWELL S. JONES, M.D.**, Clinical Professor of Psychiatry (1960).
M.B.U.D. (1931), M.D. (1937), Edinburgh; M.R.C.P. (1935), Royal College of Physicians and Surgeons, Edinburgh; D.P.M. (1935), London.
- NOBLE WILEY JONES, M.D.**, Professor Emeritus of Medicine (1910).
A.B. (1895), Stanford; M.D. (1901), University of Chicago (Rush).
- ORVILLE N. JONES, M.D.**, Clinical Associate in Orthopedic Surgery (1947).
B.A. (1931), Reed; M.D., C.M. (1937), McGill.
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B.S. (1929), M.D. (1931), Oregon.
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B.A. (1936), Wisconsin; B.M. (1940), M.D. (1941), Northwestern.
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M.D. (1943), Marquette.
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B.A. (1953), Ph.D. (1958), Minnesota.
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B.S. (1934), M.S. (1937), M.D. (1938), Oregon.
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B.A. (1955), Reed; M.D. (1956), Oregon.
- JOHN P. KEIZER, M.D.**, Assistant Clinical Professor of Ophthalmology (1953).
B.A. (1934), M.D. (1937), Oregon.
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B.S. (1949), University of Portland; M.D. (1954), Oregon.
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B.A. (1952), Yale; M.D. (1956), University of Washington.
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- GEORGE R. KERR, M.D.**, Assistant Professor of Pediatrics (1962).
M.D., C.M. (1955), Dalhousie University, Halifax, Nova Scotia.
- ELTON KESSEL, M.D.**, Clinical Instructor in Public Health and Preventive Medicine (1961).
B.A. (1940), University of Chicago; M.D. (1952), Chicago Medical School; M.P.H. (1960), Harvard.
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B.S. (1951), Oregon State; M.D. (1955), Oregon.

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B.S. (1949), Yale; M.D. (1953), New York University.
- LYLE B. KINGERY, M.D.**, Clinical Professor of Dermatology (1923).
B.S. (1912), M.D. (1916), Michigan.
- GERALD E. KINZEL, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1946).
B.A. (1933), M.D. (1936), Oregon.
- EDWARD K. KLOOS, M.D.**, Clinical Associate in Neurosurgery (1948).
A.B. (1934), Western Reserve; M.D. (1938), Rochester; M.S. (1943), Minnesota.
- ROBERT D. KOLER, M.D.**, Associate Professor of Medicine (1953).
B.A. (1945), M.D. (1947), Oregon.
- NICHOLAS E. KONTAXIS, Ph.D.**, Assistant Professor of Biochemistry (1961).
B.A. (1951), California; Ph.D. (1960), Oregon.
- NANCY KOSTERLITZ, M.A.**, Instructor in Psychiatry (Psychiatric Social Work) (1962).
B.A. (1945), M.A. (1950), University of Chicago.
- RICHARD H. KOSTERLITZ, M.D.**, Clinical Associate in Medicine (1958).
B.S., M.D. (1949), Illinois.
- LEWIS J. KRAKAUER, M.D.**, Clinical Associate in Medicine (1956).
A.B. (1947), Williams; M.D. (1951), Harvard.
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B.S. (1933), M.D. (1936), Illinois.
- PAUL O. KRETSCHMAR, M.D.**, Clinical Instructor in Medicine (1961).
B.S. (1952), South Dakota; M.D. (1954), Illinois.
- MARION L. KRIPPAEHNE, M.D.**, Clinical Associate in Medicine (1952).
B.S. (1944), University of Washington; M.D. (1948), Oregon.
- WILLIAM W. KRIPPAEHNE, M.D.**, Associate Professor of Surgery (1953).
B.S. (1943), University of Washington; M.D. (1946), Oregon.
- JOHN J. KRYGIER, M.D.**, Assistant Clinical Professor of Medicine (1943).
B.S. (1936), M.D. (1938), Wisconsin.
- WALTER J. KUHL, JR., M.D.**, Clinical Associate in Medicine (1960).
B.A. (1944), Whitman; M.D. (1947), Johns Hopkins.
- CLIFFORD KUHN, M.D.**, Assistant Clinical Professor of Otolaryngology (1940).
B.A. (1928), M.D. (1932), Oregon; M.A. (1943), Pennsylvania.
- MERLE M. KURTZ, M.D.**, Clinical Instructor in Medicine (1956).
B.A. (1949), College of Idaho; M.D. (1953), Oregon.
- BRUCE N. KVERNLAND, M.D.**, Clinical Instructor in Neurosurgery (1952).
B.A. (1942), Reed; M.D. (1943), Oregon.
- DANIEL H. LABBY, M.D.**, Professor of Medicine; Head of Division of Diabetes and Metabolism (1947).
B.A. (1935), Reed; M.D. (1939), Oregon.
- GEORGE H. LAGE, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1942).
B.A. (1936), Oregon State; M.D. (1939), Oregon.
- WILLIAM M. LAIDLAW, M.D.**, Clinical Instructor in Medicine (1959).
B.A. (1950), Willamette; M.D. (1955), Oregon.

- DONALD R. LAIRD, M.D., Assistant Clinical Professor of Surgery (1939).
A.B. (1928), Grinnell; M.S. (1933), M.D. (1934), University of Chicago (Rush);
M.S. (1938), Minnesota.
- ELLERY L. LANDERS, M.D., Clinical Associate in Anesthesiology (1962).
B.A. (1930), M.D. (1932), Oregon.
- EUGENE W. LANDRETH, M.D., Assistant Clinical Professor of Clinical Pathology (1957).
B.S. (1946), M.D. (1948), Oregon.
- LAURENCE R. LANGSTON, M.D., Clinical Associate in Orthopedic Surgery (1956).
B.A. (1947), M.D. (1951), Oregon.
- JOHN A. LARRABEE, M.D., Assistant Clinical Professor of Pediatrics (1948).
B.A. (1938), Nebraska; M.D. (1942), University of Chicago.
- L. WILLIAM LARSON, M.D., Clinical Instructor in Medicine (1959).
B.S. (1949), M.D. (1951), Minnesota.
- ROBERT L. LARSON, M.D., Clinical Instructor in Orthopedic Surgery (1962).
B.A. (1949), Montana State University; M.D. (1953), George Washington.
- WILBUR L. E. LARSON, M.D., Clinical Associate in Medicine (1950).
B.A. (1941), M.D. (1945), Oregon.
- GERALD J. LATTIG, M.D., Assistant Professor of Clinical Pathology (1958).
B.S. (1944), Idaho; M.D. (1949), Oregon.
- G. PRENTISS LEE, M.D., Clinical Instructor in Surgery (1952).
B.A. (1939), Reed; M.D. (1943), Oregon.
- J. ROBERT LEE, M.D., Associate Clinical Professor of Radiology (1955).
B.A. (1944), Willamette; M.D. (1946), Oregon.
- THEODORE H. LEHMAN, M.D., Clinical Associate in Urology (1958).
B.A. (1948), M.A. (1949), M.D. (1953), Nebraska.
- EUGENE A. LENTINI, Ph.D., Instructor in Physiology (1958).
B.A. (1951), M.A. (1955), Ph.D. (1953), Boston University.
- RICHARD L. LESSEL, Instructor in Public Health and Preventive Medicine (1960).
B.S. (1957), University of Washington; M.P.H. (1959), North Carolina.
- HOWARD P. LEWIS, M.D., Professor of Medicine; Chairman of Department (1932).
B.S. (1924), Oregon State; M.D. (1930), Oregon.
- HEROLD S. LILLYWHITE, Ph.D., Associate Professor of Speech Pathology (Pediatrics) (1957).
B.S. (1932), Utah State Agriculture; M.A. (1939), Minnesota; Ph.D. (1943), New York University.
- AARNE J. LINDGREN, M.D., Clinical Associate in Medicine (1948).
B.S. (1936), M.S., M.D. (1942), Oregon.
- VERNER V. LINDGREN, M.D., Clinical Instructor in Surgery (1950).
B.A. (1942), Gustavus Adolphus; B.S. (1944), B.M. (1945), M.D. (1946), Minnesota.
- RICHARD H. LINDQUIST, M.D., Clinical Instructor in Surgery (1958).
B.S. (1946), South Dakota; M.D. (1947), Louisville.
- LOUIS LINO, Ph.D., Associate in Neurology (1958).
Ph.D. (1935), Faculty of Natural Sciences, Pisa, Italy.
- CHARLES E. LITTLEHALES, M.D., Clinical Associate in Medicine (1939).
B.A. (1932), M.D. (1935), Oregon.
- JAMES H. LIUM, M.D., Associate Clinical Professor of Clinical Pathology (1953).
B.S. (1944), M.D. (1946), Oregon.

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B.A. (1936), Stanford; M.D. (1939), Harvard.
- WILLIAM K. LIVINGSTON, M.D., Professor Emeritus of Surgery (1925).
B.A. (1913), M.A. (1917), Oregon; M.D. (1920), Harvard.
- ERNEST T. LIVINGSTONE, M.D., Assistant Clinical Professor of Medicine (1955).
B.A. (1949), Reed; M.S., M.D. (1951), Oregon.
- LIEN-FU LO, M.D., Clinical Instructor in Medicine (1961).
B.A. (1951), Cascade; M.D. (1955), Oregon.
- WALTER C. LOBITZ, JR., M.D., Professor of Dermatology; Head of Division (1959).
B.S. (1939), B.M. (1940), M.D. (1941), Cincinnati.
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B.S. (1931), North Dakota; B.M. (1933), M.D. (1934), Northwestern.
- GEORGE B. LONG, M.D., Associate Clinical Professor of Medicine; Senior Consultant in Gastroenterology (1943).
B.A. (1934), Montana State University; M.D. (1939), Northwestern.
- JOHN WAYNE LOOMIS, M.D., Assistant Clinical Professor of Radiology (1951).
B.A. (1940), Reed; M.D. (1943), Oregon.
- ERNEST J. LOSLI, M.D., Clinical Associate in Pathology (1952).
B.A. (1925), M.D. (1928), Oregon.
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B.S. (1933), Washington State; M.D. (1936), Oregon.
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B.A. (1943), Cornell; M.D. (1952), Harvard.
- GEORGE P. LYMAN, M.D., Clinical Associate in Ophthalmology (1954).
B.A. (1926), Pomona; M.D. (1931), Yale.
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B.S. (1957), M.S. (1960), M.D. (1960), Oregon.
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B.A. (1938), Hamilton; M.D. (1942), New York University.
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B.S. (1954), Carroll; M.D. (1951), Loyola.
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B.A. (1949), Princeton; M.D. (1953), Johns Hopkins.
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B.S. (1935), M.S. (1936), Ph.D. (1939), Massachusetts Institute of Technology.
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B.S. (1930), M.D. (1932), Nebraska.
- ROBERT E. MASS, M.D., Assistant Professor of Medicine (1957).
B.A. (1948), M.D. (1951), Oregon.
- JOHN CLIFFTON MASSAR, M.D., Assistant Clinical Professor of Dermatology (1955).
B.S. (1945), University of Washington; M.D. (1948), Oregon.
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B.A. (1946), Brown; M.S. (1950), Ph.D. (1952), Northwestern.
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M.D. (1945), College of Medical Evangelists.
- ROY R. MATTERI, M.D., Assistant Clinical Professor of Medicine (1946).
B.S. (1940), M.D. (1942), Creighton.
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A.B. (1944), Brown; M.D. (1946), Harvard.
- DONALD C. METTLER, M.D., Assistant Clinical Professor of Otolaryngology (1956).
B.S. (1952), M.D. (1947), Indiana.
- ERNEST A. MEYER, Sc.D., Assistant Professor of Bacteriology (1958).
A.B. (1949), California; M.S. (1953), Purdue; Sc.D. (1958), Johns Hopkins.
- ROBERT D. MICHEL, M.D., Associate in Medicine (1958).
B.S. (1937), Northwestern; M.D. (1954), Oregon.
- ROBERT L. MIGHELL, M.D., Clinical Instructor in Psychiatry (1962).
B.A. (1950), M.D. (1953), State University of Iowa.
- CLIVE W. MILLAR, M.B., Visiting Assistant Professor of Anatomy (1962).
B.S., M.B. (1956), Kings College, London.
- DAVID B. MILLER, JR., M.D., Clinical Instructor in Surgery (1959).
B.A. (1949), Dartmouth; M.D. (1953), New York University.
- ROBERT S. MILLER, M.D., Clinical Instructor in Radiology (1960).
B.A. (1951), Willamette; M.D. (1955), Oregon.
- JOSEPH C. MITCHELL, M.D., Clinical Instructor in Obstetrics and Gynecology (1958).
B.A. (1951), M.D. (1952), Oregon.
- THOMAS R. MONTGOMERY, M.D., Associate Clinical Professor of Urology (1939).
B.A. (1928), M.D. (1932), Oregon.
- DAVID W. MOORE, M.D., Clinical Instructor in Obstetrics and Gynecology (1953).
M.D. (1947), Western Reserve.
- MERLE W. MOORE, M.D., Associate Professor Emeritus of Medicine (1928).
B.S. (1920), Oregon; M.D. (1924), Jefferson.
- RAYMOND E. MOORE, M.D., Clinical Instructor in Physical Medicine (1958).
B.A. (1951), Reed; M.D. (1953), Oregon.
- ROBERT J. MOORE, M.D., Clinical Associate in Urology (1960).
B.A. (1951), M.D. (1955), Oregon.
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B.S. (1940), M.D. (1941), Washington University.

- JAMES F. MORRIS, M.D., Assistant Professor of Medicine (1957).
A.B. (1943), Ohio Wesleyan; M.D. (1948), Rochester.
- THOMAS E. MORRIS, JR., Clinical Instructor in Medicine (1960).
B.A. (1938), Pacific University; M.D. (1952), Oregon.
- CARL V. MORRISON, M.D., Assistant Clinical Professor of Psychiatry (1947).
M.D. (1933), Iowa.
- HARRY C. MORSE, M.D., Clinical Instructor in Pediatrics (1962).
B.A. (1954), Wagner College; M.D. (1959), Temple.
- SEYMOUR R. MOSS, M.D., Clinical Instructor in Psychiatry (1962).
B.A. (1949),
- JAN J. MULLER, D.D.S., Clinical Associate in Dental Medicine (1959).
H.B.S. (1935), Drafne Lyceum, Bussum, Holland; D.D.S. (1939), Minnesota.
- JOHN J. MURPHY, M.D., Clinical Associate in Medicine (1948).
B.A. (1938), Carroll College; M.D. (1942), Michigan.
- PAUL B. MYERS, M.D., Clinical Associate in Otolaryngology (1950).
B.A. (1944), Oregon State; M.D. (1946), Oregon.
- JOSEPH W. NADAL, M.D., Assistant Clinical Professor of Surgery (1944).
A.B. (1932), Drury; M.D. (1937), Harvard; M.S. (1941), Michigan.
- GEORGE A. NASH, M.D., Clinical Instructor in Pediatrics (1954).
B.S. (1945), M.D. (1948), Oregon.
- DUNCAN R. NELSON, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1946).
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- GUNNAR E. C. NELSON, M.D., Associate Clinical Professor of Obstetrics and Gynecology (1937).
Ph.G. (1923), B.S. (1925), Washington State; M.D. (1933), Oregon.
- HARRY NEWMAN, M.D., Clinical Instructor in Radiology (1959).
B.S. (1952), University of Portland; M.D. (1954), Oregon.
- GREGORY B. NICHOLS, M.D., Clinical Instructor in Radiology (1950).
M.D. (1943), Creighton.
- H. MINOR NICHOLS, M.D., Clinical Instructor in Surgery (1940).
Ph.B. (1930), Yale; M.D. (1934), Oregon; M.S. (1937), Pennsylvania.
- NICHOLAS NICOLAIDES, Ph.D., Assistant Professor of Biochemistry (1960).
B.S. (1939), M.S. (1940), Case Institute of Technology; Ph.D. (1959), University of Chicago.
- *NELSON R. NILES, M.D., Associate Professor of Pathology (1952).
M.D. (1947), Cornell.
- OLIVER M. NISBET, M.D., Associate Clinical Professor of Surgery (1926).
B.S. (1915), Idaho; M.D. (1919), University of Chicago (Rush).
- LAWRENCE NOALL, M.D., Associate Clinical Professor of Orthopedic Surgery (1941).
B.A. (1931), B.M. (1934), Utah; M.D. (1936), Northwestern.
- JOSEPH E. NOHLGREN, M.D., Assistant Clinical Professor of Pathology (1949).
B.S. (1935), South Dakota State; M.D. (1943), Oregon.
- HAROLD J. NOYES, D.D.S., M.D., Clinical Professor of Dental Medicine; Head of Division (1946).
Ph.B. (1923), University of Chicago; B.S. (1928), D.D.S. (1928), Illinois; M.D. (1933), University of Chicago.

