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**ENROLLMENT AND DEGREES**

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[4]
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
A. S. Grant, Baker........................................... 1962
Cheryl S. MacNaughton, Portland.......................... 1963
J. W. Forrester, Jr., Pendleton............................ 1963
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

Officers
William E. Walsh.............................................President
Charles R. Holloway, Jr.................................Vice-President
J. W. Forrester, Jr....................................Member, Executive Committee

John R. Richards, Ph.D., Chancellor
Earl M. Pallett, Ph.D., 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

JOHN R. RICHARDS, Ph.D., Chancellor

ARTHUR S. FLEMING, 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

ROY E. LIEUALLEN, Ed.D.  
President, Oregon College of Education

JAMES W. SHERBURNEx, Ph.D.  
Dean, General Extension Division

WINSTON D. PURVINE, A.B., LL.D.  
Director, Oregon Technical Institute

HERBERT A. BORK, M.S., C.P.A.  Comptroller and Bursar

RICHARD L. COLLINS, M.A., C.P.A.  Budget Director

WILLIAM H. CARLSON, M.A.  Director of Libraries

WOLF D. VON OTTERSTEDT, LL.B.  Assistant Attorney General, assigned to Board Office

EARL M. PALLETT, Ph.D.  Chairman
High School-College Relations Committee

FRANCIS B. NICKERSON, D.Ed.  Executive Secretary
High School-College Relations Committee

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., LL.D.  1946-1950

University of Oregon Medical School
Calendar, 1961-62

Medical and Graduate Students

Fall Term, 1961-62
September 18, Monday .......................................................... Registration
September 19, Tuesday ............................................................ Instruction begins
October 2, Monday ............................................................... Last day to register for full credit or to change courses
November 23, Thursday ......................................................... Thanksgiving Day, holiday
December 9, Saturday ............................................................ Fall term ends

Winter Term, 1961-62
December 11, Monday ............................................................ Instruction begins
December 22, Friday ............................................................... Last day to register for full credit or to change courses
December 23, 1961, to January 1, 1962 .................................. Christmas vacation
March 10, Saturday ............................................................... Winter term ends

Spring Term, 1961-62
March 19, Monday ............................................................... Instruction begins
April 2, Monday ................................................................. Last day to register for full credit or to change courses
May 30, Wednesday ............................................................. Memorial Day, holiday
June 8, Friday ...................................................................... Commencement
June 9, Saturday ............................................................... Spring term ends

Summer Term, 1961-62
June 11, Monday ............................................................... Registration
June 11, Monday ............................................................... Instruction begins
June 25, Monday ............................................................... Last day to register for full credit or to change for credit
July 4, Wednesday ............................................................. Independence Day, holiday
September 1, Saturday ........................................................ Summer term ends
University of Oregon Medical School
Calendar, 1961-62
Medical Technology Students

Fall Term, 1961-62
September 18, Monday..........................Registration
September 19, Tuesday..........................Instruction begins
October 2, Monday..............................Last day to register for full credit
or to change courses
November 23, Thursday.........................Thanksgiving Day, holiday
December 2, Saturday.............................Fall term ends

Winter Term, 1961-62
December 4, Monday...........................Registration and instruction begins
December 18, Monday...........................Last day to register for full credit
or to change courses
December 23, 1961, through January 1, 1962........Christmas vacation
February 24, Saturday...........................Winter term ends

Spring Term, 1961-62
March 5, Monday...............................Registration and instruction begins
March 19, Monday...............................Last day to register for full credit
or to change courses
May 19, Saturday...............................Spring term ends

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

Officers of Administration

JOHN R. RICHARDS, Ph.D., Chancellor, Oregon State System of Higher Education; Professor.
ARTHUR S. FLEMMING, LL.D., President, University of Oregon; Professor.
DAVID W. E. BAIRD, M.D., LL.D., Dean of the Medical School; Professor of Medicine.
CHARLES N. HOLMAN, M.D., Associate Dean of the Medical School; Professor of Medicine.
WILLIAM A. ZIMMERMAN, B.S., Assistant to the Dean; Professor.
JOSEPH J. ADAMS, B.B.A., Assistant to the Dean; Director of Public Affairs; Assistant Professor.

Hospitals and Clinics Administration

DAVID W. E. BAIRD, M.D., Dean; Professor of Medicine.
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.
WILLIAM A. ZIMMERMAN, B.S., Assistant Administrator; Professor.
GWYNN C. BRICE, Administrative Assistant; Assistant Director of Outpatient Clinic; Assistant Professor.

Business Office

WILLIAM A. ZIMMERMAN, B.S., Business Manager; Professor.
AMBY FREDERICK, B.S., Assistant Business Manager; Associate Professor.
RODNEY T. JEFFREY, B.A., Personnel Officer.

Registrar's Office

CAROLINE H. POMMARANE, B.S., Registrar; Assistant Professor.

Student Activities

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

Library

BERTHA BRANDON HALLAM, B.A., Librarian; Professor.
ORA KIRSHNER GOODMAN, B.S., Catalog Librarian; Assistant Professor.
MARGARET ELIZABETH HUGHES, B.S., Circulation Librarian; Assistant Professor.
LOLITA B. McELVENEY, Assistant Circulation Librarian; Instructor.
MARGIE K. WAGNER, B.S., Assistant Circulation Librarian; Instructor.

Buildings and Grounds

A. J. CLEMONS, Superintendent of Physical Plant; Assistant Professor.
CHARLES H. ANDERSON, Assistant Superintendent of Physical Plant.
OFFICERS OF ADMINISTRATION

Postgraduate Education
CHARLES N. HOLMAN, M.D., Director; Professor of Medicine.
GWYNN C. BRICE, Administrative Assistant; Assistant Professor.

Alumni Office
JOSEPH J. ADAMS, B.B.A., Executive Secretary; Assistant 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.

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

Medical Illustration
CLARICE ASHWORTH FRANCONE, Medical Illustrator.

Photography
JAMES T. PHILLIPS, Photographer.

Printing
ALBERT L. BICEJ, Printer.

Executive Faculty

Standing Committees
Graduate Council—JOHN M. BROOKHART (chairman), ROBERT L. BACON, JOSEPH D. MATARAZZO, EVELYN L. OGINSKY, ELTON L. MCCAWLEY, JOHN T. VAN BRUGGEN, ADOLPH WEINZIRL.
Henry Waldo Coe Prize—HANCE F. HANEY (chairman), CLARENCE V. HODGES.
Jones Lectureship—HOWARD P. LEWIS (chairman), HANCE F. HANEY.
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), BENJAMIN B. ROSS, ROY L. SWANK, JOHN T. VAN BRUGGEN.


Scholarships—Edward S. West (chairman), Raymond D. Grondahl, Clarence V. Hodges, 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.


Emeritus Faculty

Noble Wiley Jones, M.D., Professor Emeritus of Medicine.

William K. Livingston, M.D., Professor Emeritus of Surgery.

Frank R. Menne, M.D., Professor Emeritus of Pathology.

Merle W. Moore, M.D., Associate Professor Emeritus of Medicine.

Eugene W. Rockey, M.D., Professor Emeritus of Surgery.

James W. Rosenfeld, M.D., Professor Emeritus of Pediatrics.

Harry J. Sears, Ph.D., Professor Emeritus of Bacteriology.

Laurence Selling, M.D., Professor Emeritus of Medicine.

Faculty*

John F. Adele, M.D., Assistant Clinical Professor of Orthopedic Surgery (1946).


John C. Adams, M.D., Clinical Professor of Surgery (1932).

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

Joseph J. Adams, B.B.A., Assistant to the Dean; Director of Public Affairs; Alumni Executive Secretary (Assistant Professor) (1951).

B.B.A. (1949), Gonzaga.

H. Victor Adix, M.D., Clinical Associate in Otolaryngology (1934).


Clifford V. Allen, M.D., Clinical Professor of Radiotherapy (1955).

M.D. (1933), Iowa.

James S. Arnold, M.D., Clinical Associate in Pathology (1961).

B.S., M.D., (1948), Duke.

Carl G. Ashley, M.D., Assistant Clinical Professor of Pediatrics (1936).


Kurt W. Aumann, M.D., Clinical Associate in Medicine (1948).


George M. Austin, M.D., Professor of Neurosurgery; Head of Division (1957).


*The year in parentheses following the name of each faculty member indicates the date of original appointment to the faculty.
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., Assistant Professor of Medicine (1956).
B.A. (1949), Reed; M.S., M.D., (1952), Oregon.

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

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

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

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

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

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

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

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

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

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

B.A. (1953), Willamette; M.D. (1956), Oregon.

G. DONALD BEARDSLEY, M.D., Clinical Instructor in Urology (1954).

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).

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

ROBERT H. BEDROSSIAN, M.D., Clinical Instructor in Ophthalmology (1959).

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

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

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

RALPH C. BENSON, M.D., Professor of Obstetrics and Gynecology; Chairman of Department (1956).
B.A. (1935), Lehigh University; M.D. (1936), Johns Hopkins.
MEDICAL SCHOOL

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).

ARTHUR W. BERG, M.D., Clinical Associate in Medicine (1953).

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

EDMUND H. BERGER, M.D., Clinical Associate in Medicine (1934).
A.B., B.S. (1923), Linfield; M.D. (1929), Oregon; M.S. (1933), Minnesota.

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

STANLEY F. BERGQUIST, M.D., Clinical Instructor in Surgery (1956).

SIGFRIED R. BERTHELSDORF, M.D., Clinical Instructor in Psychiatry (1957).

ADALBERT G. BETTMAN, M.D., Clinical Associate in Surgery (1932).
M.D. (1907), Oregon.

ROBERT H. BIGLEY, M.D., Instructor in Medicine (1960).
B.S. (1951), University of Washington; M.D. (1953), Oregon.

MARCIA K. BILLMAO, M.D., Instructor in Radiology (1961).
B.S. (1952), Minnesota; M.D. (1957), Columbia.

JOSEPH B. BILDERBACK, M.D., Clinical Professor of Pediatrics (1911).
M.D. (1905), Oregon.

DANIEL K. BILLMEYER, M.D., Clinical Instructor in Pediatrics (1956).
B.S. (1943), M.D. (1946), Chicago.

THEODORE M. BISCHOFF, M.D., Clinical Instructor in Obstetrics and Gynecology (1948).
B.A. (1937), Reed; M.D. (1939), Oregon.

HARRY C. BLAIR, M.D., Clinical Professor of Orthopedic Surgery (1926).
M.D. (1915), Oregon.

PAUL H. BLANCHET, M.D., Assistant Professor of Psychiatry (1961).
B.A. (1950), Reed; M.S., M.D. (1955), Oregon.

ROBERT W. BLAKEYLE, Ph.D., Instructor in Speech Pathology and Hearing (1959).

JOHN A. BLANCHARD, M.D., Clinical Instructor in Medicine (1954).
B.S. (1941), Montana State College; M.D. (1950), Oregon.

Roderick C. BIRCEHERFORD, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1938).
A.B. (1927), Willamette; M.D. (1933), Oregon.

ROSE MARY BOCES, M.S., Instructor in Biochemistry (1957).
B.S. (1946), Maryhurst; M.S. (1954), Oregon.

DARELL C. BOLLAM, M.D., Clinical Associate in Surgery (1937).
B.S. (1927), M.D. (1928), Oregon.

RICHARD N. BOLTON, M.D., Clinical Instructor in Obstetrics and Gynecology (1961).
B.S. (1951), Willamette; M.D. (1955), Oregon.
FACULTY

WILBUR M. BOLTON, M.D., Assistant Clinical Professor of Otolaryngology (1929).
A.B. (1923), M.D. (1926), Oregon.

ALLEN M. BOYDEN, M.D., Associate Clinical Professor of Surgery (1946).

THOMAS J. BOYDEN, M.D., Clinical Instructor in Orthopedic Surgery (1953).

B.S. (1948), Lewis and Clark College.

GEORGE A. BOYLSTON, M.D., Assistant Clinical Professor of Medicine (1946).

CHARLES BRADLEY, M.D., Associate Clinical Professor of Child Psychiatry (1948).
B.S. (1925), Cornell; M.D. (1929), Harvard.

JOHN O. BRANFORD, M.D., Clinical Instructor in Anesthesiology (1959).
B.A. (1936), Concordia; M.D. (1946), Oregon.

MELVIN W. BREESE, M.D., Clinical Instructor in Obstetrics and Gynecology (1948).
B.S. (1936), Oregon State; M.D. (1943), Oregon.

GWYNN C. BRICE, Administrative Assistant; Assistant Director of Outpatient Clinic (Assistant Professor) (1946).

MORRIS L. BRIDGEMAN, M.D., Associate Clinical Professor of Pediatrics (1927).
Ph.D. (1916), Montana State University; M.D. (1924), Oregon.

ISIDOR C. BRILL, Associate Clinical Professor of Medicine (1916).
B.A. (1912), M.D. (1914), Columbia.

DONALD M. BRINTON, M.D., Clinical Instructor in Anesthesiology (1959).

