

UNIVERSITY OF OREGON  
MEDICAL SCHOOL

PORTLAND, OREGON

CATALOG ISSUE  
1963-64

BULLETIN



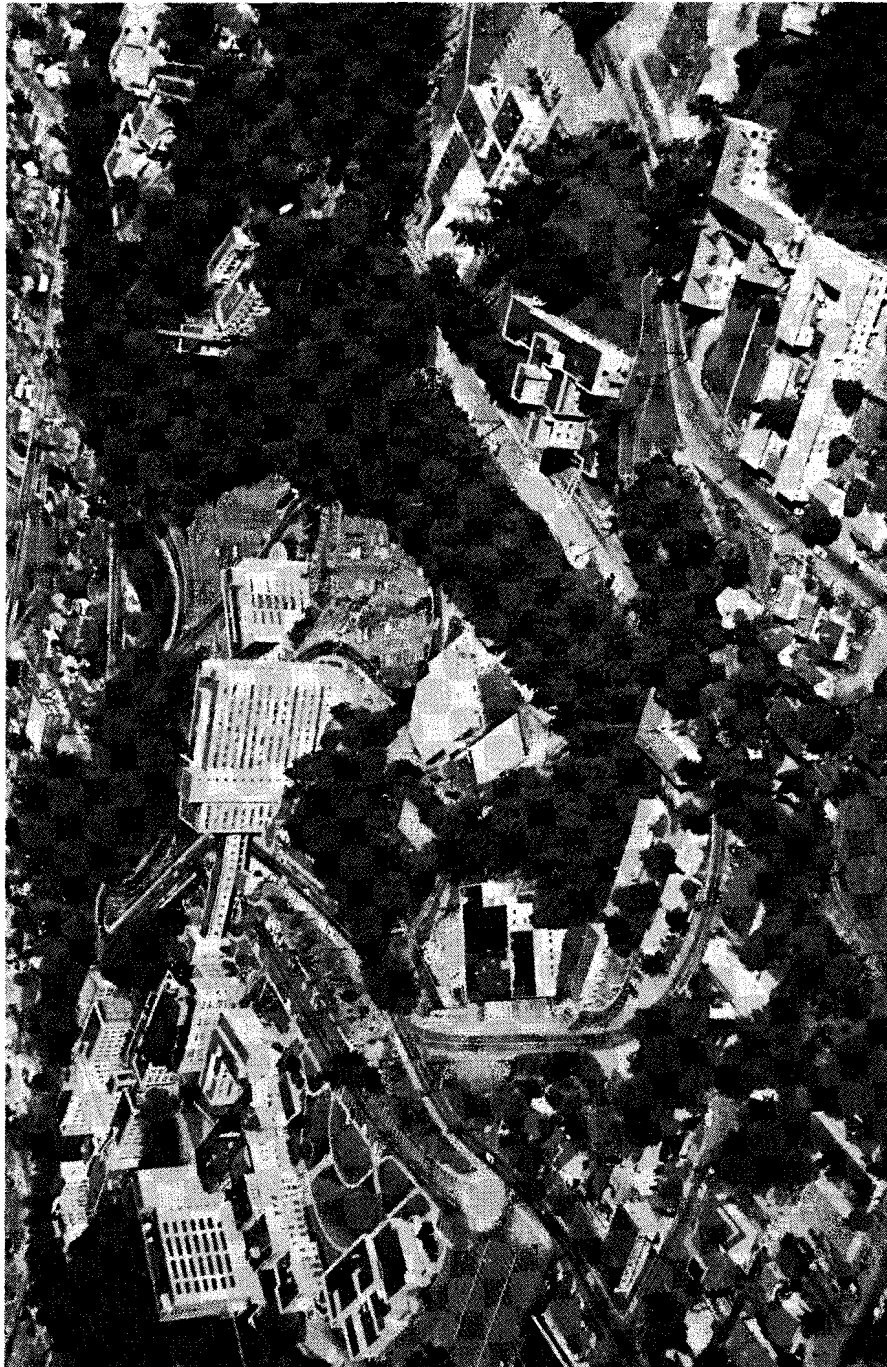
OREGON STATE SYSTEM OF HIGHER EDUCATION

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

UNIVERSITY  
OF OREGON  
MEDICAL  
SCHOOL

1963-64 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

	Term Expires
ALLAN HART, Portland.....	1964
DOUGLAS McKEAN, Beaverton.....	1964
WILLIAM E. WALSH, Coos Bay.....	1965
RALPH E. PURVINE, Salem.....	1965
JOHN MERRIFIELD, Portland.....	1966
CHARLES R. HOLLOWAY, JR., Portland.....	1967
ELIZABETH H. JOHNSON, Redmond.....	1968
J. W. FORRESTER, JR., Pendleton.....	1969
JOHN W. SNIDER, Medford.....	1969

### Officers

WILLIAM E. WALSH.....	President
CHARLES R. HOLLOWAY, JR.....	Vice-President
J. W. FORRESTER, JR.....	Member, Executive Committee

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ROY E. LIEUALLEN, Ed.D., L.H.D., Chancellor  
 RICHARD L. COLLINS, M.A., C.P.A., Secretary of Board

---

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

ROY E. LIEUALLEN, Ed.D., L.H.D., Chancellor

ARTHUR S. FLEMMING, LL.D. President, University of Oregon	JAMES H. JENSEN, Ph.D. President, Oregon State University
DAVID W. E. BAIRD, M.D., LL.D. Dean, Medical School	ELMO N. STEVENSON, Ed.D. President, Southern Oregon College
HAROLD J. NOYES, D.D.S., M.D. Dean, Dental School	FRANK B. BENNETT, Ed.D. President, Eastern Oregon College
BRANFORD P. MILLAR, Ph.D. President, Portland State College	LEONARD W. RICE, Ph.D. President, Oregon College of Education
WINSTON D. PURVINE, A.B., LL.D. Director, Oregon Technical Institute	

---

RICHARD L. COLLINS, M.A., C.P.A.....	Secretary, Board of Higher Education; Budget Director
HERBERT A. BORK, M.S., C.P.A.....	Comptroller and Bursar
MILES C. ROMNEY, Ph.D.....	Vice-Chancellor for Academic Affairs
JAMES W. SHERBURNE, Ph.D.....	Vice-Chancellor for Continuing Education
DONALD R. LARSON, B.A.....	Assistant Chancellor; Director of Public Services
FRANCIS B. NICKERSON, Ed.D.....	Assistant to the Chancellor; Chairman, High School-College Relations Committee
WILLIAM H. CARLSON, M.A.....	Director of Libraries
AUGUST L. STRAND, Ph.D., LL.D.....	Director of Institutional Research
WOLF D. VON OTTERSTEDT, LL.B.....	Assistant Attorney General assigned to Board Office

### Former Chancellors Oregon State System of Higher Education

WILLIAM J. KERR, D.Sc., LL.D.....	1932-1935
FREDERICK M. HUNTER, Ed.D., LL.D.....	1935-1946
PAUL C. PACKER, Ph.D.....	1946-1950
CHARLES D. BYRNE, Ed.D.....	1950-1955
JOHN R. RICHARDS, Ph.D.....	1955-1961

# University of Oregon Medical School Calendar, 1963-64

## Medical and Graduate Students

### Fall Term, 1963-64

September 16, *Monday*.....Registration  
September 17, *Tuesday*.....Instruction begins  
September 30, *Monday*.....Last day to register for full credit  
or to change courses  
November 28, *Thursday*.....Thanksgiving Day, holiday  
December 7, *Saturday*.....Fall term ends

### Winter Term, 1963-64

December 9, *Monday*.....Instruction begins  
December 20, *Friday*.....Last day to register for full credit  
or to change courses  
December 23, 1963, through January 4, 1964.....Christmas vacation  
March 14, *Saturday*.....Winter term ends

### Spring Term, 1963-64

March 23, *Monday*.....Instruction begins  
April 6, *Monday*.....Last day to register for full credit  
or to change courses  
May 30, *Saturday*.....Memorial Day, holiday  
June 12, *Friday*.....Commencement  
June 13, *Saturday*.....Spring term ends

### Summer Term, 1964

June 15, *Monday*.....Registration  
June 15, *Monday*.....Instruction begins  
June 29, *Monday*.....Last day to register for full credit  
or to change courses  
July 4, *Saturday*.....Independence Day, holiday  
September 5, *Saturday*.....Summer term ends

# University of Oregon Medical School Calendar, 1963-64

## Medical Technology Students

### Fall Term, 1963-64

September 9 through September 14.....Laboratory orientation  
September 16, *Monday*.....Registration; instruction begins  
September 30, *Monday*.....Last day to register for full credit  
or to change courses  
November 28, *Thursday*.....Thanksgiving Day, holiday  
November 30, *Saturday*.....Fall term ends

### Winter Term, 1963-64

December 2, *Monday*.....Registration; instruction begins  
December 16, *Monday*.....Last day to register for full credit  
or to change courses  
December 23, 1963, through January 4, 1964.....Christmas vacation;  
laboratory instruction continues  
February 29, *Saturday*.....Winter term ends

### Spring Term, 1963-64

March 9, *Monday*.....Registration; instruction begins  
March 23, *Monday*.....Last day to register for full credit  
or to change courses  
May 23, *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 Dean for Business Affairs; Professor.

JOSEPH J. ADAMS, B.B.A., Assistant Dean for Institutional Relations; Associate Professor.

FRED A. MATTHIAS, B.B.A., Business Manager; Associate Professor.

M. R. PARELIUS, M.Sc., LL.B., Director of Research Services; Instructor.

#### Hospitals and Clinics Administration

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

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

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

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

#### Business Office

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FRED A. MATTHIAS, B.B.A., Business Manager; Associate Professor.

BYRON E. PHILLIPS, B.A., Personnel Officer.

#### Institutional Relations

JOSEPH J. ADAMS, B.B.A., Assistant Dean for Institutional Relations; Associate Professor.

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MARY ANN ADEMINO, Director of Publications and Special Events.

#### Registrar's Office

CAROLINE O. ANDERSON, B.S., Registrar; Assistant Professor.

#### Student Activities

WILSON C. DOCKERY, B.S., Director of Student Activities; Instructor.

#### Library

BERTHA B. HALLAM, B.A., Librarian; Professor.

ORA K. GOODMAN, B.S., Catalog Librarian; Assistant Professor.

MARGARET E. HUGHES, B.S., Circulation Librarian; Assistant Professor.

LOLITA B. McELVENY, Assistant Circulation Librarian; Instructor.

MARIE K. WAGNER, B.S., Assistant Circulation Librarian; Instructor.

#### Buildings and Grounds

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CHARLES H. ANDERSON, Assistant Superintendent of Physical Plant.

#### Postgraduate Education

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GWYNN C. BRICE, Administrative Assistant; Assistant Professor.

#### Alumni Office

JOSEPH J. ADAMS, B.B.A., Executive Secretary; Associate Professor.

#### Student Health Service

JOSEPH B. TRAINER, M.D., Health Service Physician; Associate Professor of Physiology and Medicine.

#### Animal Care Program

ALLAN L. ROGERS, B.A., Director; Assistant Professor.

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).

#### Standing Committees

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*Committee on Animal Care*—J. ENGLEBERT DUNPHY (chairman), ALFRED J. RAMPONE, ROY L. SWANK, WILBERT R. TODD, WILLIAM A. ZIMMERMAN.



*Curriculum and Schedule*—HOWARD P. LEWIS (chairman), JOSEPH J. ADAMS, RALPH C. BENSON, NORMAN A. DAVID, CHARLES T. DOTTER, J. ENGLEBERT DUNPHY, ARTHUR W. FRISCH, GEORGE SASLOW, WILBERT R. TODD, ADOLPH WEINZIRL.

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*Henry Waldo Coe Prize*—HANCE F. HANEY (chairman), CLARENCE V. HODGES.

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*Library*—NORMAN A. DAVID (chairman), MORTON GOODMAN, NOBLE WILEY JONES, NELSON R. NILES, GOODRICH C. SCHAUFFLER, ARCHIE R. TUNTURI, WILBERT R. TODD, BERTHA B. HALLAM (ex officio).

*Patent*—WILLIAM A. ZIMMERMAN (chairman), M. RONALD PARELIUS, BERNARD PROFSKY, BENJAMIN B. ROSS, ROY L. SWANK, JOHN T. VAN BRUGGEN.

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*Scholarships*—EDWARD S. WEST (chairman), CLARENCE V. HODGES, WALTER C. LOBITZ, JR., WILLIAM A. ZIMMERMAN.

*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.

*Dean's Advisory Committee for the Veterans Hospital*—D. W. E. BAIRD (chairman), JARVIS GOULD (vice-chairman and secretary), JACKSON T. CRANE, J. ENGLEBERT DUNPHY, DONALD E. FORSTER, CHARLES N. HOLMAN, TYRA T. HUTCHENS, HOWARD P. LEWIS, HAROLD J. NOYES, GEORGE SASLOW, KENNETH C. SWAN, EDWARD S. WEST.

## Emeritus Faculty

HARRY C. BLAIR, M.D., Professor Emeritus of Orthopedic Surgery.  
ISIDOR C. BRILL, M.D., Associate Professor Emeritus of Medicine.  
C. ELMER CARLSON, M.D., Professor Emeritus of Orthopedic Surgery.  
BLAIR HOLCOMB, M.D., Professor Emeritus of Medicine.  
NOBLE WILEY JONES, M.D., Professor Emeritus of Medicine.  
LYLE B. KINGERY, M.D., Professor Emeritus of Medicine.  
WILLIAM K. LIVINGSTON, M.D., Professor Emeritus of Surgery.  
MERL L. MARGASON, M.D., Professor Emeritus of Medicine.  
FRANK R. MENNE, M.D., Professor Emeritus of Pathology.  
MERLE W. MOORE, M.D., Associate Professor Emeritus of Medicine.  
MATTHEW C. RIDDLE, M.D., Associate Professor Emeritus of Medicine.  
EUGENE W. ROCKEY, M.D., Professor Emeritus of Surgery.  
HOMER P. RUSH, M.D., Professor Emeritus of Medicine.  
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 Dean for Institutional Relations; Alumni Executive Secretary (Associate Professor) (1951).  
B.B.A. (1949), Gonzaga.