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- JOHN D. O'HOLLAREN, M.D., Clinical Instructor in Medicine (1959).
B.S. (1945), M.D. (1947), Oregon.
- RICHARD W. OLMSTED, M.D., Professor of Pediatrics; Chairman of Department (1962).
B.A. (1941), Dartmouth; M.D. (1944), Harvard.
- DONALD E. OLSON, M.D., Assistant Clinical Professor of Medicine (1955).
B.A. (1943), Reed; M.S., M.D. (1947), Ph.D. (1948), Oregon.
- WILLIAM R. OLSON, M.D., Clinical Instructor in Medicine (1961).
B.S. (1950), M.D. (1954), Creighton.
- WILLIAM W. ORNDUFF, M.D., Assistant Professor of Pediatrics (1959).
B.S. (1933), University of Washington; M.D. (1937), Oregon.
- SAMUEL OSBORN, M.D., Clinical Instructor in Orthopedic Surgery (1958).
B.S. (1942), Michigan State; M.D. (1945), Michigan.
- EDWIN E. OSGOOD, M.D., Professor of Medicine; Head of Division of Experimental Medicine and Division of Hematology (1922).
B.A. (1923), M.A., M.D. (1924), Oregon.
- SAMUEL B. OSGOOD, M.D., Clinical Instructor in Public Health and Preventive Medicine (1951).
B.S. (1931), M.D. (1935), Oregon; M.S.P.H. (1939), California.
- HAROLD T. OSTERUD, M.D., Associate Professor of Public Health and Preventive Medicine (1961).
B.S. (1944), Randolph Macon; M.D. (1947), Medical College of Virginia; M.P.H. (1951), North Carolina.
- ARTHUR L. OVERGAARD, M.D., Clinical Instructor in Radiology (1954).
B.A. (1944), College of Idaho; M.D. (1948), Oregon.
- ALBERT A. OYAMA, M.D., Clinical Associate in Pathology and Clinical 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.
- OTTO C. PAGE, M.D., Clinical Associate in Medicine (1952).
B.S. (1941), M.D. (1944), Boston University.
- MARION E. PALMER, M.D., Clinical Instructor in Anesthesiology (1950).
B.S. (1938), Stanford; M.D. (1944), Washington University.
- JOSEPH F. PAQUET, M.D., Clinical Associate in Medicine (1944).
M.D. (1940), Duke.
- 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 Associate 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.
- ROY A. PAYNE, M.D., Clinical Instructor in Medicine (1960).
B.S. (1953), University of Portland; M.D. (1955), Oregon.
- ANTHONY A. PEARSON, Ph.D., Professor of Anatomy; Chairman of Department (1946).
B.S. (1928), Furman; M.A. (1930), Ph.D. (1933), Michigan.
- ANNE M. PERLEY, M.A., Assistant Professor of Biochemistry (1951).
B.A. (1927), Grinnell; M.A. (1929), Nebraska.
- FRANK PERLMAN, M.D., Associate Clinical Professor of Medicine; Head of Division of Allergy (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.
- EDWARD N. PETERSON, M.D., Instructor in Obstetrics and Gynecology (1961).
B.S. (1952), M.D. (1954), Minnesota.
- 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., Associate 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. PETTERSON, M.D., Clinical Instructor in Medicine (1957).
B.A. (1938), M.D. (1942), Kansas.
- JEANNE S. PHILLIPS, Ph.D., Assistant Professor of Medical Psychology (1957).
A.B. (1951), Ph.D. (1957), Washington University.
- DONALD E. PICKERING, M.D., Professor of Pediatrics (1956).
A.B. (1945), Whitman; M.A. (1948), M.D. (1949), California.
- NIGEL A. PICKERING, M.D., Clinical Instructor in Clinical Pathology (1961).
M.D. (1945), Manitoba.
- WAYNE M. PIDGEON, M.D., Clinical Instructor in Psychiatry (1959).
M.S. (1947), M.D. (1951), Oregon.
- JOHN M. PIERSON, M.D., Assistant Clinical Professor of Anatomy (1946).
B.A. (1938), Oregon State; M.D. (1943), 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.
- DONALD M. PITCAIRN, M.D., Associate Professor of Medicine; Head of Division of Chest Diseases (1949).
B.A. (1944), Harvard; M.D. (1945), Oregon.
- ROBERT G. PITTENGER, M.D., Clinical Instructor in Medicine (1957).
B.S. (1948), M.D. (1950), Oregon.
- CAROLINE H. POMMARANE, B.S., Registrar (Assistant Professor) (1943).
B.S. (1928), Nebraska.
- JOHN KARL POPPE, M.D., Clinical Associate in Surgery (1946).
A.B. (1933), Hamilton; M.D. (1937), Rochester.

- DONALD R. PORTER, D.D.S., Clinical 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.
- L. PAUL RASMUSSEN, M.D., Associate Professor of Pediatrics (1962).
B.A. (1932), Utah; M.D. (1935), Duke.
- JESSE L. RAY, M.D., Clinical Instructor in Obstetrics and Gynecology (1953).
B.A. (1935), M.D. (1939), Stanford.
- LEON F. RAY, M.D., Associate 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.
- SHERMAN E. REES, M.D., Clinical Associate in Radiology (1929).
M.D. (1925), 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 Pathology and 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 Biochemistry and 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 Associate 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.

- LEONARD W. RITZMANN, M.D., Associate 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.
- PAUL J. ROBINSON, M.D., Instructor in Ophthalmology (1962).
B.A. (1951), Southern California; M.D. (1955), Yale.
- EUGENE W. ROCKEY, M.D., Professor Emeritus of Surgery (1915).
B.A. (1908), Stanford; M.D. (1912), Harvard.
- ALLAN L. ROGERS, B.A., Director of Animal Care Program (Assistant Professor) (1961).
B.A. (1944), Connecticut.
- WAYNE R. ROGERS, M.D., Clinical Associate 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., Associate 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., Clinical Professor of Surgery (1930).
A.B. (1922), Stanford; M.D. (1925), Harvard.
- *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.
- 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.A., M.D. (1921), Oregon.
- ARNOLD RUSTIN, M.D., Clinical Associate in Urology (1954).
M.D. (1950), Iowa.
- BERNARD F. RYAN, M.D., Clinical Instructor in Dermatology (1960).
B.A. (1934), M.D. (1936), Oregon; M.S. (1945), Minnesota.
- EDWARD W. ST. PIERRE, M.D., Associate Clinical Professor of Surgery (1933).
M.D. (1921), University of Chicago (Rush).
- GEORGE SASLOW, M.D., Professor of Psychiatry; Chairman of Department (1957).
Sc.B. (1926), Ph.D. (1931), New York University; M.D. (1940), Harvard.
- GEORGE R. SATTERWHITE, M.D., Clinical Instructor in Radiology (1959).
B.S. (1950), Seattle; M.D. (1953), St. Louis.
- GEORGE C. SAUNDERS, M.D., Clinical Associate in Otolaryngology (1933).
B.S. (1923), Virginia; M.D. (1927), Washington University.

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- 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, Lahore, India; L.D.S., R.C.S. (1947), Royal Dental Hospital, London, England; M.S. (1950), Illinois.
- 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.
- ELIZABETH H. SCHIRMER, M.D., Clinical Instructor in Obstetrics and Gynecology (1961).
B.S. (1927), M.D. (1927), Illinois.
- 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., Assistant Clinical Professor of 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.
- HERBERT J. SEMLER, M.D., Clinical Instructor in Medicine (1960).
B.S. (1949), University of Washington; M.S., M.D. (1953), Oregon.
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- DAVID L. SESSIONS, M.D., Instructor in Pediatrics (1961).
A.B. (1954), Princeton; M.D. (1958), Washington University.
- HARRY SHACH, M.S., Instructor in Radiology (1962).
B.E.E. (1948), Cornell; M.S. (1958), Cornell (1962), Columbia.
- 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. SCHICK, JR., M.D., Assistant Clinical Professor of Pediatrics (1951).
B.A. (1945), Texas Technological; M.D. (1946), Tulane.

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- NATHAN SHLIM, M.D., Clinical Instructor in Surgery (1956).
B.A. (1937), Wisconsin; M.D. (1941), University of Chicago (Rush).
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B.S. (1949), M.D. (1953), Michigan.
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- MAX SIMONS, M.D., Clinical Instructor in Otolaryngology (1930).
M.D. (1924), Oregon.
- RICHARD L. SLEETER, M.D., 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.
- 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., Assistant Professor of Medicine (1960).
B.S. (1947), Kansas State; M.D. (1956), Cornell.
- JOHN C. SMITH, M.D., Assistant Clinical 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.
- KENNETH D. SMYTH, M.D., Clinical Associate in Otolaryngology (1957).
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- 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.
- WILLIAM ALDEN SPENCER, M.D., Assistant Professor of Physiology (1961).
B.A. (1955), Reed; M.S., M.D. (1957), Oregon.
- JAMES T. SPEROS, M.D., Associate Professor of Medicine (1940).
B.A. (1931), M.D. (1934), Oregon.
- JOHN H. SPRINGER, M.D., Clinical Instructor in Pediatrics (1961).
B.S. (1953), University of Portland; M.D. (1957), Loyola.
- 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.
- ALBERT STARR, M.D., Assistant Professor of Surgery (1957).
B.A. (1946), M.D. (1949), Columbia.
- GRIER F. STARR, M.D., Assistant Clinical Professor of 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., Assistant Clinical Professor of Medicine (1953).
B.S. (1939), M.D. (1944), Alberta.
- JANICE R. STEVENS, M.D., Assistant Professor of Neurology (1955).
B.A. (1944), Reed; M.D. (1949), Boston University.
- 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.
- EVELYN M. STRANGE, D.M.D., Clinical Associate in Dental Medicine (1961).
D.M.D. (1950), Oregon.
- KURT R. STRAUPE, M.D., Assistant Professor of Radiology (1960).
Cand. Med. (1948), Dr. Med. (1952), University of Vienna, Austria.
- 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.
- RAYMOND R. SUSKIND, M.D., Professor of Environmental Medicine and Dermatology; Head of Division of Environmental Medicine (1962).
A.B. (1934), Columbia; M.D. (1943), Long Island.
- KENNETH C. SWAN, M.D., Professor of Ophthalmology; Chairman of Department (1944).
B.A. (1933), M.D. (1936), Oregon.
- WILLIAM D. SWANCUTT, M.D., Clinical Instructor in Otolaryngology (1962).
B.S. (1949), Oregon State; M.D. (1953), Oregon.
- ROBERT E. SWANSON, Ph.D., Associate Professor of Physiology (1961).
B.A. (1949), Ph.D. (1953), Minnesota.
- 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.
- 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.
- EUGENE E. TAYLOR, M.D., Assistant Professor of Psychiatry (1961).
B.S. (1942), Idaho; M.D. (1945), Washington University; M.P.H. (1950), North Carolina School of Public Health.
- 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.
- JOHN DONALD THORPE, M.D., Clinical Associate in Pathology (1961).
B.S. (1949), Idaho; M.D. (1952), Washington University.
- 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., Assistant Professor of Pediatrics (1959).
B.A., M.A. (1949), Texas; Ph.D. (1952), Notre Dame; M.D. (1956), Texas.
- BRUCE L. TITUS, M.D., Assistant Clinical Professor of Otolaryngology (1943).
B.A. (1930), M.D. (1934), Oregon.
- WILBERT R. TODD, Ph.D., Professor of Biochemistry (1936).
B.S. (1925), Ph.D. (1933), Wisconsin.
- JOSEPH B. TRAINER, M.D., Associate Professor of Physiology and Medicine (1949).
B.S. (1939), M.S. (1941), University of Washington; M.D. (1946), Oregon.
- THOMAS A. TREANOR, M.D., Clinical Instructor in Obstetrics and Gynecology (1959).
B.A. (1950), Syracuse; M.D. (1954), New York State University.
- JOHN P. TROMMALD, M.D., Assistant Clinical Professor of Surgery (1939).
B.S. (1929), Yale; M.D. (1933), Harvard.
- JOHN E. TUHY, M.D., Associate Clinical Professor of Medicine (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. (1955), Oregon.
- JOHN T. VAN BRUGGEN, Ph.D., Professor of Biochemistry (1947).
B.A. (1937), Linfield; M.A. (1939), Oregon; Ph.D. (1944), St. Louis.
- JOHN G. VANDENBERG, M.D., Clinical Associate in Urology (1953).
B.S. (1945), Puget Sound; B.M. (1947), M.D. (1948), Northwestern.

- CECIL A. VAN KLEEK, D.M.D., M.D., Clinical Associate in Dental Medicine (1961).
D.M.D. (1951), M.D. (1959), Oregon.
- 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 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.
- JOHN R. WALSH, M.D., Professor of Medicine (1960).
B.S. (1943), M.D. (1945), M.Sc.Med. (1951), Creighton.
- 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 Associate in Surgery (1952).
A.B. (1939), Dartmouth; M.D. (1943), Michigan.
- FREIDA M. WEINER, M.D., Instructor in Pediatrics (1961).
B.S. (1948), M.D. (1952), Illinois.
- 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.
- MORRIS WEITMAN, Ph.D., Assistant Professor of Medical Psychology (1960).
B.S. (1948), College of City of New York; M.A. (1953), Ph.D. (1960), New School of Social Research.
- WARREN S. WELBORN, M.D., Clinical Instructor in Medicine (1956).
B.A. (1949), M.D. (1953), Oregon.
- SEFTON ROBERT WELLINGS, M.D., Associate Professor of Pathology (1961).
B.S. (1951), M.D. (1953), University of Washington.
- ALVIN D. WERT, M.D., Associate Clinical Professor of Pediatrics (1946).
A.B. (1937), Colgate; M.D. (1941), Minnesota.
- EDWARD S. WEST, Ph.D., Professor of Biochemistry; Chairman of Department (1934).
A.B. (1917), Randolph-Macon; M.S. (1920), Kansas State; Ph.D. (1923), University of Chicago.
- RALPH N. WESTFALL, M.D., Clinical Associate in Otolaryngology (1949).
A.B. (1935), Maryville State Teachers; M.D. (1940), St. Louis.
- JAMES M. WHITELEY, M.D., Clinical Instructor in Obstetrics and Gynecology (1943).
B.S. (1935), M.D. (1938), Oregon.

- JAMES P. WHITTEMORE, M.D., Assistant Clinical Professor of Pediatrics (1948).
A.B. (1942), Holy Cross; M.D. (1945), Harvard.
- ARTHUR N. WIENS, Ph.D., Assistant Professor of 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.
- NATHANIEL D. WILSON, M.D., Clinical Associate in Surgery (1953).
B.S. (1936), Wheaton; B.M. (1940), M.D. (1941), Northwestern.
- WILLIAM M. WILSON, M.D., Associate Clinical Professor of Obstetrics and Gynecology (1928).
B.S. (1920), Whitman; M.D. (1924), Johns Hopkins.
- ZOLTAN T. WIRTSCHAFER, M.D., Associate 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 (Pediatrics) (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.