*JOHN DAVID BRISTOW, M.D., Clinical Instructor in Medicine (1960).
B.A. (1949), Willamette; M.D. (1953), Oregon.

B.S. (1948), California.

JOHN M. BROOKHART, Ph.D., Professor of Physiology; Chairman of Department (1949).

D.D.S. (1944), Maryland; M.S. (1948), Western Reserve.

ROBERT E. BUCKMASTER, M.D., Clinical Instructor in Orthopedic Surgery (1953).
B.S. (1941), Hartwick; M.D. (1944), New York Medical.

PAUL R. BURGER, M.D., Clinical Associate in Medicine (1956).

ROBERT P. BURNS, M.D., Associate Professor of Ophthalmology (1959).
B.S. (1945), University of Portland; M.D. (1947), Oregon.

WILLIAM Y. BURTON, M.D., Associate Clinical Professor of Radiology (1940).
A.B. (1931), B.S. (1933), Missouri; M.D. (1936), Washington University.

JOHN W. BUSSMAN, M.D., Clinical Instructor in Pediatrics (1954).

BRUCE V. BUTLER, Ph.D., Instructor in Medical Psychology (1960).

JOHN L. BUTLER, M.D., Assistant Professor of Psychiatry (1958).
B.S. (1942), Idaho; M.D. (1946), Johns Hopkins.

* On leave of absence for Senior Fellowship, Cardiovascular Institute, University of California Medical School, San Francisco, Calif.
RICHARD B. BYRD, M.D., Clinical Instructor in Medicine (1960).

NATHAN J. CAMPBELL, M.D., Clinical Instructor in Surgery (1950).
M.D. (1949), Temple.

PAUL CAMPBELL, M.D., Clinical Instructor in Orthopedic Surgery (1956).

JAMES F. CARLIN, M.D., Assistant Clinical Professor of Psychiatry (1960).
M.D. (1952), Western Reserve.

C. ELMER CARLSON, M.D., Clinical Professor of Orthopedic Surgery (1925).
A.B. (1917), Reed; M.D. (1920), Oregon.

C. CONRAD CARTER, M.D., Clinical Associate in Medicine (1956).
B.A. (1946), Reed; M.D. (1948), Oregon.

RAYMOND A. CASE, Jr., M.D., Clinical Instructor in Orthopedic Surgery (1959).
M.D. (1947), Hahnemann.

LEROY S. CASPERSEN, M.D., Clinical Instructor in Obstetrics and Gynecology (1960).
B.A., (1952), Reed; M.D. (1956), Oregon.

CHARLES E. CATLOW, M.D., Clinical Instructor in Urology (1949).
B.S. (1943), University of Portland; M.D. (1944), Oregon.

GEORGE E. CHAMBERLAIN, M.D., Clinical Professor in Otolaryngology (1947).

JOHN D. CHASE, M.D., Clinical Instructor in Medicine (1956).
B.A. (1942), Wabash; M.D. (1945), Western Reserve.

ESTHER L. CHAVIGNY, M.D., Clinical Instructor in Obstetrics and Gynecology (1956).
B.S. (1933), B.E. (1934), Tulane; M.D. (1951), Louisiana State.

BRUCE R. CHENOWETH, M.D., Clinical Instructor in Dermatology (1956).

HOWARD L. CHERRY, M.D., Clinical Instructor in Orthopedic Surgery (1950).
M.D. (1943), Oregon.

LEONARD CHRISTENSEN, M.D., Associate Professor of Ophthalmology (1950).

E. GEORGE CHUTINARD, M.D., Associate Clinical Professor of Orthopedic Surgery (1938).
B.A. (1926), Puget Sound; M.D. (1934), Oregon.

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B.A. (1929), Albion; M.D. (1934), University of Chicago.

WILLIAM M. CLARK, Jr., M.D., Associate Professor of Pediatrics (1954).
B.A. (1946), Baker; M.D. (1949), University of Chicago.

WINFRED H. CLARKE, M.D., Clinical Instructor in Orthopedic Surgery (1957).
B.S., M.B., M.D. (1941), Minnesota.

JOHN G. P. CLELAND, M.D., Clinical Associate in Surgery (1948).
M.D., C.M. (1924), M.S. (1926), McGill.

A. J. CLEMONS, Superintendent of Physical Plant (Assistant Professor) (1950).

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B.S. (1929), Oregon State; M.D. (1934), Oregon.
QUENTIN W. COCHRAN, M.D., Assistant Clinical Professor of Pediatrics (1951).
B.A. (1940), Reed; M.D. (1943), Oregon.

TERENCE H. COCHRAN, M.D., Assistant Clinical Professor of Pathology (1960).
B.S. (1939), Oregon State; M.D. (1941), Oregon.

CHARLES W. COFFEN, M.D., Clinical Associate in Medicine (1941).
B.S. (1932), Stanford; M.D. (1936), Johns Hopkins.

LAWRENCE J. COHEN, M.D., Clinical Instructor in Orthopedic Surgery (1950).
B.S. (1930), M.D. (1934), Maryland.

WILLIAM COHEN, M.D., Clinical Associate in Medicine (1946).
B.A. (1931), Reed; M.D. (1935), Oregon.

EMERSON J. COLLIER, M.D., Clinical Instructor in Urology (1956).
B.S. (1941), Alaska; M.D. (1944), Oregon.

HUGH DONALD COLVER, M.D., Clinical Instructor in Surgery (1950).
B.A. (1940), College of Idaho; M.D. (1943), Oregon.

WILLIAM S. CONKLIN, M.D., Associate Clinical Professor of Surgery (1943).
A.B. (1931), Dartmouth; M.D. (1934), Pennsylvania.

ROBERT R. COOPER, M.D., Clinical Instructor in Otolaryngology (1961).

GEORGE W. COTTRELL, M.D., Clinical Associate in Orthopedic Surgery (1949).

ROBERT C. COWGER, M.D., Clinical Instructor in Ophthalmology (1959).
M.D. (1944), Nebraska.

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

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B.S.M., M.D. (1937), Creighton.

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B.S. (1941), Idaho; M.D. (1949), Utah.

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GEORGE W. DANA, M.D., Associate Professor of Pediatrics (1951).
A.B. (1940), M.D. (1943), Harvard.

B.A. (1938), University of Washington; M.S.S. (1948), University of Chicago.

NORMAN A. DAVID, M.D., Professor of Pharmacology; Chairman of Department (1937).
A.B. (1925), M.D. (1931), California.

AUBREY M. DAVIS, M.D., Assistant Clinical Professor of Medicine (1934).
B.A. (1927), Stanford; M.D. (1929), Oregon.

EDWARD W. DAVIS, M.D., Clinical Associate in Neurosurgery (1948).

HAROLD E. DAVIS, M.D., Assistant Clinical Professor of Orthopedic Surgery (1946).
B.A. (1936), M.D. (1940), Oregon.

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

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A.B. (1926), Reed; M.D. (1931), Oregon.

Conrad A. DeLateur, M.D., Clinical Instructor in Dermatology (1961).
B.S. (1936), Oregon State; M.D. (1940), Oregon.

John P. Dennis, M.D., Clinical Instructor in Neurosurgery (1959).

David D. Dewese, M.D., Professor of Otolaryngology; Chairman of Department (1944).

Peter DeWitt, M.D., Clinical Instructor in Surgery (1955).
B.A. (1939), Union; M.D. (1943), Cornell.

Arch W. Diack, M.D., Clinical Associate in Surgery (1937).
A.B. (1929), Dartmouth; M.D. (1933), Michigan.

Samuel L. Diack, M.D., Clinical Instructor in Medicine (1933).
M.D. (1930), Michigan.

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A.B. (1941), Pennsylvania; M.D. (1944), Jefferson.

Herman A. Dickel, M.D., Associate Clinical Professor of Psychiatry (1942).
B.A. (1933), Montana State University; M.B. (1937), M.D. (1938), Northwestern.

Estill N. Dietz, M.D., Clinical Instructor in Medicine (1957).
M.D. (1946), Long Island College of Medicine.

Marlow Dittbrandt, M.D., Assistant Clinical Professor of Clinical Pathology (1948).

Henry H. Dixon, M.D., Clinical Professor of Psychiatry (1932).
M.D. (1928), Washington University.


Donald P. Dobson, M.D., Clinical Instructor in Anesthesiology (1957).
M.D. (1950), Boston University.

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M.D. (1953), Chicago.

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B.S. (1937), Oregon State.

Charles T. Dotter, M.D., Professor of Radiology; Chairman of Department (1952).
B.A. (1941), Duke; M.D. (1944), Cornell.

Robert S. Dow, M.D., Associate Clinical Professor of Neurology (1939).

Hilda E. Drum, Assistant Professor of Radiological Technique (1954).

J. Englebert Dunphy, M.D., Kenneth A. J. Mackenzie Professor of Surgery; Chairman of Department (1959).
B.A. (1929), Holy Cross; M.D. (1933), Harvard.

Raphael B. Durfee, M.D., Associate Professor of Obstetrics and Gynecology (1957).
B.A. (1939), M.D. (1944), Stanford.

Clyde H. DuVall, Jr., M.D., Clinical Instructor in Ophthalmology.

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B.A. (1941), Rochester; M.D. (1950), Syracuse.
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WILLIAM S. FLETCHER, M.D., Instructor in Surgery (1960).

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B.S. (1937), University of Washington; M.D. (1943), Oregon.


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B.S. (1932), Oregon State.

KATHERINE S. FRENCH, Ph.D., Instructor in Anthropology in Pediatrics (1959).
B.A. (1942), Pomona; Ph.D. (1955), Columbia.

ARTHUR W. FRISCH, M.D., Professor of Bacteriology; Chairman of Department (1946).

DAVID C. FRISCH, M.D., Clinical Instructor in Dermatology (1952).

LOUIS H. FRISCHE, M.D., Associate Clinical Professor of Radiology (1953).
M.D. (1949), Harvard.

ROBERT J. FRY, M.D., Clinical Instructor in Orthopedic Surgery (1958).
B.A. (1947), Michigan; M.D. (1952), Temple.

TOSHIO FUJIKURA, M.D., Instructor in Pathology and Obstetrics and Gynecology (1960).
M.D. (1950), Keio Gijuku University School of Medicine, Shinano-machi, Shinju-ku, Tokyo, Japan.

MALCOLM E. FULLER, M.D., Clinical Instructor in Obstetrics and Gynecology (1959).
B.S. (1942), Florida; M.D. (1951), Oregon.

REMY W. FULSHER, M.D., Clinical Instructor in Obstetrics and Gynecology (1955).
M.D. (1950), Ohio State.

PETER J. GALANTE, M.D., Associate in Medicine (1955).
B.A. (1928), Cornell; M.D. (1933), Royal University of Turin (Italy).

WILLIAM P. GALEN, M.D., Assistant Clinical Professor of Medicine (1953).

CALVIN E. GANTENBEIN, M.D., Clinical Instructor in Orthopedic Surgery (1950).

J. SCOTT GARDNER, M.D., Associate Clinical Professor of Urology (1945).
B.A. (1935), Utah; M.D. (1939), Cornell.

WILLIAM M. GARNJOBST, M.D., Clinical Associate in Surgery (1955).
B.A. (1943), Oregon State; M.D. (1943), Oregon.

KENNETH D. GAVER, M.D., Assistant Clinical Professor of Psychiatry (1957).
B.A. (1946), California; M.D. (1948), Tennessee.

JOSEPH H. GILL, M.D., Clinical Associate in Orthopedic Surgery (1949).
B.A. (1940), Reed; M.D. (1943), Oregon.

LEONARD M. GOLDBERG, M.D., Clinical Instructor in Medicine (1959).
B.A. (1951), Reed; M.D. (1955), Oregon.

MORTON J. GOODMAN, M.D., Assistant Clinical Professor of Medicine (1935).
ORA K. GOODMAN, B.S., Catalog Librarian (Assistant Professor) (1945).
B.S. (1927), University of Washington.

SCOTT GOODNIGHT, M.D., Associate Clinical Professor of Pediatrics (1940).
B.A. (1930), Wisconsin; M.D. (1932), Oregon.

WALTER A. GOS, M.D., Assistant Clinical Professor of Pediatrics (1946).
B.S. (1933), Oregon State; M.D. (1937), Oregon.

JARVIS GOULD, M.D., Associate Professor of Medicine; Assistant Medical Director
and Assistant Administrator of Hospitals and Clinics (1948).
B.A. (1939), M.D. (1941), Oregon.

ROBERT B. GREENE, M.D., Clinical Instructor in Obstetrics and Gynecology
(1949).

ROBERT B. GREENE, Jr., M.D., Clinical Instructor in Urology (1959).
B.A. (1948), Reed; M.D. (1952), Oregon.

MONTE A. GREEN, M.D., Associate Professor of Medicine; Head of Division of Endocrinology (1956).

RAY V. GREWE, M.D., Clinical Instructor in Neurosurgery (1958).
B.S. (1945), University of Washington; M.D. (1947), Oregon.

HERBERT E. GRISWOLD, M.D., Professor of Medicine; Head of Division of Cardiovascular Renal Diseases (1949).
B.A. (1939), Reed; M.S., M.D. (1943), Oregon.