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

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.

CAROLINE O. ANDERSON, B.S., Registrar (Assistant Professor) (1943).  
B.S. (1928), Nebraska.

RICHARD P. ANDREWS, M.D., Clinical Instructor in Surgery (1963).  
B.S. (1949), Denison; M.D. (1953), Harvard.

JAMES S. ARNOLD, M.D., Clinical Associate in Clinical 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.

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

† On leave of absence, Department of Physiology, Cambridge University, England, from Sept. 15, 1963 to Sept. 14, 1964.

- MICHAEL D. BAIRD, M.D., Assistant Professor of 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., Assistant Professor of Orthopedic Surgery (1961).  
B.A. (1953), Willamette; M.D. (1956), Oregon.
- 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., Clinical Instructor in Urology (1960).  
M.B., B.Ch. (1951), Faculty of Medicine, Cairo University, Egypt.
- ERNEST JACK BENNER, M.D., Instructor in Medicine (1963).  
B.A. (1953), Central Washington College of Education; M.D. (1960), Oregon.
- THOMAS T. BENNETT, M.D., Clinical Instructor in Psychiatry (1963).  
B.S. (1950), M.D. (1952), Oregon.
- 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 Cardiopulmonary Surgery (1956).  
B.S. (1945), M.D. (1947), Illinois.
- SIGFRIED R. BERTHELSDORF, 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., Assistant Professor of 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., Assistant Clinical Professor of Pediatrics (1956).  
B.S. (1943), M.D. (1946), Chicago.
- THEODORE M. BISCHOFF, M.D., Assistant Clinical Professor of 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.
- HENRY L. BOEHNKE, M.D., Clinical Instructor in Pediatrics (1962).  
B.S. (1953), M.D. (1955), Oregon.
- DARRELL C. BOLLAM, M.D., Clinical Associate in Surgery (1937).  
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B.A. (1951), Oregon State; M.D. (1955), Oregon.
- 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.
- LAWRENCE M. LOWELL, M.D., Assistant Clinical Professor of Cardiopulmonary Surgery (1950).  
B.S. (1933), Washington State; M.D. (1936), Oregon.
- LEE B. LUSTED, M.D., Professor of Radiology (1962).  
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.
- RICHARD B. LYONS, M.D., Assistant Professor of Anatomy (1961).  
B.S. (1957), M.S. (1960), M.D. (1960), Oregon.
- J. OPPIE McCALL, JR., M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1950).  
B.A. (1938), Hamilton; M.D. (1942), New York University.
- ELTON L. McCAWLEY, Ph.D., Professor of Pharmacology (1949).  
A.B. (1938), M.S. (1939), Ph.D. (1942), California.

- COLIN W. McCORD, M.D., Associate in Cardiopulmonary Surgery (1961).  
B.A. (1949), Williams; M.D. (1953), Columbia.
- GUY R. McCUTCHAN, M.D., Clinical Associate in Medicine (1939).  
B.S. (1929), Grand Island; M.D. (1931), Nebraska.
- LOLITA B. McELVENY, Assistant Circulation Librarian (Instructor) (1954).
- LOUIS R. McKAEL, M.D., Clinical Instructor in Pediatrics (1961).  
B.S. (1953), Oregon State; M.D. (1958), Oregon.
- DONALD MCKINLEY, M.D., Clinical Instructor in Psychiatry (1958).  
B.A. (1940), Reed; M.D. (1942), Oregon.
- MATTHEW MCKIRDIE, M.D., Associate Clinical Professor of Surgery (1940).  
B.S. (1929), University of Chicago; M.D. (1934), University of Chicago (Rush).
- DUNCAN A. McLAUCHLAN, M.D., Clinical Instructor in Psychiatry (1957).  
B.S. (1941), University of Washington; M.D. (1944), Oregon.
- EDWARD N. McLEAN, M.D., Assistant Clinical Professor of Ophthalmology (1957).  
M.D. (1948), Long Island.
- RAYMOND A. McMAHON, M.D., Clinical Associate in Medicine (1938).  
B.A. (1932), Ripon; M.D. (1937), Wisconsin.
- LAURENCE K. MACDANIELS, M.D., Clinical Associate in Medicine (1949).  
B.A. (1937), Reed; M.D. (1941), Oregon.
- CURTIS A. MACFARLANE, M.D., Clinical Associate in Urology (1958).  
B.A. (1949), M.D. (1951), Wisconsin.
- DAVID W. MACFARLANE, M.D., Assistant Clinical Professor of Pediatrics (1956).  
B.S. (1948), M.S., M.D. (1951), Illinois.
- STEPHEN W. MAKES, M.D., Clinical Instructor in Medicine (1959).  
B.S. (1950), University of Portland; M.D. (1953), Creighton.
- ROBERT W. MARCUM, M.D., Clinical Associate in Surgery (1951).  
B.S. (1934), Pacific University; M.D. (1940), Oregon.
- MERL L. MARGASON, M.D., Professor Emeritus of Medicine (1926).  
A.B. (1920), M.D. (1923), Oregon.
- F. KEITH MARKEE, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1952).  
B.A. (1944), Willamette; M.D. (1946), Oregon.
- R. KENT MARKEE, M.D., Clinical Instructor in Surgery (1953).  
B.A. (1944), Willamette; M.D. (1946), Oregon.
- RICHARD E. MARKLEY, M.D., Clinical Associate in Ophthalmology (1953).  
B.A. (1938), Denver; M.D. (1942), Colorado.
- ALFRED N. MARSHALL, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1957).  
B.S. (1932), University of Washington; M.D. (1937), Oregon.
- HARRY W. MASENHIMER, JR., M.D., Clinical Instructor in Medicine (1960).  
B.A. (1949), Princeton; M.D. (1953), Johns Hopkins.
- HOWARD S. MASON, Ph.D., Professor of Biochemistry (1952).  
B.S. (1935), M.S. (1936), Ph.D. (1939), Massachusetts Institute of Technology.
- JAMES A. MASON, M.D., Clinical Associate in Orthopedic Surgery (1948).  
B.S. (1930), M.D. (1932), Nebraska.
- ROBERT E. MASS, M.D., 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.

- JOSEPH D. MATARAZZO, Ph.D., Professor of Medical Psychology; Chairman of Department (1957).  
B.A. (1946), Brown; M.S. (1950), Ph.D. (1952), Northwestern.
- RUTH G. MATARAZZO, Ph.D., Assistant Professor of Medical Psychology (1957).  
B.A. (1948), Brown; M.S. (1952), Ph.D. (1955), Washington University.
- WILLARD L. MATHIESON, M.D., Clinical Instructor in Surgery (1956).  
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.
- FRED A. MATTHIAS, B.B.A., Business Manager (Associate Professor) (1962).  
B.B.A. (1949), Oregon.
- GORDON L. MAURICE, M.D., Clinical Associate in Medicine (1949).  
B.S. (1940), Washington State; M.D. (1943), Oregon.
- JOHN ARTHUR MAY, M.D., Assistant Clinical Professor of Pediatrics (1948).  
B.A. (1939), University of Washington; M.D. (1943), Oregon.
- THOMAS L. MEADOR, M.D., Clinical Instructor in Public Health and Preventive Medicine (1947).  
B.A. (1921), M.A. (1924), M.D. (1937), Oregon; M.P.H. (1940), Yale.
- NORBERT E. MEDVED, M.D., Clinical Associate in Medicine (1956).  
B.S. (1946), M.D. (1948), Creighton.
- ROBERT J. MEECHAN, M.D., Assistant Professor of Pediatrics (1956).  
B.A. (1951), Oregon State; M.S., M.D. (1953), Oregon.
- EDWARD COLTON MEEK, JR., M.D., Associate Clinical Professor of Pathology (1953).  
B.S. (1941), Oregon State; M.D. (1944), Johns Hopkins.
- VICTOR D. MENASHE, M.D., Assistant Professor of Pediatrics (1958).  
B.S. (1951), M.D. (1953), Oregon.
- FRANK R. MENNE, M.D., Professor Emeritus of Pathology (1916).  
B.S. (1913), Wisconsin; M.D. (1915), University of Chicago (Rush).
- RUTH L. MERCER, Clinical Instructor in Dietetics (1958).  
B.A. (1941), Kansas; M.A. (1948), Columbia.
- ROLLAND C. MERRIFIELD, M.D., Clinical Instructor in Orthopedic Surgery (1955).  
B.A. (1942), M.D. (1945), Oregon.
- JAMES METCALFE, M.D., Associate Professor of Medicine (Oregon Heart Association Chair of Cardiovascular Research) (1961).  
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., Assistant Professor of Medicine (1958).  
B.S. (1937), Northwestern; M.D. (1954), Oregon.
- ROBERT L. MICHILL, M.D., Clinical Instructor in Psychiatry (1962).  
B.A. (1950), M.D. (1953), State University of Iowa.
- DAVID B. MILLER, JR., M.D., Clinical Instructor in Surgery (1959).  
B.A. (1949), Dartmouth; M.D. (1953), New York University.
- MICHAEL J. MILLER, M.D., Instructor in Pediatrics (1963).  
B.S. (1955), Santa Clara; M.D. (1960), Oregon.
- 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.
- WILLIAM MONTAGNA, Ph.D., D.Sc., Professor of Experimental Biology; Head of Division (1963).  
B.A. (1936), D.Sc. (1960), Bethany; Ph.D. (1944), Cornell.
- 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.
- JOSEPH I. MORLAND, M.D., Clinical Associate in Ophthalmology (1951).  
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), Iowa; M.D. (1956), Illinois.
- 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., Assistant Clinical Professor of Otolaryngology (1950).  
B.A. (1944), Oregon State; M.D. (1946), Oregon.
- RUTH A. MYLLENBECK, M.S., Instructor in Bacteriology (1962).  
B.A. (1949), Michigan; M.S. (1953), Washington.
- 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., Assistant Clinical Professor of Pediatrics (1954).  
B.S. (1945), M.D. (1948), Oregon.
- WILLIAM A. NEILL, M.D., Assistant Professor of Medicine (1963).  
B.A. (1951), Amherst; M.D. (1955), Cornell.
- DUNCAN R. NELSON, M.D., Associate Clinical Professor of Obstetrics and Gynecology (1946).  
A.B. (1934), Pacific University; M.D. (1938), Oregon.
- GUNNAR E. C. NELSON, M.D., Associate Clinical Professor of Obstetrics and Gynecology (1937).  
Ph.G. (1923), B.S. (1925), Washington State; M.D. (1933), Oregon.
- MARILYN A. NELSON, M.D., Clinical Instructor in Pediatrics (1963).  
B.S. (1956), Lewis and Clark; M.D. (1959), 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.
- KENNETH A. NIEHANS, Director of Public Affairs (Instructor) (1963).  
B.A. (1957), Oregon.
- 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., Associate 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.
- EVELYN L. OGINSKY, Ph.D., Professor of Bacteriology (1957).  
B.A. (1938), Cornell; M.S. (1939), University of Chicago; Ph.D. (1946), Maryland.
- 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.
- DENIS C. O'SULLIVAN, M.B., Clinical Instructor in Urology (1962).  
M.B., B.Ch. (1953), University College, Cork, Ireland.