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., Chief of Otolaryngological Service.
- CHARLES T. DOTTER, M.D., Chief of Radiological Service.
- J. ENGLEBERT DUNPHY, M.D., Chief of Surgical Service.
- FREDRICK P. HAUGEN, M.D., Chief of Anesthesiology Service.
- CLARENCE V. HODGES, M.D., Chief of Urological Service.
- TYRA T. HUTCHENS, M.D., Chief of Clinical Pathological Service.
- ARTHUR C. JONES, M.D., Chief of Physical Medicine.
- HOWARD P. LEWIS, M.D., Chief of Medical Service.
- WALTER C. LOBITZ, JR., M.D., Chief of Dermatological Service.
- JOSEPH D. MATARAZZO, Ph.D., Chief of Medical Psychological Service.
- HAROLD J. NOYES, D.D.S., M.D., Chief of Dental Medical Service.
- RICHARD W. OLMSTED, M.D., Chief of Pediatric 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.
- BEATRICE DUFFY, B.S., R.N., Surgical Supervisor.
- ELEANOR MALLORY, R.N., Surgery Supervisor.
- CHARLOTTE WEEKS, B.S., R.N., Auxiliary Personnel Supervisor.
- EVELYN BARTON, R.N., Night Supervisor.
- GERTRUDE BERGQUIST, R.N., Assistant Night Supervisor.
- BERNICE LOUNSBURY, R.N., Assistant Night Supervisor.
- HELEN FOUNTAIN, R.N., Evening Supervisor.
- LOIS LAUZIERE, R.N., Evening Supervisor.
- ROSELLA SCHMIDT, R.N., Assistant Evening Supervisor.
- DOROTHY CAHILL, R.N., Head Nurse.
- PEGGY COOKE, R.N., Head Nurse.
- BETTY Jo EDDINS, R.N., Head Nurse.
- FREDERICKA GRABLE, R.N., Head Nurse.
- LOIS HART, B.S., R.N., Head Nurse.
- ADA CARSON, R.N., Head Nurse.
- ESTHER KELLY, R.N., Head Nurse.
- REGINA MOCKMORE, B.S., R.N., Head Nurse.
- MAXINE SUTTON, R.N., Head Nurse.
- CHRISSIE SAYRE, R.N., Head Nurse.
- PEARL THORN, B.S., R.N., Head Nurse.

DORIS STITELY, R.N., Head Nurse.
 PAULINE ANDERSON, B.S., R.N., Admitting Supervisor.
 GLEN F. CRITESER, Laundry Manager.
 MAXINE FREEMAN, Executive Housekeeper.
 MARGARET ORTH, B.S., Dietitian.
 ARIJA LIETUEVITIS, 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, B.S., 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 SATCHEL, 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.
 SHIRLEY FRANZEN, R.N., Head Nurse.
 ESTHER HENDERSON, R.N., Head Nurse.
 JUDITH HOFFMAN, R.N., Head Nurse.
 LEANN POOLE, R.N., Head Nurse.
 MARY RICHESON, R.N., Head Nurse.
 JEAN SCHROFFER, B.S., R.N., Head Nurse.
 BERNICE SETERE, B.S., R.N., Head Nurse.
 CAROL SLAMA, R.N., Head Nurse.
 BEVERLY WARD, R.N., Head Nurse.
 HELEN COLGAN, Ph.G., Pharmacist.
 HENRY L. DOENKA, Chief Engineer.
 DAVID E. ANDERSON, Office Supervisor.
 RAMONA MCAFEE BENNETT, 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.
 KAY M. PHILLIPS, B.S., Dietitian.
 GRACE BLACK, O.T.R., Occupational Therapist.

Visiting Physicians' Service

RANDALL F. WHITE, M.D., Multnomah County Physician.
 C. W. COTTRELL, M.D., Physician.
 HAROLD W. DOBBIN, M.D., Physician.
 ANTON D. ELMER, M.D., Physician.
 DONALD P. MCGREEVEY, M.D., Physician.
 WILLIAM R. OLSON, M.D., Physician.
 HOWARD I. OSBORNE, M.D., Physician.

Crippled Children's Division

RICHARD L. SLEETER, M.D., Director; Professor of Pediatrics.
 VICTOR D. MENASHE, M.D., Assistant Director; Assistant Professor of Pediatrics.
 S. GORHAM BABSON, M.D., Associate Professor of Pediatrics.
 HEROLD S. LILLYWHITE, Ph.D., Associate Professor of Speech Pathology.
 WILLIAM E. SNELL, M.D., Associate Professor of Orthopedic Surgery.
 ROBERT W. BLAKELEY, Ph.D., Assistant Professor of Speech Pathology.
 C. CONRAD CARTER, M.D., Assistant Professor of Neurology.
 JOHN C. ROTH, M.D., Assistant Professor of Anesthesiology.
 KURT R. STRAUPE, M.D., Assistant Professor of Radiology.
 EUGENE E. TAYLOR, M.D., Assistant Professor of Psychiatry.
 LAURENCE R. LANGSTON, M.D., Clinical Associate in Orthopedic Surgery.
 EVELYN STRANGE, D.M.D., Clinical Associate in Dental Medicine.
 RICHARD M. ADAMS, D.M.D., Instructor in Dentistry.
 RODNEY K. BEALS, M.D., Instructor in Orthopedic Surgery.
 EUGENE L. BUNCH, D.M.D., Instructor in Dental Medicine.
 NORTON B. YOUNG, Ph.D., Instructor in Audiology.
 SAMUEL G. FLETCHER, Ph.D., Research Associate in Speech Pathology.
 GLADYS BELL, A.B., Medical Social Consultant.
 JOANNE RULE, A.M., Medical Social Consultant.
 RUTH W. SPOERLI, M.S.S., Medical Social Consultant.
 DOROTHY M. PRINZING, M.A., R.N., R.P.T., Nursing Consultant.
 IDA SUE UNDERWOOD, R.N., Public Health Nurse.
 IRENE A. BACON, B.S., R.P.T., Physical Therapist.
 RUBY FIELDS, R.P.T., Physical Therapist.
 SUSAN FORD, R.P.T., Physical Therapist.
 VIRGINIA R. HATCH, B.S., Occupational Therapist.
 SHARON MAGUIRE, B.S., Occupational Therapist.
 MARGARET A. COSTELLO, Administrative Assistant.

Cerebral Palsy Project (Collaborating Faculty Members)

RALPH C. BENSON, M.D., Professor of Obstetrics and Gynecology.
 RICHARD W. OLMSTED, M.D., Professor of Pediatrics.
 RICHARD L. SLEETER, M.D., Professor of Pediatrics.
 HOWARD J. TATUM, M.D., Professor of Obstetrics and Gynecology.
 S. GORHAM BABSON, M.D., Associate Professor of Pediatrics.

WILLIAM M. CLARK, JR., M.D., Associate Professor of Pediatrics.
 RUDOLF C. H. ENGEL, M.D., Associate Professor of Pediatrics.
 L. PAUL RASMUSSEN, M.D., Associate Professor of Pediatrics.
 WILLIAM A. STOTLER, Ph.D., Associate Professor of Anatomy.
 JOHN O. KANGAS, Ph.D., Assistant Professor of Medical Psychology.
 WILLIAM W. ORNDUFF, M.D., Assistant Professor of Pediatrics.
 FRANK SHUBECK, M.D., Assistant Professor of Obstetrics and Gynecology.
 BRUCE V. BUTLER, Ph.D., Instructor in Medical Psychology.
 KATHRINE S. FRENCH, Ph.D., Instructor in Anthropology (Pediatrics).
 TOSHIO FUJIKURA, M.D., Instructor in Pathology.
 RICHARD L. LESSEL, M.P.H., Instructor in Public Health and Preventive Medicine.
 FRIEDA M. WEINER, M.D., Instructor 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 372,676), 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 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 \$23,000,000, 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. Approximately 190,000 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 80,000 volumes of books and bound periodicals, as well as a large number of unbound periodicals. Approximately 1,400 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.

Students are given a survey of the resources of the Library and instruction in their uses in four lectures delivered by the librarian during the first and second years of their medical course.

The *Nurses' Dormitory* (1943), formerly the Portland Medical Hospital, was purchased in 1943 to provide needed housing facilities for students in the School of Nursing. 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.

The *Medical Research Laboratories Building* (1962), built at a cost of \$2,611,955, was financed through a state appropriation and matching funds from the National Institutes of Health, U. S. Public Health Service. The entire nine-story building is used for medical research.

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 85 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 thirty 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 155 full-time faculty members serving in its basic and clinical science departments and approximately 500 clinical faculty members who practice in Portland and the surrounding area and who 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 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 page 100).

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 \$3,000,000 annually. These funds are made available by private individuals and industry, by foundations and societies, and by the state and Federal governments.

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

Medical Research Foundation

THE MEDICAL RESEARCH FOUNDATION OF OREGON was incorporated in 1942 as a nonprofit organization for the support of medical education and medical research. The foundation is administered by a board of trustees selected from the executive faculty and alumni of the University of Oregon Medical School, the Portland Academy of Medicine, the Oregon State Medical Society, and private citizens. The foundation's income is derived from gifts, grants, bequests, and United Funds. The funds are administered by the trustees on the basis of recommendations from the Research Committee of the Medical School.

Funds received for specific purposes are administered in accordance with the wishes of the donors. During 1961, the foundation spent over \$2,300,000 for medical education and medical research.

The offices of the foundation are located on the campus of the University of Oregon Medical School.

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 2,000. In the spring of each year, the Alumni Association sponsors a three-day scientific meeting on the Medical School campus with about 400 registrations. The Office of Public Affairs maintains alumni records and administers Alumni Association activities. Alumni Association officers for 1962-63 are:

DR. JOSEPH E. NOHLGREN, '43, Portland.....	President
DR. JOYLE O. DAHL, '30, Portland.....	Vice-President
DR. ROGER BISWELL, JR., '35, Baker.....	Vice-President
DR. ENNIS R. KEIZER, '33, North Bend.....	Vice-President
DR. PAUL R. VOGT, '36, The Dalles.....	Vice-President
DR. WALDO O. MILLS, '40, Seattle.....	Vice-President
DR. JOHN O. BRANFORD, '46, Portland.....	Secretary
DR. THOMAS R. MONTGOMERY, '32, Portland.....	Treasurer
JOSEPH J. ADAMS, Portland.....	Executive Secretary

Student Organizations

Student American Medical Association. Medical students have an opportunity to join the Student American Medical Association (SAMA), a national medical student organization. The purpose of SAMA is to represent medical student interests on a national scale. Membership is voluntary and on an individual basis. Locally, SAMA, in addition to planning student activities, sponsors an all-campus activities calendar, scientific noon-hour programs, and a part-time employment file for medical students and their wives. It also make 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.

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

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.

The 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. An up-to-date list of vacancies in apartments and boarding houses is maintained on the Student Bulletin Board in the Administration Building.

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 the Health Service pamphlet 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 chairman 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 chairman 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 99, 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 Clayson Pohl. The original gift has been supplemented by additional annual donations from Dr. Lovejoy, which have increased the endowment to about \$37,000. 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. Griffin Scholarships. Three \$500 scholarships are awarded each year from a fund established in 1959 through a bequest from Mrs. James P. Griffin 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 \$1,000.

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 is 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.

Joan Balise Memorial Loan Fund. This fund was established in 1960 in memory of the late Joan Balise by her husband, to provide emergency loans to medical students. The fund at present totals approximately \$1,150.

So Chee Sue Scholarship Loan Fund. This fund was established in 1959 by Dr. Julius F. Sue in memory of his father, So Chee Sue, as a perpetual loan fund for senior medical students. The fund now amounts to approximately \$1,050.

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.

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 Credits.....		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 University, 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

* 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.

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

The University of Oregon Medical School gives primary consideration to well-qualified applicants who are residents of Oregon. Preference is also given to residents of neighboring western states which do not have medical schools, and to 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, Nevada, 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 2¼" x 2¼" 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 a *physical examination sheet*, completed by the student's physician.

Processing of Applications

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

Personal Interview. After examination of credentials, residents of Oregon generally are requested to appear for a personal interview with the Committee on Admissions. A personal interview is not requested of nonresidents whose credentials indicate that they cannot meet the competition for admission, 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 him 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 very 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 each term are available at 8:00 a.m. on the first day of the term.

Fees and Expenses

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

Regular Fees

Tuition, per term.....	\$ 70.00
Laboratory and course fee, per term.....	117.00
¹ Building fee, per term.....	8.00
² Incidental fee, per term.....	24.00
	\$219.00
Nonresident fee, per term (in addition to fees for resident students).....	\$126.00

Graduate Fees³

For graduate students registered for 7 or more term hours of work per term:

Tuition.....	\$ 20.00
Laboratory and course fee.....	40.00
¹ Building fee.....	8.00
² Incidental fee, per term.....	24.00
	\$ 92.00

For graduate students registered for 7 term hours of work or less.....\$12.50 per term hour (minimum, \$25.00 per term)

For graduate students employed as graduate or research assistants or fellows, per term:

¹ Building fee.....	\$ 8.00
² Incidental fee.....	24.00
	\$ 32.00

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 7 term hours of work or less.....\$18.00 per term hour (minimum \$36.00 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.

¹ Part-time special students (students taking 7 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 60.

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.

Evaluation fee.....	\$ 5.00
The evaluation fee is charged for the evaluation of transcripts submitted with the application for admission; not refundable.	
Late-registration fee, per day (no maximum).....	\$ 1.00
Registration day is the first day of each term; registration is not complete until the student pays his tuition and fees. The first penalty day for full-time students in medicine and medical technology is the second day after registration day. The first penalty day for graduate students is one week after registration day.	
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.....	\$ 657.00
Tuition and fees, full-time nonresident students.....	1,035.00
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

Under the regulations of the Oregon State Board of Higher Education, a minor student whose parents are bona fide residents of Oregon qualifies for enrollment under the resident fee; and a student whose domicile is independent of his father qualifies for enrollment under the resident fee if he presents convincing evidence that he established his domicile in Oregon three months prior to his first registration and that he was not a student at a collegiate institution during this period.

All other students are required to pay the nonresident fee, with the following exceptions: (1) a student who holds a degree from an accredited college or university (however, a nonresident student with a bachelor's degree enrolled in a curriculum at the University of Oregon Medical or Dental School leading to the degree of Doctor of Medicine or Doctor of Dental Medicine is required to pay the nonresident fee); (2) a student attending a summer session; (3) a student paying part-time fees; (4) a student who has been a resident of Hawaii or Alaska for the major portion of the two years immediately preceding the term for which exemption is granted in accordance with provisions of Oregon law.

A student who has been classified as a nonresident may be reclassified as a resident:

(1) In the case of a minor, if his nonresident parents have moved to Oregon and have established a bona fide residence in the state, or

(2) In the case of a student whose domicile is independent of that of his father, if the student presents convincing evidence that he has established his domicile in Oregon and that he has resided in the state for at least twelve consecutive months immediately prior to the term for which reclassification is sought.

A student whose official record shows a domicile outside of Oregon is *prima facie* a nonresident and the burden is upon the student to prove that he is a resident of Oregon. If his scholastic record shows attendance at a school outside of Oregon, he may be required to furnish further proof of Oregon domicile.

If any applicant has questions concerning the rules governing the administration of these policies, he should consult the Office of Admissions.

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 grading system of A to D is used at the Medical School. A is the highest and D 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 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-point average as established by the executive faculty. All students must take the Part I examination of the National Board of Medical Examiners upon completion of the second year. 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 chairmen 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 which is given in April. Failure to pass the examination necessitates taking a special departmental examination 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 reciprocity with that state, if such a reciprocal agreement is in force. In some instances completion of the basic science requirements may be arranged by reciprocity also.