RAYMOND D. GRONDAHL, M.D., Professor of Clinical Pathology; Chairman of Department (1945).
B.S. (1939), Washington State; M.S., M.D. (1944), Oregon.


MYRON R. GROVER, Jr., M.D., Assistant Professor of Medicine; Assistant Medical Director of Hospitals and Clinics (1958).

JOHN M. GROSS, M.D., Clinical Associate in Surgery (1943).

DAVID L. GUNBERG, Ph.D., Associate Professor of Anatomy (1955).

RUSSELL G. GUSTAVSON, M.D., Clinical Associate in Surgery (1957).
B.A. (1950), M.D. (1952), Nebraska.

BERTHA B. HALLAM, B.A., Librarian (Professor) (1929).
B.A. (1931), Oregon.

MARTHA L. HAMILTON, M.D., Assistant Professor of Clinical Pathology (1957).
B.S. (1945), Texas Wesleyan; M.D. (1952), Texas.

JOHN R. HAN, M.D., Clinical Professor of Urology (1932).
B.S. (1921), B.M. (1923), M.D. (1924), M.S. (1936), Minnesota.

HANCE F. HANSON, M.D., Professor of Medicine; Chief Department of Medicine Outpatient Professional Services (1936).

F. SYDNEY HANSEN, M.D., Clinical Instructor in Public Health and Preventive Medicine (1947).
JOHN R. HANSEN, M.D., Clinical Instructor in Pediatrics (1950).
B.S. (1939), University of Washington; M.D. (1946), Oregon.

ROBERT M. HANSEN, M.D., Clinical Professor of Otolaryngology (1948).
B.S. (1935), Nevada; M.D. (1939), Baylor.

GEORGE S. HARA, M.D., Clinical Instructor in Obstetrics and Gynecology (1957).

JAMES V. HARBER, M.D., Clinical Instructor in Anesthesiology (1959).

JOHN HARDER, M.D., Clinical Instructor in Orthopedic Surgery (1959).
B.A. (1945), Whitman; M.D. (1949), Oregon.

CLIFFORD E. HARDWICK, M.D., Associate Clinical Professor of Surgery (1947).
B.S., M.D. (1929), Oregon.

ROBERT L. HARE, M.D., Clinical Instructor in Medicine (1956).

BERNARD P. HARPOLE, M.D., Clinical Instructor in Surgery (1949).
B.S. (1935), M.D. (1939), St. Louis.

HOMER H. HARRIS, M.D., Associate Clinical Professor of Clinical Pathology (1951).
B.A. (1942), Reed; M.D. (1945), Oregon.

JOSEPH T. HART, M.D., Clinical Instructor in Pediatrics (1950).
B.S.M. (1941), M.D. (1942), Creighton.

WILLIAM L. HARTMANN, M.D., Clinical Instructor in Obstetrics and Gynecology (1954).
B.S. (1935), Harvard; M.D. (1939), Johns Hopkins.

FREDERICK P. HAUGEN, M.D., Professor of Anesthesiology; Head of Division (1948).

GERHARD B. HAUGEN, M.D., Assistant Clinical Professor of Psychiatry (1937).

JAMES B. HAWORTH, M.D., Associate Professor of Radiology (1953).
B.S. (1933), M.D. (1935), Oregon.

JOHN F. HAYES, M.D., Clinical Instructor in Surgery (1955).

THOMAS S. HEALY, M.D., Clinical Associate in Medicine (1951).
B.A. (1940), M.D. (1942), Oregon.

PHILIP H. HENDERSON, JR., M.D., Clinical Instructor in Obstetrics and Gynecology (1954).
B.S. (1945), University of Washington; M.D. (1948), Oregon.


WILLIAM W. HICKS, JR., M.D., Clinical Instructor in Obstetrics and Gynecology (1958).
M.D. (1953), Jefferson Medical College; B.S. (1954), University of Washington.

ROBERT B. HIGGINS, M.D., Assistant Clinical Professor of Urology (1960).
A.B. (1941), M.D. (1944), Harvard.

ALLAN J. HILL, JR., M.D., Professor of Pediatrics (1950).
B.S. (1937), M.B. (1939), M.D. (1940), Minnesota.
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ROBERT V. HILL, M.D., Assistant Clinical Professor of Ophthalmology (1948).

VINCENT C. HINCK, M.D., Associate Professor of Radiology (1957).
A.B. (1948), Cornell; M.D. (1953), New York Medical College.

CLARENCE V. HODGES, M.D., Professor of Urology; Head of Division (1948).
B.S. (1937), Iowa State; M.D. (1940), University of Chicago.

BLAIR HOLCOMB, M.D., Clinical Professor of Medicine (1922).
M.D. (1919), Rush.

DONALD H. HOLDEN, M.D., Clinical Instructor in Otolaryngology (1953).
A.B. (1941), Brown; M.D. (1944), Yale.

CHARLES N. HOLMAN, M.D., Professor of Medicine; Associate Dean of Medical School; Medical Director and Administrator of Hospitals and Clinics (1940).

RICHARD J. HOPKINS, M.D., Clinical Associate in Orthopedic Surgery (1950).
B.S. (1943), Idaho; M.D. (1944), Oregon.

MARCUS M. HORENSTEIN, M.D., Clinical Associate in Medicine (1947).
B.A. (1937), M.D. (1941), Oregon.

IRVING J. HOROWITZ, M.D., Clinical Instructor in Radiology (1959).

SABERT A. HOYT, M.D., Clinical Instructor in Urology (1951).

MARTIN A. HOWARD, M.D., Assistant Clinical Professor of Surgery (1929).
B.S. (1923), M.D. (1926), Oregon.

JOHN L. HOWIESON, M.D., Clinical Instructor in Radiology (1960).

JAY C. HOYT, M.D., Clinical Associate in Medicine (1956).

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B.S. (1937), Minnesota.

ARTHUR F. HUNTER, M.D., Clinical Associate in Radiology (1946).
A.B. (1930), Denver; M.D. (1933), Colorado.

WARREN C. HUNTER, M.D., Clinical Professor of Pathology (1922).

PETER L. HURST, M.D., Clinical Instructor in Pediatrics (1956).

WILLIAM W. HURST, M.D., Clinical Associate in Medicine (1952).

TYRA T. HUTCHENS, M.D., Associate Professor of Clinical Pathology (1953).
B.S. (1943), M.D. (1945), Oregon.

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B.A. (1932), College of City of New York; M.S. (1933), New York University; M.D. (1937), Long Island.

SEIMA HYMAN, M.D., Associate Clinical Professor of Radiology (1944).
B.S. (1932), M.D. (1938), New York University.

TOSHIRO INAHARA, M.D., Clinical Instructor in Surgery (1956).

DAVID S. JACKSON, Ph.D., Associate Professor of Biochemistry (1959).
B.Sc. (1949), Ph.D. (1953), Manchester (England).
ROBERT C. JACKSON, M.D., Clinical Instructor in Obstetrics and Gynecology (1957).
B.S. (1944), M.D. (1947), Oregon.

STANLEY W. JACOB, M.D., Assistant Professor of Surgery (1959).

SHELTON A. JACOBSON, M.D., Associate Clinical Professor of Pathology (1950).
A.B. (1922), College of City of New York; M.D. (1928), Yale.

DAVID W. JAMES, M.D., Clinical Instructor in Obstetrics and Gynecology (1949).
B.S. (1930), Denison; M.D. (1933), Ohio State; M.S. (1940), Wayne.

D.D.S. (1939), Indiana.

ROBERT B. JOHNSON, M.D., Clinical Instructor in Medicine (1954).
M.D. (1948), Nebraska.

RODERICK L. JOHNSON, M.D., Clinical Instructor in Surgery (1960).
B.S. (1948), M.D. (1951), University of Washington.

RUSSELL L. JOHNSTON, M.D., Assistant Clinical Professor of Surgery (1936).
B.A. (1930), M.D. (1933), Oregon.

ARThUR C. JONES, M.D., Clinical Professor of Physical Medicine in Surgery (1929).
B.A. (1921), Pacific University; M.A. (1925), M.D. (1926), Oregon.

BENJAMIN B. JONES, M.D., Clinical Instructor in Obstetrics and Gynecology (1959).
B.S. (1950), Pittsburgh; M.D. (1953), Temple.

LESTER T. JONES, M.D., Clinical Professor of Otolaryngology (1924).
B.A. (1918), Pacific University; M.D. (1921), M.A. (1923), Oregon.

MAXWELL S. JONES, M.D., Clinical Professor of Psychiatry (1960).

NOBLE WILEY JONES, M.D., Professor Emeritus of Medicine (1910).
M.D. (1901), Rush.

ORVILLE N. JONES, M.D., Clinical Associate in Orthopedic Surgery (1947).
B.A. (1931), Reed; M.D., C.M. (1937), McGill.

RICHARD T. JONES, M.D., Assistant Professor of Biochemistry and Experimental Medicine (1961).

LEWIS W. JORDAN, M.D., Assistant Clinical Professor of Otolaryngology (1936).

HULDRICK KAMMER, M.D., Assistant Clinical Professor of Medicine (1949).
B.A. (1936), Wisconsin; B.M. (1940), M.D. (1941), Northwestern.

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M.D. (1943), Marquette.

JOHN O. KANGAS, Ph.D., Assistant Professor of Medical Psychology (1960).

REINHOLD KANZLER, M.D., Clinical Instructor in Surgery (1958).

JOHN P. KEIZER, M.D., Assistant Clinical Professor of Ophthalmology (1953).

DONALD F. KELLY, M.D., Clinical Instructor of Pediatrics (1959).
B.S. (1949), University of Portland; M.D. (1954), Oregon.
ROBERT W. KENDALL, M.D., Clinical Instructor in Surgery (1960).
B.S. (1949), Colorado College; M.D. (1953), Oregon.

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B.S. (1921), University of Washington; M.D. (1929), Oregon.

CALVIN H. KIEST, Jr., M.D., Clinical Instructor in Orthopedic Surgery (1960).

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B.S. (1949), Yale; M.D. (1953), New York University.

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B.S. (1912), M.D. (1916), Michigan.

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B.A. (1933), M.D. (1936), Oregon.

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B.S. (1936), M.D. (1938), Wisconsin.

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WILLIAM M. LAIDLAW, M.D., Clinical Instructor in Medicine (1959).
DONALD R. LAIRD, M.D., Assistant Clinical Professor of Surgery (1939).
A.B. (1928), Grinnell; M.S. (1933), M.D. (1934), Rush; M.S. (1938), Minnesota.

EUGENE W. LANDRETH, M.D., Assistant Clinical Professor of Clinical Pathology
(1957).

LAURENCE R. LANGSTON, M.D., Clinical Associate in Orthopedic Surgery (1956).

JOHN A. LARRAPEE, M.D., Assistant Clinical Professor of Pediatrics (1948).
B.A. (1938), Nebraska; M.D. (1942), University of Chicago.

JOHN F. LARSELL, M.D., Clinical Associate in Urology (1949).
B.A. (1939), Oregon State; M.D. (1943), Oregon.

L. WILLIAM LARSON, M.D., Clinical Instructor in Medicine (1959).
B.S. (1949), M.D. (1951), Minnesota.

WILBUR L. E. LARSON, M.D., Clinical Associate in Medicine (1950).
B.A. (1941), M.D. (1945), Oregon.

GERALD J. LATTIG, M.D., Assistant Professor of Clinical Pathology (1958).
B.S. (1944), Idaho; M.D. (1949), Oregon.

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B.A. (1939), Reed; M.D. (1943), Oregon.

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B.A. (1944), Willamette; M.D. (1946), Oregon.

THEODORE H. LEHMAN, M.D., Clinical Associate in Urology (1958).

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B.S. (1957), University of Washington; M.P.H. (1959), North Carolina.

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B.S. (1924), Oregon State; M.D. (1930), Oregon.

HEROLD S. LILLYWHITE, Ph.D., Associate Professor of Speech Pathology (1957).
B.S. (1932), Utah State Agriculture; M.A. (1939), Minnesota; Ph.D. (1943), New
York University.

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B.S. (1936), M.S., M.D. (1942), Oregon.

VERNER V. LINDGREN, M.D., Clinical Instructor in Surgery (1950).

B.S. (1946), South Dakota; M.D. (1947), Louisville.

LOUIS LINO, Ph.D., Associate in Neurology (1958).
Ph.D. (1935), Faculty of Natural Sciences, Pisa, Italy.

CHARLES E. LITTLEHALES, M.D., Clinical Associate in Medicine (1939).

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B.S. (1944), M.D. (1946), Oregon.

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B.A. (1936), Stanford; M.D. (1939), Harvard.

WILLIAM K. LIVINGSTON, M.D., Professor Emeritus of Surgery (1925).
ERNEST T. LIVINGSTONE, M.D., Assistant Clinical Professor of Medicine (1955).  
B.A. (1949), Reed; M.S., M.D. (1951), Oregon.

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B.A. (1943), University of Washington; M.D. (1950), Louisville.