- 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., Assistant Clinical Professor of Pathology and Clinical Pathology (1959).  
B.S. (1951), M.D. (1953), 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.
- M. RONALD PARELIUS, M.Sc., LL.B., Director of Research Services (Instructor) (1962).  
B.B.A. (1953), Oregon; M.Sc. (1954), New York University; LL.B. (1962), Northwestern College of Law.
- C. RUSSELL PARKER, M.D., Clinical Instructor in Psychiatry (1957).  
B.A. (1942), Reed; M.D. (1945), Cornell.
- MAX H. PARROTT, M.D., Assistant Clinical Professor of 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.
- IRA B. PAULY, M.D., Assistant Professor of Psychiatry (1962).  
B.A. (1954), M.D. (1958), U.C.L.A.
- 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 Immunology, Allergy, and Infectious Disease (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.
- JAMES R. PHILP, M.D., Assistant Professor of Pathology (1963).  
A.B. (1954), M.A. (1956), South Dakota; M.D. (1958), California.
- 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.S., 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., Associate 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.
- 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., Associate 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., Assistant Clinical Professor of 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.
- 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 Professor Emeritus of Medicine (1930).  
B.A. (1917), Reed; M.A. (1922), Oregon; M.D. (1926), Harvard.
- DEMETRIOS A. RIGAS, Ph.D., Associate Professor of Biochemistry; Professor of Experimental Medicine (1953).  
Ch.E. (1941), Ph.D. (1943), National University of Engineering Science, Athens, Greece.
- JAMES A. RILEY, M.D., Clinical Instructor in Medicine (1949).  
B.A. (1941), Oregon State; M.D. (1943), Oregon.
- W. PETER RILLING, M.D., Clinical Instructor in Medicine (1962).  
A.B. (1952), Dartmouth; M.D. (1956), Tufts.
- 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.
- ALLAN G. ROBERTS, M.D., Clinical Instructor in Psychiatry (1962).  
B.Sc. (1950), University of Wales; M.B., B.Ch. (1953), Welsh National School of Medicine, Cardiff, Wales.
- 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., Clinical 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., Associate Professor of Anesthesiology (1957).  
B.A. (1949), Willamette; M.D. (1954), Oregon.
- JOHN GORDON ROTH, M.D., Instructor in Neurology (1958).  
A.B. (1947), Wichita; M.D. (1950), Kansas.
- WILLARD D. ROWLAND, M.D., Clinical Instructor in Surgery (1947).  
A.B. (1936), M.D. (1940), Washington University.
- JAMES T. RULE, D.D.S., Clinical Instructor in Dental and Oral Medicine (1963).  
D.D.S. (1957), Temple; M.S. (1960), University of Chicago.
- HOMER P. RUSH, M.D., Professor Emeritus of Medicine (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.
- DALJOT S. SARKARIA, M.D., Assistant Professor of Pathology (1962).  
B.S. (1942), M.S. (1944), Punjab University, Lahore, India; Ph.D. (1948), Cornell;  
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- GEORGE SASLOW, M.D., Professor of Psychiatry; Chairman of Department (1957).  
Sc.B. (1926), Ph.D. (1931), New York University; M.D. (1940), Harvard.
- GEORGE R. SATTERWHITE, M.D., Clinical Instructor in Radiology (1959).  
B.S. (1950), Seattle; M.D. (1953), St. Louis.
- GEORGE C. SAUNDERS, M.D., Clinical Associate in Otolaryngology (1933).  
B.S. (1923), Virginia; M.D. (1927), Washington University.
- THOMAS L. SAUNDERS, M.D., 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  
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A.B. (1918), Williams; M.D. (1923), Harvard.
- GEORGE W. SCHEMM, M.D., Instructor in Neurosurgery (1963).  
B.S. (1952), Yale; M.D. (1955), Michigan.
- 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  
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B.S., M.D. (1927), Illinois.

- GEORGE J. SCHUNK, M.D., Assistant Clinical Professor of 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.
- 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.
- WILL L. SENDERS, M.D., Clinical Associate in Medicine (1957).  
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- HARRY SHAIKH, M.S., Assistant Professor of Radiology (1962).  
B.E.E. (1948), Cornell; M.S. (1958), State College, New York, (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  
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- FRED C. SHIPPS, M.D., Assistant Clinical Professor of Radiology (1954).  
A.B. (1942), Ohio Wesleyan; M.D. (1945), Western Reserve.
- NATHAN SHLIM, M.D., Clinical Instructor in Surgery (1956).  
B.A. (1937), Wisconsin; M.D. (1941), University of Chicago (Rush).
- FAULKNER A. SHORT, M.D., Clinical Associate in Orthopedic Surgery (1945).  
B.A. (1932), M.D. (1936), Oregon.
- FRANK SHUBECK, M.D., Assistant Professor of Obstetrics and Gynecology (1958).  
B.S. (1949), M.D. (1953), Michigan.
- BENJAMIN V. STEGEL, Ph.D., Professor of Pathology (1961).  
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- MAX SIMONS, M.D., Clinical Instructor in Otolaryngology (1930).  
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- RICHARD L. SLEETER, M.D., Professor of Pediatrics; Director of Crippled Chil-  
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- DONALD B. SLOCUM, M.D., Assistant Clinical Professor of Orthopedic Surgery  
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B.S. (1948), M.S. (1958), Minnesota.
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M.D. (1949), Virginia.
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- WILLIAM A. STOTLER, Ph.D., Associate Professor of Anatomy (1946).  
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B.S. (1950), M.D. (1953), Wisconsin.
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- RAYMOND R. SUSKIND, M.D., Professor of Environmental Medicine and Dermatology; Head of Division of Environmental Medicine (1962).  
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B.A. (1940), M.D. (1943), Yale.
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- WILLIAM J. SWETT, M.D., Assistant Clinical Professor of Medicine (1938).  
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B.S. (1941), M.S. (1942), Oregon State.
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B.S. (1942), Oregon State; M.D. (1945), Oregon.
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- 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.
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B.A. (1930), M.D. (1933), Oregon.
- GERALD A. TERMAN, M.D., Clinical Instructor in Ophthalmology (1963).  
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- WILLIAM O. THOMAS, JR., M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1949).  
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- BETTY B. THOMPSON, M.D., Instructor in Anesthesiology (1963).  
B.S. (1956), Lewis and Clark; M.D. (1959), Oregon.
- RICHARD F. THOMPSON, Ph.D., Associate Professor of Medical Psychology (1959).  
B.S. (1952), Reed; M.S. (1953), Ph.D. (1956), Wisconsin.
- WILLIAM W. THOMPSON, M.D., Clinical Instructor in Psychiatry (1949).  
B.S. (1943), Oregon State; M.D. (1945), Oregon.
- ROBERT E. THORNFELDT, M.D., Clinical Instructor in Pediatrics (1963).  
B.S. (1942), Washington State; M.D. (1945), Northwestern.
- 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. TREATOR, M.D., Clinical Instructor in Obstetrics and Gynecology (1959).  
B.A. (1950), Syracuse; M.D. (1954), New York State University.
- JOHN P. TROMMALT, 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., Associate 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., Assistant Clinical Professor of 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., Assistant Clinical Professor of Pediatrics (1956).  
B.S. (1939), Rutgers; M.D. (1944), New York Medical College.
- LYLE VEAZIE, Ph.D., Associate Professor of Bacteriology (1942).  
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- 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., Assistant Clinical Professor of 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).  
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- EDWARD E. WAYSON, M.D., Clinical Associate in Surgery (1952).  
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- VIRGINIA L. WEIMER, Ph.D., Assistant Professor of Ophthalmology (1962).  
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- ADOLPH WEINZIRL, M.D., Professor of Public Health and Preventive Medicine; Chairman of Department (1937).  
B.S. (1922), M.D. (1925), Oregon; C.P.H. (1932), M.P.H. (1939), Johns Hopkins.
- WARREN S. WELBORN, M.D., Clinical Instructor in Medicine (1956).  
B.A. (1949), M.D. (1953), Oregon.
- 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).  
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- 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.
- JAMES M. WHITELY, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1943).  
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- ARTHUR N. WIENS, Ph.D., Assistant Professor of Medical Psychology (1958).  
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- JARVIS GOULD, M.D., Assistant Medical Director and Assistant Administrator.
- MYRON R. GROVER, JR., M.D., Assistant Medical Director.
- GWYNN C. BRICE, Administrative Assistant; Assistant Director of Outpatient Clinic.

- GEORGE M. AUSTIN, M.D., Chief of Surgery Neurological Service.
- DANIEL M. BACHMAN, M.D., Chief of Rheumatology Service.
- JOHN A. BENSON, JR., M.D., Chief of Gastroenterology 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.
- MONTE A. GREER, M.D., Chief of Endocrinology Service.
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- A. J. CLEMONS, Superintendent of Physical Plant.
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- MARJORIE P. MAXWELL, B.A., M.T., Chief Medical Technologist.
- E. H. EMPEREUR, B.S., Chief Pharmacist.

### University of Oregon Medical School Hospital Doernbecher Memorial Hospital for Children

- SHIRLEY M. THOMPSON, M.A., R.N., Director of Nursing Service.
- BETTY WEIBLE, B.S., R.N., Pediatric Supervisor.
- MAY RAWLINSON, B.S., R.N., Medical-Psychiatric Supervisor.
- BEATRICE DUFFY, B.S., R.N., Surgical Supervisor.
- ELEANOR MALLORY, R.N., Surgery Supervisor.
- DOROTHY CAHILL, R.N., Auxiliary Personnel Supervisor.
- EVELYN BARTON, R.N., Night Supervisor.
- GERTRUDE BERGQUIST, R.N., Assistant Night Supervisor.
- OPAL MCCRAE, R.N., Assistant Night Supervisor.
- HELEN FOUNTAIN, R.N., Evening Supervisor.
- LOIS LAUZIERE, B.S., R.N., Evening Supervisor.
- ROSELLA SCHMIDT, B.S., R.N., Assistant Evening Supervisor.
- MARIA BOULETTE, B.S., R.N., Head Nurse.
- ADA CARSON, R.N., Head Nurse.
- PEGGY COOKE, R.N., Head Nurse.
- BETTY JO EDDINS, R.N., Head Nurse.
- SANDRA GAHMAN, R.N., Head Nurse.
- FREDERICKA GRABLE, R.N., Head Nurse.
- MABELL SMITH, M.S., R.N., Head Nurse.
- DORIS STITELY, R.N., Head Nurse.
- MAXINE SUTTON, R.N., Head Nurse.
- FLORENCE SWEENEY, R.N., Head Nurse.
- REGINA MOCKMORE, B.S., 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.  
 BERNICE J. SEE, B.S., O.T.R., Psychiatric Occupational Therapist.  
 MADELINE MYERS, Accounting Office Supervisor.

#### General Outpatient Service

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.  
 MYRON R. GROVER, JR., M.D., Assistant 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.  
 DOROTHY VOSSEN, B.S., R.N., Supervisor.  
 ARDYS HOKENESS, R.N., Supervisor.  
 LAVERNE HONEY, R.N., Supervisor.  
 LORRAINE NELSON, B.S., R.N., Clinical Instructor.  
 JUNE SATCHFIELD, B.S., R.N., Supervisor.  
 ALICE SHARP, R.N., Surgical Supervisor.  
 EMMA H. McWILLIAMS, R.N., Supervisor.  
 JEAN CALDWELL, B.S., R.N., Head Nurse.  
 SHIRLEY FRANZEN, R.N., Head Nurse.  
 ESTHER HENDERSON, R.N., Head Nurse.  
 JUDITH HICKS, 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.

#### Oregon State Tuberculosis Hospital

BARBARA HIATT, M.S., R.N., Assistant Administrator.  
 WILLIAM S. CONKLIN, M.D., Chief of Staff.  
 JAMES T. SPEROS, M.D., Medical Consultant.  
 ROBERT D. MICHEL, M.D., Chief Physician.  
 CLIFFORD A. FRATZKE, M.D., Physician.  
 SIDNEY BROWNSTONE, M.D., Physician.  
 DAVID T. McKEOWN, B.A., Business Manager.  
 ELIZABETH MACINTOSH, R.N., Director of Nursing Service.

KAREN VIELSDORF, B.S., Dietician.  
 ARNALD BRADSHAW, Housekeeper.  
 CARL W. LACY, Superintendent of Physical Plant.

#### Visiting Physicians' Service

RANDALL F. WHITE, M.D., Multnomah County 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.  
 JAMES L. SCHNELLER, 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.  
 HEROLD S. LILLYWHITE, Ph.D., Professor of Speech Pathology.  
 S. GORHAM BABSON, M.D., Associate Professor of Pediatrics.  
 JOHN C. ROTH, M.D., Associate Professor of Anesthesiology.  
 WILLIAM E. SNELL, M.D., Associate Professor of Orthopedic Surgery.  
 ROBERT W. BLAKELEY, Ph.D., Assistant Professor of Speech Pathology.  
 RICHARD M. ADAMS, D.M.D., Assistant Professor of Dentistry.  
 RODNEY K. BEALS, M.D., Assistant Professor of Orthopedic Surgery.  
 C. CONRAD CARTER, M.D., Assistant Professor of Neurology.  
 EUGENE E. TAYLOR, M.D., Assistant Professor of Psychiatry.  
 LAURENCE R. LANGSTON, M.D., Clinical Associate in Orthopedic Surgery.  
 JOHN S. GULLICKSON, D.D.S., Assistant Professor of Dentistry.  
 RUTH M. DUPUIS, M.S., Instructor in Speech Pathology.  
 \*NORTON B. YOUNG, Ph.D., Instructor in Audiology.  
 GLADYS BELL, A.B., A.C.S.W., Medical Social Consultant.  
 SHIRLEY BUXTON, M.S.W., Medical Social Consultant.  
 RUTH W. SPOERLI, M.S.S., A.C.S.W., 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.  
 RUDOLPH C. H. ENGEL, M.D., Associate Professor of Pediatrics.

\* On leave of absence at Johns Hopkins University School of Medicine.

L. PAUL RASMUSSEN, M.D., Associate Professor of Pediatrics.  
 BRUCE V. BUTLER, M.D., Assistant Professor of Medical Psychology.  
 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.  
 FRIEDA M. WEINER, M.D., Assistant Professor of Pediatrics.  
 WARREN H. FAY, Ph.D., Instructor in Speech Pathology (Pediatrics).  
 KATHRINE S. FRENCH, Ph.D., Instructor in Anthropology (Pediatrics).  
 RICHARD L. LESSEL, M.P.H., Instructor in Public Health and Preventive Medicine.  
 BARBARA GOFFENEY, M.A., Research Assistant in Psychology.

## General Information

THE UNIVERSITY OF OREGON MEDICAL SCHOOL is located in Portland (population 370,906), 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 195,000 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 96,000 volumes of books and bound periodicals, as well as a large number of unbound periodicals. Approximately 1,500 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 110 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.

The 1963 Oregon Legislature transferred operation of the *Oregon State Tuberculosis Hospital* at Salem to the State Board of Higher Education under direct jurisdiction of the Medical School. The hospital has 160 beds and is equipped for the medical and surgical treatment of patients with tuberculosis. It is operated as one of the units of the Medical School Hospitals and Clinics.

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.

Construction of two additional buildings on the Medical School campus was completed in 1962: new headquarters for the Portland Center for Hearing and Speech, adjacent to the Crippled Children's Division Building, and a fire station, erected by the city of Portland on a site near the Veterans 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 88 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 103). 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 165 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, a one-year internship in dietetics, and a clinical affiliation in 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 103).