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

Students are urged to take the Oregon basic science examination at the end of their sophomore year. This examination is given by the Basic Science Exam-

ining Committee of the Oregon State Board of Higher Education and is required for licensure in Oregon. Information concerning this examination may be obtained by writing the Basic Science Examining Committee, Oregon State Board of Higher Education, Eugene.

Curriculum in Medicine

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

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

The prescribed and recommended subjects for the three premedical years are described under ADMISSION AND REQUIREMENTS. In the first, second, third, and fourth years at the Medical School there are 5,316 class hours of required work. Descriptions of courses are to be found under the several departmental headings.

Prescribed Work

	First Year				Term hours
	Lecture	Lab.	Clinic	Aggregate class hours—Total	
An 411, 412, 413.....Gross Anatomy	84	288	....	372	15
An 414.....Embryology	24	72	....	96	4
An 415.....Histology	36	108	....	144	6
An 511.....Neurology	24	72	....	96	4
BCh 411, 412.....Biochemistry	96	180	....	276	13
Phy 411.....Human Physiology	60	108	....	168	8
Med Ps 411, 412.....Intro. to Medical Psychology	48	....	....	48	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 514.....Gyn. & Obs. Pathology	12	24	....	36	1½
Pth 515.....Laboratory Neuropathology	12	24	....	36	1½
Phe 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.....Introduction to Surgery	36	....	....	36	3
	516	636	72	1,224	64
Third Year					
Pth 655.....Surgical Pathology .....	....	30	....	30	1½
Med 630.....Third-Year Medicine	72	....	372	444	21½
Derm 615, 616.....Lect. & Demon. in Dermatology	24	....	....	24	2
Psy 615.....Lectures in Clinical Psychiatry	12	....	....	12	1
Psy 630.....Clinical Clerkship .....	....	36	....	36	1½
Rad 615.....Radiographic Diagnosis	36	....	....	36	3
PH 511.....Principles of Public Health	36	....	....	36	3
Sur 630.....Third-Year Surgery	72	....	342	414	20½
Eye 615.....Eye	12	....	....	12	1
ENT 615.....Ear, Nose & Throat	12	....	....	12	1
Obs-Gyn 630.....Third-Year Obstetrics & Gynecology	48	....	156	204	10½
Ped 630.....Third-Year Pediatrics	36	....	192	228	11
	360	66	1,062	1,488	77½

		Fourth Year			Term hours
		Aggregate class hours			
		Lecture	Lab.	Clinic	Total
CP 650.....	Clinical Pathology	12	....	....	12
Pth 653.....	Forensic Medicine	12	....	....	12
Pth 654.....	Oncology	12	....	....	12
Med 657.....	Occupational Medicine	12	....	....	12
Med 658.....	Medical Economics	12	....	....	12
Med 670.....	Fourth-Year Medicine	36	....	288	324
Derm 670.....	Dermatology Outpatient Clinic .....	....	....	36	36
DM 650.....	Dent. Facial Growth & Oral Path.	12	....	....	12
Psy 670.....	Psychiatry Outpatient Cl. & Clerk. ....	....	....	48	48
Sur 670.....	Fourth-Year Surgery	24	....	410	434
Eye 650.....	Eye	12	....	....	12
Eye 670.....	Eye Outpatient Clinic .....	....	....	24	24
ENT 670.....	Fourth-Year Ear, Nose & Throat .....	....	....	58	58
Obs-Gyn 670.....	Fourth-Year Obs. & Gyn. ....	....	....	228	228
Ped 670.....	Fourth-Year Pediatrics .....	....	....	120	120
		144	....	1,212	1,356

Recapitulation					
Aggregate class hours					Term hours
	Lecture	Lab.	Clinic	Total	
First year	384	864	....	1,248	56
Second year	516	636	72	1,224	64
Third year	360	66	1,062	1,488	77½
Fourth year	144	....	1,212	1,356	66½
	1,404	1,566	2,346	5,316	263¾

Prescribed Work by Departments

	Aggregate class hours
Anatomy	708
Bacteriology	216
Biochemistry	276
Clinical Pathology	120
Medical Psychology	48
Pathology	342
Pharmacology	168
Physiology	288
Medicine	1,008
Psychiatry	168
Radiology	36
Public Health	156
Surgery	884
Ophthalmology	48
Otolaryngology	70
Obstetrics & Gynecology	432
Pediatrics	348
Total hours	5,316

Description of Courses

Course Numbering System

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

- 400-499. Upper-division courses primarily for first-year students in medicine, but to which graduate students may be admitted on approval of the graduate adviser and department head concerned.
- 500-599. Courses primarily for students in basic medical science, but to which graduate students may be admitted on approval of graduate adviser and department head concerned.
- 600-699. Courses that are highly professional in nature may count toward a professional degree, but cannot apply toward an advanced academic degree (M.A., M.S., or Ph.D.).

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

501. Research
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

Assistant Professors

CLIVE W. MILLAR

RICHARD B. LYONS

Assistant Clinical Professor

JOHN M. PIERSON, JR.

Research Assistants

BARBARA DIMOND
CURTIS L. HOLZGANG

MARILYN LOMMICKY

DOLORES M. WAHL
WILLIAM S. WILSON

Student Assistants

JAMES H. GILBAUGH

STUART D. WILSON

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 radio-

* On leave of absence at Airlangga University Medical School, Surabaya, Indonesia, from August 1, 1962 to July 31, 1964.

logical 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.

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.

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

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

Journal Club.
History of Medicine.

An 512. **Analytical Embryology.** 4 hours spring.

Lectures and assigned readings on cytology and physiology of gametes, gamete transport, fertilization, cleavage and cell division, and on cell, tissue, and organ interaction in embryonic systems. The laboratory work is designed to introduce the advanced student to both classical and new techniques for the investigation of embryonic processes. Prerequisites: An 414, 415, BCh 411, 412, or equivalent. Lectures, 2 hours a week; laboratory, 6 hours a week.

An 513. **Analytical Histology.** 4 hours spring.

Lectures on the theory of fixation and staining; survey of physical and chemical techniques employed in modern histology. Practical experience with some of these techniques provided by laboratory exercises. Lectures and quizzes, 2 hours a week; laboratory, 6 hours a week. Prerequisites: An 415, 416, BCh 411, 412, or the equivalent. Limited to 10 students.

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 515. **Advanced Neuroanatomy and Computer Techniques.** Any term, hours to be arranged.

Neuroanatomy as an advanced quantitative science. Introduction to the use of the stationary time series, probability theory, and information theory in the investigation of the nervous system. Variables in the nervous system

which can be measured; and statistical procedures on these variables. Methods for data acquisition and computer solution of problems.

An 516. **Computer Programming.** Any term, hours to be arranged.

An introduction to what a computer can do. The characteristics of the IBM 1620: uses of Fortran (formula translation) and Symbolic Programming System (S.P.S.); elements of programming and examples of programs.

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 Emeritus

HARRY J. SEARS

Professor

ARTHUR W. FRISCH

Associate Professors

VALENTIN H. BONIFAS

EVELYN L. OGINSKY

LYLE VEAZIE

Assistant Professor

ERNEST A. MEYER

Fellow

NEYLAN VEDROS

Research Assistants

SANOMAR BARR

GORDON H. DAVIES

RUTH A. MYLLENBECK

Student Assistant

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 disease 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. Organized courses in immunology and bacteriology are given every other year.

Biochemistry

EDWARD S. WEST, Chairman of Department

Professors

DAVID S. JACKSON
HOWARD S. MASON

WILBERT R. TODD

JOHN T. VAN BRUGGEN
EDWARD S. WEST

Associate Professors

CLARISSA H. BEATTY

JACK H. FELLMAN
RUTH D. PETERSON

DEMETRIOS A. RIGAS

Assistant Professors

RICHARD T. JONES
NICOLAS E. KONTAXIS

NICHOLAS NICOLAIDES

ANNE M. PERLEY
ELLEN L. TALLMAN

Instructor

ROSE MARY BOCEK

Research Associates

KYO-JOEN AHN
BARRY ALLEN
ELINOR LEVIN

Y. MORITA
(Visiting Professor)

DONALD E. PICKERING
TOSHIO YAMANO
(Visiting Professor)

Research Assistants

MARILUISE ALLEN
RUTH M. ALLEN

LESTER LAAESTUEN
LAURENCE L. LAMBERT
P. MACMAHILL

JEAN SCOTT
JO ANN SPRUTE

Student Assistants

ARTHUR D. BOND
LARRY T. BRICE
THOMAS J. FRANZ

DAVID GAUDIN
SUSAN HUNTER
DANIEL W. NEBERT

HATSUMI PARK
PAUL T. RUSSELL
CONSTANCE SIMO

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

TYRA T. HUTCHENS, Chairman of Department

Professor

TYRA T. HUTCHENS

Associate Clinical Professors

HOMER H. HARRIS

JAMES H. LIUM

Assistant Professors

MARTHA L. HAMILTON

GERALD J. LATTIG

Assistant Clinical Professors

MARLOWE DITTEBRANDT

EUGENE W. LANDRETH

Clinical Associates

JAMES S. ARNOLD

ALBERT A. OYAMA

Instructors

MARY E. BAPTIST
(Medical Technology)

JAMES L. BRAMHALL

Clinical Instructors

NIGEL A. PICKERING

DAVID S. TAKALO

Research Fellow

JAMES E. HAINES

Research Assistants

JEANNE CARROLL HOPKINS

DAVID S. NEWPORT

Residents

WILLIAM J. BRADY
RANDELL E. DAVIS

WOLFGANG HAUSER

SUZANNE M. PAULSEN
OSCAR STENBERG

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 developments 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.

Medical Psychology

JOSEPH D. MATARAZZO, Chairman of Department

Professors

JUDSON S. BROWN
FREDERICK H. KANFER

JOSEPH D. MATARAZZO

GEORGE SASLOW
(Psychiatry)

Assistant Professors

JOHN O. KANGAS
RUTH G. MATARAZZO

RICHARD F. THOMPSON
JEANNE S. PHILLIPS

MORRIS WEITMAN
ARTHUR N. WIENS

Instructors

BERNADENE V. ALLEN

BRUCE V. BUTLER

ROBERT D. FITZGERALD

Postdoctoral Fellow

DAVID S. PHILLIPS

Research Assistant
DAVID BLISS

Graduate Student Trainees

GARY R. COLLINS
KENNETH D. CRAIG

HERBERT H. KRAUSS
ROGER PATRICK

LEIF G. TERDAL
STEPHEN M. WEISS

Medical Student Research Trainees

ROBERT E. KRAMER

WILLIAM G. PRESCOTT

JON A. SHAW

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.

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

Med Ps 507. **Seminar.** Any term, hours to be arranged.

Emotion and Motivation.

History and Systems of Psychology.

Theories of Personality.

Learning.

Statistics and Research Design.

Individual Differences.

Social Psychology.

Physiological Psychology.

Pathology

JACKSON T. CRANE, Chairman of Department

Professor Emeritus

FRANK R. MENNE

Professors

JACKSON T. CRANE

BENJAMIN V. SIEGEL

Clinical Professors

WARREN C. HUNTER

VINTON D. SNEEDEN

Associate Professors

*NELSON R. NILES

ABE OYAMADA

SEPTON R. WELLINGS

Associate Clinical Professors

SHELDON A. JACOBSON

E. COLTON MEER, JR.

Assistant Professor

JAMES E. ODELL

Assistant Clinical Professors

TERENCE H. COCHRAN
OTTO R. EMIG

JOSEPH E. NOHLGREN

JOHN C. SMITH, II
GRIER F. STARR

Clinical Associates

JAMES S. ARNOLD
ERNEST J. LOSLI

ALBERT A. OYAMA

NORMAN H. RICKLES
JOHN D. THORPE

Instructors

JEAN H. BOYES
ROBERT E. BROOKS

ROBERT E. COOPER
JOHN T. DIFFERDING

TOSHIO FUJIKURA
JAMES DE WITT RANKIN

Residents

ROBERT M. CONNELL
JOHN W. GRAHAM

ROBERT M. PERLMAN

JAMES R. PHILP
JOHN H. RIPPET

Medical Student Trainees

JOHN T. FLAXEL

RICHARD T. GOURLEY

* On leave of absence at Institute of Basic Medical Sciences, Royal College of Surgeons, London, England, from July 1, 1962 to June 30, 1963.

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; colored slides and scopicon orientation. Lectures and recitations, 3 hours a week; laboratory, 6 hours a week. 108 hours.

Pth 512. **General Pathology.** 5 hours winter.

Same as Pth 511 except that disease is related to body systems. Lectures, 3 hours a week; laboratory, 6 hours a week. 108 hours.

Pth 514. **Gynecological and Obstetrical Pathology.** 1½ hours spring.

Basic and practical consideration of diseases of female organs. Lectures, 1 hour a week; laboratory, 2 hours a week; 36 hours.

Pth 515. **Laboratory Neuropathology.** 1½ hours spring.

Laboratory work and demonstrations dealing with inflammatory reactions and degenerative conditions, with emphasis on general paresis, tabes dorsalis, and brain tumors. Correlative lectures in neurophysiology and clinical neurology. Gross pathological specimens and demonstrations used in illustrating the diseases studied. Lectures, 1 hour a week; laboratory, 2 hours a week. 36 hours.

THIRD YEAR

Pth 655. **Surgical Pathology.** 1¼ 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; 30 hours.

FOURTH YEAR

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.

ELECTIVE COURSES

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

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

Postdoctoral Fellows

DAVID MCCLURE

NAOMI VETTATH

Research Assistants

ROBERT E. BRUMMETT

EDWARD HOLLAND
LEONARD T. SIGELL

STERLING M. SORENSON

Student Assistants

DUDLEY C. SAUL

DELBERT REMY

RAUL VERNAL

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.

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

ROBERT E. SWANSON

JOSEPH B. TRAINER

Assistant Professors

ALFRED J. RAMPONE

W. ALDEN SPENCER

Instructor

EUGENE A. LENTINI

Research Associate

KISOU KUBOTA

Research Assistants

J. CRAIG HAMBLETON

WILLIAM R. RENCKEN

LYDD TIEDEMAN, JR.

*On leave of absence, Research Career Award program, Nuffield Institute for Medical Research, Oxford, England, from July 1, 1962 to June 30, 1963.

Medical Student Research Trainees

WESLEY A. COOK, JR.

ARTHUR E. LEWIS

MYRON E. SHIRASU

Postdoctoral Research Trainees

GULZAR S. CHHINA

ALAN H. TENCH

Predoctoral Research Trainees

RICHARD CHEU

CAROLYN MOLL

RICHARD PARK

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.

Phy 515, 516. **Physiological Instrumentation and Techniques.** 4 hours, terms to be arranged.

Lecture and laboratory work covering basic principles of measurement; signal generation by physiological systems; signal processing and display; principles of particle separation. The specific application of measuring instruments to problems of physiological measurement. Conference, 2 hours a week; laboratory, 6 hours a week. 96 hours.

Phy 517. **Advanced Cardiovascular Physiology.** 4 hours, term to be arranged.

Analysis of factors and conditions influencing the cardiovascular system. Special attention to pressure, chemo, and volume receptors, ventricular dynamics, the role of the C.N.S., myocardial metabolism, and the regional distribution of the blood volume. Conference, 2 hours a week; laboratory, 6 hours a week. 96 hours. Prerequisites: Phy 411, 412, BCh 411, 412.

Phy 518. **Biological Transport Processes with Special Reference to the Kidney.** 4 hours, term to be arranged.