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B.S. (1939), B.M. (1940), M.D. (1941), Cincinnati.

LENIER ARTHUR LOOMELL, M.D., Clinical Associate in Medicine (1946).  
B.S. (1931), North Dakota; B.M. (1933), M.D. (1934), Northwestern.

GEORGE B. LONG, M.D., Associate Clinical Professor of Medicine; Senior Consultant in Gastroenterology (1943).  
B.A. (1934), Montana State University; M.D. (1939), Northwestern.

JOHN WAYNE LOOMIS, M.D., Assistant Clinical Professor of Radiology (1951).  
B.A. (1940), Reed; M.D. (1943), Oregon.

ERNEST J. LOSLI, M.D., Clinical Associate in Pathology (1952).  
B.A. (1925), M.D. (1928), Oregon.

LAWRENCE M. LOWELL, M.D., Assistant Clinical Professor of Surgery (1950).  
B.S. (1933), Washington State; M.D. (1936), Oregon.

LEO S. LUCAS, M.D., Clinical Professor of Orthopedic Surgery; Senior Consultant (1924).  
B.A. (1919), Pacific University; M.D. (1923), Oregon.

GEORGE P. LYMAN, M.D., Clinical Associate in Ophthalmology (1954).  
B.A. (1926), Pomona; M.D. (1931), Yale.

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B.A. (1938), Hamilton; M.D. (1942), New York University.

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B.A. (1949), Stanford; M.D. (1953), Oregon; M.S. (1959), Minnesota.

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B.A. (1949), Williams; M.D. (1953), Columbia.

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B.S. (1929), Grand Island; M.D. (1931), Nebraska.

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DONALD P. MCGREEVEY, M.D., Clinical Instructor in Medicine (1955).  
B.S. (1954), Carroll; M.D. (1951), Loyola.

DONALD MCKINLEY, M.D., Clinical Instructor in Psychiatry (1958).  
B.A. (1940), Reed; M.D. (1942), Oregon.

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B.S. (1929), University of Chicago; M.D. (1934), Rush.

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B.S. (1941), University of Washington; M.D. (1944), Oregon.

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M.D. (1948), Long Island.

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B.A. (1932), Ripon; M.D. (1937), Wisconsin.
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CURTIS A. MACFARLANE, M.D., Clinical Instructor in Urology (1958).

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B.S. (1950), University of Portland; M.D. (1953), Creighton.

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A.B. (1920), M.D. (1923), Oregon.

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B.A. (1944), Willamette; M.D. (1946), Oregon.

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HARRY W. MASENHIMER, JR., M.D., Clinical Instructor in Medicine (1960).

HOWARD S. MASON, Ph.D., Associate Professor of Biochemistry (1952).
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B.S. (1940), M.D. (1942), Creighton.

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B.S. (1941), Oregon State; M.D. (1944), Johns Hopkins.

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

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B.S. (1913), Wisconsin; M.D. (1915), Rush.

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THOMAS R. MONTGOMERY, M.D., Associate Clinical Professor of Urology (1939).

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M.D. (1947), Western Reserve.

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B.S. (1920), Oregon; M.D. (1924), Jefferson.

B.A. (1951), Reed; M.D. (1953), Oregon.

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B.A. (1951); M.D. (1955), Oregon.

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B.S. (1940), M.D. (1941), Washington University.

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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.

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JOHN J. MURPHY, M.D., Clinical Associate in Medicine (1948).
B.A. (1938), Carroll College; M.D. (1942), Michigan.

PAUL B. MYERS, M.D., Clinical Associate in Otolaryngology (1950).
B.A. (1944), Oregon State; M.D. (1946), Oregon.

JOSEPH V. NADAL, M.D., Assistant Clinical Professor of Surgery (1944).
A.B. (1932), Drury; M.D. (1937), Harvard; M.S. (1941), Michigan.

GEORGE A. NASH, M.D., Clinical Instructor in Pediatrics (1954).

DUNCAN R. NEILSON, M.D., Assistant 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.

HARRY NEWMAN, M.D., Clinical Instructor in Radiology (1959).
B.S. (1952), University of Portland; M.D. (1954), Oregon.

GREGORY B. NICHOLS, M.D., Clinical Instructor in Radiology (1950).
M.D. (1943), Creighton.

H. MINOR NICHOLS, M.D., Clinical Instructor in Surgery (1940).
Ph.B. (1930), Yale; M.D. (1934), Oregon; M.S. (1937), Pennsylvania.

NICHOLAS NICOLAIDES, Ph.D., Assistant Professor of Biochemistry (1960).
B.S. (1939), M.S. (1940), Case Institute of Technology; Ph.D. (1959), University of Chicago.

NELSON R. NILES, M.D., Associate Professor of Pathology (1952).
M.D. (1947), Cornell.

OLIVER M. NISBET, M.D., Associate Clinical Professor of Surgery (1926).
B.S. (1915), Idaho; M.D. (1919), Rush.

LAWRENCE NOALL, M.D., Associate Clinical Professor of Orthopedic Surgery (1941).
B.A. (1931), B.M. (1934), Utah; M.D. (1936), Northwestern.

JOSEPH E. NOHLGREN, M.D., Assistant Clinical Professor of Pathology (1949).
B.S. (1935), South Dakota State; M.D. (1943), Oregon.

HAROLD J. NOYES, D.D.S., M.D., Clinical Professor of Dental Medicine; Head of Division (1946).
Ph.B. (1923), M.D. (1933), University of Chicago; B.S. (1928), D.D.S. (1928), Illinois.

JAMES E. ODELL, M.D., Assistant Professor of Pathology (1956).
B.A. (1944), M.D. (1947), Iowa.

EVELYN L. OGINSKY, Ph.D., Associate Professor of Bacteriology (1957).
B.A. (1938), Cornell; M.S. (1939), University of Chicago; Ph.D. (1946), Maryland.

JOHN D. O'HOLLAHREN, M.D., Clinical Instructor in Medicine (1959).

DONALD E. OLSON, M.D., Assistant Clinical Professor of Medicine (1955).
B.A. (1943), Reed; M.S., M.D. (1947), Ph.D. (1948), Oregon.
FACULTY

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).

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.

B.S. (1949), North Dakota; M.D. (1951), Northwestern.

ARTHUR L. OVREGAARD, M.D., Clinical Instructor in Radiology (1954).
B.A. (1944), College of Idaho; M.D. (1948), Oregon.

ALBERT A. OYAMA, M.D., Clinical Associate in Pathology (1959).
B.S. (1951), M.D. (1953), Oregon.

ABE OYAMADA, M.D., Associate Professor of Pathology (1954).
B.A. (1942), Reed; M.D. (1947), Oregon.

OTTO C. PAGE, M.D., Clinical Associate in Medicine (1952).
B.S. (1941), M.D. (1944), Boston University.

JOSEPH F. PAQUET, M.D., Clinical Associate in Medicine (1944).
M.D. (1940), Duke.

ALLEN H. PARKER, M.D., Clinical Instructor in Medical Psychology (1958).

C. RUSSELL PARKER, M.D., Clinical Instructor in Psychiatry (1957).
B.A. (1942), Reed; M.D. (1945), Cornell.

MAX H. PARROTT, M.D., Clinical Instructor in Obstetrics and Gynecology (1949).
B.S. (1938), Oregon State; M.D. (1940), Oregon; M.S. (1949), Michigan.

JOHN W. PARTRIDGE, M.D., Clinical Associate in Medicine (1957).
B.S. (1943), M.D. (1945), University of Chicago.

ROBERT W. PATTON, M.D., Clinical Instructor in Surgery (1951).
B.S. (1936), St. Martin's; M.D. (1942), Creighton.

DAVID P. PAULL, M.D., Clinical Instructor in Urology (1953).
B.A. (1942), Antioch; M.D. (1945), Western Reserve.


HAROLD D. PAXTON, M.D., Clinical Instructor in Neurosurgery (1956).
M.D. (1948), Johns Hopkins.

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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. PERRY, M.A., Assistant Professor of Biochemistry (1951).
B.A. (1927), Grinnell; M.A. (1929), Nebraska.

FRANK PERLMAN, M.D., Assistant Clinical Professor of Medicine; Head of Division of Allergy (1935).
B.S. (1931), M.D. (1933), Wisconsin.

CLARE G. PETERS, M.D., Professor of Surgery (1944).
EDWARD N. PETERSON, M.D., Instructor in Obstetrics and Gynecology (1961).

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).

ALEXANDER E. PETROFF, M.D., Clinical Instructor in Otolaryngology (1960).
B.S. (1949), Pacific University; M.S., M.D. (1953), Oregon.

CARL A. PETERSON, M.D., Clinical Instructor in Medicine (1957).
B.A. (1938), M.D. (1942), Kansas.

JEANNE S. PHILLIPS, Ph.D., Assistant Professor of Medical Psychology (1957).

DONALD E. PICKERING, M.D., Professor of Pediatrics; Acting Chairman of Department (1956).

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.

CHARLES T. PINNEY, M.D., Clinical Instructor in Medicine (1959).

BERNARD PIROFSKY, M.D., Assistant Professor of Medicine (1956).

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. PITTSINGER, M.D., Clinical Instructor in Medicine (1957).

CAROLINE H. POMMARANE, B.S., Registrar (Assistant Professor) (1943).
B.S. (1928), Nebraska.

JOHN KARL POPPE, M.D., Clinical Associate in Surgery (1946).
A.B. (1933), Hamilton; M.D. (1937), Rochester.


IRVING PUZISS, M.D., Clinical Instructor in Surgery (1956).

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).

ALFRED J. RAMPOSE, Ph.D., Assistant Professor of Physiology (1955).

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.

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LEON F. RAY, M.D., Associate Professor of Dermatology (1939).
Ph.C. (1930), North Pacific College of Pharmacy; B.S. (1931), Oregon State; M.D. (1933), 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.

WALTER C. REINER, M.D., Clinical Instructor in Surgery (1948).
B.S. (1930), Montana State University; M.D. (1934), College of Medical Evangelists.

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

D.D.S. (1947), Washington University; M.D. (1951), California.

MATTHEW C. RIDDLE, M.D., Associate Clinical Professor of Medicine (1930).
B.A. (1917), Reed; M.A. (1922), Oregon; M.D. (1926), Harvard.

DEMETRIOS A. RIGAS, Ph.D., Associate Professor of Biochemistry and Experimental Medicine (1953).
Ch.E. (1941), Ph.D. (1943), National University of Engineering Science (Athens, Greece).

JAMES A. RILEY, M.D., Clinical Instructor in Medicine (1949).
B.A. (1941), Oregon State; M.D. (1943), Oregon.

ROBERT E. RINEHART, M.D., Clinical Associate in Medicine (1953).
B.S. (1937), Oregon State; M.S., M.D. (1942), Oregon.

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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.

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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.

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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.

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M.D. (1947), Tennessee.

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A.B. (1939), New York University; M.D. (1943), Georgetown.
EDWARD E. ROSENBAUM, M.D., Assistant Clinical Professor of Medicine (1948).  
B.S. (1936), M.D. (1938), Nebraska; M.S. (1947), Minnesota.

MILLARD S. ROSENBLATT, M.D., Associate Clinical Professor of Surgery (1930).  
A.B. (1922), Stanford; M.D. (1925), Harvard.

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M.D. (1910), Johns Hopkins.

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B.S. (1949), Union; Ph.D. (1954), Rochester.

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A.B. (1947), Municipal University of Wichita; M.D. (1950), Kansas.

PETER P. ROWELL, M.D., Clinical Instructor in Ophthalmology (1959).  
B.S. (1947), Idaho; M.D. (1952), Washington University.

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A.B. (1936), M.D. (1940), Washington University.

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M.D. (1921), Oregon.

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M.D. (1950), Iowa.

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B.A. (1934), M.D. (1936), Oregon; M.S. (1945), Minnesota.

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Sc.B. (1926), Ph.D. (1931), New York University; M.D. (1940), Harvard.

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B.S. (1950), Seattle; M.D. (1953), St. Louis.

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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.

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B.S. (1942), Idaho; M.D. (1951), Oregon.

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Jean Caldwell, B.S., R.N., Head Nurse.
Shirley Franzen, R.N., Head Nurse.
Esther Henderson, R.N., Head Nurse.
Judith Hoffman, R.N., Head Nurse.
Carol McCallister, R.N., Head Nurse.
LeAnn Pogue, R.N., Head Nurse.
Jean Schirrofer, B.S., R.N., Head Nurse.
Bernice Setere, B.S., R.N., Head Nurse.
Joyce Vercellino, R.N., Head Nurse.
Beverly Ward, R.N., Head Nurse.
Dorothy Yoshitomi, B.S., R.N., Head Nurse.
Helen Colgan, Ph.G., Pharmacist.
Henry L. Doeneke, Chief Engineer.
David E. Anderson, Office Supervisor.
Ramona McAfee Bennett, B.S., R.N., Housekeeper.
Ruth Mercer, M.A., Dietitian, Clinical Instructor in Dietetics.