## Research

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

In the world-wide struggle to improve the health and happiness of mankind, millions of research dollars are expended annually in the nation's medical schools. Oregon is no exception. Investigations under way at the Medical School are supported by gifts and grants amounting to nearly \$4,000,000 annually. These funds are made available by private individuals and industry, by foundations and

societies, and by the state and Federal governments.

Currently, over 200 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. Grants are awarded 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 1962, the foundation spent over \$2,900,000 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 1963-64 are:

DR. JOHN O. BRANFORD, '46, Portland.....	President
DR. THOMAS R. MONTGOMERY, '32, Portland.....	Vice-President
DR. JULES F. BITTNER, '47, Pendleton.....	Vice-President
DR. FREDERICK L. CODDINGTON, '42, Reno.....	Vice-President
DR. MURRAY L. JOHNSON, '39, Tacoma.....	Vice-President
DR. JAMES A. RILEY, '43, Corvallis.....	Vice-President
DR. JOYLE O. DAHL, '30, Portland.....	Secretary
DR. IVAN I. LANGLEY, '43, 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 makes available to

students life and hospital insurance programs. Annual dues include a subscription to the SAMA publication, the *New Physician*.

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

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

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 counseling. 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, available at low cost from the Medical Book Store.

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

THE MEDICAL SCHOOL has available a limited number of scholarship and fellowship funds for deserving medical students. Applications for scholarships should be filed in the Registrar's Office by March 1 of each year. Scholarships are awarded by the dean upon the recommendation of the Committee on Scholarships of the faculty of the Medical School.

**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. Most of the funds for summer fellowships are provided through grants from the National Institutes of Health. Other fellowships are provided by Lederle Laboratories Division of the American Cyanamid Company and the Tobacco Industry Research Committee.

**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 102, 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.

**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.

**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.

**Pfizer Laboratories Medical Scholarship.** This \$1,000 scholarship, established in 1962, is awarded to a deserving student on the basis of scholastic record and financial need.

**Jackson Foundation Scholarship.** An award of \$1,000 is made to a medical student who graduated from an Oregon secondary school, who has the ability to do high quality work in the Medical School, and who is in need of financial assistance. The scholarship was established in 1962.

**Emily F. Edson Scholarships.** Scholarships are awarded to both medical and nursing students, on the basis of scholastic achievement and need, from a fund established through a bequest under the will of the late Emily F. Edson, administered through The Oregon Bank. The initial bequest, in 1962, was approximately \$54,000.

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*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.

*American Medical Association Loan Fund.* The American Medical Association has established a loan fund which provides substantial loans to medical students, interns, and residents, with provision for repayment over a period of several years. Information regarding the fund is available in the Medical School Business Office.



# 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 science 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 embryology, genetics, or comparative anatomy (in this order of preference).....	6	
Physics.....		12
Mathematics.....		6
*English.....		9
Electives.....		72
<b>Total Prescribed Credits.....</b>		<b>138</b>

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, with standard laboratory work.

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, foreign language, general or cellular physiology, physical chemistry, and mathematics.

**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. If admitted, however, the student is required to take the test before entering the Medical School.

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 advisors.

**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.

\* 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.

**Application Procedure.** Application forms may be obtained from the Medical School Registrar, and all credentials should be sent to that office. Because the Committee on Admissions begins examining applications a year in advance of 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 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 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 complete registration and receive class schedules. Fees are to be paid at the Cashier's Office within the first two days of each term.

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 School are as follows:

### Regular Fees

Tuition, per term.....	\$ 80.00
Laboratory and course fee, per term.....	117.00
<sup>1</sup> Building fee, per term.....	12.00
<sup>2</sup> Incidental fee, per term.....	26.00
	<hr/>
	\$235.00
Nonresident fee, per term (in addition to fees for resident students).....	\$136.00

### Graduate Fees<sup>3</sup>

For graduate students registered for 7 or more term hours of work per term:	
Tuition.....	\$ 20.00
Laboratory and course fee.....	40.00
<sup>1</sup> Building fee.....	12.00
<sup>2</sup> Incidental fee, per term.....	26.00
	<hr/>
	\$ 98.00

For graduate students registered for 7 term hours of work or less.....\$11.00 per term hour (minimum, \$22.00 per term)

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

<sup>1</sup> Building fee.....	\$ 12.00
<sup>2</sup> Incidental fee.....	26.00
	<hr/>
	\$ 38.00

### Deposits

<sup>4</sup> Deposit to reserve place in entering class (applied on tuition).....	\$25.00
<sup>5</sup> Breakage deposit, per year—first and second years.....	\$15.00
<sup>5</sup> 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.....\$17.00 per term hour (minimum \$34.00 per term)

Auditor's fee for lectures, per term hour.....\$ 5.50  
An auditor is a person who has obtained permission to attend classes without receiving academic credit.

Transcript fee.....\$ 1.00  
One transcript is issued free; a fee of \$1.00 is charged for each additional transcript.

<sup>1</sup> Part-time special students (students taking 7 hours of work or less) do not pay the building fee.

<sup>2</sup> The incidental fee is for student health service and for use of the Student Activities Building.

<sup>3</sup> 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.

<sup>4</sup> See page 63.

<sup>5</sup> 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 \$6.00 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.....	18.00
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.

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. At the completion of the second year all students must achieve a grade of 70 in all subjects of the Part I examination of the National Board of Medical Examiners in order to be promoted to the third year. Failure to obtain a grade of 70 necessitates taking a special departmental examination in all subjects failed. 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 Examining Committee of the Oregon State Board of Higher Education and is required for licensure in Oregon. Information concerning this examination may be obtained by writing the Basic Science Examining Committee, Oregon State Board of Higher Education, Eugene.

## Curriculum in Medicine

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

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

The prescribed and recommended subjects for the three premedical years are described under ADMISSION AND REQUIREMENTS. In the first, second, third, and fourth years at the Medical School there are 5,312 class hours of required work. Descriptions of courses are to be found under the several departmental headings.

### Prescribed Work

#### First Year

	Aggregate class hours				Term hours
	Lecture	Lab.	Clinic	Total	
An 411, 412, 413...Gross Anatomy .....	84	288	....	372	15
An 414.....Embryology .....	36	36	....	72	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
	396	828	....	1,224	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 .....	60	....	372	432	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
	348	66	1,092	1,506	77½

#### Fourth Year

	Aggregate class hours				Term hours
	Lecture	Lab.	Clinic	Total	
CP 650.....Clinical Pathology .....	12	....	....	12	1
Pth 653.....Forensic Medicine .....	12	....	....	12	1
Pth 654.....Oncology .....	12	....	....	12	1
Med 657.....Occupational Medicine .....	12	....	....	12	1
Med 658.....Medical Economics .....	12	....	....	12	1
Med 670.....Fourth-Year Medicine .....	36	....	288	324	15
Derm 670.....Dermatology Outpatient Clinic .....	....	....	36	36	1½
DM 650.....Dent. Facial Growth & Oral Path. ....	12	....	....	12	1
Psy 670.....Psychiatry Outpatient Cl. & Clerk. ....	....	....	48	48	2
Sur 670.....Fourth-Year Surgery .....	24	....	412	436	19
Eye 650.....Eye .....	12	....	....	12	1
Eye 670.....Eye Outpatient Clinic .....	....	....	24	24	1
ENT 670.....Fourth-Year Ear, Nose & Throat .....	....	....	58	58	2½
Obs-Gyn 670.....Fourth-Year Obs. & Gyn. ....	....	....	228	228	9½
Ped 670.....Fourth-Year Pediatrics .....	....	....	120	120	9
	144	....	1,214	1,358	66½

#### Recapitulation

	Aggregate class hours				Term hours
	Lecture	Lab.	Clinic	Total	
First year .....	396	828	....	1,224	56
Second year .....	516	636	72	1,224	64
Third year .....	348	66	1,092	1,506	77½
Fourth year .....	144	....	1,214	1,358	66½
	1,404	1,530	2,378	5,312	263¾

### Prescribed Work by Departments

	Aggregate class hours
Anatomy .....	684
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 .....	904
Ophthalmology .....	48
Otolaryngology .....	70
Obstetrics & Gynecology .....	432
Pediatrics .....	348
Total hours .....	5,312

# Description of Courses

## Course Numbering System

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

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

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

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

## Basic Science Departments

### Anatomy

ANTHONY A. PEARSON, Chairman of Department

#### Professors

ROBERT L. BACON

ANTHONY A. PEARSON

#### Associate Professors

\*DAVID L. GUNBERG

WILLIAM A. STOTLER

ARCHIE R. TUNTURI

#### Assistant Professors

ALFRED G. HAYES

RICHARD B. LYONS

#### Assistant Clinical Professor

JOHN M. PIERSON

#### Clinical Instructor

JOHN E. SWETT

#### Research Associate

WILLIAM R. BISHOP

#### Research Assistants

ALLIS RIBLETT

DOLORES M. WAHL

M. BARBARA LEIGHTON

JEAN MACY

WILLIAM S. 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

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

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

An 414. **Embryology.** 1 hour fall, 3 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. Fall: lectures and quizzes, 1 hour a week. Winter: lectures and quizzes, 2 hours a week; laboratory 3 hours a week. 72 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 1410: uses of Fortran (formula translation) and Autocoder Language; 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

*Professors*

ARTHUR W. FRISCH

EVELYN L. OGINSKY

*Associate Professor*

LYLE VEAZIE

*Assistant Professor*

ERNEST A. MEYER

*Instructor*

RUTH A. MYLLENBECK

*Research Assistants*

BETTY POPE

JOAN SAILOR

GORDON H. DAVIES

### 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.** Any term, 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*

A. WESLEY HORTON  
DAVID S. JACKSON

HOWARD S. MASON  
WILBERT R. TODD

JOHN T. VAN BRUGGEN  
EDWARD S. WEST

*Associate Professors*

CLARISSA H. BEATTY  
ANTONIO E. COLAS

\*JACK H. FELLMAN

RUTH D. PETERSON  
DEMETRIOS A. RIGAS

*Assistant Professors*

MARVIN C. HINES  
DALE D. HOSKINS

RICHARD T. JONES  
NICHOLAS NICOLAIDES

ANNE M. PERLEY  
ELLEN L. TALLMAN

*Instructors*

ROSE MARY BOCEK

THOMAS FUJITA

*Research Associates*

KYO-JOEN AHN

BARRY ALLEN

ELINOR LEVIN

*Research Assistants*

MARILOUISE ALLEN  
RUTH M. ALLEN

LESTER LAAESTUEN  
P. MACMAHILL

JEAN SCOTT  
WALTER H. VINCENT

### 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

\* On leave of absence, Max-Planck Institute, Munich, Germany, from Aug. 1, 1963 to July 31, 1964.

	<i>Assistant Professors</i>	
JAMES L. BRAMHALL	MARTHA L. HAMILTON	GERALD J. LATTIG
	<i>Assistant Clinical Professors</i>	
MARLOWE DITTEBRANDT	EUGENE W. LANDRETH	ALBERT A. OYAMA
	<i>Clinical Associate</i>	
	JAMES S. ARNOLD	
	<i>Instructor</i>	
	MARY E. BAPTIST (Medical Technology)	
	<i>Clinical Instructors</i>	
NIGEL A. PICKERING		DAVID S. TAKALO
	<i>Research Assistants</i>	
JEANNE CARROLL HOPKINS		DAVID S. NEWPORT
	<i>Residents</i>	
ROBERT M. CONNELL	ROBERT F. MALISON	JOHN H. RIPPEY
JOHN T. DIFFERDING	JAMES E. ODELL	OSCAR STENBERG
	SUZANNE M. PAULSEN	

## 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. 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

	<i>Professors</i>	
JUDSON S. BROWN	JOSEPH D. MATARAZZO	GEORGE SASLOW (Psychiatry)
FREDERICK H. KANFER		
	<i>Associate Professor</i>	
	RICHARD F. THOMPSON	
	<i>Assistant Professors</i>	
BRUCE V. BUTLER	JOHN O. KANGAS	JEANNE S. PHILLIPS
CONSTANCE HANF	RUTH G. MATARAZZO	ARTHUR N. WIENS
	<i>Instructors</i>	
BERNADENE V. ALLEN		ROBERT D. FITZGERALD

## REQUIRED COURSE

## 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 one of the behavioral sciences. 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

SEFTON R. WELLINGS

*Associate Clinical Professors*

SHELDON A. JACOBSON

E. COLTON MEEK

JOSEPH E. NOHLGREN

*Assistant Professors*

ROBERT E. COOPER, JR.