Topics include: Fick's first and second laws of diffusion; membrane effects (diffusion of ions through an electrical field, molecular sieving, carrier-mediated diffusion, active transport, osmosis through "leaky" membranes); irreversible thermodynamic treatment of diffusion processes. Pertinent examples from the literature on artificial membranes, frog skin, muscle capillaries, and the renal tubule. Discussion of methods of study of renal

function (clearance, micropuncture, "stop flow," and slice techniques) and the counter-current hypothesis for concentration of urine solutes. Reading from monographs and original literature. Conference, 3 hours a week; laboratory, 6-hour periods on alternate weeks. 72 hours. Prerequisites: Phy 411, 412, calculus, physical chemistry.

Phy 519. Advanced Neurophysiology. 4 hours, term to be arranged.

A study of principles of investigation, observation, and inference and an extensive review in depth of the integrative functions of the central nervous system. Conference, 2 hours a week; laboratory, 6 hours a week. 96 hours. Prerequisites: Phy 411, 412, Phy 520, 521, An 511.

Phy 520. Energy Exchange. 3 hours, term to be arranged.

Special topics on energy exchange between organism and environment, with special reference to physiologic mechanisms regulating energy balance. The interrelationship between energy intake and energy expenditure in terms of factors operating to maintain constant internal temperature and constant adult body weight. Conference, 2 hours a week; laboratory, 3 hours a week. 60 hours. Prerequisites: Phy 411, 412, BCh 411, 412.

Phy 521. Respiratory Gas Transport. 3 hours, term to be arranged.

Dynamics of transport of respiratory gases, with emphasis on graphical analysis of pulmonary and circulatory phases of transport. Ventilation-perfusion relationships, unsteady state, gas stores of the body, and exchange and equilibrium of inert gases. Conference, 2 hours a week; laboratory, 3 hours a week. 60 hours. Prerequisites: Phy 411, 412.

Phy 522. Fetal and Neonatal Physiology. 3 hours, spring term.

Special physiology of the *in utero* state and of the transition to an independent existence. Placental gas exchange; acid-base homeostasis; fetal and neonatal circulation, anoxia tolerance, thermal homeostasis, and renal functions. Conference, 2 hours a week; laboratory, 3 hours a week. 60 hours. Prerequisites: Phy 411, 412, BCh 411, 412.

Clinical Departments

Medicine

HOWARD P. LEWIS, Chairman of Department

Professors Emeriti

NOBLE WILEY JONES

LAURENCE SELLING

Professors

DAVID W. E. BAIRD
MONTE A. GREER
HERBERT E. GRISWOLD
HANCE F. HANEY

CHARLES N. HOLMAN
DANIEL H. LABBY
HOWARD P. LEWIS
WALTER C. LOBITZ

EDWIN E. OSGOOD
RAYMOND R. SUSKIND
ROY L. SWANK
JOHN R. WALSH

Clinical Professors

BLAIR HOLCOMB
LYLE B. KINGERY

MERL L. MARGASON
HOMER P. RUSH

THOMAS S. SAUNDERS
WILLIAM H. SHELDON

Associate Professor Emeritus

MERLE W. MOORE

Associate Professors

*JAMES H. AUSTIN
DANIEL M. BACHMAN
JOHN A. BENSON, JR.
RICHARD L. DOBSON
JARVIS GOULD

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

LEONARD W. RITZMANN
ARTHUR J. SEAMAN
JAMES T. SPEROS
JOSEPH B. TRAINER
ZOLTON T. WIRTSCHAFTER

*On leave of absence. Visiting neurologist at All-India Institute of Medical Sciences, New Delhi, India, from September 1, 1962 to August 31, 1963.

Associate Clinical Professors

GEORGE B. LONG
FRANK PERLMAN
LEON F. RAY
MATTHEW C. RIDDLE
EDWARD E. ROSENBAUM

PHILIP SELLING
JOHN E. TUHY
FRANKLIN J. UNDERWOOD
SHELDON A. WALKER

Assistant Professors

MYRON R. GROVER, JR.
RICHARD T. JONES
DONALD G. KASSEBAUM
*JOHN W. KENDALL

ROBERT E. MASS
JAMES F. MORRIS
BERNARD PIROFSKY
FREDERIC W. SMITH
JANICE R. STEVENS

Assistant Clinical Professors

HULDRICK KAMMER
FREDERICK A. J. KINGERY
JOHN J. KRYGIER
ERNEST T. LIVINGSTONE
JOHN CLIFFTON MASSAR
ROY R. MATTERI

DONALD E. OLSON
LEONARD B. ROSE
MARVIN SCHWARTZ
JOHN W. STEPHENS
WILLIAM J. SWETT

Associates

LOUIS LINO

ROBERT D. MICHEL

Clinical Associates

ARTHUR W. BERG
ARTHUR M. BERGMAN
PAUL R. BURGNER
CHARLES W. COFFEN
WILLIAM COHEN
RUDOLPH M. CROMMELIN
JOHN R. FLANERY
DONALD E. FORSTER
MARVIN C. GOLDMAN
THOMAS S. HEALY
MARCUS M. HORENSTEIN
JAY C. HOYT
WILLIAM W. HURST

RICHARD H. KOSTERLITZ
LEWIS J. KRAKAUER
MARION L. KRIPPAEHN
WALTER J. KUHLE, JR.
WILBUR L. LARSON
AARNE J. LINDGREN
CHARLES E. LITTLEHALES
LENIER ARTHUR LODMELL
LAURENCE E. MACDANIELS
GORDON L. MAURICE
GUY R. MCCUTCHAN
RAYMOND A. McMAHON

NORBERT E. MEDVED
JOHN J. MURPHY
OTTO C. PAGE
JOSEPH F. PAQUET
JOHN W. PARTRIDGE
HEYES PETERSON
ROBERT E. RINEHART
GEORGE M. ROBBINS
WAYNE R. ROGERS
WILLIAM C. SCOTT
WILL L. SENDERS
JOHN L. SOELLING
DAVID K. TAYLOR

Instructors

ALAN H. ADAMS
MICHAEL D. BAIRD

ROBERT H. BIGLEY
DOUGLAS R. BOTTOMLY

GORDON D. HAYNIE
JACK H. HUTCHINSON

Clinical Instructors

SAMUEL T. BEALL
WILLIAM S. BECK
JOHN A. BLANCHARD
*RICHARD B. BYRD
JOHN D. CHASE
BRUCE R. CHENOWETH
CONRAD A. DELATEUR
ESTILL N. DEITZ
HAROLD P. DYVERT, JR.
STELLA FISHER
LYND L. FOLTS
LEO J. FREIERMUTH
DAVID C. FRISCH
LEONARD M. GOLDBERG
ROBERT H. GRAY
ROBERT L. HARE

WILLIAM J. HEMPHILL
PAUL O. KRETSHMAR
MERLE M. KURTZ
WILLIAM M. LAIDLAW
L. WILLIAM LARSON
LIEN-FU LO
STEPHEN W. MAK
HARRY W. MASENHIMER
DONALD P. MCGREEVEY
RUTH L. MERCER
(Dietetics)
THOMAS E. MORRIS
JOHN D. O'HOLLAREN
WILLIAM R. OLSON
ROY A. PAYNE

CARL A. PETERSON
CHARLES T. PINNEY
ROBERT G. PITTENGER
RALPH B. REAUME
PHILIP J. REILLY
JAMES A. RILEY
BEATRICE K. ROSE
BERNARD F. RYAN
HERBERT J. SEMLER
JOHN M. SHAW
GEORGE V. SQUIRE
RALPH R. SULLIVAN
CHARLES W. WATKINS
WARREN S. WELBORN
GORDON T. WOLFE
JAMES V. WOODWORTH

Residents

JODY ANDERSON
ERNEST J. BENNER
JOHN H. ELLISON
ELDON L. ERICKSON
CHARLES T. FISCHER

JOHN C. FLETCHER
RICHARD L. GRANT
GORDON R. HONDORP
FOSTER F. KEENE

KARSTEN C. LEWIS
WALTER E. MEIHOFF
RICHARD C. MUMTER
HENRY G. SCHMITT
WESLEY W. WILSON

* On leave for military service.

Allergy

FRANK PERLMAN, Head of Division

Associate Clinical Professor

FRANK PERLMAN

Assistant Clinical Professor

ROY R. MATTERI

Clinical Associate

GEORGE M. ROBBINS

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 Professors

JAMES METCALFE

LEONARD W. RITZMANN

Associate Clinical Professors

ISIDORE C. BRILL

PHILIP SELLING

FRANKLIN J. UNDERWOOD

Assistant Professors

J. DAVID BRISTOW

DONALD G. KASSEBAUM

*Assistant Clinical Professors*AUBREY M. DAVIS
WILLIAM P. GALEN

LEONARD B. ROSE

MARVIN SCHWARTZ
WILLIAM J. SWETT*Clinical Associates*

CHARLES W. COFFEN

WILLIAM W. HURST
GORDON L. MAURICE

WAYNE R. ROGERS

Clinical Instructors

LEONARD M. GOLDBERG

RALPH REAUME
JAMES A. RILEY

HERBERT SEMLER

Fellows

RODNEY CRISLIP

CYRUS FARREHI
WALDO E. HARRIS

DONALD W. SUTHERLAND

Chest Diseases

DONALD M. PITCAIRN, Head of Division

Associate Professors

DONALD M. PITCAIRN

JAMES T. SPEROS

Associate Clinical Professor

JOHN E. TUHY

Assistant Professor

JAMES F. MORRIS

Assistant Clinical Professor

DONALD E. OLSON

Associates

PETER J. GALANTE

ROBERT D. MICHEL

Clinical Associate

WILLIAM COHEN

Clinical Instructor

CHARLES T. PINNEY

Diabetes and Metabolism

DANIEL H. LABBY, Head of Division

Professor

DANIEL H. LABBY

Assistant Professor

RICHARD E. BAILEY

Assistant Clinical Professor

JOHN W. STEPHENS

Clinical Associates

RUDOLPH M. CROMMELIN

MARCUS M. HORENSTEIN

OTTO C. PAGE

Instructor

JACK H. HUTCHINSON

Clinical Instructor

ROBERT L. HARE

Research Assistant

VIRGINIA V. TISDALE

Endocrinology

MONTE A. GREER, Head of Division

Professors

MONTE A. GREER

DANIEL H. LABBY

Assistant Clinical Professors

KURT W. AUMANN

HULDRICK KAMMER

ERNEST T. LIVINGSTON

Clinical Instructor

WILLIAM M. LAIDLAW

Research Fellows

KUNIO MATSUDA

SHIN-ICHI SHIMODA

Research Assistants

CAROLYN DUYCK

ANN K. STOTT

Gastroenterology

JOHN A. BENSON, JR., Head of Division

Associate Professor

JOHN A. BENSON, JR.

Associate Clinical Professor

GEORGE B. LONG

Assistant Professor

FREDERIC W. SMITH

Assistant Clinical Professors

GEORGE A. BOYLSTON

JOHN J. KRYGIER

*Clinical Associates*MARVIN C. GOLDMAN
THOMAS S. HEALYLEWIS J. KRAKAUER
LENIER ARTHUR LODMELL
NORBERT E. MEDVEDHEYES PETERSON
JOHN L. SOELLING

Clinical Instructor
LEO J. FREIERMUTH

Fellow
CLIFFORD S. MELNYK

Hematology

EDWIN E. OSGOOD, Head of Division

Professor
EDWIN E. OSGOOD

Associate Professors
ROBERT D. KOLER DEMETRIOS A. RIGAS ARTHUR J. SEAMAN
(Experimental Medicine)

Assistant Professors
RICHARD T. JONES ROBERT E. MASS BERNARD PIROFSKY

Instructor
ROBERT H. BIGLEY

Clinical Instructors
LIEN-FU LO ROBERT G. PITTINGER

Research Associates
JOHN H. BROOKE MARIE L. DUERST

Research Assistants
CEMIL BAYRACKI GEORGE CUMMINGS DOROTHY ST. HELEN
MARIA CORDOVA EDWARD A. JOHNSON TOSHIO VEDA

Residents
MATEEL S. AZAR GRAHAM RICHARD L. HARRIS

Neurology

ROY L. SWANK, Head of Division

Professor
ROY L. SWANK

Clinical Professor
MERL L. MARGASON

Associate Professor
*JAMES H. AUSTIN

Associate Clinical Professor
ROBERT S. DOW

Assistant Professors
C. CONRAD CARTER JACK H. FELLMAN JANICE R. STEVENS
(Neurochemistry)

Associate
LOUIS LINO

Clinical Instructor
PHILIP J. REILLY

Research Associates
THOMAS FUGITA AAGOT GRIMSGAARD

Research Fellows
SHUNICHIRO INOUE VICTOR MILSTEIN YUTAKA NAKAMURA

Resident
ROCCA R. GAROFALO

* On leave of absence, visiting neurologist at All-India Institute of Medical Sciences, New Delhi, India, from September 1, 1962 to August 31, 1963.

Rheumatology

DANIEL M. BACHMAN, Head of Division

Associate Professor
DANIEL M. BACHMAN

Associate Clinical Professor
EDWARD E. ROSENBAUM

Clinical Associates
ROBERT E. RINEHART DAVID K. TAYLOR

Clinical Instructor
PAUL O. KRETCHMAR

Research Assistant
BELLE DRAGOON

Dermatology

WALTER C. LOBITZ, JR., Head of Division

Professors
WALTER C. LOBITZ, JR. RAYMOND R. SUSKIND

Clinical Professors
LYLE B. KINGERY THOMAS S. SAUNDERS

Associate Professor
RICHARD L. DOBSON

Associate Clinical Professors
FRANK W. CROWE JOYLE DAHL SHELDON A. WALKER
LEON RAY

Assistant Clinical Professors
FREDERICK A. J. KINGERY JOHN CLIFFTON MASSAR

Clinical Instructors
BRUCE R. CHENOWETH WILLIAM J. HEMPHILL JOHN M. SHAW
CONRAD A. DELATEUR BERNARD F. RYAN RALPH R. SULLIVAN
DAVID C. FRISCH CHARLES W. WATKINS

Research Associates
DORIS E. BROPHY NICHOLAS NICOLAIDES

Research Assistants
JUDITH BELL ELIZABETH HAINES PAUL V. WOOLLEY
MARY C. CAMPBELL MARY LOU PEARSON

Residents
ROBERT F. BELL ALBERT E. LARNER FRANKLIN PASS
GARY W. CAGE MYRON MEANS MAURICE K. ROSKELLEY
HUBERT D. CHINN MARVIN R. YOUNG

Dental Medicine

HAROLD J. NOYES, Head of Division

Clinical Professor
HAROLD J. NOYES

Clinical Associates

DONALD F. KELLY DONALD R. PORTER EVELYN M. STRANGE
(Pedodontics) NORMAN H. RICKLES CECIL A. VAN KLEEK
JAN J. MULLER WILBUR N. VAN ZILE

Clinical Instructors
ROBERT J. BRUCKNER JOHN P. DICKSON DUANE R. PAULSON
EUGENE L. BUNCH ALBERT W. GOULD BHIM S. SAVARA
JOHN PAUL JARABAK

Internal Medicine**REQUIRED COURSES****SECOND YEAR**

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

Systematic lectures on, and demonstrations of, 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 630. **Third-Year Medicine.** 21½ hours.

Third-year medicine introduces the student to the study of the broad field of internal medicine by means of lectures, hospital clerkship work, clinic and conference sessions.

Lectures throughout the year are designed to present the basic principles of medical diseases and to guide the student in his further study of the subject. Hospital clerkships provide opportunity for the intensive study of patients with medical diseases, and active participation, under supervision, in ward rounds and all other exercises and procedures connected with medical ward activity. Particular emphasis on the development of skill in history taking, physical examination, and differential diagnosis.

The student attends Medicine Staff Conferences, a special Neurological Teaching Clinic, and a one-hour Dermatology Clerkship each week, and studies selected psychiatric problems with the Department of Psychiatry. Lectures, 2 hours a week each term, fall, winter, and spring; 72 hours. Clerkships, conferences, and clinics, 31 hours a week, one section each term, 372 hours. 444 hours.