Tuberculosis Hospital

James T. Speros, M.D., Assistant Medical Director and Director of Outpatient Clinic.
Barbara Hiatt, M.S., R.N., Superintendent.
Elsa Swartz, R.N., Supervisor.
Jackelyn Prokopovich, R.N., Evening Supervisor.
Nellie Whipple, R.N., Night Supervisor.
HOSPITALS AND CLINICS

BEVERLY BRYAN, R.N., Head Nurse.
LUCILLE DORRIS, R.N., Head Nurse.
MARGARET RYAN, R.N., Head Nurse.
MADELYN HABIGER, B.S., Dietitian.
GRACE BLACK, O.T.R., Occupational Therapist.

Visiting Physicians' Service
R ANDALL F. WHITE, M.D., Multnomah County Physician.
C. W. COTTRELL, M.D., Physician.
HAROLD W. DOBBIN, M.D., Physician.
ANTON D. ELMER, M.D., Physician.
DONALD P. McGREEVEY, M.D., Physician.
WILLIAM R. OLSON, M.D., Physician.
HOWARD I. OSBORNE, M.D., Physician.

Crippled Children's Division
RICHARD L. SLEETE, M.D., Director.
VICTOR D. MENASHE, M.D., Assistant Director.
HEROLD S. LILLYWHITE, Ph.D., Speech and Hearing Consultant.
ROBERT W. BLAKELEY, Ph.D., Speech and Hearing Consultant.
HERBERT E. GRISWOLD, M.D., Cardiac Consultant.
WILLIAM E. SNELL, M.D., Orthopedic Consultant.
S. GORHAM BABSON, M.D., Associate Professor of Pediatrics.
DONALD M. PITCAIRN, M.D., Associate Professor of Medicine.
JOHN C. ROTH, M.D., Assistant Professor of Anesthesiology.
I. JOYCE SMALL, M.D., Assistant Professor of Psychiatry.
ALBERT STARR, M.D., Assistant Professor of Surgery.
LAURENCE R. LANGSTON, M.D., Clinical Associate in Orthopedic Surgery.
RICHARD M. ADAMS, D.M.D., Instructor in Dentistry.
J. DAVID BRISTOW, M.D., Instructor in Medicine.
HARRY L. SASLOW, Ph.D., Instructor in Medical Psychology.
NORTON B. YOUNG, Ph.D., Instructor in Audiology.
S. GORHAM BABSON, M.D., Associate Professor of Pediatrics.
WILLIAM M. CLARK, JR., M.D., Assistant Professor of Pediatrics.

Cerebral Palsy Project
(Collaborating Faculty Members)
RICHARD L. SLEETE, M.D., Professor of Pediatrics.
RUDOLF C. H. ENGEL, M.D., Associate Professor of Pediatrics.
RALPH C. BENSON, M.D., Professor of Obstetrics and Gynecology.
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., Assistant Professor of Pediatrics.
John O. Kangas, Ph.D., Assistant Professor of Medical Psychology.
Frank Shubeck, M.D., Assistant Professor of Obstetrics and Gynecology.
Bruce V. Butler, M.D., Instructor in Medical Psychology.
Katherine S. French, Ph.D., Instructor in Anthropology in Pediatrics.
Toshio Fujikura, M.D., Instructor in Pathology and Obstetrics and Gynecology.
William W. Ornduff, M.D., Instructor in Pediatrics.
Robert L. Tips, M.D., Instructor in Pediatrics.
C. Donald Nelson, M.S., Research Assistant in Speech Pathology.
General Information

THE UNIVERSITY OF OREGON MEDICAL SCHOOL is located in Portland (population 371,042), 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 $20,000,000, and are keeping pace with the school's expanding programs of education, research and public service.
The First Medical Science Unit (1919), a three-story structure, was financed through an appropriation of $110,000 by the 1917 State Legislature and by cash donations amounting to $25,000 from Portland citizens. Mackenzie Hall (1922), the second unit of the Medical Science Building, was financed through an appropriation of $113,000 by the 1921 State Legislature, matched by an equal appropriation from the General Education Board of New York. Named in honor of the late Dean Kenneth A. J. Mackenzie, the building is four stories high, similar in construction to the first unit, but has twice its capacity. An additional $50,000 was appropriated by the General Education Board for equipment.

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

Multnomah Hospital (1923, 1950), constructed through funds supplied by Multnomah County, has a capacity of 295 beds with facilities for general, medical, surgical, and obstetrical patients. The Multnomah Hospital group includes the Heating Plant (1923) and the Emma Jones Nurses' Dormitory (1927). Under terms of a contractual arrangement between the commissioners of Multnomah County and the Oregon State Board of Higher Education, the Medical School has access to the hospital for teaching purposes, and the professional staff of the hospital is appointed by the Medical School. This arrangement provides a most successful affiliation for teaching, research and care of the sick.

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

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

The Medical School Library, with stacks providing shelving space for 100,000 volumes, which may be expanded to accommodate an additional 100,000 volumes, contains more than 75,000 volumes of books and bound periodicals, as well as a large number of unbound periodicals. Approximately 1,400 current periodicals are received. Through the privileges of interlibrary loan and microfilm service, it is possible to obtain within a few days materials not contained in this collection. The Library has been enriched through many valuable gifts of books and periodicals from individuals and organizations. Members of the Women's Auxiliary of the Oregon State Medical Society and other friends of the Medical School aid in assembling books and objects of medical-historical interest. The Oregon State Board of Medical Examiners, the Portland Academy of Medicine and the Multnomah County Medical Society contribute to the annual operating fund. Public acknowledgement of gifts to the Library is made in a printed list in the annual Commencement program.

Students are given a survey of the resources of the Library and instruction in their uses in four lectures delivered by the librarian during the first and second years of their medical course.
The Nurses' Dormitory (1943), formerly the Portland Medical Hospital, was purchased in 1943 to provide needed housing facilities for students in the School of Nursing. This dormitory accommodates 95 students.

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

The Physical Plant Shop and Warehouse (1953) provides shop facilities and a central warehouse for the Physical Plant Department. The building was financed by a state appropriation of $71,000. A $48,000 addition to the structure was added in 1958 to provide space for a centralized tabulating service operated by the State System of Higher Education Comptroller's Office. A second addition to the building, costing $200,000, completed in June 1960, provides additional space for the tabulating service, expanded storage facilities, and space for the Medical School's Printing Department.

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

The University of Oregon Medical School Hospital (1955), a 270-bed teaching and research hospital, was completed in the fall of 1955 at a cost of approximately $6,300,000. Funds for the construction of the hospital were provided principally from state appropriations, supplemented by several gifts and grants. The hospital contains 128 beds for general, medical, and surgical patients, 29 beds for psychiatric care, and 113 beds for pediatrics (Doernbecher Memorial Hospital for Children).

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

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

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

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

**Philosophy and Objectives**

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

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

Accreditation

THE UNIVERSITY OF OREGON MEDICAL SCHOOL is one of 85 ac­
ccredited 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 Amer­
ican boards (see page 98). 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 Tech­
nicians, and the Registry of Medical Technologists of the American Society of
Clinical Pathologists.

Administration and Faculty

ALTHOUGH THE MEDICAL SCHOOL, chartered by the Board of Regents
of the University of Oregon in 1887, has administrative and faculty autonomy,
the academic position of the school as an integral part of the University of Oregon
is established in its charter and is recognized under the organizational plan of the
Oregon State System of Higher Education. A legislative act more than twenty-five
years ago combined all of Oregon's state-operated institutions of higher educa­
tion 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 135 full-time faculty members serving in its basic
and clinical science departments and more than 500 clinical faculty members who
practice in Portland and the surrounding area donate a portion of their time to
the teaching and research programs of the Medical School.

Instruction

THE UNIVERSITY OF OREGON MEDICAL SCHOOL provides a standard
undergraduate curriculum leading to the degree of Doctor of Medicine. This
program begins with an introduction to the normal structure and function of the
human body, and continues in the second year with a study of the effects of disease
and the methods of diagnosis of disease. The clinical portion of the student's pro­
gram 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 out­
standing students leading to both the medical degree and the Master of Science
RESEARCH

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

Five-year medical students assist with teaching in medical laboratory courses during the school year, and with research. In recognition of the value of such students to the departments concerned, and of the necessity of postponing the acquisition of the M.D. degree, such "student assistantships" are accompanied by remunerations.

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

The University of Oregon School of Nursing provides an important instructional program on the Medical School campus. Courses in medical technology and X-ray technique and clinical affiliations in dietetics and occupational therapy also are offered. Each year the Medical School conducts an extensive postgraduate program for physicians of the states of the Pacific Northwest, British Columbia, and Alaska (see also page 99).

Research

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

In the world-wide struggle to improve the health and happiness of mankind, millions of research dollars are expended annually in the nation's medical schools. Oregon is no exception. Investigations under way at the Medical School are supported by gifts and grants amounting to more than $1,500,000 annually. These funds are made available by private individuals and industry, by foundations and societies, and by the state and Federal governments.

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

Student Organizations

Student American Medical Association. Medical students have an opportunity to join the Student American Medical Association (SAMA), a national medical student organization. The purpose of SAMA is to represent medical student interests on a national scale. Membership is voluntary and on an 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.

**Fraternities.** There are three medical fraternities for men at the University of Oregon Medical School—Alpha Kappa Kappa, Nu Sigma Nu, and Phi Beta Pi. Women students are members of the Oregon section of the American Medical Women's Association.

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

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

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

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

### Social Activities and Athletics

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

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

The Student Activities Building, providing recreational and athletic facilities for the use of all students on the campus, was opened in the summer of 1960.

### Housing

WHILE NO FACILITIES FOR HOUSING students are provided by the Medical School, many apartments and boarding houses are located close to the campus. An up-to-date list of vacancies in apartments and boarding houses is maintained in the Registrar's Office.
Student Health Service

A STUDENT HEALTH SERVICE, maintained by the Medical School, provides care for acute diseases and is available for counselling. Preventive as well as therapeutic services are provided. Hospitalization for a maximum of fifteen days per academic year is available for emergency medical or surgical conditions only.

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

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

Fellowships, Scholarships, Prizes, Loan Funds

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

Summer Student Research Fellowships. A number of fellowships are available to selected medical students for summer research in both basic science and clinical departments. These fellowships provide the opportunity to gain first-hand experience in medical research under the supervision of experienced investigators. Application must be made to the chairman of the department concerned prior to April 1 preceding the summer for which the fellowship is to be awarded. Funds for summer fellowships are now being provided by The National Foundation, Lederle Laboratories Division of the American Cyanamid Company, the Tobacco Industry Research Committee, and the National Institutes of Health.

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

Dr. Laurence Selling Student Research Scholarships. The Selling Scholarship Fund was established in 1957 through a gift of approximately $200,000 from an anonymous donor. The income is to be used for student research scholarships at the Medical School. Students are recommended for the award by a committee of the faculty, and the awards are based on scholastic ability and research promise. Awards are limited to students participating in the five-year program. (See page 98, Five-Year Program.)

Kenneth A. J. Mackenzie Memorial Scholarship. Five $200 scholarships are awarded annually for the study of medicine, in accordance with the following plan; one $200 scholarship is awarded each year to the outstanding premedical student at the University of Oregon in the last year of his premedical studies; if the student enters the University of Oregon Medical School and continues to maintain a high scholastic record, the scholarship is renewable for each of his four years of medical training; if the student does not maintain a high scholastic record at the Medical School, his scholarship is transferred to the outstanding member of his Medical School class who has taken his premedical work at the University of
Oregon. The scholarships are a memorial to Dr. Kenneth A. J. Mackenzie, former dean of the Medical School; they are endowed through a bequest from the late Mrs. Mildred Anna Williams.

**Pohl Memorial Scholarships.** These scholarships were endowed in 1936 by a gift of $5,000 from Dr. Esther Pohl Lovejoy, in memory of her husband, Dr. Emil Pohl, and her son, Frederick Clayson Pohl. The original gift has been supplemented by additional annual donations from Dr. Lovejoy, which have increased the endowment to about $34,000. Awards are made to students of promise in the field of medicine. Two-thirds of the scholarships are given to men students, one-third to women students. Application should be filed with the office of the dean of the Medical School not later than March 1. Scholarships are awarded by the dean upon the recommendation of the Scholarship Committee of the Medical School.

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

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

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

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

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

**Joseph Lipschutz Memorial Essay Award.** An award of $50 is made annually to the fourth-year medical student who writes and presents the best paper in the field of pediatrics. The award is supported by a $600 fund contributed by private donors as a memorial to Dr. Joseph Lipschutz, a graduate of the Medical School who gave his life for his country in World War II.

**Loan Funds.** The Medical School has loan funds available for students. In general, loans fall into two classifications—emergency and long-term loans. Long-term loans are generally limited to $500 a year or to a maximum of $1,000 to any one student. Emergency funds are available for small, short-term loans. Interest rates vary with the fund used and application should be made to the Medical School Business Manager's Office.
**Ben Selling Loan Fund.** This fund, a bequest from the late Mr. Ben Selling, is administered by Dr. Laurence Selling and the Trust Department of the First National Bank of Oregon.