JAMES R. PHILP

DALJIT S. SARKARIA

*Assistant Clinical Professors*

CLARENCE L. CHESTER  
TERENCE H. COCHRAN

OTTO R. EMIG  
ALBERT A. OYAMA

JOHN C. SMITH, II  
GRIER F. STARR

*Clinical Associate*

NORMAN H. RICKLES

*Instructors*

JEAN H. BOYES

ROBERT E. BROOKS

JAMES DEWITT RANKIN

*Residents*

ROBERT D. CARDIFF

ARTHUR L. KOEHLER

## 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. 6 hours a week for six weeks; 36 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

*Research Assistants*

LEONARD T. SIGELL

STERLING M. SORENSON  
RAUL VERNAL

ROBERT E. BRUMMETT  
EDWARD HOLLAND

## 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*

ALFRED J. RAMPONE

BENJAMIN B. ROSS

JOSEPH B. TRAINER

ROBERT E. SWANSON

*Assistant Professor*

W. ALDEN SPENCER

*Instructor*

EUGENE A. LENTINI

*Research Assistants*

SHARON DUNNING

J. CRAIG HAMBLETON

WILLIAM R. RENCKEN

GEORGE M. AUSTIN

*Clinical Research Associates*

MONTE A. GREER

DONALD M. PITCAIRN

MOSES E. STEINBERG

## 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 pressor, 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. Prerequisite: 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

BLAIR HOLCOMB  
NOBLE WILEY JONES

LYLE B. KINGERY  
MERL L. MARGASON

HOMER P. RUSH  
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

DEMETRIOS A. RIGAS  
(Experimental Medicine)  
RAYMOND R. SUSKIND  
ROY L. SWANK  
JOHN R. WALSH

#### Clinical Professors

THOMAS S. SAUNDERS

WILLIAM H. SHELDON

#### Associate Professors Emeriti

ISIDOR C. BRILL

MERLE W. MOORE

MATTHEW C. RIDDLE

#### Associate Professors

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

ROBERT D. KOLER  
JAMES METCALFE  
BERNARD PIROFSKY  
DONALD M. PITCAIRN

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

#### Associate Clinical Professors

FRANK W. CROWE  
JOYLE DAHL  
ROBERT S. DOW  
HULDRICK KAMMER

GEORGE B. LONG  
FRANK PERLMAH  
LEON F. RAY  
EDWARD E. ROSENBAUM

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

#### Assistant Professors

RICHARD E. BAILEY  
MICHAEL D. BAIRD  
ROBERT H. BIGLEY  
J. DAVID BRISTOW  
C. CONRAD CARTER  
\*JACK H. FELLMAN  
(Neurochemistry)

ROBERT D. GOLDMAN  
MYRON R. GROVER, JR.  
RICHARD T. JONES  
DONALD G. KASSEBAUM  
†JOHN W. KENDALL

ROBERT E. MASS  
ROBERT D. MICHEL  
JAMES P. MORRIS  
WILLIAM A. NEILL  
FREDERIC W. SMITH  
JANICE R. STEVENS

#### Assistant Clinical Professors

KURT W. AUMANN  
GEORGE A. BOYLSTON  
AUBREY M. DAVIS  
WILLIAM P. GALEN  
MORTON GOODMAN

FREDERICK A. J. KINGERY  
MARION L. KRIPPAEINE  
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

PETER J. GALANTE

LOUIS LINO

#### Clinical Associates

ARTHUR W. BERG  
ARTHUR M. BERGMAN

PAUL R. BURGNER  
CHARLES W. COFFEN

WILLIAM COHEN  
RUDOLPH M. CROMMELIN

\* On leave of absence, Max-Planck Institute, Munich, Germany, from Aug. 1, 1963 to July 31, 1964.

† On leave for military service.

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  
WALTER J. KUHL, JR.

MERLE M. KURTZ  
WILBUR L. LARSON  
AARNE J. LINDGREN  
CHARLES E. LITTLEHALES  
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. ROBINS  
WAYNE R. ROGERS  
WILLIAM C. SCOTT  
WILL L. SENDERS  
JOHN L. SOELLING  
DAVID K. TAYLOR

ERNEST JACK BENNER  
DOUGLAS R. BOTTOMLY

*Instructors*

SIDNEY BROWNSTONE  
CLIFFORD A. FRATZKE

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. DYGERT, JR.  
STELLA FISHER  
LEO J. FREIERMUTH  
DAVID C. FRISCH  
LEONARD M. GOLDBERG  
ROBERT H. GRAY  
ROBERT L. HARE

WILLIAM J. HEMPHILL  
PAUL O. KRETSHMAR  
WILLIAM M. LAIDLAW  
L. WILLIAM LARSON  
STEPHEN W. MAKES  
HARRY W. MASENHIMER  
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  
JAMES A. RILEY  
W. PETER RILLING  
BEATRICE K. ROSE  
BERNARD F. RYAN  
HERBERT J. SEMLER  
JOHN M. SHAW  
GEORGE V. SQUIRE  
RALPH R. SULLIVAN  
CHARLES W. WATKINS  
WARREN S. WELBORN  
ROBERT D. WILSON  
GORDON T. WOLFE  
JAMES V. WOODWORTH

*Residents*

JOHN P. CONDER  
WARD E. DICKEY, JR.  
JOHN H. ELLISON  
ELDON L. ERICKSON

CHARLES T. FISCHER  
GORDON R. HONDORP  
KARSTEN C. LEWIS

WINSTON E. MAXWELL  
RICHARD C. MUNTER  
KENNETH I. SUTHERLAND  
WILLIAM W. WALDEN

**Cardiology**

HERBERT E. GRISWOLD, Head of Division

*Professors*

HERBERT E. GRISWOLD

HANCE F. HANEY

*Clinical Professor Emeritus*

HOMER P. RUSH

*Associate Professors*

JAMES METCALFE

LEONARD W. RITZMANN

*Associate Clinical Professors*

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

*Fellow*

CYRUS FARREHI

**Chest Diseases**

DONALD M. PITCAIRN, Head of Division

**MEDICINE**

Associate Professors  
DONALD M. PITCAIRN  
JAMES T. SPEROS  
Associate Clinical Professor  
JOHN E. TUHY  
Assistant Professors  
ROBERT D. MICHEL  
JAMES F. MORRIS  
Assistant Clinical Professor  
DONALD E. OLSON  
Associate  
PETER J. GALANTE  
Clinical Associate  
WILLIAM COHEN  
Clinical Instructor  
CHARLES T. PINNEY  
Research Assistants  
BERIT BERTILSON  
JOANNE MACASKILL

**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*

MARCUS M. HORENSTEIN

OTTO C. PAGE

*Instructor*

JACK H. HUTCHINSON

*Clinical Instructor*

ROBERT L. HARE

*Research Assistants*

JAMES H. BECK

T. BETOE NYHEIM

**Endocrinology**

MONTE A. GREER, Head of Division

*Professor*

MONTE A. GREER

*Associate Clinical Professor*

HULDRICK KAMMER

*Assistant Clinical Professors*

KURT W. AUMANN

ERNEST T. LIVINGSTONE

*Clinical Instructor*

WILLIAM M. LAIDLAW

*Research Fellow*

SHIN-ICHI SHIMODA

*Research Assistants*

CAROLYN DUYSK

ANN STOTT

**Gastroenterology**

JOHN A. BENSON, JR., Head of Division

<i>Associate Professor</i>		
JOHN A. BENSON, JR.		
<i>Associate Clinical Professor</i>		
GEORGE B. LONG		
<i>Assistant Professor</i>		
FREDERIC W. SMITH		
<i>Assistant Clinical Professors</i>		
GEORGE A. BOYLSTON	JOHN J. KRYGIER	
<i>Clinical Associates</i>		
MARVIN C. GOLDMAN	LEWIS J. KRAKAUER	HEYES PETERSON
THOMAS S. HEALY	NORBERT E. MEDVED	JOHN L. SOELLING
<i>Clinical Instructors</i>		
LEO J. FREIERMUTH	W. PETER RILLING	
<i>Fellow</i>		
CLIFFORD S. MELNYK		
<i>Research Assistant</i>		
LUCY C. STOUT		

**Hematology and Experimental Medicine**

EDWIN E. OSGOOD, Head of Division

<i>Professors</i>		
EDWIN E. OSGOOD	DEMETRIOS A. RIGAS (Experimental Medicine)	
<i>Associate Professors</i>		
ROBERT D. KOLER	BERNARD PIROFSKY	ARTHUR J. SEAMAN
<i>Assistant Professors</i>		
ROBERT H. BIGLEY	ROBERT D. GOLDMAN	ROBERT E. MASS
	RICHARD T. JONES	
<i>Clinical Instructor</i>		
ROBERT G. PITTENGER		
<i>Research Associates</i>		
JOHN H. BROOKE	MARIE L. DUERST	
<i>Research Assistants</i>		
ANN AUGUST	EDWARD A. JOHNSON	DOROTHY ST. HELEN
DAVID W. GERLITS	KATHERINE PRATT	PATRICIA THOMPSON
SOSAMMA C. JOHN		PATRICIA VANBELLINGHEN
<i>Residents</i>		
JODY ANDERSON	RICHARD L. HARRIS	LAWRENCE LUTCHER

**Immunology, Allergy, and Infectious Disease**

FRANK PERLMAN, Head of Division

<i>Associate Clinical Professor</i>		
FRANK PERLMAN		
<i>Assistant Clinical Professor</i>		
ROY R. MATTERI		
<i>Clinical Associate</i>		
GEORGE M. ROBINS		
<i>Clinical Instructors</i>		
JOHN D. O'HOLLAREN	GEORGE V. SQUIRE	GORDON T. WOLFE

**Neurology**

ROY L. SWANK, Head of Division

<i>Professor</i>		
ROY L. SWANK		
<i>Clinical Professor</i>		
MERL L. MARGASON		
<i>Associate Professor</i>		
JAMES H. AUSTIN		
<i>Associate Clinical Professor</i>		
ROBERT S. DOW		
<i>Assistant Professors</i>		
C. CONRAD CARTER	*JACK H. FELLMAN (Neurochemistry)	JANICE R. STEVENS
<i>Associate</i>		
LOUIS LINO		
<i>Instructors</i>		
THOMAS FUJITA	JOHN GORDON ROTH	
<i>Research Associate</i>		
VICTOR MILSTEIN		
<i>Research Fellow</i>		
WOLFGANG HISEN		
<i>Residents</i>		
HUGH RONALD McMAHON	HENRY E. STORINO	

**Rheumatology**

DANIEL M. BACHMAN, Head of Division

<i>Associate Professor</i>		
DANIEL M. BACHMAN		
<i>Associate Clinical Professor</i>		
EDWARD E. ROSENBAUM		
<i>Clinical Associates</i>		
ROBERT E. RINEHART	DAVID K. TAYLOR	
<i>Instructor</i>		
DOUGLAS R. BOTTOMLY		
<i>Clinical Instructor</i>		
PAUL O. KRETCHMAR		
<i>Research Assistant</i>		
BELLE DRAGON		

**Dermatology**

WALTER C. LOBITZ, JR., Head of Division

<i>Professors</i>		
WALTER C. LOBITZ, JR.	RAYMOND R. SUSKIND	
<i>Clinical Professors</i>		
LYLE B. KINGERY	THOMAS S. SAUNDERS	
<i>Associate Professor</i>		
RICHARD L. DOBSON		
<i>Associate Clinical Professors</i>		
FRANK W. CROWE	JOYLE DAHL	SHELDON A. WALKER
	LEON F. RAY	
<i>Assistant Clinical Professors</i>		
FREDERICK A. J. KINGERY	JOHN CLIFFTON MASSAR	

\* On leave of absence, Max-Planck Institute, Munich, Germany, from Aug. 1, 1963 to July 31, 1964.

<i>Clinical Instructors</i>		
BRUCE R. CHENOWETH CONRAD A. DELATEUR DAVID C. FRISCH	WILLIAM J. HEMPHILL ALBERT E. LARNER BERNARD F. RYAN	JOHN M. SHAW RALPH R. SULLIVAN CHARLES W. WATKINS
<i>Research Associates</i>		
DORIS E. BROPHY	NICHOLAS NICOLAIDES	
<i>Research Assistants</i>		
MARY CAMPBELL ELIZABETH HAINES	MARIAN NEILSON	MARY LOU PEARSON KATHE STRANGFELD
<i>Residents</i>		
ROBERT F. BELL GARY W. CAGE JAMES A. CROSS	WALTER G. LARSEN FRANKLIN PASS	CECIL SIGAL STEPHEN SILVER MARVIN R. YOUNG

### Dental Medicine

HAROLD J. NOYES, Head of Division

*Clinical Professor*

HAROLD J. NOYES

*Clinical Associates*

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

ROBERT J. BRUCKNER JOHN P. DICKSON	JOHN PAUL JARABAK DUANE R. PAULSON	JAMES T. RULE BHIM S. SAVARA
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### 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 present the basic principles of medical diseases and 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 is given to the development of skill in history taking, physical examination, and differential diagnosis.

The student attends Medicine Staff Conferences, a special Neurological Teaching Clinic, a one-hour Dermatology Clerkship, 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 693. **Human Genetics.** 1 hour spring term.

Clinical presentation and lectures designed to introduce students to genetic mechanisms in human disease. Material covered will include mechanism of

gene action, population genetics and chromosomal abnormalities resulting in clinical disease. Lectures and lecture demonstrations. 1 hour a week; 12 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, symptomology, and differential diagnosis. Lectures, 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.

## PSYCHIATRY

### Dental Medicine

#### REQUIRED COURSE

##### FOURTH YEAR

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

Designed to give the medical student a survey of facial growth and oral disease, with discussion of specific diagnostic criteria and treatment of the more common lesions. Coordinated lectures and textbook reading on: Disturbances of oral and facial growth; oral and facial pain; dental caries; pulpitis and periapical pathology; differential diagnosis of radiolucencies in the jawbones; diagnosis of common oral conditions. Lectures, 1 hour a week; 12 hours.