FOURTH YEAR

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. **Fourth-Year Medicine.** 15 hours, one section each term.

Students continue their study of patients in the broad field of internal medicine in the setting of the Outpatient Clinic, where, under the supervision of the staff, they apply the knowledge gained in the third year to the study and care of clinic patients.

Part of the time is spent in the General Internal Medicine Outpatient Clinic, the remainder in clinics of the subspecialty divisions of internal medicine, and in electives. The student spends 2 hours a week for 6 weeks in each of the following subspecialty clinics: Allergy, Cardiovascular Renal, Chest Diseases, Diabetes and Metabolism, Endocrinology, Gastroenterology, Hematology, Neurology, Rheumatology, and Tuberculosis.

All fourth-year students attend a Conference on Medical Therapy once weekly throughout the year and a General Clinical Conference, held by all clinical departments, once weekly during their fourth-year medicine, surgery, and obstetrics and gynecology assignments. Students also study selected psychiatric cases with the Department of Psychiatry.

Conference on Medical Therapy (lecture), 1 hour a week, fall, winter, and spring; 36 hours. General Clinical Conference, 2 hours a week, in sections; 24 hours. General Internal Medicine Outpatient Clinic, 15 hours a week for 6 weeks; 9 hours a week for 6 weeks; 144 hours. (In addition,

each student spends 6 hours a week for 6 weeks in Derm 670, Dermatology Outpatient Clinic; 36 hours.) Subspecialty clinics, 10 hours a week; 120 hours. Lectures, 36 hours; clinics and conferences, 288 hours. 324 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 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 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. This course is conducted jointly by the Departments of Medicine and Biochemistry. 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.

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

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. Selected studies in clinical neurology or in electroencephalography.

Dermatology

REQUIRED COURSES

THIRD YEAR

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

Presentation of clinical cases, with detailed discussion of etiology, symptomatology, and differential diagnosis. 1 hour a week; 24 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.

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

Professors

JOSEPH D. MATARAZZO
(Medical Psychology)

GEORGE SASLOW

Clinical Professors

HENRY H. DIXON

MAXWELL S. JONES

Associate Clinical Professors

CHARLES BRADLEY

HERMAN A. DICKEL

Assistant Professors

PAUL H. BLACHLY
JULIA S. BROWN
(Medical Sociology)

JOHN L. BUTLER

LENA KENIN
EUGENE E. TAYLOR

Assistant Clinical Professors

JAMES F. CARLIN
KENNETH D. GAVER

GERHARD B. HAUGEN

CARL V. MORRISON
JAMES G. SHANKLIN

Instructors

BERNADENE V. ALLEN
MICHAEL D. BAIRD

THELMA M. DANILSON
D. DUANE DENNEY

NANCY KOSTERLITZ
(Psychiatric Social Worker)

Clinical Instructors

SIEGFRIED R. BERTHELSDORF
HENRY H. DIXON, JR.
DONALD MCKINLEY

DUNCAN A. McLAUCHLAN
ROBERT MIGHELL
SEYMOUR R. MOSS
C. RUSSELL PARKER

WAYNE M. PIDGEON
WILLIAM W. THOMPSON
JOHN H. WATERMAN

Fellow

AGNAR A. STRAUMFJORD

Residents

JOSEPH W. BALL
MARY ANNE DeWITT
MARY JANE DUBINSKI

LEONARD L. HESTON
RUTH I. HICKOK
GRANT B. HUGHES
THOMAS E. MILLER

RICHARD H. PHILLIPS
ARLEN QUAN
ROSS L. SNYDER, JR.

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.** 1½ hours, one section each term.

Emphasis on the diagnosis and treatment of a wide variety of medical and psychiatric inpatient problems. 3 hours a week during the clerkship in medicine; 36 hours.

FOURTH YEAR

Ps 670. **Psychiatry Outpatient Clinic Clerkship.** 2 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. 4 hours a week; 48 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.

Radiology

CHARLES T. DOTTER, Chairman of Department

Professors

CLIFFORD V. ALLEN

CHARLES T. DOTTER

LEE B. LUSTED

Clinical Professor

WILLIAM Y. BURTON

<i>Associate Professors</i>		
JAMES B. HAWORTH		VINCENT C. HINCK
<i>Associate Clinical Professors</i>		
LOUIS H. FRISCHE	SELMA HYMAN	J. ROBERT LEE
<i>Assistant Professor</i>		
KURT R. STRAUBE		
<i>Assistant Professor of Radiological Technique</i>		
HILDA E. DRUM		
<i>Assistant Clinical Professors</i>		
WAYNE G. ERICKSON	MILTON D. HYMAN	JAMES R. RAINES
ARTHUR F. HUNTER	JOHN WAYNE LOOMIS	FRED C. SHIPPS
<i>Clinical Associates</i>		
SHERMAN E. REES		IVAN B. WOOLLEY
<i>Instructors</i>		
MARCIA K. BILBAO		HARRY SHACH
<i>Clinical Instructors</i>		
IRVING J. HOROWITZ	HARRY NEWMAN	ARTHUR L. OVREGAARD
JOHN L. HOWIESON	GREGORY B. NICHOLS	GEORGE F. SATTERWHITE
ROBERT S. MILLER		WALTER R. STAHL
<i>Residents</i>		
NORMAN O. AARESTAD	JOHN J. GALLUCCI	MELVIN P. JUDKINS
HENRY F. DRYGAS	JOHN T. JENKINS	MERLE L. MOBERLY
JOHN C. ENGLISH	IRWIN E. JOSLYN	GERALD L. WARNOCK

REQUIRED COURSE

THIRD YEAR

Rad 615. **Radiographic Diagnosis.** 1 hour each term, fall, winter, spring.

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 and discussion of student's reports at weekly seminar, final dictation by members of staff. Enrollment limited.

Public Health and Preventive Medicine

ADOLPH WEINZIRL, Chairman of Department

Professor

ADOLPH WEINZIRL

Associate Professor

HAROLD T. OSTERUD

Assistant Clinical Professor

RICHARD H. WILCOX

Instructor

RICHARD L. LESSEL

Clinical Instructors

F. SYDNEY HANSEN

ELTON KESSEL
THOMAS L. MEADOR

SAMUEL B. OSGOOD

Environmental Medicine

RAYMOND R. SUSKIND, Head of Division

Professors

A. WESLEY HORTON

RAYMOND R. SUSKIND

REQUIRED COURSES

FIRST YEAR

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

Introduction to elementary statistics useful in medical practice and research. Lectures, 2 hours a week; laboratory, 2 hours a week. 48 hours.

SECOND YEAR

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

Environmental factors in health and disease, including air, water, excreta, temperature, humidity, ventilation, etc. 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 Emeriti

WILLIAM K. LIVINGSTON

EUGENE W. ROCKNEY

Professors

J. ENGLEBERT DUNPHY

CLARE G. PETERSON

Clinical Professors

JOHN C. ADAMS

ARTHUR C. JONES
(Physical Medicine)

MILLARD S. ROSENBLATT

Associate Professor

WILLIAM W. KRIPPAAHNE

Associate Clinical Professors

ALLEN M. BOYDEN
WILLIAM S. CONKLIN

CLIFFORD E. HARDWICK
MATTHEW MCKIRDIE
OLIVER M. NISBET

EDWARD W. ST. PIERRE
ROBERT A. WISE

Assistant Professors

WILLIAM S. FLETCHER

STANLEY W. JACOB
ALBERT STARR

R. MARK VETTO

Assistant Clinical Professors

MARTIN A. HOWARD
 RUSSELL L. JOHNSRUD
 JOHN F. KANE

DONALD R. LAIRD
 LAWRENCE M. LOWELL

JOSEPH W. NADAL
 JOHN P. TROMMALD
 WERNER E. ZELLER

Clinical Associates

HARVEY W. BAKER
 JOHN W. BASSETT
 ADALBERT G. BETTMAN
 DARRELL C. BOLLAM
 JOHN G. P. CLELAND

ARCH DIACK
 THOMAS J. FOX
 WILLIAM M. GARNJOBST
 JOHN M. GUISS
 RUSSELL G. GUSTAVSON
 ROBERT W. MARCUM

J. KARL POPPE
 JOSEPH M. ROBERTS
 DAN M. STEFFANOFF
 EDWARD E. WAYSON
 NATHANIEL D. WILSON

Instructors

ROBERT F. FORAN

JAMES H. FOSTER

Clinical Instructors

JACK E. BATTALIA
 HARRY G. BECKWITH
 FREDERIC H. BENTLEY
 STANLEY F. BERQUIST
 PAUL M. BROWN
 NATHAN J. CAMPBELL
 KEITH M. CLISBY
 HUGH DONALD COLVER
 PETER DEWITT
 ZANLEY C. EDELSON
 LESTER H. EISENDORF
 GUY W. GORRELL
 LEROY E. GROSHONG
 J. GORDON GROUT
 ROGER W. HALLIN
 BERNARD P. HARPOLE

JOHN F. HAYES
 TOSHIO INAHARA
 RODERICK L. JOHNSON
 REINHOLD KANZLER
 ROBERT W. KENDALL
 G. PRENTISS LEE
 VERNER V. LINDGREN
 RICHARD H. LINDQUIST
 R. KENT MARKEE
 WILLARD L. MATHIESON
 COLIN W. MCCORD
 DAVID B. MILLER, JR.
 RAYMOND E. MOORE
 (Physical Medicine)
 H. MINOR NICHOLS

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

Research Fellow

P. J. DESHPANDE

Residents

WALTER F. ALEXANDER, JR.
 WILLIAM C. AWE
 FOLKERT O. BELZER
 JOHN C. BIGELOW
 JAMES J. CHANDLER
 RICHARD D. CHAPMAN
 DONALD L. CLELAND

DANIEL L. DENNIS
 LATHAM FLANAGAN, JR.
 THOMAS J. FOGARTY
 RODNEY H. HERR
 KEITH F. HARCOURT
 ROBERT P. HODAM
 THOMAS K. HUNT

RICHARD A. KINGSBURY
 KEITH A. ROBERTSON
 RALPH D. ROBERTSON
 RICHARD C. ROGERS
 RICHARD G. SANDERSON
 ROBERT L. WEBB
 JAMES A. WOOD

Anesthesiology

FREDERICK P. HAUGEN, Head of Division

Professor

FREDERICK P. HAUGEN

Assistant Professors

JOHN CLARENCE ROTH

REX J. UNDERWOOD

Clinical Associate

ELLERY L. LANDERS

Instructors

ANNELENE J. AMIRANA

DAVID GOWING

Clinical Instructors

JOHN O. BRANFORD
 DONALD M. BRINTON
 GENEVIEVE S. BURK

DONALD P. DOBSON
 J. COLEMAN EDWARDS
 JAMES V. HARBER

ELLERY L. LANDERS
 MARION E. PALMER
 PAUL E. SCHAFF

Residents

SAMUEL T. BENNETT
 RICHARD W. CAUTHORN
 GUNNAR E. CHRISTIANSEN

CLAYTON H. DE BRUIN
 JAMES A. FRASER
 JOANNE JENE

BRUCE A. PETERS
 LAWRENCE A. SWETLAND
 GEORGE ZUPAN

Neurosurgery

GEORGE M. AUSTIN, Head of Division

Professor

GEORGE M. AUSTIN

Clinical Professor

JOHN RAAF

Assistant Clinical Professors

EDWARD W. DAVIS

KENNETH E. LIVINGSTON

Clinical Associate

EDWARD K. KLOOS

Clinical Instructors

RAY V. GREWE
 BRUCE N. KVERNLAND

HAROLD D. PAXTON

Residents

JOHN R. CLARK
 RALPH F. KAMM

AL H. KUYKENDALL
 MOHAMMED RAFIULLAH

Orthopedic Surgery

WILLIAM E. SNELL, Head of Division

Professor Emeritus

HARRY C. BLAIR

Clinical Professor

C. ELMER CARLSON

Associate Professor

WILLIAM E. SNELL

Associate Clinical Professors

JOE B. DAVIS
 LAWRENCE NOALL

FRANK B. SMITH

Assistant Clinical Professors

RICHARD F. BERG

HAROLD E. DAVIS
 GURNEY A. KIMBERLEY

Clinical Associates

ORVILLE N. JONES
 LAURENCE R. LANGSTON

JAMES A. MASON
 FAULKNER A. SHORT
 DONALD B. SLOCUM

Instructor

RODNEY K. BEALS

Clinical Instructors

RICHARD P. EMBICK
 CHARLES A. FAGAN
 H. FREEMAN FITCH
 ROBERT J. FRY
 CALVIN E. GANTENBEIN
 JOHN HARDER
 CARL L. HOLM

CALVIN H. KIRST
 ROBERT L. LARSON
 ROLLAND C. MERRIFIELD
 SAMUEL OSBORN
 ROBERT M. RANKIN
 EDWIN G. ROBINSON

Residents

ARTHUR L. ECKHARDT
 HOWARD E. JOHNSON
 DONN K. MCINTOSH

RICHARD L. MERCER
 MICHAEL R. RASK
 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

Assistant Clinical Professors

THOMAS A. DAVIS

ROBERT B. HIGGINS

*Clinical Associates*EMERSON J. COLLIER
THOMAS A. DAVIS
CHARLES FERGUSONTHEODORE H. LEHMAN
CURTIS A. MACFARLANEROBERT J. MOORE
ARNOLD RUSTIN
JOHN G. VANDENBERG*Instructor*

ANIS M. BEHNAM

*Clinical Instructors*G. DONALD BEARDSLEY
CHARLES E. CATLOW, JR.

ROBERT B. GREENE, JR.

DAVID P. PAULL
GERALD W. SCHWIEBINGER*Residents*WILLIAM Y. DUNCAN III
JERRY D. GIESY
GERALD N. HECKERROBERT C. LOOMIS
JOHN M. OCKER
IVAN L. SANDOZRALPH V. STAGNER
JOHN H. STONE
JAMES K. VARNEY

REQUIRED COURSES

SECOND YEAR

Sur 610. Introduction to Surgery. 1 hour winter, 2 hours spring.

Designed to introduce the student to the history and broad principles of surgery. Application of the basic sciences to surgical practices, with particular reference to such topics as asepsis, shock, wound healing, cancer, infection, the metabolic response to injury, etc. Lectures, 1 hour a week, 12 hours, winter; 2 hours a week, 24 hours, spring. 36 hours.

THIRD YEAR

Sur 630. Third-Year Surgery. 20½ hours.

The third-year course in surgery gives the student a broad perspective built around concepts of injury and disease. In the second year he learned the principles of wound healing. The third year focuses on the problems of wound healing in relation to surgery of the gastrointestinal tract. The student is also introduced to the techniques of physical examination, asepsis, and operating-room conduct. Emphasis is placed primarily on small-group teaching with ward rounds, seminars, and case-analysis clinics. Patient study and experience in General Surgery is provided in the General Surgery Outpatient Clinic. In Orthopedics and Urology the student works both in a hospital clerkship and in the Outpatient Clinic.

Experience in the Outpatient Clinic and on the wards is supplemented by case-analysis clinics and seminars. A systematic series of lectures covering the diagnosis and treatment of orthopedic, urologic, and general surgical conditions supplements clinical experience and serves as a guide for student reading. In anesthesiology, an integrated series of lectures and demonstrations covers the history of anesthesia, applied physiology, anesthetic techniques, and the use of anesthetic agents. Neurosurgical lectures are designed to acquaint the student with the manner of diagnosis and the types of treatment available to patients with the major problems of neurologic surgery.