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

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

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

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

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

**Alumni Association**

FOUNDED in 1913, the Alumni Association of the University of Oregon Medical School also includes graduates of the Willamette University department of medicine. The association is devoted to the interests of students and graduates and to the encouragement of scientific and professional progress among members of the medical profession generally. Its membership numbers more than 2,500. In the spring of each year, the Alumni Association sponsors a three-day scientific meeting on the Medical School campus with about 400 registrations. Alumni Association officers for 1961-62 are:

- **Dr. John E. Tuhy, '38, Portland** .......................................................... President
- **Dr. John O. Branford, '46, Portland** ...................................................... Vice-President
- **Dr. Kirk J. Anderson, '44, Seattle** ....................................................... Vice-President
- **Dr. John A. Belt, '56, Anaheim, California** ........................................... Vice-President
- **Dr. Richard S. Fixott, '34, U.S. Air Force Academy, Colorado** ................. Vice-President
- **Dr. Donald B. Slocum, '35, Eugene** ..................................................... Vice-President
- **Dr. Joseph E. Nohlren, '43, Portland** .................................................... Secretary
- **Dr. Joyle O. Dahl, '36, Portland** ............................................................ Treasurer
- **Joseph J. Adams, Portland** ................................................................. Executive Secretary
Academic Requirements and Regulations

Admission Requirements

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

*Premedical Requirements.* Because there is no single course of study which best prepares a person for medicine, the student planning to enter medical school should obtain a thorough, sound general education and emphasize in college those fields in which he has the greatest personal interest, whether they be in the sciences or in the liberal arts. It is essential that a good basic preparation in the fundamentals of chemistry, physics, and biology be obtained; but, with this training, a student whose major undergraduate interest lies outside the biological or physical sciences should have adequate scientific preparation for medicine. Intensive scientific specialization will come soon enough, when the student enters the Medical School. While this specialization is necessary in Medical School, it is exceedingly important that the future physician in training remain constantly aware of the fact that the practice of medicine involves working with all kinds of people in many and complex social relations. For this reason, preparation for a career in medicine is inadequate if limited largely to scientific subjects. Because of their eventual responsibilities in human relationships, students have need for a broad liberal education. As we learn more of man and his reactions, it becomes obvious that social, economic, and other environmental factors have much to do with his physical and mental health. Certainly, a student with a primary interest in biology, chemistry, or physics should not be discouraged from pursuing such studies as a major course in his undergraduate career. It is not desirable, however, to take courses in college which will be duplicated in medical school (human anatomy, biochemistry, human physiology, medical bacteriology, etc.). A student is better prepared for medicine if he takes more basic courses or work in other fields such as mathematics and the social and behavioral sciences. Premedical education, then, should be planned to include, not only adequate scientific preparation, but also the type of broad education which leads to an understanding of the world in which we live. The three or four years in college should be looked upon as an opportunity to gain a good general education and not merely as a stepping stone to medical school.

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

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

Chemistry
General inorganic, which may include qualitative analysis .................................. 12
Quantitative analysis, emphasis on volumetric analysis ............................................. 4
Organic ......................................................................................................................... 8

Biology
General biology or zoology ....................................................................................... 9
Selections from comparative anatomy, embryology, or genetics (in this order of preference) ............................................................... 6

Physics ......................................................................................................................... 12
Mathematics ................................................................................................................ 6
*English ....................................................................................................................... 9
Electives ....................................................................................................................... 72

Total prescribed credit ............................................................................................ 138

Foreign language is not specifically required for admission to the Medical School, but some knowledge of a major modern foreign language (German, French, Russian, Spanish) is highly recommended as a part of the cultural training of the physician. Students anticipating research in the medical sciences should have a basic knowledge of German and French. The premedical student should keep in mind that some medical schools require credit in foreign language for admission.

The work in organic chemistry must include the chemistry of both aliphatic and aromatic compounds. Biochemistry will not be accepted toward meeting the requirements. At least 25 per cent of all chemistry credit must be for laboratory work.

Human anatomy is not accepted toward meeting the minimum requirements in biology.

The work in physics must include the divisions of mechanics, heat and sound, light and electricity.

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

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

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

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

Bachelor's Degree. A student entering the University of Oregon Medical School without a Bachelor of Arts or Bachelor of Science degree must complete the work required for one of these degrees in the Oregon State System of Higher Education or in the institution at which he received his premedical preparation, before entering upon the work of the third year in the Medical School.*

The University of Oregon, Oregon State University, and most of the colleges and universities of the Pacific Northwest recognize credit earned by a student during his first year at the Medical School as credit earned in residence toward the bachelor's degree.

Application Procedure. Application forms may be obtained from the Medical School Registrar, and all credentials should be sent to that office. Because the

* Students expecting to receive the bachelor's degree from the University of Oregon should include 9 hours of English composition and 9 hours of English literature in their premedical programs.
Committee on Admissions begins examining applications a year in advance of entrance to the Medical School, *early application is advisable*. Applications are accepted between July 1 and December 15. Early application is advised, since admission begins in the fall term. A place in the first-year class is not granted to an applicant more than one year before the beginning of instruction for that class.

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

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

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

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

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

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

*One unmounted recent glossy photograph*, size 2½" x 3" of the applicant in conventional dress, front view.

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

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

**Processing of Applications**

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

**Personal Interview.** After examination of credentials, residents of Oregon generally are requested to appear for a personal interview with the Committee on Admissions. A personal interview is not requested of nonresidents whose credentials indicate that they cannot meet the competition for 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 limited number of students can be admitted with advanced standing.

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

Schedules of classes for subsequent terms are available at 8:00 a.m. on the first day of the term at the Registrar's Office. During the first week of the term the student must report to that office to pick up a fee slip.
FEES AND DEPOSITS paid by students at the University of Oregon Medical Schools are as follows:

**Regular Fees**

<table>
<thead>
<tr>
<th>Fee Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition, per term</td>
<td>$60.00</td>
</tr>
<tr>
<td>Laboratory and course fee, per term</td>
<td>$117.00</td>
</tr>
<tr>
<td>1Building fee, per term</td>
<td>$8.00</td>
</tr>
<tr>
<td>2Incidental fee, per term</td>
<td>$24.00</td>
</tr>
<tr>
<td>Nonresident fee, per term (in addition to fees for resident students)</td>
<td>$116.00</td>
</tr>
<tr>
<td></td>
<td>$209.00</td>
</tr>
</tbody>
</table>

**Graduate Fees**

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

<table>
<thead>
<tr>
<th>Fee Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$10.00</td>
</tr>
<tr>
<td>Laboratory and course fee</td>
<td>$40.00</td>
</tr>
<tr>
<td>1Building fee, per term</td>
<td>$8.00</td>
</tr>
<tr>
<td>2Incidental fee, per term</td>
<td>$24.00</td>
</tr>
<tr>
<td></td>
<td>$82.00</td>
</tr>
</tbody>
</table>

For graduate students registered for 6 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:

<table>
<thead>
<tr>
<th>Fee Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1Building fee, per term</td>
<td>$8.00</td>
</tr>
<tr>
<td>2Incidental fee, per term</td>
<td>$24.00</td>
</tr>
<tr>
<td></td>
<td>$32.00</td>
</tr>
</tbody>
</table>

**Deposits**

<table>
<thead>
<tr>
<th>Fee Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deposit to reserve place in entering class</td>
<td>$25.00</td>
</tr>
<tr>
<td>(applied on tuition)</td>
<td></td>
</tr>
<tr>
<td>Breakage deposit, per year—first and second years</td>
<td>15.00</td>
</tr>
<tr>
<td>Breakage deposit, per year—graduate students</td>
<td>5.00</td>
</tr>
</tbody>
</table>

**Special Fees**

Registration and laboratory fee for special students registered for 6 term hours of work or less, $17.00 per term hour (minimum, $34.00 per term)

Auditor’s fee for lectures, per term hour, $5.50

Transcript fee, $1.00

1Part-time special students (students taking 6 hours of work or less) do not pay the building fee.
2The incidental fee is for student health service and for use of the Student Activities Building.
3Only 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.
4See page 57.
5The 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.........................................................................................................................$1.00

Students registering after the scheduled registration day of any term pay a late-registration fee of $1.00 per day. The first penalty day for graduate students is one week after the scheduled registration day.

Penalty for late payment of tuition and fees, per day....................................................................................25 cents

The first penalty day is one week after registration. Enrollment is canceled if tuition is not paid two weeks after registration day; a $2.00 fee is required for reinstatement.

Graduate qualifying-examination fee.............................................................................................................$1.00 to $15.00

Microscopes

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

Estimate of Yearly Expenses

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

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition and fees, full-time resident students</td>
<td></td>
<td>$627.00</td>
</tr>
<tr>
<td>Tuition and fees, full-time nonresident students</td>
<td></td>
<td>975.00</td>
</tr>
<tr>
<td>Breakage deposit</td>
<td></td>
<td>15.00</td>
</tr>
<tr>
<td>Microscope fee</td>
<td></td>
<td>15.00</td>
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<tr>
<td>Books and supplies</td>
<td></td>
<td>135.00</td>
</tr>
<tr>
<td>Board and room</td>
<td></td>
<td>1,000.00</td>
</tr>
<tr>
<td>Personal expenses</td>
<td></td>
<td>200.00</td>
</tr>
</tbody>
</table>

Fee Refunds

Students who withdraw from the Medical School and who have complied with the regulations governing withdrawals are entitled to certain refunds of fees paid, depending on the time of withdrawal. The refund schedule has been established by the Oregon State Board of Higher Education and is on file in the Business Office of the Medical School. Refunds are subject to the following regulations:

1. Any claim for refund must be made in writing before the close of the term in which the claim originated.
2. Refunds in all cases are calculated from the date of application for refund and not from the date when the student ceased attending classes, except in unusual cases when formal withdrawal has been delayed through causes largely beyond the control of the student.

Regulations Governing Nonresident Fee

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

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

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

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

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

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

**Part-Time Employment**

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

**Veterans' Information**

The student must present a Certificate of Eligibility to the Registrar effective prior to the opening day of the course in order to take advantage of veterans' benefits.

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

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

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

**Scholastic Regulations**

**Grades and Grading System.** A numerical grading system of I to V is used at the Medical School. I is the highest and V is the lowest passing grade. If a course is not completed within the time allotted, the work must be finished satisfactorily within one year. Failure in a course requires repetition of the course. In most courses the student will be given frequent written and practical tests, marked with percentage grades. The student may be given these percentage grades by his instructors, but final grades are issued only by the Registrar's Office. Final grades are given for each term's work, but are issued only at the end of the school year.
If at any time during the school year the student feels his work is not satisfactory, he should consult his instructor. Should special problems arise that threaten to interfere with study, the student should consult a faculty member for advice before his scholarship has been seriously affected.

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

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

Specific problems are referred to the Review Board for subsequent action. The Review Board, composed of 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 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 year's work beyond high school. The first three years must be satisfactorily completed before admission to the Medical School in Portland. Since facilities for instruction provide for the acceptance of only a limited number of applicants, completion of premedical 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 5,352 class hours of required work. Descriptions of courses are to be found under the several departmental headings.

Prescribed Work

First Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Lecture</th>
<th>Lab.</th>
<th>Clinic</th>
<th>Total</th>
<th>Term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>An 411, 412, 413</td>
<td>Gross Anatomy</td>
<td>84</td>
<td>288</td>
<td>372</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>An 414</td>
<td>Embryology</td>
<td>24</td>
<td>72</td>
<td>96</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>An 415</td>
<td>Histology</td>
<td>36</td>
<td>108</td>
<td>144</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>An 511</td>
<td>Neurology</td>
<td>24</td>
<td>72</td>
<td>96</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>BCh 411, 412</td>
<td>Biochemistry</td>
<td>96</td>
<td>180</td>
<td>276</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Phy 411</td>
<td>Human Physiology</td>
<td>60</td>
<td>108</td>
<td>168</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Med Ps 411, 412</td>
<td>Intro. to Medical Psychology</td>
<td>48</td>
<td>48</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PH 411</td>
<td>Statistical Methods</td>
<td>12</td>
<td>36</td>
<td>48</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Total: 384 864 1,248 56

Second Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Lecture</th>
<th>Lab.</th>
<th>Clinic</th>
<th>Total</th>
<th>Term hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bac 413, 414</td>
<td>Med. Microbiology &amp; Immunology</td>
<td>72</td>
<td>144</td>
<td>216</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>CP 511</td>
<td>Intro. to Clinical Pathology</td>
<td>36</td>
<td>72</td>
<td>108</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Pth 511, 512</td>
<td>General Pathology</td>
<td>72</td>
<td>144</td>
<td>216</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Pth 514</td>
<td>Gyn. &amp; Obs. Pathology</td>
<td>12</td>
<td>24</td>
<td>36</td>
<td>1 1/2</td>
<td></td>
</tr>
<tr>
<td>Phy 511, 512</td>
<td>Pharmacology</td>
<td>96</td>
<td>72</td>
<td>168</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Phy 412</td>
<td>Human Physiology</td>
<td>48</td>
<td>72</td>
<td>120</td>
<td>6</td>
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</tr>
<tr>
<td>Med 612, 613, 614</td>
<td>Physical Diagnosis</td>
<td>72</td>
<td>72</td>
<td>144</td>
<td>9</td>
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</tr>
<tr>
<td>Psy 511, 512</td>
<td>Interview, Tech. &amp; Psychiatric Med.</td>
<td>24</td>
<td>48</td>
<td>72</td>
<td>4</td>
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</tr>
<tr>
<td>PH 512, 513</td>
<td>Epidemiology</td>
<td>36</td>
<td>36</td>
<td>72</td>
<td>4</td>
<td></td>
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<tr>
<td>Sur 610, 611</td>
<td>Introduction to Surgery</td>
<td>24</td>
<td>24</td>
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Third Year

Pathology

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### Fourth Year (Cont.)