## Psychiatry

GEORGE SASLOW, Chairman of Department

### Professors

JOSEPH D. MATARAZZO  
(Medical Psychology)

GEORGE SASLOW

### Clinical Professor

HENRY H. DIXON

### Associate Clinical Professors

JOHN L. BUTLER

HERMAN A. DICKEL

### Assistant Professors

JULIA S. BROWN  
(Medical Sociology)

IRA B. PAULY  
EUGENE E. TAYLOR

D. DUANE DENNEY  
LENA KENIN

### Assistant Clinical Professors

GERHARD B. HAUGEN  
CARL V. MORRISON

JAMES G. SHANKLIN

### Instructors

JACK R. HEGRENES  
(Psychiatric Social Worker)

NANCY KOSTERLITZ  
(Psychiatric Social Worker)

### Clinical Instructors

THOMAS T. BENNETT  
SIEGFRIED R. BERTHELSDORF  
CLARENCE E. CARNAHAN, JR.  
HENRY H. DIXON, JR.  
GRANT B. HUGHES  
F. PAUL KOSBAR

DONALD MCKINLEY  
DUNCAN A. MCLAUCHLAN  
ROBERT MIGHELL  
SEYMOUR R. MOSS  
W. EUGENE OWENS

C. RUSSELL PARKER  
WAYNE M. PIDGEON  
ALLAN G. ROBERTS  
MARY ANNE SMITH  
WILLIAM W. THOMPSON  
JOHN H. WATERMAN

### Fellow

ARLEN QUAN

### Residents

MARY JANE DUBINSKI  
RICHARD L. GRANT  
LEONARD L. HESTON

RICHARD H. JOHNSON  
DELBERT M. KOLE

THOMAS E. MILLER  
RICHARD H. PHILLIPS  
AGNAR A. STRAUMFJORD

### 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 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 variety of chronic 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

## Associate Professors

JAMES B. HAWORTH      VINCENT C. HINCK      TYRA T. HUTCHENS  
(Radioisotopes)

## Associate Clinical Professors

LOUIS H. FRISCHE      SELMA HYMAN      J. ROBERT LEE

## Assistant Professor of Radiologic Technology

HILDA E. DRUM

## Assistant Professor

HARRY SHAICH  
(Radiation Physicist)

## Assistant Clinical Professors

WAYNE G. ERICKSEN      MILTON D. HYMAN      JAMES R. RAINES  
ARTHUR F. HUNTER      JOHN WAYNE LOOMIS      FRED C. SHIPPS

## Clinical Associate

SHERMAN E. REES

## Instructors

MARCIA K. BILBAO      HARRY SHAICH  
(Radiation Physicist)

## Clinical Instructors

IRVING J. HOROWITZ      HARRY NEWMAN      ARTHUR L. OVREGAARD  
JOHN L. HOWIESON      GREGORY B. NICHOLS      GEORGE F. SATTERWHITE  
ROBERT S. MILLER      WALTER R. STAHL

## Residents

WELDE W. FREY      MELVIN P. JUDKINS      MERLE L. MOBERLY  
JOHN J. GALLUCCI      JAMES E. MASSEMAN      JOSEPH V. SCRIVANI  
IRVING 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      SAMUEL B. OSGOOD  
THOMAS L. MEADOR

## 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.** 2 hours winter, 1 hour spring.  
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 winter, 1 hour a week spring. 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.** Any term, hours to be arranged.

## Surgery

J. ENGLEBERT DUNPHY, Chairman of Department

## General Surgery

## Professors Emeriti

WILLIAM K. LIVINGSTON

EUGENE W. ROCKEY

## Professors

J. ENGLEBERT DUNPHY

CLARE G. PETERSON

\*ROBERT A. WISE

## Clinical Professors

JOHN C. ADAMS

ARTHUR C. JONES  
(Physical Medicine)

MILLARD S. ROSENBLATT

## Associate Professor

WILLIAM W. KRIPPAEHN

## Associate Clinical Professors

ALLEN M. BOYDEN

CLIFFORD E. HARDWICK  
MATTHEW MCKIRDIE

OLIVER M. NISBET

## Assistant Professors

WILLIAM S. FLETCHER

STANLEY W. JACOB

R. MARK VETTO

## Assistant Clinical Professors

MARTIN A. HOWARD  
RUSSELL L. JOHNSRUDJOHN F. KANE  
DONALD R. LAIRD  
JOSEPH W. NADALJOHN P. TROMMALT  
WERNER E. ZELLER

## Clinical Associates

HARVEY W. BAKER  
JOHN W. BASSETT  
ADALBERT G. BETTMAN  
DARRELL C. BOLLAM  
JOHN G. P. CLELANDARCH DIACK  
THOMAS J. FOX  
WILLIAM M. GARNJOBST  
JOHN M. GUISS  
RUSSELL G. GUSTAVSON  
ROBERT W. MARCUMJ. KARL POPPE  
JOSEPH M. ROBERTS  
DAN M. STEFFANOFF  
EDWARD E. WAYSON  
NATHANIEL D. WILSON

## Instructors

JAMES H. FOSTER

RODNEY H. HERR

THOMAS K. HUNT

## Clinical Instructors

RICHARD P. ANDREWS  
JACK E. BATTALIA  
HARRY G. BECKWITH  
FREDERIC H. BENTLEY  
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. HALLINBERNARD P. HARPOLE  
JOHN F. HAYES  
TOSHIO INAHARA  
RODERICK L. JOHNSON  
REINHOLD KANZLER  
GARY H. LEAVERTON  
G. PRENTISS LEE  
VERNER V. LINDGREN  
RICHARD H. LINDQUIST  
R. KENT MARKEE  
WILLARD L. MATHIESON  
DAVID B. MILLER, JR.  
RAYMOND E. MOORE  
(Physical Medicine)  
H. MINOR NICHOLSROBERT W. PATTON  
IRVING PUZISS  
MELVIN M. REEVES  
WALTER C. REINER  
EDWARD E. RIPPEY  
WILLIAM M. ROSENBAUM  
WILLARD D. ROWLAND  
NATHAN SHLIM  
PHILIP A. SNEDECOR  
EUGENE S. SULLIVAN  
ROBERT H. TINKER  
ALVIN O. UHLE  
JAMES W. WILEY  
GREGG D. WOOD  
JAMES A. WOOD

## Research Fellow

P. J. DESHPANDE

## SURGERY

## Residents

WALTER F. ALEXANDER, JR.  
WILLIAM C. AWE  
JOHN C. BIGELOW  
JAMES J. CHANDLER  
RICHARD D. CHAPMAN  
ROBERT C. DAVIS  
DANIEL L. DENNISLATHAM FLANAGAN, JR.  
THOMAS J. FOGARTY  
KEITH F. HARCOURT  
ROBERT P. HODAM  
JACK D. JEFFERSON  
CHARLES C. JENKINS  
RICHARD A. KINGSBURYWILLIAM McALLISTER  
KEITH A. ROBERTSON  
RALPH D. ROBERTSON  
RICHARD C. ROGERS  
RICHARD G. ANDERSON  
RONALD W. VINYARD  
ROBERT L. WEBB

## Anesthesiology

FREDERICK P. HAUGEN, Head of Division

## Professor

FREDERICK P. HAUGEN

## Associate Professors

JOHN CLARENCE ROTH

REX J. UNDERWOOD

## Clinical Associate

ELLERY L. LANDERS

## Instructors

DAVID GOWING

BETTY B. THOMPSON

## Clinical Instructors

ANNELENE J. AMIRANA  
JOHN O. BRANFORD  
DONALD M. BRINTON  
GENEVIEVE S. BURKDONALD P. DOBSON  
J. COLEMAN EDWARDS  
JAMES V. HARBERELLERY L. LANDERS  
MARION E. PALMER  
PAUL E. SCHAFF

## Residents

SAMUEL T. BENNETT  
CARL F. CHAPMANCHRISTINE L. MACKERT  
MARILYN A. MICKEYBRUCE A. PETERS  
CHARLOTTE A. THOMPSON

## Cardiopulmonary Surgery

ALBERT STARR, Head of Division

## Associate Professor

ALBERT STARR

## Associate Clinical Professor

WILLIAM S. CONKLIN

## Assistant Clinical Professor

LAWRENCE M. LOWELL

## Associate

COLIN W. MCCORD

## Clinical Instructors

STANLEY F. BERQUIST

ROBERT W. KENDALL  
CHARLES H. SPARKS

WILLIAM R. SWEETMAN

## Neurosurgery

\*GEORGE M. AUSTIN, Head of Division

## Professor

GEORGE M. AUSTIN

## Clinical Professor

JOHN RAAF

## Associate Professor

PHILIP D. GORDY

## Assistant Clinical Professor

EDWARD W. DAVIS

\* On leave of absence, Adviser in Surgery, Faculty of Medicine, Chiangmai, Thailand.

\* On leave of absence, Department of Physiology, Cambridge University, England, from Sept. 15, 1963 to Sept. 14, 1964.



*Clinical Associate*

EDWARD K. KLOOS

*Instructor*

GEORGE W. SCHEMM

*Clinical Instructors*

JOHN P. DENNIS

RAY V. GREWE

BRUCE N. KVERNLAND

HAROLD D. PAXTON

*Residents*CARL J. BELBER  
LEWIS J. BROWN

RALPH F. KAMM

AL H. KUYKENDALL  
JOEL L. SERES**Orthopedic Surgery**

WILLIAM E. SNELL, Head of Division

*Professors Emeriti*

HARRY C. BLAIR

C. ELMER CARLSON

*Associate Professor*

WILLIAM E. SNELL

*Associate Clinical Professors*

E. GEORGE CHUINARD

JOE B. DAVIS

LAWRENCE NOALL

FRANK B. SMITH

*Assistant Professor*

RODNEY K. BEALS

*Assistant Clinical Professors*JOHN F. ABELE  
RODERICK E. BEGG

RICHARD F. BERG

HAROLD E. DAVIS

GURNEY A. KIMBERLEY

DONALD B. SLOCUM

*Clinical Associates*PAUL CAMPBELL  
GEORGE W. COTTRELL  
JOSEPH H. GILL

RICHARD J. HOPKINS

ORVILLE N. JONES

LAURENCE R. LANGSTON

JAMES A. MASON

FAULKNER A. SHORT

*Clinical Instructors*THOMAS J. BOYDEN  
ROBERT E. BUCKMASTER  
RAYMOND A. CASE, JR.  
WINFRED H. CLARKE  
HOWARD L. CHERRY  
LAURENCE J. COHEN  
THOMAS A. EDWARDS  
RICHARD P. EMBICK

CHARLES A. FAGAN

H. FREEMAN FITCH

ROBERT J. FRY

LOUIS P. GAMBEE

CALVIN E. GANTENBEIN

SAMUEL F. GILL

HARRY E. GROWTH

JOHN HARDER

CARL L. HOLM

CALVIN H. KIRST

ROBERT L. LARSON

NORMAN D. LOGAN

ROLLAND C. MERRIFIELD

SAMUEL OSBORN

ROBERT M. RANKIN

EDWIN G. ROBINSON

*Residents*MICHAEL BASKIN  
CHARLES A. BONNETT  
MCGREGOR L. CHURCH  
ROBERT F. CORRIGAN

ARTHUR L. ECKHARDT

JOHN W. GILSDORF

HOWARD E. JOHNSON

RICHARD L. MERCER

JAMES D. NELSON

JOHN W. THOMPSON

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 FERGUSON

THEODORE H. LEHMAN

CURTIS A. MACFARLANE

ROBERT J. MOORE

ARNOLD RUSTIN

JOHN G. VANDENBERG

*Clinical Instructors*G. DONALD BEARDSLEY  
ANIS M. BEHNAM  
CHARLES E. CATLOW, JR.ROBERT B. GREENE, JR.  
ROBERT L. KALEZDENIS C. O'SULLIVAN  
DAVID P. PAULL  
GERALD W. SCHWIEBINGER*Residents*LYALL CRARY, JR.  
WILLIAM Y. DUNCAN III  
JERRY D. GIESYROBERT C. LOOMIS  
RUSSELL N. SACCOIVAN L. SANDOZ  
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 in the wards is supplemented by case-analysis clinics and seminars. A systematic series of lectures covering the diagnosis and treatment of orthopedic, urological, 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 neurological surgery. Conferences, clinics, patient studies, and demonstrations are held in physical medicine and clinical pathology.

Students spend six weeks on general surgery, three weeks on orthopedic surgery, and three weeks on urology.

Lectures in General Surgery (winter and spring), Orthopedic Surgery (winter), Urology (fall), and Anesthesiology (spring); 60 hours. General Surgery Clerkship Clinic, 60 hours; General Surgery Outpatient Clinic, 36 hours; Urology Clerkship, 72 hours; Urology Outpatient Clinic, 24 hours; Orthopedic Surgery Clerkship, 75 hours; Orthopedic Surgery Outpatient Clinic, 21 hours; Neurosurgery Seminar, 12 hours; Regional Anesthesia, 12 hours; Fractures and Joint Injuries Conference, 24 hours; Physical Medicine, 24 hours; Clinical Pathology, 12 hours; 372 hours. 432 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, ophthalmology, and otolaryngology is included. Lectures in urology and surgery round out the student's knowledge. The student attends the weekly General Clinical Conference.

Students spend six weeks on general surgery, two weeks on eye, ear, nose, and throat, and two weeks on neurosurgery.

Lectures in general surgery (winter) and urology (fall), 24 hours. General Clinical Conference, 24 hours; General Surgical Clinic, 24 hours; general surgery clerkship, 222 hours; eye clerkship, 52 hours (22 additional hours included in Eye 670); ear, nose, and throat clerkship, 16 hours (58 additional hours included in ENT 670); neurosurgery clerkship, 74 hours; 412 hours. 436 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, hours to be arranged.  
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 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 Professor*

VIRGINIA L. WEIMER

#### *Assistant Clinical Professors*

ROBERT V. HILL  
JOHN P. KEIZER

EDWARD N. MCLEAN

THOMAS E. TALBOT  
ROBERT W. ZELLER

#### *Associate*

MARVIN C. HINES

#### *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*

RICHARD A. LALLI

#### *Clinical Instructors*

W. LEIGH CAMPBELL  
ROBERT C. COWGER

DONALD W. DEERING  
CLYDE H. DUVALL, JR.  
WALTER R. ENDERS

PAUL J. ROBINSON  
GERALD A. TERMAN

#### *Residents*

JAMES DELP  
DONALD R. JOHNSON

KENNETH S. KILBORN  
SAM L. MEYER

K. NOLEN TANNER  
HENRY J. L. VAN DYK

#### 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 for two weeks in the patient-care programs in the adult and children's eye service. Demonstration and use of instruments and techniques for ophthalmic diagnosis and treatment. Part of the course is devoted to the study of ophthalmic manifestations of systemic diseases. 11 hours a week for 2 weeks; 22 hours. (Students also spend 52 hours on eye clerkship as part of Sur 670.)