Lectures in General Surgery, Orthopedic Surgery, Urology, and Anesthesiology, 2 hours a week, fall, winter, and spring; 72 hours. General Surgery Outpatient Clinic; 60 hours. Orthopedic Surgery Clerkship, 26 hours a week for 3 weeks, in sections; 78 hours. Orthopedic Outpatient Clinic, 8 hours a week for 3 weeks, in sections; 24 hours. Urology Clerkship, 23 hours a week for 3 weeks, in sections; 69 hours. Urology Outpatient Clinic, 9 hours

a week for 3 weeks, in sections; 27 hours. Neurosurgery Seminar, 1 hour a week for 12 weeks; 12 hours. General Surgery Clerkship-Clinic, 12 hours a week for 6 weeks; 72 hours. 414 hours.

FOURTH YEAR

Sur 670. Fourth-Year Surgery. 19 hours.

The fourth-year course is designed to give the student close continuous contact in the hospital with surgical patients. In the second year the student was shown the broad principles of surgery. In the third year the application of these principles to specific disease areas was demonstrated and learned. In the fourth year the student sees the practical application of these principles to individual patients and becomes, for the first time, an active member of the surgical team and participates in diagnosis, preoperative preparation, operations, and postoperative care. By continuous contact with the patient, he learns the total responsibilities of surgery and the surgeon.

Clerkship experience in Neurosurgery is included, as well as conferences, clinics, patient studies, and demonstrations in Physical Medicine and Surgical Clinical Pathology. Lectures in Urology and Surgery round out his knowledge. The student attends the weekly General Clinical Conference.

Lectures in General Surgery and Urology, 1 hour fall and winter; 24 hours. General Surgery Clerkship and Clinic, 33 hours a week for 8 weeks; 272 hours. Neurosurgery Clerkship, 29 hours a week for 2 weeks; 58 hours. Surgical Clinical Pathology and Physical Therapy, 4 hours a week for 4 weeks each; 32 hours. General Surgical Clinic, 2 hours a week for 24 weeks. Lectures, 24 hours; Clerkships and conferences; 406 hours. 434 hours.

ELECTIVE COURSES

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

For third- or fourth-year students.

Sur 690. Surgery Outpatient Clinic. Any term, hours to be arranged in accordance with the requirements of the regular Surgery Outpatient Clinic Course.**Anes 601. Research.** Any term, hours to be arranged.

For third- or fourth-year students.

Neu Sur 601. Research. Any term.

Clinical and basic research projects in neurosurgery. Intended for students primarily interested in careers in neurology and neurological surgery.

Neu Sur 640. Differential and Regional Neurosurgical Diagnosis and Therapeutics. ½ hour.

Discussions and demonstrations of the altered neurophysiologic background and anatomy encountered in patients with neurosurgical problems. Emphasis on student interest and participation in discussion of the basic concepts involved. Lectures and demonstrations. 1 hour a week; 12 hours.

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.**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.

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

Ophthalmology

KENNETH C. SWAN, Chairman of Department

Professor

KENNETH C. SWAN

Clinical Professors

AUGUSTUS B. DYKMAN

E. MERLE TAYLOR

Associate Professors

ROBERT P. BURNS

LEONARD CHRISTENSEN

Assistant Clinical Professors

ROBERT V. HILL

JOHN P. KEIZER
THOMAS E. TALBOT

ROBERT W. ZELLER

Clinical Associates

PAUL F. BAILEY
ROBERT H. BEDROSSIAN
ROBERT E. FISCHER

ALFRED J. KREFT
GEORGE P. LYMAN

RICHARD E. MARKLEY
EDWARD N. McLEAN
JOSEPH I. MORELAND

Instructor

W. LEIGH CAMPBELL

PAUL J. ROBINSON

Clinical Instructors

ROBERT C. COWGER

CLYDE H. DuVALL, JR.

WALTER R. ENDERS

Residents

JAMES DOLF
ROBERT F. HANEY

DONALD R. JOHNSON
KENNETH S. KILBORN
RICHARD A. LALLI

SAM L. MEYER
K. NOLEN TANNER

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, Chairman of Department

Professor

DAVID D. DeWEESE

Clinical Professors

PAUL BAILEY

GEORGE E. CHAMBERLAIN
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

KENNETH D. SMYTH
T. GLENN TEN EYCK

Clinical Instructors

ROBERT R. COOPER
JAMES D. DIXON
(Audiology)
BYRON L. FORTSCH

RICHARD A. HODGSON
DONALD H. HOLDEN

WARREN E. JOHNSON
(Audiology)
ALEXANDER E. PETROFF
WILLIAM D. SWANCUTT

Special Fellow

LYNN B. ROBINSON

Residents

RUPERT O. BROCKMANN
DONALD H. HEITHECKER

DARRELL W. LANDREY
RICHARD P. PANIAN

ALEXANDER J. SCHLEUNING II
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.

FOURTH YEAR

ENT 670. **Fourth-Year Ear, Nose, and Throat.** 2½ hours, one section each term.

Inpatient hospital rounds and bedside teaching, outpatient examination, diagnosis, use of special instruments and treatment programing under supervision, and workup of patients and assigned problems. In addition to the inpatient and outpatient examination, surgical cases are followed to the operating room and afterwards. Selected time is given to textbook review and basic anatomy. The student is also introduced to the problems of the hard of hearing from diagnostic, treatment, and rehabilitation viewpoints, including special education. Clerkship, 18 hours a week for 2 weeks; Outpatient Clinic, 11 hours a week for 2 weeks. 58 hours.

ELECTIVE COURSES

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

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. DUFFEE

Associate Clinical Professors

CLIFFORD FEARL

GUNNAR E. C. NELSON
GOODRICH C. SCHAUFFLER

WILLIAM M. WILSON

Assistant Professor

FRANK SHUBECK

Assistant Clinical Professors

RODERICK C. BLATCHFORD

DUNCAN R. NEILSON

Instructor

TOSHIO FUJIKURA

Clinical Instructors

THEODORE M. BISCHOFF
 RICHARD N. BOLTON
 MELVIN W. BREESE
 LE ROY S. CASPERSEN
 CHARLES L. CHAVIGNY
 C. LOUISE CLANCY
 ENRIQUE M. DE CASTRO
 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
 EDWARD N. PETERSON
 JESSE L. RAY
 QUINTEN SCHERMAN
 ELIZABETH H. SCHIRMER
 WILLIAM O. THOMAS
 THOMAS A. TREANOR
 JAMES M. WHITELY

Residents

JACK W. BELL
 ROBERT P. DOUGHTON
 MARK R. HANSCHKA

HARRY A. LEE
 BURTON W. NEWTON

HAROLD E. RAY
 WARREN F. ROGERS
 JACK M. SCHNEIDER II

REQUIRED COURSES

THIRD YEAR

Obs-Gyn 630. **Third-Year Obstetrics and Gynecology.** 10½ hours.

Lectures, demonstrations, and outpatient clinic work in obstetrics and gynecology. The lectures include discussions of the anatomy of the female pelvis and genital tract; female genital development, function, and disease; the physiology and diagnosis of pregnancy, and the course and management of normal and abnormal labor and the puerperium. Obstetrical techniques with manikin demonstration are presented.

Outpatient clinic work in obstetrics includes prenatal and postnatal clinics. A special obstetric problem clinic considers complications of pregnancy. Gynecology outpatient clinics provide opportunity for the examination and study of patients, and experience with problems of office gynecology, postoperative follow-up, and cancer detection. Gynecological oncology and pathology are demonstrated.

Lectures, 2 hours each week, fall and winter terms, 48 hours. Obstetrics Outpatient Clinics, 20 hours a week for 6 weeks, in sections, 120 hours; Gynecology Outpatient Clinics, 6 hours a week for 6 weeks, in sections, 36 hours. 204 hours.

FOURTH YEAR

Obs-Gyn 670. **Fourth-Year Obstetrics and Gynecology.** 9½ hours.

Fourth-year students continue their study of obstetrics and gynecology by means of hospital clerkships, attendance and participation in deliveries, and work in the Gynecology Tumor Clinic.

Obstetrical cases in the hospital examined and followed; active participation in ward rounds and teaching conferences. Each student must observe 12 deliveries, participate in at least 6 deliveries, and follow the course of the mother and child during an assigned period. Students also examine and follow assigned gynecological hospital patients and participate in ward rounds and conferences. Attendance at Gynecology Tumor Outpatient Clinic and Therapy Conference once weekly is required.

Obstetrics and Gynecology Clerkship, 33 hours a week for 6 weeks, in sections; 198 hours. Gynecology Tumor Clinic, 3 hours a week for 6 weeks, in sections; 18 hours. General Clinical Conference, 2 hours a week for 6 weeks; 12 hours. 228 hours.

ELECTIVE COURSES

Obs-Gyn 601. **Research.** Any term, hours to be arranged.

Obs-Gyn 607. **Obstetrics Seminar.** Any term, hours to be arranged.
 Third or fourth years.

Obs-Gyn 640. **Fetal Neonatal Death Conference.** ½ hour, any term.

Obs-Gyn. 690. **Obstetrics and Gynecology Outpatient Clinic.**

Pediatrics

RICHARD W. OLMSTED, Chairman of Department

Professors

RICHARD W. OLMSTED

DONALD E. PICKERING

RICHARD L. SLEETER

Clinical Professors

JOSEPH B. BILDERBACK

ALLAN J. HILL, JR.

Associate Professors

S. GORHAM BABSON
 WILLIAM M. CLARK, JR.

GEORGE W. DANA
 RUDOLPH C. H. ENGEL

HEROLD S. LILLYWHITE
 (Speech Pathology)
 L. PAUL RASMUSSEN

Associate Clinical Professors

MORRIS L. BRIDGEMAN

SCOTT GOODNIGHT

ALVIN D. WERT

Assistant Professors

GEORGE R. KERR
 VICTOR D. MENASHE

ROBERT J. MEECHAN

WILLIAM W. ORNDUFF
 ROBERT L. TIPS

Assistant Clinical Professors

CARL G. ASHLEY
 JOHN H. BENWARD
 ROBERT W. BLAKELEY
 (Speech Pathology)

QUINTEN W. COCHRAN
 WALTER A. GOSS
 JOHN A. LARRABEE
 JOHN ARTHUR MAY

EDGAR M. RECTOR
 PAUL E. SCHICK, JR.
 LENDON H. SMITH
 CHARLES VARGA
 JAMES P. WHITTEMORE

Instructors

ROBERT A. CAMPBELL
 KATHRINE S. FRENCH
 (Anthropology)

RICHARD W. HARTMANN, JR.
 FREIDA M. WEINER

NORTON B. YOUNG
 (Audiology)

Clinical Instructors

DANIEL K. BILLMEYER
 JOHN W. BUSSMAN
 W. ROBERT DAY
 JOHN R. HANSEN
 JOSEPH T. HART
 EDWARD L. HENDRICKS

WILLIAM E. HILL
 PETER H. HURST
 DONALD F. KELLEY
 DAVID W. MACFARLANE
 HARRY C. MORSE
 GEORGE A. NASH

GEORGE J. SCHUNK
 WILLIAM M. SNOOK
 JOHN L. STEVENSON
 CLEMENS W. VAN ROOY
 CHARLES VARGA
 GEORGE F. WALLIKER

Fellow in Clinical Pediatrics

WILLIAM L. CARSON

Research Fellow

JAMES ELLIOT

Residents

WILMA L. CARSON
 PEGGY L. COPPLE
 WILLIAM V. COYNER

JAMES T. HARTFORD
 CAROLINE J. KEEGAN

ARTHUR D. KRACKE
 MICHAEL J. MILLER
 WILLIAM H. SACK

REQUIRED COURSES

THIRD YEAR

Ped 630. **Third-Year Pediatrics.** 11 hours.

Third-year pediatrics instruction includes lectures and clerkship. The lectures provide a survey of pediatrics from a correlative standpoint, supple-

mented by pertinent demonstrations. The clerkship provides the opportunity for the student to study and examine a wide spectrum of pediatric patients and learn to assume ward responsibility under direct supervision of the staff. Individual and group discussions are included as a regular part of the work. Lectures, one hour a week, each term, fall, winter and spring; 36 hours. Ward Clerkship, 32 hours a week for 6 weeks, in sections; 192 hours. 228 hours.

FOURTH YEAR

Ped 670. **Fourth-Year Pediatrics.** 9 hours, one section each term.

The student continues his study of pediatrics in an outpatient clinic setting and participates actively, under staff supervision, in the study and care of pediatric patients in the various pediatric clinics. Part of his time is spent in the General Pediatric Outpatient Clinic, and the remainder in the specialty clinics of pediatrics, each of which meets 2 hours each week for 6 weeks. The specialty clinics are Allergy, Cardiology, Endocrinology, Hematology, Metabolism, and Neurology. Individual and group discussions are held in all clinics. General Pediatric Outpatient Clinic, 15 hours a week for 6 weeks, in sections; 90 hours. Specialty Clinics, 20 hours a week for 6 weeks, in sections; 120 hours. 210 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, medical psychology, pathology, pharmacology, and physiology. Work toward the master's degree is offered in 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.

Medical Psychology: general and advanced psychology.

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 chairman of the department in which the student desires to work, and (3) approval by the Graduate Council and the dean of the Medical School. As a part of the application data, satisfactory scores on the aptitude test and on one or more of the advanced-test portions of the Graduate Record Examination are required to be furnished by the applicant. 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 A, B, or C are earned. A minimum yearly weighted grade-point average of 3.00 must be maintained in courses in the student's major field. Failure to maintain an adequate grade-point average will result in action recommended by the chairman of the department and the Graduate Council.

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 chairman.

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 chairman 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 chairman 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 in any graduate program must be 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 chairman 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 61.

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 140 appointments. Residency training follows one year of internship and consists of two to five years of study devoted entirely to one specialized field of medicine. Instruction is given both in clinical departments and in related basic science departments of the school.

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

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

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

Postgraduate Program

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

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

ing 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* is planned for graduates of diploma-school programs who are seeking a broad background of general and professional educational preparation to extend their professional practice. Public health nursing is an integral part of the program. The curriculum also provides opportunities for a broadened foundation in general education, liberal arts, and 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 \$75.00 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 procedures, X-ray techniques, positioning of patients, hospital ethics, record keeping, department operation, and X-ray therapy. Students receive clinical experience in special X-ray procedures during their second year of training. All instruction is under the direction of the chairman 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

TYRA T. HUTCHENS, Director of Medical Technology Program

Professors

RAYMOND D. GRONDAHL

TYRA T. HUTCHENS

Associate Clinical Professors

JAMES H. LIUM

HOMER H. HARRIS

Assistant Professors

GERALD J. LATTIG

MARTHA L. HAMILTON

Assistant Clinical Professors

MARLOWE DITTEBRANDT

EUGENE W. LANDRETH

Instructors

MARY E. BAPTIST

JAMES L. BRAMHALL

Clinical Instructors

NIGEL A. PICKERING

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.

Credits earned in the medical technology program may be applied toward a bachelor's degree. The student who intends to apply for a bachelor's degree must complete the work required for the degree in the Oregon State System of Higher Education, or in the institution at which he obtained his college preparation, before entering upon the fourth year in medical technology at the University of Oregon Medical School.†

A graduate program leading to the Master of Science degree is offered for qualified students.

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	\$ 30.00	\$ 90.00
Laboratory and course fee	36.00	108.00
Building fee	8.00	24.00
Incidental fee (student health service)	24.00	72.00
Total for Oregon residents	\$ 98.00	\$294.00
Total for nonresidents who pay an additional \$80.00 per term	\$178.00	\$534.00

Medical technology students pay the "special fees" listed on pages 61-62 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
*CP 520. Radioisotope Technique	1
	17

Winter Term

MT 411. Clinical Bacteriology	6
MT 425. Clinical Biochemistry	6
MT 431. Special Hematology	3
*CP 521. Radioisotope Technique	1
	16

Spring Term

MT 414. Urinalysis	4
MT 420. Histological Technique	4
MT 436. Applied Serology	5
MT 437. Clinical Parasitology	3
*CP 522. Radioisotope Laboratory	1
	17

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 organ-

† 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 preparatory programs.

*See page 71.

isms. 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: lectures, 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 term, hours to be arranged.