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**Recapitulation**

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**Prescribed Work by Departments**

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**Clinical**

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Description of Courses

Course Numbering System

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

400-499. Upper-division courses primarily for first-year students in medicine, but to which graduate students may be admitted on approval of the graduate adviser and department head concerned.

500-599. Courses primarily for students in basic medical science, but to which graduate students may be admitted on approval of graduate adviser and department head concerned.

600-699. Courses that are highly professional in nature may count toward a professional degree, but cannot apply toward an advanced academic degree (MA., MS., or Ph.D.).

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

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

Basic Science Departments

Anatomy

ANTHONY A. PEARSON, Chairman of Department

Professors

ROBERT L. BACON

DAVID L. GUNDERG

BARBARA DIMOND

CURTIS L. HOLZGANG

JAMES H. GILBAUGH

Associate Professors

WILLIAM A. STOTTLER

ARCHIE R. TUNTURI

INSTRUCTOR

RICHARD B. LYONS

Research Assistants

MARILYN LOMMICKY

JILL McLEAN

DELORES M. WAHL

Student Assistants

DAVID L. HAUGEN

KIT G. JOHNSON

REQUIRED COURSES

First Year

An 411, 412, 413. Gross Anatomy. 6 hours fall, 6 hours winter, 3 hours spring.
Regional dissection of the human body. Each two students dissect the lateral half of a body. The student is furnished with a loan collection of disarticulated bones for the study of osteology. Demonstrations include surface and radiological anatomy. Fall: lectures and quizzes, 2 hours a week; laboratory, 12 hours a week. Winter: lectures and quizzes, 2 hours a week; laboratory, 12 hours a week. Spring: lectures and quizzes, 2 hours a week; laboratory, 3 hours a week. 372 hours.

[ 66 ]
An 414. **Embryology.** 4 hours winter.
Lectures on reproductive cycle, fertilization, normal and abnormal human development, correlated with the laboratory study of pig embryos and with demonstrations of human embryos and fetuses. Lectures and quizzes, 2 hours a week; laboratory, 6 hours a week. 96 hours.

An 415. **Histology and Organology.** 6 hours fall.
Systematic study of the microscopic anatomy of normal human tissues and organs. Lectures and laboratory exercises furnish an introduction to how cells contribute to tissue and organ function and to how the organs are assembled from tissues. Lectures and quizzes, 3 hours a week; laboratory, 9 hours a week. 144 hours.

An 511. **Neurology and Organs of Special Senses.** 4 hours spring.
Study of the structure and functions of the organs of special senses and of the central nervous system. This is accomplished by gross dissections and stained sections of the human brain, spinal cord, and organs of special senses. Pathological conditions illustrating lesions of the nervous system are demonstrated. Prerequisites: An 411, An 412, An 413, An 415. Lectures, 2 hours a week; laboratory, 6 hours a week. 96 hours.

**ELECTIVE COURSES**

An 416. **Microscopic Technique.** 2 hours spring.
The theory and practice of preparing animal tissue for histological study. Limited to 4 students, registration only after consultation with instructor. Laboratory, 6 hours a week; 72 hours.

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

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

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

An 514. **Special Dissections.** Term and hours to be arranged.
Human anatomical material dissected and certain parts of the body studied more thoroughly. Conferences and quizzes arranged with the instructor. Registration limited by available material. Prerequisites: An 411, 412, 413.

An 611. **Applied Anatomy.** 2 hours.
The objective of this course is to present to a limited number of students (30-40) a review of human anatomy, with an anatomical consideration of the various regions of the body with reference to specific surgical problems. Embalmed and unembalmed cadavers used. Surface and radiological anatomy included. Prerequisites: An 411, 412, 413. Lectures and demonstrations, 2 hours a week; 24 hours.

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**Bacteriology**

Arthur W. Frisch, Chairman of Department

Professor
Arthur W. Frisch

Associate Professors
Evelyn L. Oginsky

Assistant Professor
Ernest A. Meyer

Fellow
Neaylin Vedros

Research Assistants
Sanomar Barr
Gordon H. Davies
Ruth A. Myllenbeck
REQUIRED COURSES

SECOND YEAR

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

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

ELECTIVE COURSES

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

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

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

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

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

A course for medical, special, and graduate students who wish to pursue any phase of the subject beyond Bac 414. Organized courses in immunology and bacteriology are given every other year.

Biochemistry

Edward S. West, Chairman of Department

Professors

WILBERT R. TODD

EDWARD S. WEST

Associate Professors

CLARISSA H. BEATTY

JACK H. FILLMAN

RICHARD T. JONES

NICHOLAS E. KONTAXIS

BARRY ALLEN

SIMONE BOUCHILLOUX

Marilouise Allen

Lester LaasTuEn

Larry T. BRicK

DAVID GAUDIN

Research Associates

DONALD E. PICKERING

Research Fellow

E. A. KEAN

JOHN T. VAN BRUGGEn

DEMIrTRIOS A. RIGAS

ANNE M. PERLEY

ELLEN L. TALLMAN

PAUL Y. SAKAGISHI

TOSHIo YAMAnO

MIcHAEL A. LAMBERT

P. MacMAHILL

JEAN Scott

DOROTHY ST. HELEN

RussELL MACDONALD

DANIEL W. NEBERT

PAUL T. RUSSELL

PERRY R. SLOOP, JR.
CLINICAL PATHOLOGY

REQUIRED COURSES

FIRST YEAR

BCh 411, 412. General Medical Biochemistry. 6 hours fall, 7 hours winter.
Organic and physical chemistry pertaining to biochemistry; the composition of tissues; enzymes, digestion, and absorption; detoxication; the chemistry of blood and respiration; hormones; metabolism; nutrition; the excretions. Fall: lectures, 4 hours a week; laboratory, 6 hours a week. Winter: lectures, 4 hours a week; laboratory, 9 hours a week. 276 hours.

ELECTIVE COURSES

BCh 501. Biochemistry Research. Any term, hours to be arranged.
BCh 505. Reading and Conference. Any term, hours to be arranged.
BCh 507. Seminar. Any term, hours to be arranged.
BCh 512. Biochemical Techniques. Any term, hours to be arranged.
Preparation of selected substances of biochemical importance, selected methods of analysis, theory and use of radioisotopes, instrumentation. Assigned readings, lectures, and laboratory. Prerequisites: BCh 411, 412.
BCh 513. Advanced Biochemistry. Any term, hours to be arranged.
The more advanced phases of biochemistry, with special emphasis upon metabolic processes. Assigned readings and lectures. Prerequisites: BCh 411, 412.
BCh 514. Chemistry of Bio-organic Substances. Any term, hours to be arranged.
The composition and properties of substances important in biochemistry presented from the viewpoint of modern chemical and physical theories. Assigned readings and lectures. Prerequisites: BCh 411, 412.

Clinical Pathology

RAYMOND D. GRONDAHL, Chairman of Department

Professor
RAYMOND D. GRONDAHL

Associate Professor
TYRA T. HUTCHENS

Associate Clinical Professor
HOMER H. HARRIS  JAMES H. LIUM

Assistant Professors
MARTHA L. HAMILTON  GERALD J. LATTIG

Assistant Clinical Professors
MARLOWE DITTERBRANDT  EUGENE W. LANDRETH

Clinical Associate
JAMES S. ARNOLD

Instructor
MARY E. BAPTIST
(Medical Technology)

Clinical Instructors
NIGEL A. PICKERING  DAVID S. TAKALO

Research Fellows
JAMES L. BRAMHALL  JAMES E. HARRIS

Research Assistant
JEANNE CARROLL HOPKINS

Residents
MARGARET E. BERROTH  RANDALL E. DAVIS  VICTOR C. MARQUARDT, JR.
WILLIAM J. BRADY  WOLFGANG HAUSER  ROBERT M. PELLMAN
DESCRIPTION OF COURSES

REQUIRED COURSES

SECOND YEAR

CP 511. Introduction to Clinical Pathology. 5 hours spring.
Lectures, demonstrations, and laboratory work dealing with the application of laboratory measurements to the practice of medicine. Lectures, 3 hours a week; laboratory, 6 hours a week. 108 hours.

FOURTH YEAR

CP 650. Clinical Pathology. 1 hour spring.
Lectures and demonstrations, dealing with recent development in laboratory methods applicable to the practice of medicine. Special emphasis on serum diagnosis and the use of radioisotopes. 1 hour a week; 12 hours.

ELECTIVE COURSES

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

CP 520, 521. Radioisotope Techniques. 1 hour each term, fall and winter.
Lectures and demonstrations concerning the theoretical and practical application of radioisotope techniques to medicine. 1 hour a week; 24 hours.

CP 522. Radioisotope Laboratory. Any term, hours to be arranged.
Laboratory experience with instruments used in radioisotope work.

Pathology

JACKSON T. CRANE, Chairman of Department

Professors

JACKSON T. CRANE  BENJAMIN V. SIEGEL

Clinical Professors

WARREN C. HUNTER  VINCENT D. SNEDDEN

Associate Professors

NELSON R. NILES  ABE OYAMADA

Associate Clinical Professors

SHELTON A. JACOBSON  E. COLTON MEEK, JR.

Assistant Professors

OTTO R. EMIG  JAMES E. ODELL  SEPTON R. WELLINGS

Assistant Clinical Professors

JOSEPH E. NOHLGREN  JOHN C. SMITH, II

Clinical Associates

ALBERT A. OYAMA  NORMAN H. RICKLES  JOHN D. THORPE

Instructors

ROBERT E. BROOKS  TOSHIRO FUJIKURA

Teaching Fellow

JACK F. HARTLEY

Residents

MOLLY TAN LO

Graduate Assistants

JAMES LITTLE  ALVIN SCHEISS

Student Assistants

F. LAWRENCE CLARE  RICHARD T. DOOLEY  PETER H. R. ROBERTS

JOHN T. FLAXEL  WINSTON E. MAXWELL  RONALD W. VINYARD
PATHOLOGY

REQUIRED COURSES

SECOND YEAR

Pth 511. General Pathology. 5 hours fall.
General principles of disease. Study of prepared slides supplemented by experiments and study of selected autopsies by all students; fresh and museum specimens; Kodachrome slides and scopicon orientation. Lectures and recitations, 3 hours a week; laboratory, 6 hours a week. 108 hours.

Pth 512. General Pathology. 5 hours winter.
Same as Pth 511 except that disease is related to body systems. Lectures, 3 hours a week; laboratory, 6 hours a week. 108 hours.

Pth 514. Gynecological and Obstetrical Pathology. 1½ hours spring.
Basic and practical consideration of diseases of female organs. Lectures, 1 hour a week; laboratory, 2 hours a week; 36 hours.

THIRD YEAR

Pth 515. Laboratory Neuropathology. 1½ hours spring.
Laboratory work and demonstrations dealing with inflammatory reactions and degenerative conditions, with emphasis on general paresis, tabes dorsalis, and brain tumors. Correlative lectures in neurophysiology and clinical neurology. Gross pathological specimens and demonstrations used in illustrating the diseases studied. Lectures, 1 hour a week; laboratory, 2 hours a week. 36 hours.

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.

Pth 655. Surgical Pathology. 1½ hours, one section each term.
Applications of pathology to immediate study of operatively removed tissues, correlating the clinical aspects of individual cases with pathologic findings; occasional comprehensive demonstrations. 3 hours a week; 36 hours.

ELECTIVE COURSES

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

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.
DESCRIPTION OF COURSES

Pharmacology

NORMAN A. DAVID, Chairman of Department

Professors

NORMAN A. DAVID

Assistant Clinical Professor

ELTON L. MCCAWLEY

Research Associate

DONALD WEBER

Research Assistant

NORMAN A. DAVID

ELTON L. MCCAWLEY

REQUIRED COURSES

Second Year

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

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

ELECTIVE COURSES

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

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

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

Phc 507. Seminar. 2 hours spring.

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

Physiology

JOHN M. BROOKHART, Chairman of Department

Professor

JOHN M. BROOKHART

Associate Professors

Benjamin B. Ross

Robert E. Swanson

Alfred J. Rampone

Joseph B. Trainer

W. Alden Spencer

Instructor

Eugene A. Lentini

Clinical Research Associates

George M. Austin

Monte A. Gerber

William L. Hartmann

Donald M. Pitcairn

Moses E. Strinberg

Research Fellow

Kisou Kubota

Student Assistants

Wesley A. Cook, Jr.