#### 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  
PAUL B. MYERS

T. GLENN TEN EYCK  
BRUCE L. TITUS

#### *Clinical Associates*

H. VICTOR ADIX

GEORGE C. SAUNDERS

KENNETH D. SMYTH

<i>Clinical Instructors</i>		
OSCAR C. CHOWNING, JR. 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. SWANUTT
<i>Residents</i>		
RUPERT O. BROCKMANN EDWIN C. EVERTS DONALD H. HEITHECKER	JAMES D. IMBRIE 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 spring.

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 programming 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). (Sixteen additional hours included in Sur 670.)

## Obstetrics and Gynecology

RALPH C. BENSON, Chairman of Department		
<i>Professors</i>		
RALPH C. BENSON		HOWARD J. TATUM
<i>Clinical Professor</i>		
		HOWARD C. STEARNS
<i>Associate Professors</i>		
ANTONIO E. COLAS		RAPHAEL B. DURFEE
<i>Associate Clinical Professors</i>		
CLIFFORD FEARL GUNNAR E. C. NELSON	DUNCAN R. NELSON	GOODRICH C. SCHAUFFLER WILLIAM M. WILSON
<i>Assistant Professor</i>		
		FRANK SHUBECK
<i>Assistant Clinical Professors</i>		
THEODORE M. BISCHOFF RODERICK C. BLATCHFORD MELVIN W. BREESE W. RONALD FRAZIER REMY W. FULSHER	WILLIAM L. HARTMANN DAVID W. JAMES GERALD E. KINZEL GEORGE H. LAGE F. KEITH MARKEE ALFRED N. MARSHALL	J. OPPIE MCCALL, JR. MAX H. PARROTT JESSE L. RAY WILLIAM O. THOMAS JAMES M. WHITELY

<i>Clinical Instructors</i>		
RICHARD N. BOLTON LE ROY S. CASPERSEN CHARLES L. CHAVIGNY C. LOUISE CLANCY ENRIQUE M. DE CASTRO JAMES W. FERGUS RICHARD W. FRANKLIN	MALCOLM E. FULLER ROBERT B. GREENE GEORGE S. HARA PHILIP H. HENDERSON, JR. WILLIAM W. HICKS, JR. ROBERT C. JACKSON	BENJAMIN B. JONES JOSEPH C. MITCHELL DAVID W. MOORE EDWARD N. PETERSON QUINTEN SCHERMAN ELIZABETH H. SCHIRMER THOMAS A. TREANOR
<i>Residents</i>		
JACK W. BELL PETER L. CRANDALL KIRK E. EVANS	MARK R. HANSCHKA BLAINE L. HOSKINS HARRY A. LEE	BURTON W. NEWTON HAROLD E. RAY 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.** Any term, hours to be arranged in accordance with the requirements in the regular Obstetrics and Gynecology Outpatient Clinic courses.

## Pediatrics

RICHARD W. OLMSTED, Chairman of Department

### Professors

HEROLD S. LILLYWHITE  
(Speech Pathology)

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  
JOHN B. ISOM

MARTIN H. LEES  
L. PAUL RASMUSSEN

### Associate Clinical Professors

MORRIS L. BRIDGEMAN

SCOTT GOODNIGHT

ALVIN D. WERT

### Assistant Professors

ROBERT W. BLAKELEY  
(Speech Pathology)  
ROBERT A. CAMPBELL

GEORGE R. KERR  
ROBERT J. MEECHAN  
VICTOR D. MENASHE

WILLIAM W. ORNDUFF  
ROBERT L. TIPS  
FRIEDA M. WEINER

### Assistant Clinical Professors

CARL G. ASHLEY  
JOHN H. BENWARD  
DANIEL K. BILLMEYER  
JOHN W. BUSSMAN  
QUINTEN W. COCHRAN  
WALTER A. GOSS  
JOHN R. HANSEN

JOSEPH T. HART  
EDWARD L. HENDRICKS  
\*PETER H. HURST  
JOHN A. LARRABEE  
DAVID W. MACFARLANE  
JOHN ARTHUR MAY  
GEORGE A. NASH  
EDGAR M. RECTOR

GEORGE J. SCHUNK  
LONDON H. SMITH  
JOHN L. STEVENSON  
CLEMENS W. VAN ROOY  
CHARLES VARGA  
GEORGE F. WALLIKER  
JAMES P. WHITTEMORE

### Instructors

WARREN H. FAY  
(Speech Pathology)

KATHRINE S. FRENCH  
(Anthropology)  
MICHAEL J. MILLER

NORTON B. YOUNG  
(Audiology)

### Clinical Instructors

HENRY L. BOEHNKE  
LEROY O. CARLSON  
W. ROBERT DAY  
MORTON G. ELEFF  
LYND L. FOLTS

WILLIAM E. HILL  
FRANK M. JACOBSON  
DONALD F. KELLY  
LOUIS R. MCKAEL  
HARRY C. MORSE

MARILYN A. NELSON  
GEORGE S. SMITH  
WILLIAM M. SNOOK  
JOHN H. SPRINGER  
ROBERT E. THORNFELDT

### Residents

CAROLINE KEEGAN DUEGER  
JOHN M. GEVURTZ  
JAMES T. HARTFORD

HOUSHANG A. HATAFI  
KIT G. JOHNSON  
PETER K. F. LO

JOHN C. SELVER  
NED J. WHITCOMB  
ELDON W. YOUNGER

## 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, supplemented 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

\* On leave of absence.

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: advanced courses in biology and chemistry.

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 chairman 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.

### Requirements 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. Courses available for graduate credit are listed under the headings of each of the basic science departments in this catalog.

(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 64.

## 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 foundations for advanced study in teaching supervision, administration, and consultation. This program is four academic years and one summer term in length.

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

For the sophomore year, the student nurse transfers to the School of Nursing, Portland, where she continues her liberal arts studies along with professional nursing courses. Student nurses receive their clinical experience in the teaching hospitals and clinics of the Medical School—the Medical School Hospital, Multnomah Hospital, 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 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.

## Radiologic Technology

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; however, 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 Director of the course in Radiologic Technology, 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

*Professor*

TYRA T. HUTCHENS

*Associate Clinical Professors*

HOMER H. HARRIS

JAMES H. LIUM

*Assistant Professors*

JAMES L. BRAMHALL

MARTHA L. HAMILTON

GERALD J. LATTIG

*Assistant Clinical Professors*

MARLOWE DITTEBRANDT

EUGENE W. LANDRETH

*Instructor*

MARY E. BAPTIST

*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 admissions requirement is three years of college work, including: 24 term hours of biology which are acceptable toward a major in biological science, including one full year of general biology and/or zoology with lecture and laboratory; 24 term hours of chemistry, including lecture and labora-

tory courses acceptable toward a major in chemistry (survey courses are not acceptable); and 4 term hours of mathematics. It is strongly recommended that a course in physics be included in the student's college preparation. 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 .....	\$ 40.00	\$120.00
Laboratory and course fee.....	36.00	108.00
Building fee .....	12.00	36.00
Incidental fee (student health service) .....	26.00	78.00
<b>Total for Oregon residents .....</b>	<b>\$114.00</b>	<b>\$342.00</b>
<b>Total for nonresidents who pay an additional \$90.00 per term .....</b>	<b>\$204.00</b>	<b>\$612.00</b>

Medical technology students pay the "special fees" listed on pages 64-65 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
		<hr/> 17
	Winter Term	
MT 411. Clinical Bacteriology .....		6
MT 425. Clinical Biochemistry .....		6
MT 431. Special Hematology .....		3
†CP 521. Radioisotope Technique .....		1
		<hr/> 16

\* 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 74.

	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
	<hr/> 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 organisms. Fall: lectures, 4 hours a week. Winter: lectures, 3 hours a week; laboratory, 9 hours a week. 176 hours.
- MT 413. **Laboratory Orientation.** 2 hours fall.  
A study of the collection, preservation, and care of the various types of clinical specimens. Lectures, 1 hour a week; laboratory, 3 hours a week; 44 hours.
- MT 414. **Urinalysis.** 4 hours spring.  
A study of the mechanisms of formation and identification of the normal and abnormal components of urine. Lectures, 2 hours a week; laboratory, 6 hours a week; 88 hours.
- MT 420. **Histological Technique.** 4 hours spring.  
Principles of tissue fixation, dehydration, and staining, with special emphasis upon the methods used in histopathological technique. Lectures, 2 hours a week; laboratory, 6 hours a week; 88 hours.
- MT 424, 425. **Clinical Biochemistry.** 5 hours fall, 6 hours winter.  
The principles of biochemistry and the applications of colorimetry; gastrometric analysis, and quantitative chemistry in the determination of the substances in blood and body fluids. Fall: 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 dyscrasias, 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.

\* See page 74.



# Enrollment and Degrees

## Degrees Conferred June 7, 1963

### Doctor of Medicine

GRADUATE	INTERNSHIP
Joseph Graham Antony.....	Martin Army Hospital, Fort Benning, Ga.
Hollis Lyle Augce.....	Virginia Mason Hospital, Seattle, Wash.
Jerry Jerome Bass.....	U. S. Naval Hospital, San Diego, Calif.
Duane Gary Beard.....	Fresno County General Hospital, Fresno, Calif.
William Shive Bechen.....	Charity Hospital of Louisiana, New Orleans, La.
James Brooks Borden.....	Sacramento County Hospital, Sacramento, Calif.
James Albert Brooks.....	Receiving Hospital, Detroit, Mich.
Douglas A. S. Chalmers.....	Presbyterian Hospital, New York City, N.Y.
Robert Wesley Clark.....	Sacramento County Hospital, Sacramento, Calif.
Thomas Roscoe Conklin.....	Fresno County General Hospital, Fresno, Calif.
Wesley Allen Cook, Jr.....	Duke Hospital, Durham, N.C.
Michael J. DeBenedetti.....	San Francisco Hospital, San Francisco, Calif.
John Thad Flaxel.....	University of Chicago Hospitals and Clinics, Chicago, Ill.
James H. Gilbaugh, Jr.....	Ancker Hospital, St. Paul, Minn.
Richard C. Gilsdorf.....	USAF Hospital Wright-Patterson, Dayton, Ohio
George Allan Goodman.....	Sacramento County Hospital, Sacramento, Calif.
John Catlin Goss, Jr.....	Ancker Hospital, St. Paul, Minn.
Richard Titus Gourley.....	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Larry Jene Hall.....	Ancker Hospital, St. Paul, Minn.
Samuel Jensen Hammond.....	Sacramento County Hospital, Sacramento, Calif.
Edward Lewis Hargis.....	St. Luke's Hospital, Spokane, Wash.
Artyce Lee Hawman.....	Children's Hospital, San Francisco, Calif.
James Duff Hearn.....	Emanuel Hospital, Portland, Ore.
George R. Hegstrom, Jr.....	Emanuel Hospital, Portland Ore.
Richard William Hehn.....	San Joaquin General Hospital, Stockton, Calif
Gene Willard Heinrichs.....	Kern County General Hospital, Bakersfield, Calif.
Hilbert John Henriksen.....	Travis USAF Hospital, Travis AFB, Calif.
Gerald Rexford Herrin.....	Walter Reed General Hospital, Washington, D. C.
Curtis Ray Holzgang.....	University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Walter William Hutchison.....	Good Samaritan Hospital, Portland, Ore.
John G. Iwakiri.....	Good Samaritan Hospital, Portland, Ore.
Jay Taylor Johnson.....	Ireland Army Hospital, Fort Knox, Ky.
George Westley Keillor.....	San Joaquin General Hospital, Stockton, Calif.
Donald Thomas Kerr.....	Martin Army Hospital, Fort Benning, Ga.
Alvin Manly Klass.....	Harbor General Hospital, Torrance, Calif.
Robert Ervin Kramer.....	San Francisco Hospital, San Francisco, Calif.
Ben Richard Kuhner.....	Denver General Hospital, Denver, Colo.
Russell Kenneth Lawson.....	Los Angeles County Hospital, Los Angeles, Calif.
Arthur Eugene Lewis.....	Baylor University Medical Center, Dallas, Tex.
Gerald Thomas Lisac.....	State University of Iowa Hospitals, Iowa City, Iowa
Kenneth Kellogg Magee.....	Bernalillo County-Indian Hospital, Albuquerque, N.M.
Charles Lewis Martinson.....	Good Samaritan Hospital, Portland, Ore.
Charles Francis McMahon.....	Marion County General Hospital, Indianapolis, Ind.
Leo Joe McMahon.....	General Hospital of Riverside, Riverside, Calif.
James Wyatt Mortensen.....	Providence Hospital, Portland, Ore.
William Bernard Ness.....	Santa Clara County Hospital, San Jose, Calif.
Walter Edgar Norton.....	San Joaquin General Hospital, Stockton, Calif.
Donald Roy Olson.....	Receiving Hospital, Detroit, Mich.
Melvin Larry Ottis.....	Gorgas Hospital, Balboa Heights, C.Z.
William Glenn Prescott.....	Gorgas Hospital, Balboa Heights, C.Z.
David Dalmer Reeder.....	General Hospital of Riverside, Riverside, Calif.
Esther Hyatt Robinson.....	Massachusetts General Hospital, Boston, Mass.
Charles Dudley Saul III.....	U. S. Naval Hospital, San Diego, Calif.
Richard Stanley Scott.....	Good Samaritan Hospital, Portland, Ore.
Myron Ekaku Shirasu.....	Queens Hospital, Honolulu, Hawaii
Stephen D. Sholkoff.....	San Francisco Hospital, San Francisco, Calif.