Enrollment and Degrees

Degrees Conferred June 8, 1962

Doctor of Medicine

GRADUATE

INTERNSHIP

Curtis D. Adams.....	U. S. Naval Hospital, Oakland, Calif.
James Wellington Asaph.....	The New York Hospital, New York City, N. Y.
Dee Daryl Atkinson.....	Martin Army Hospital, Fort Benning, Ga.
Herbert C. Baker.....	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Larry L. Bassinger.....	Sacramento County Hospital, Sacramento, Calif.
Richard Wallace Beigle.....	Receiving Hospital, Detroit, Mich.
Charles Sabin Belknap.....	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
John David Bisehel.....	Emanuel Hospital, Portland, Ore.
Dudley M. Bright.....	U. S. Public Health Service Hospital, Staten Island, N. Y.
Howard Arthur Buell.....	Memorial Hospital of Long Beach, Long Beach, Calif.
Tong Cheong Cheah.....	Sacramento County Hospital, Sacramento, Calif.
Farrel Lawrence Clare.....	Jefferson Davis Hospital, Houston, Texas
Lyle Edmund Crecelius.....	Gorgas Hospital, Balboa Heights, Canal Zone
James C. Dinneen.....	Providence Hospital, Portland, Ore.
Edwin Curtiss Everts.....	Gorgas Hospital, Balboa Heights, Canal Zone
Arthur Raymond Fry, Jr.....	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Thomas Andrew Gail.....	U. S. Naval Hospital, San Diego, Calif.
John Milton Gevurtz.....	Cincinnati General Hospital, Cincinnati, Ohio
James Alan Haaland.....	Sacramento County Hospital, Sacramento, Calif.
Arthur Lyddon Hauge.....	U. S. Naval Hospital, San Diego, Calif.
David Lee Haugen.....	Santa Clara County Hospital, San Jose, Calif.
Leonard LeRoy Hays.....	Brooke General Hospital, San Antonio, Texas
H. Douglas Hering.....	William Beaumont General Hospital, El Paso, Texas
Frederick Charles Hoesly.....	U. S. Public Health Service Hospital, Seattle, Wash.
Leslie William Inman.....	U. S. Air Force Hospital, Andrews Air Force Base, Washington, D.C.
Edwin Clark James.....	Walter Reed General Hospital, Washington, D.C.
Robert Marshall Jelderks.....	Gorgas Hospital, Balboa Heights, Canal Zone
Gary Cluff Jenkins.....	Emanuel Hospital, Portland, Ore.
Kit George Johnson.....	University of Illinois Research and Educational Hospitals, Chicago, Ill.
Richard Haviland Johnson.....	Good Samaritan Hospital, Portland, Ore.
Robert G. Kaufman.....	General Hospital of Riverside County, Arlington, Calif.
Alan Louis Keaton.....	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Philip John Keizer.....	Ancker Hospital, St. Paul, Minn.
Delbert Merrill Kole.....	Gorgas Hospital, Balboa Heights, Canal Zone
James Calvin Krause.....	Emanuel Hospital, Portland, Ore.
Michael N. Landis.....	U. S. Naval Hospital, San Diego, Calif.
Ronald G. Lewis.....	Mary Hitchcock Memorial Hospital, Hanover, N. H.
Thomas Weimar Mann.....	Providence Hospital, Portland, Ore.
Carl Mark III.....	Sacramento County Hospital, Sacramento, Calif.
Winston Earl Maxwell.....	San Joaquin General Hospital, Stockton, Calif.
GRADUATE	
Norbert Joseph McNamara.....	U. S. Public Health Service Hospital, Staten Island, N. Y.
Donald L. McNeill.....	Receiving Hospital, Detroit, Mich.
Russell W. Newcomb.....	Marion County General Hospital, Indianapolis, Ind.
James Stuart Noble.....	St. Luke's Hospital, Spokane, Wash.
Richard Otto Panzer.....	Mary Imogene Bassett Hospital, Cooperstown, N. Y.
George Nicholas Pasto.....	St. Vincent's Hospital, Portland, Ore.
Roy Edward Paulsen, Jr.....	Santa Clara County Hospital, San Jose, Calif.
Charles Edwin Richardson.....	Fitzsimmons General Hospital, Denver, Colo.
Peter H. R. Roberts.....	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
John Platt Rundle.....	Providence Hospital, Portland, Ore.
George Richard Schoedinger III.....	Baylor University Medical Center, Dallas, Texas

Walter Robert Schreck	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Donald Harvey Scott	Emanuel Hospital, Portland, Ore.
Perry R. Sloop, Jr.	Cincinnati General Hospital, Cincinnati, Ohio
Lauren Keith Stanley	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Laddie Eugene Stover	San Bernardino County Hospital, San Bernardino, Calif.
John Michael Talbot	Walter Reed General Hospital, Washington, D.C.
Newton L. Thompson	Sacramento County Hospital, Sacramento, Calif.
Fredric J. Van Rheenen	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Ronald W. Vinyard	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Joyce M. Walker	Emanuel Hospital, Portland, Ore.
David Arthur Weeks	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Lawrence H. Welter	Philadelphia General Hospital, Philadelphia, Penn.
Eugene Lyle Wonderlick	Rochester General Hospital, Rochester, N. Y.
Oak C. Wong	Sacramento County Hospital, Sacramento, Calif.
Oakland Wong	Sacramento County Hospital, Sacramento, Calif.
Eldon Wilfrid Younger	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Ira Minter Yount	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.

Doctor of Philosophy

David Albert McClure

Master of Science

John Francis Bellinger	Kit George Johnson	James Stuart Noble
David Gaudin	Richard Haviland Johnson	Perry R. Sloop, Jr.
Frederick Charles Hoesly	Delbert Merrill Kole	Donald G. Weber

Enrollment 1961-62

Medical Students

First-Year Class

Jerald E. Albrich	J. Michael Keane	Dean C. Rich
John G. Apostol	Russell J. Keizer	John P. Ritchey
Michael L. Augee	Robert K. Koida	Francis A. Roberts
Peter W. Bergreen	E. Louise Kremkau	Gary B. Rothenberger
Margaret G. Bischof	Robert W. Kubick	Robert C. Secger
James S. Burns	Jerry G. Lear	John L. Sevilla
William Y. Burton, Jr.	Richard K. Lear	R. Michael Sherwin
Travis R. Cavens	Arla Sue Lim	James J. Simerville
Jack F. Chan	Terry W. Lowry	Davis S. Smith
Robert G. Chuinard	Kenneth R. Maier	Stanley N. Smith
Gorden L. Clark	William H. Massey	Peter Stenzel
Jerry C. Crooks	Michael I. Michalek	Richard W. Stevens
Donald A. Duncan	Richard R. Miller	Donald K. Stott
Jack H. Eberhart	Donald A. Molde	Michael B. Strauss
Jerry J. Fisher	Michael E. Nishitani	Gordon W. Summers
Edward G. Foxley, Jr.	Phyllis M. Nybakke	E. George Thorne
R. Eugene Giesbrecht	Edward T. Paget	Gerald E. Trobough
Lester S. Goldstein	Lee H. Peterson	James L. Uhrhammer
Jerry Goldstone	H. Irving Pierce	Visutdhi Upatisringa
John B. Hardiman	James D. Pitts	Thomas D. Utterback
Keith R. Hooker	Anselmo Pizzuti	George E. Waldmann
W. Breck Howard	Charles W. Poindexter	John L. Wallin
Stanley J. Huber	Michael T. Propst	Dean T. Watkins
Theodore L. Imel	James S. Pucelik	David D. Weaver
Robert D. Jackman	Robert E. Quass	John D. Webber
Stephen M. Jackson	Kermit V. Ragain	Ivyl W. Wells
David W. Jamison	Stevcn F. Reeder	Novell M. Wells
W. David Jones		John M. Whitelaw, Jr.

Second-Year Class

Robert L. Acker	Thomas J. Franz	James E. O'Dea
Ernest P. Aebi	Layne O. Gentry	Thomas E. Olsen
Irshad A. Ahmad	David N. Gilbert	David G. Paff
John N. Anderson	Edward W. Goertzen	C. Milton Quam
Donald F. Austin	Scott H. Goodnight, Jr.	John B. Quick, Jr.
John O. Bergstrom	James L. Griggs	K. Ann Ragle
C. Carter Boggs	Edward A. Grossenbacher	Delbert L. Remy
Robert O. Burgess	Stanley G. Harris	George H. Rice
H. Treat Cafferata	Rodger G. Hawkins	David W. Rich
Timothy J. Campbell	H. Hale Henson	Donald F. Richey
James J. Cereghino	Meredith K. Hester	J. Stephen Schaub
Charles K. Chapman	John C. Hill	Donald H. See
Maurice J. Comeau	Thomas C. Honi	Larry J. Severson
John S. Corson	Chin S. Hoo	George Shimomura
William W. Cox	John C. Hylan	Jack B. Shininger
Eric W. S. Craig	Robert C. Koch	Edward H. Stark
Robert D. Davis	Kevin B. Lake	Gary M. Stewart
Curwood L. Davison	William R. Lee	William C. Stone
Carl M. Deming	Ralph V. Litchfield	Richard C. U'Ren
David L. Dixon	Gerrit R. Ludwig	Donald E. Wadsworth
Peter J. Dowsett	George M. Maskell	N. Dean Weaver
Robert A. Eastwood	Martin E. McKenney	Albert Winkler, Jr.
John Echevarria	Donald L. Meyer	Laurence J. Wiwatowski
Harold Erickson	Donald S. Minckler	John L. Wobig
James D. Fearl	Gary L. Neal	Paul D. Young
	Larry E. Noble	

Third-Year Class

Joseph G. Antony	Edward L. Hargis	Donald R. Olson
Hollis L. Augee	Artyce Lee Hawman	Larry M. Otis
Jerry J. Bass	James D. Hearn	Edwin M. Perkins, Jr.
Duane G. Beard	George R. Hegstrom, Jr.	David D. Reeder
William S. Bechen	Richard W. Hehn	Esther H. Robinson
Robert M. Belanger	Gene W. Heinrichs	Banchert Saetan
James B. Borden	Hilbert J. Henrickson	C. Dudley Saul
Elroy D. Brandt	Gerald R. Herrin	Richard S. Scott
Larry T. Brice	Curtis R. Holzgang	Jon A. Shaw
James A. Brooks	Walter W. Hutchison	Stephen D. Sholkoff
Douglas Chalmers	Jay T. Johnson	Kenneth M. Stevens
Robert W. Clark	George W. Keillor	Calvin T. Tanabe
Thomas R. Conklin	Donald T. Kerr	James R. Ten Eyck
Wesley A. Cook, Jr.	Alvin M. Klass	Richard P. Tesoro
S. Hope Davidson	Marshall L. Koonce	David S. Todd
Michael J. DeBenedetti	Ben R. Kuhner	Gerold van der Vlugt
R. Clifford Flanders	Russell K. Lawson	Thomas A. Van Veen
John T. Flaxel	Willard R. Lilly	Raul A. Vernal
James H. Gilbaugh, Jr.	Gerald T. Lisac	Fredrick D. Wade
Richard C. Gilsdorf	Kenneth K. Magee	Theodore A. Walters
George A. Goodman	Charles L. Martinson	Stuart D. Wilson
J. Catlin Goss, Jr.	Charles F. McMahon	William S. Wilson
Richard T. Gourley	James W. Mortensen	Laurence E. Winter, Jr.
Larry J. Hall	Daniel W. Nebert	John W. Wood
Samuel J. Hammond	William B. Ness	Richard C. Wright
	Walter E. Norton	

Fourth-Year Class

Curtis D. Adams	Edwin C. Everts	Gary C. Jenkins
James W. Asaph	Arthur R. Fry, Jr.	Kit G. Johnson
Dee D. Atkinson	Thomas A. Gail	Richard H. Johnson
Herbert C. Baker	John M. Gevurtz	Robert G. Kaufman
Larry L. Bassinger	James A. Haaland	Alan L. Keaton
Richard W. Beighle	Arthur L. Hauge	Philip J. Keizer
C. Sabin Belknap	David L. Haugen	Delbert M. Kole
John D. Bischof	Leonard L. Hays	Robert E. Kramer
Dudley M. Bright	H. Douglas Hering	Michael N. Landis
Howard A. Buell	Frederick C. Hoesly	Arthur E. Lewis
Tong C. Cheah	Leslie W. Inman	Ronald G. Lewis
F. Lawrence Clare	John G. Iwakiri	Thomas W. Mann
Lyle E. Creclius	Edwin C. James	Carl Mark III
James C. Dinneen	Robert M. Jelderks	Winston E. Maxwell

Norbert J. McNamara
Donald L. McNeill
Russell W. Newcomb
James S. Noble
Richard O. Panzer
George N. Pasto
Roy E. Paulsen, Jr.
William G. Prescott
Charles E. Richardson
Peter H. R. Roberts

John P. Rundle
George R. Schoedinger III
Walter R. Schreck
Donald H. Scott
Myron E. Shirasu
Perry R. Sloop
Lauren K. Stanley
Laddie E. Stover
John M. Talbot
Newton L. Thompson

Fredric Van Rheen
Ronald W. Vinyard
Joyce M. A. Walker
David A. Weeks
Lawrence H. Welter
Eugene L. Wonderlick
Oak C. Wong
Oakland Wong
Eldon W. Younger
I. Minter Yount

Graduate Students

John Peter Bentley
John Francis Bellinger
Rose Mary Bocek
Arthur Darol Bond
Jean Hills Boyes
Robert Edmond Brooks
Dorcas Phyllis Brown
Stuart Lincoln Bunch
Janey Young Cheu

Richard Alden Cheu
Reid Sanford Connell
David Gaudin
Susan Victoria Hunter
David Albert McClure
Leo Joe McMahon
Carolyn Janet Moll
Derek Myhill
Hatsumi Y. Park
Richard Irwin Park

Eunice Eleanor Popa
James deWitt Rankin
Mohammed Rafiullah
Paul Telford Russell
Linda Lue Shockey
Leonard T. Sigell
Constance Maria Simo
Alan Howard Tench
Donald G. Weber

Special Students and Auditors

Murray Hill Bartley
Beverly Ann Cleland
Bhaskar A. Joshi

Sien Tjide Liem
John B. Pappin

Richard S. Pope
William Wescott
Mary Helen Wilder

Medical Technology Students

Myrna Anne Barreth
Norma Mae Bond
Judith Alice Bowman
Karen Kay Carter
Donna Irene Dibble
*Veta Eileen Drahn
*Richard Leroy Durbin
Carol Jean Foxx
*Lester Herbert Fuller
LaVelle Love Gladwill
Anne Ruth Gossip
Carol Hudson Grieser
Gayle Ruth Henderson
*Bessie Irene Hershey

*Gael Wayne Hoyt
*Stanford Killingsworth
Diana Jane Klippel
Nola Joyce Knight
Constance Louise Lee
Theodora Celeste Lee
Janice Elaine Leeb
Linda Lee Lowery
Patricia Mary Marquis
*Naomi Helen McAllister
Kathleen McCool
Masato Paul Nishida
Joann Pamela Paige

*Chester Pflugrad
Phyllis Sholl Popenuk
Suzanne Smullin
Sandra H. Stageberg
Judy Claire Tillman
Jean Tsunanie Tomori
Linda Marie Trager
*Lawrence Carl Turner
*Verna Rose Usher
Nancy Elizabeth Vertrees
Linda Joanne Vrooman
Sally Ann Wagner
*A. Eugene Weister
Susan Lee Wilhelm

* Auditors

Summary of Enrollment, 1961-62

	Men	Women	Total
First year	79	4	83
Second year	74	2	76
Third year	73	3	76
Fourth year	71	1	72
Total regular students	297	10	307
Graduate students	18	10	28
Special students and auditors	6	2	8
Medical technology students	8	33	41
Total	329	55	384