Kenneth McAlpine Stevens.....	Brooke General Hospital, San Antonio, Tex.
James Richard Ten Eyck.....	St. Joseph Mercy Hospital, Ann Arbor, Mich.
Richard Pasana Tesoro.....	Queens Hospital, Honolulu, Hawaii
David Steven Todd.....	USAF Hospital Scott, Bellville, Ill.
Gerold Victor van der Vlugt.....	Los Angeles County Hospital, Los Angeles, Calif.
Thomas Augustine Van Veen.....	William Beaumont General Hospital, El Paso, Tex.
Fredrick David Wade.....	Los Angeles County Hospital, Los Angeles, Calif.
Theodore Augustus Walters.....	Letterman General Hospital, San Francisco, Calif.
Mary Helen Wilder.....	Providence Hospital, Portland, Ore.
Laurence E. Winter, Jr.....	Santa Clara County Hospital, San Jose, Calif.
John Waterbury Wood.....	Emanuel Hospital, Portland Ore.
Richard Claude Wright.....	St. Luke's Hospital, Spokane, Wash.

### Doctor of Philosophy

John Peter Bentley  
Paul Telford Russell

### Master of Science

Wesley Allen Cook, Jr.  
John Thad Flaxel  
James Herbert Gilbaugh, Jr.  
Curtis Ray Holzgang

Susan Victoria Hunter  
Robert Ervin Kramer  
Arthur Eugene Lewis  
Charles Francis McMahon  
Leo Joe McMahon

Derek Myhill  
William Glenn Prescott  
Myron Ekaku Shirasu  
Naomi John Vettath

## Enrollment 1962-63

### Medical Students

#### First-Year Class

John H. Affleck  
Dean B. Barnhouse  
Edward J. Barrett  
Nancy C. Bayles  
Anthony C. Billings  
Robert H. Bridenbaugh  
Daniel F. Brown  
Merle F. Bruce  
James W. Budke  
William I. Calhoun  
Michael S. N. Chun  
Furn M. Duncan  
Larry R. Eidemiller  
Margaret E. Elfering  
Richard A. Ellerby  
Robert W. Emmens  
Gerald I. Erickson  
John N. Fax, Jr.  
Douglas P. Fisk  
James H. Fontaine  
Thomas W. Friedland  
Donald W. Froom  
John E. Gambee  
Dennis C. Gould  
David A. Haaland  
Garron R. Hale  
Roy E. Hall

Mark T. Hattenhauer  
Edward W. Hearn  
Ralph W. Higer  
Allan J. Hill III  
Larry W. Hirons  
Sharon M. Horn  
Robert B. Hubbard  
Errett E. Hummel  
William C. Johnson  
Clyde B. Kernek  
Kenneth S. Keyes  
Allen P. Kibbey  
David Y. Kimura  
Robert S. Kinoshita  
Richard G. Lemery  
Arla Sue Lim  
Carole V. Maxwell  
Kenneth M. May  
Terrance J. McDowell  
Colan M. McKinnon, Jr.  
Dayton S. Misfeldt  
Calvin Y. Nakao  
John R. Obye  
David C. Oehling  
Neil J. O'Keefe  
Gerald W. Olmsted  
Michael G. O'Mara

Raymond L. Penniman  
Charles W. Poindexter  
William W. Pollard  
David J. Quenelle  
Natale D. Quilici  
Michael J. Reid  
David L. Robinson  
David R. Rosencrantz  
Harvey A. Rosenstock  
Robert H. Rozendal  
Dean R. Smart  
Ilmar Soot  
William M. Stanley  
J. Scott Starlin  
Frederick L. Surbaugh  
Stephen C. Swan  
Grace M. Takesue  
Joan K. Tanner  
Frank E. Thomas  
Ronald M. Tolls  
John E. Tysell, Jr.  
David W. Waldram  
Jeffrey S. Ward  
James E. Weiss  
David W. Wilder  
John W. Wilson

#### Second-Year Class

Jerald E. Albrich  
John G. Apostol  
Peter W. Bergreen  
Margaret G. Bischel  
C. Carter Boggs  
James W. Burns  
William Y. Burton, Jr.

Travis R. Cavens  
Jack F. Chan  
Robert G. Chuinard  
Gorden L. Clark  
Beverly A. Cleland  
Jerry C. Crooks  
Donald A. Duncan

Jack H. Eberhart  
Jerry J. Fisher  
Edward G. Foxley, Jr.  
R. Eugene Giesbrecht  
Lester S. Goldstein  
Jerry Goldstone  
John B. Hardiman

## MEDICAL SCHOOL

Keith R. Hooker  
W. Breck Howard  
Stanley J. Huber  
Theodore L. Imel  
Robert D. Jackson  
Stephen M. Jackson  
W. David Jones  
J. Michael Keane  
Russell J. Keizer  
Robert K. Koida  
E. Louise Kremkau  
Robert W. Kubick  
Jerry G. Lear  
Richard K. Lear  
Terry W. Lowry  
Gerrit R. Ludwig  
Kenneth R. Maier  
William H. Massey  
Michael I. Michalek  
Richard R. Miller  
Donald A. Molde

Michael E. Nishitani  
Phyllis M. Nybakke  
Edward T. Paget  
Lee H. Peterson  
H. Irving Pierce  
James D. Pitts  
Anselmo Pizzuti  
Michael T. Propst  
James S. Pucelik  
Robert E. Quass  
Kermit V. Ragain  
Steven F. Reeder  
Dean C. Rich  
John P. Ritchey  
Francis A. Roberts  
Gary B. Rothenberger  
Robert C. Seeger  
John L. Sevilla  
R. Michael Sherwin  
Jack B. Shiningier  
James J. Simerville

## Third-Year Class

John E. Abbott  
Robert L. Acker  
Ernest P. Aebi  
Irshad A. Ahmad  
John N. Anderson  
Donald F. Austin  
John O. Bergstrom  
Elroy D. Brandt  
Larry T. Brice  
Robert O. Burgess  
H. Treat Caffcrata  
Timothy J. Campbell  
James J. Cereghino  
Charles K. Chapman  
Maurice J. Comcau  
John S. Corson  
William W. Cox  
Eric W. S. Craig  
S. Hope Davidson  
Robert D. Davis  
Curwood L. Davison  
Carl M. Deming  
David L. Dixon  
Peter J. Dowsett  
Eddie J. Droge  
Robert A. Eastwood  
John Echevarria

Harold Erickson  
James D. Fearl  
Thomas J. Franz  
Layne O. Gentry  
David N. Gilbert  
Eugene W. Goertzen  
Scott H. Goodnight, Jr.  
James L. Griggs  
Edward A. Grossenbacher  
Rodger G. Hawkins  
H. Hale Henson  
Meredith K. Hester  
John C. Hill  
Thomas C. Honl  
Chin S. Hoo  
John C. Hysten  
Robert C. Koch  
Marshall L. Koonce  
Kevin B. Lake  
William R. Lee  
Willard R. Lilly  
Ralph V. Litchfield  
George M. Maskell  
Martin E. McKenney  
Donald L. Meyer  
Donald S. Minckler  
Gary L. Neal  
Daniel W. Nebert

## Fourth-Year Class

Joseph G. Antony  
Hollis L. Augee  
Jerry J. Bass  
Duane G. Beard  
William S. Bechen  
James B. Borden  
James A. Brooks  
Douglas A. S. Chalmers  
Robert W. Clark  
Thomas R. Conklin  
Wesley A. Cook, Jr.  
Michael J. DeBenedetti  
John T. Flaxel  
James H. Gilbaugh, Jr.  
Richard C. Gilsdorf  
George A. Goodman  
J. Catlin Goss, Jr.  
Richard T. Gourley  
Larry J. Hall

Samuel J. Hammond  
Edward L. Hargis  
Artyee Lee Hawman  
James D. Hearn  
George R. Hegstrom, Jr.  
Richard W. Hehn  
Gene W. Heinrichs  
Hilbert J. Henrickson  
Gerald R. Herrin  
Curtis R. Holzgang  
Walter W. Hutchison  
John G. Iwakiri  
Jay T. Johnson  
George W. Keillor  
Donald T. Kerr  
Alvin M. Klass  
Robert E. Kramer  
Ben R. Kuhner  
Russell K. Lawson

Davis S. Smith  
Stanley N. Smith  
Peter Stenzel  
Richard W. Stevens  
Donald K. Stott  
Michael B. Strauss  
Gordon W. Summers  
E. George Thorne  
Gerald E. Trobough  
James L. Uhrhammer  
Visutdhi Upatisinga  
Thomas D. Utterback  
George E. Waldmann  
John L. Wallin  
Dean T. Watkins  
David D. Weaver  
John D. Webber  
Ivyl W. Wells  
Novell M. Wells  
John M. Whitelaw, Jr.

Larry E. Noble  
James E. O'Dea  
Thomas E. Olsen  
David G. Paff  
C. Milton Quam  
John B. Quick, Jr.  
K. Ann Ragle  
Delbert L. Remy  
George H. Rice  
David W. Rich  
Donald F. Richey  
J. Stephen Schaub  
Donald H. See  
Larry J. Severson  
George Shimomura  
Edward H. Stark  
Gary M. Stewart  
William C. Stone  
Per H. Tonnig  
Robert O. Voy  
Donald E. Wadsworth  
N. Dean Weaver  
Jacob H. Wilson  
Albert Winkler, Jr.  
Laurence J. Wiatowski  
John L. Wobig  
Paul D. Young

Arthur E. Lewis  
Gerald T. Lisac  
Kenneth K. Magee  
Charles L. Martinson  
Charles F. McMahon  
Leo J. McMahon  
James W. Mortensen  
William B. Ness  
Walter E. Norton  
Donald R. Olson  
Larry M. Ottis  
William G. Prescott  
David D. Reeder  
Esther H. Robinson  
Banchert Saetan  
C. Dudley Saul  
Richard S. Scott  
Jon A. Shaw  
Myron E. Shirasu

## ENROLLMENT AND DEGREES

Stephen D. Sholkoff  
Kenneth M. Stevens  
Calvin T. Tanabe  
James R. Ten Eyck  
Richard P. Tesoro  
David S. Todd

Gerold van der Vlugt  
Thomas A. Van Veen  
Raul A. Vernal  
Fredrick D. Wade  
Theodore A. Walters  
Mary Helen Wilder

Stuart D. Wilson  
William S. Wilson  
Laurence H. Winter, Jr.  
John W. Wood  
Richard C. Wright

## Graduate Students

Marlene J. Abplanalp  
J. Peter Bentley  
Rose Mary Bocek  
Arthur D. Bond  
Jean Hills Boyes  
Robert E. Brooks  
Robert E. Brummett  
Stuart L. Bunch  
Hugh E. Casey, Jr.  
Janey M. Y. Cheu  
Richard A. Cheu

Reid S. Connell  
Howard W. Davis  
David Gaudin  
William L. Heinrichs  
Susan V. Hunter  
Ralph J. Kalinowski  
Al H. Kuykendall  
Paul E. McMahlill  
Neil J. Moir  
Carolyn J. Moll  
Derek Myhill

Walter Petersen, Jr.  
Mohammed Rafiullah  
James deWitt Rankin  
Paul T. Russell  
Linda L. Shockey  
Leonard T. Sigell  
Constance Simo  
Alan H. Tench  
Naomi Vettath  
Vernon W. Walters

## Specials and Auditors

Murray H. Bartley, Jr.  
John F. Bellinger  
Steven E. Berglund  
Buckner S. Burch  
Alan B. Chambers

William P. Cosart  
James D. Day  
Jack L. Hartley  
Doris Highet  
James W. Little

David H. Maas  
Louis Henry Peters  
Richard S. Pope  
Alvin V. Schiess  
Bente L. Simonsen

## Medical Technology Students

\*Isaac Edward Allen  
Duane Richard Armstrong  
Roberta Ellen Aufderheide  
Marilyn J. Blakely  
Yvonne Elda Buhmann  
\*Earl Dean Burch  
Sharon Louise Carr  
Marvin David Gause  
\*Connie Louise Idstrom

Marilyn Yvonne Indrakamhaeng  
Margaret Jane Johnson  
Leilani Rae Kehm  
Allan Ray Kimmey  
\*Robert Elijah Lewis  
Beverly Ann Wade North  
\*Dora Thea Norwood  
Margaret Ann Redding  
Edith Joan Rittenbach

Jean Evelyn Ruby  
Allen Clark Ryman  
Jean Marie Severin  
Roberta Ann Sleeter  
\*Gerald Eldon Snow  
Leora Jane Warner  
Sandra Rae Hess Webb  
\*Gary Athey Wicklund  
James Atley Wilkinson

\* Auditors

## Summary of Enrollment, 1962-63

	Men	Women	Total
First year .....	73	7	80
Second year .....	79	4	83
Third year .....	79	3	82
Fourth year .....	71	3	74
Total regular students .....	302	17	319
Graduate students .....	24	8	32
Special students and auditors .....	13	2	15
Medical technology students .....	10	17	27
Total .....	349	44	393