Myron E. Shirasu
MEDICINE  

REQUIRED COURSES

FIRST YEAR

Phy 411. Human Physiology. 8 hours spring.
Lectures, laboratory exercises, and conferences devoted to mammalian physiology, with special application to the human. Consideration given to the basic elements of effector control; basic information essential to the understanding of the functions of the respiratory, cardiovascular, and renal systems; discussion of gastrointestinal, liver, and endocrine functions. Lectures, 5 hours a week; laboratory, 9 hours a week. 168 hours.

SECOND YEAR

Phy 412. Human Physiology. 6 hours fall.
Continuation of Phy 411. Special attention given to the functional interrelationships between respiratory, cardiovascular, and renal systems. The general and special senses and the regional physiology of the central nervous systems discussed. Appropriate laboratory exercises and conferences related to lecture material. Lectures, 4 hours a week; laboratory, 6 hours a week. 120 hours.

ELECTIVE COURSES

Phy 501. Research. Any term, hours to be arranged.
Prerequisite: Phy 411, 412.

Phy 505. Reading and Conference. Any term, hours to be arranged.
Prerequisite: Phy 411, 412.

Phy 507. Seminar. Any term, hours to be arranged.
Prerequisite: Phy 411, 412.

Phy 514. History of Physiology. 1 hour winter.
One hour a week; 12 hours.

Clinical Departments

Medicine

HOWARD P. LEWIS, Chairman of Department

Professors

DAVID W. E. BAIRD  CHARLES N. HOLMAN  EDWIN E. OSGOOD
HERBERT E. GRISWOLD  DANIEL H. LADDY  *ROY L. SWANK
HANCE P. HANEY  HOWARD P. LEWIS  JOHN R. WALSH
WALTER C. LOSITZ

Clinical Professors

BLAIR HOLCOMB  MERL L. MARGASON  THOMAS S. SAUNDERS
LYLE B. KINGERY  HOMER P. RUSH  WILLIAM H. SHELDON

Associate Professors

JAMES H. AUSTIN  MONTE A. GREER  LEONARD W. RITZMANN
JOHN A. BENSON, JR.  ROBERT D. KOLER  ARTHUR J. SEAMAN
RICHARD L. DORSON  JAMES METCALFE  JOSEPH B. TRAINER
JARVIS GOULD  DONALD M. PITCAIRN  ZOLTON T. WIRTSCHAFTER
DEMETRIOS A. RIGAS  (Experimental Medicine)

* On leave of absence for Commonwealth Fund Fellowship at Physiologisch-Chemisches Institute, Joseph-Stelzmann-Str. 52, Cologne, Germany.
DESCRIPTION OF COURSES

ISIDOR C. BRILL
FRANK W. CHOWE
JOYCE DAHL
ROBERT S. DOW

DANIEL M. BACHMAN
JACK H. FELLMAN
(Neurochemistry)

GEORGE A. BOYLSTON
AUBREY M. DAVIS
WILLIAM P. GALAN
MORTON GOODMAN
HULDRICK KAMMER
FREDERICK A. J. KINERGY

PETER J. GALANTE

Associate Clinical Professors

GEORGE B. LONG
LEON F. RAY
MATTHEW C. RIDDLE

GEORGE B. LINDMANN
LEON F. RAY
MATTHEW C. RIDDLE

ASSISTANT PROFESSORS

MYRON G. ROGER, JR.
RICHARD T. JONES
ROBERT E. MASS
JAMES F. MORRIS

Assistant Clinical Professors

JOHN J. KRYGER
ERNEST T. LIVINGSTONE
JOHN CLIFTON MASSAR
ROY R. MATTIERT
DONALD E. OLSON

ASSOCIATES

LOUIS LINDO

Clinical Associates

KURT W. AUMANN
ARTHUR W. BERGER
EDMUND H. BERKER
ARTHUR M. BERGMAN
PAUL R. BURGNER
C. CONRAD CARTER
CHARLES W. COFFEN
WILLIAM COHEN
RUDOLPH M. CROMMELIN
DONALD E. FOSTER
MARVIN C. GOLDMAN
THOMAS S. HEALY
MARCUS M. HORENSTEIN

INSTRUCTORS

JAY C. HOYT
WILLIAM W. HURST
RICHARD H. KOSERLITZ
MARION L. KRIEMHIL
WALTER J. KUHL, JR.
WILBUR L. LARSON
AARNE J. LINDGREN
CHARLES E. LITTLEHALES
LENIER ARTHUR LOMDELL
LAURENCE E. MACDANIELS
GORDON L. MAURICE
GUY R. McCUTCHEN
ROBERT H. BIGLEY

Research Assistants

BELL DRAGOON

FELLOW

DOUGLAS R. BOTTOMLY

RESIDENTS

JOSEPH A. BLANCHARD
J. DAVID BRISTOW
RICHARD B. BYRD
JOHN D. CHASE
BRUCE R. CHENOWETH
CONRAD A. DELAUTEUR
ESTIL N. DIETZ
HAROLD P. DYGERT, JR.
STELLA FISHER
JOHN R. FLANNERY
DAVID C. FRIEDSCH
LEONARD M. GOLDBERG
ROBERT L. HARR
LEWIS J. KRAUER

SOSAMMA JOHN

* On leave of absence for Senior Fellowship, Cardiovascular Institute, University of California Medical School, San Francisco, California.
MEDICINE

Allergy
FRANK PERLMAN, Head of Division
Assistant Clinical Professors
ROY R. MATTERI

Clinical Associate
GEORGE M. ROBBINS

Clinical Instructors

GEORGE V. SQUIRE

GORDON T. WOLFE

Cardiology
HERBERT E. GRISWOLD, Head of Division
Professors
HERBERT E. GRISWOLD

Clinical Professor
HANCE F. HANEY

Associate Professors

JAMES METCALFE

LEONARD W. RITZMANN

Clinical Associate

Jerome C. Brill

Philip Selling

Aubrey M. Davis

Leonard B. Rose

William P. Galen

Charles W. Coffen

William W. Hurst

Clinical Associates

Edmund H. Berger

Clinical Instructors

Leonard M. Goldberg

James A. Riley

Fellows

Waldo E. Harris

George A. Porter

Donald W. Sutherland

Chest Diseases
DONALD M. PITCAIRN, Head of Division
Associate Professor
DONALD M. PITCAIRN

Associate Clinical Professor
John E. Tuhy

Assistant Professors

James F. Morris

JAMES T. SHEROS

Assistant Clinical Professor

Donald E. Olson

Associate

Peter J. Galante

Clinical Associate

William Cohen

Instructor

Robert D. Michel

Clinical Instructor

Charles T. Pinney

Diabetes and Metabolism
DANIEL H. LABBY, Head of Division
Professor
DANIEL H. LABBY
DESCRIPTION OF COURSES

RUDOLPH M. CROMMELIN
MARCUS M. HORENSTEIN
OTTO C. PAGE

Clinical Instructor
ROBERT L. HARE
Research Fellow
THOMAS W. DAVIS

Research Associates

JACK H. HUTCHINSON

Research Assistant
JAMES C. BOND

Endocrinology
MONTE A. GREER, Head of Division

Professor
DANIEL H. LABBY
Associate Professor
MONTE A. GREER

Assistant Clinical Professors

HULDRICK KAMMER

Clinical Associate
KURT W. AUMANN
Clinical Instructor
WILLIAM M. LAIDLAW

Gastroenterology
JOHN A. BENSON, JR., Head of Division

Associate Professor
JOHN A. BENSON, JR.

Associate Clinical Professor
GEORGE B. LONG

Assistant Clinical Professor

GEORGE A. BOYLIston

Associate
FREDERIC W. SMITH

Clinical Associates

MARVIN C. GOLDMAN
THOMAS S. HEALY

Clinical Instructor
LENIER ARTHUR LODMELL
NOBERT E. MEDVED

Clinical Instructor
LEWIS J. KRAKAUER

Hematology
EDWIN E. OSGOOD, Head of Division

Professor
EDWIN E. OSGOOD
Associate Professors

ROBERT D. KOLER

Demetrios A. Rigas
(Experimental Medicine)
Assistant Professors

RICHARD T. JONKS

Instructor
ROBERT E. MASS
Clinical Instructor
ROBERT G. PITTINGER

Arthur J. SHAMAN

JOHN L. SOELLING

HERVE PETERSON

BERNARD PIROFSKY

JOHN J. KRYGIER
MEDICINE

Research Associate
JOHN H. BROOKE

Research Assistant
PATRICIA VANBELLINGHEN

Residents
Ricardo Ignacio

Neurology

*Roy L. Swank, Head of Division

Professor
Roy L. Swank

Clinical Professor
Merl L. Margason

Associate Professor
James H. Austin

Associate Clinical Professor
Robert S. Dow

Assistant Professors

James H. Fellman
(Neurochemistry)

Janice R. Stevens

Research Associates
Louis Lino
C. Conrad Carter
Philip J. Reilly

Research Fellows

Aagot Grimsgaard

Anan H. Adams
Victor Milstein

Yutaka Nakamura

George A. Porter
Hideo Yamamoto

Lecturer
Larry Mills

Resident
Alan H. Adams

Dermatology

Walter C. Lobitz, Jr., Head of Division

Professor
Walter C. Lobitz, Jr.

Clinical Professors

Lytle B. Kingery
Joyle Dahl

Visiting Research Professor
Yusho Miura

Associate Professor
Richard L. Dobson

Associate Clinical Professors

Frank W. Crowe
Sheldon A. Walker

Assistant Clinical Professors

Frederick A. J. Kingery
John Cliffton Massar

* On leave of absence for Commonwealth Fund Fellowship at Physiologisch-Chemisches Institute, Joseph-Stelzmann-Str. 52, Cologne, Germany.
DESCRIPTION OF COURSES

Clinical Instructors

BRUCE R. CHENOwETH
CONRAD A. DELAurER
DAVID C. FRISCH
BERNARD F. RYAN
JOHN M. SHAW
RALPH R. SULLIVAN
CHARLES W. WATKINS

Research Associates

DONIS E. BROPHY
DORIS E. BROPHY
NICHOLAS NICOLAIDES

Research Assistants

MARY C. CAMPBELL
NICHOLAS NICOLAIDES
FRANCES DIACK
ELIZABETH HAINES

Residents

LARRY BOSLEY
ALBERT E. LARNER
FRANCES DIACK
MYRON MEANS
HUBERT D. CHINN
MAURICE K. ROSKELLEY
WILBUR G. LARSEN

Dental Medicine

HAROLD J. NOYES, Head of Division

Clinical Professor

HAROLD J. NOYES

Clinical Associates

ROBER'r J. BRUCKNER
DONALD R. PORTER
HAROLD J. NOYES
NORMAN H. RICKLES

Clinical Instructors

JOHN PAUL JARABAK
DUANE R. PAULSON
BRIT. S. SAVARA

Internal Medicine

REOUIRED COURSES

SECOND YEAR

Med 612, 613, 614. Physical Diagnosis. 3 hours each term.
Systematic lectures on the principles of history taking, physical examination and the pathophysiological basis for physical signs. Lectures, patient demonstrations, technique practice sessions, and ward rounds. Lectures, 2 hours a week; demonstrations, 2 hours a week. 144 hours.

THIRD YEAR

Med 615, 616, 617. Lectures on Internal Medicine. 2 hours each term.
Discussions of the broad principles and concepts concerned with the recognition and treatment of medical disorders. 72 hours.

Med 630. Clinical Clerkship. 13 hours, one section each term.
One-third of the class is assigned to the medical services of Multnomah Medical School and Veterans hospitals for one term in rotation, for the purpose of case study, ward and teaching rounds, and clinical conferences. Students also study selected psychiatric problems with the Department of Psychiatry (see Ps 630). 312 hours.

FOURTH YEAR

Med 650, 651, 652. General Clinical Conference. ½ hour each term, two terms; ¼ hour one term.
Presentation and discussion of basic problems in clinical medicine by all departments of the Medical School. 30 hours.

Med 653, 654, 655. Conference on Medical Therapy. ½ hour each term.
Conferences on therapy. 1 hour a week; 36 hours.

Med 656. Allergy. 1 hour fall.
Lectures on the nature and fundamental causes of the allergic state, and on the manifestations and treatment of allergic diseases. 1 hour a week; 12 hours.
Med 657. **Occupational Medicine.** 1 hour spring.
   Lectures and demonstrations dealing with important industrial health hazards and diseases. 1 hour a week; 12 hours.

Med 658. **Medical Economics.** 1 hour spring.
   Series of lectures concerning the economic, sociological, legal and other problems connected with the practice of medicine. Lectures, 1 hour a week; 12 hours.

Med 670. **Medical Outpatient Clinic.** 5 hours, one section each term.
   Diagnosis and treatment of ambulant medical patients under supervision. 10 hours a week; 120 hours.

Med 671. **Gastroenterology Outpatient Clinic.** ½ hour, one section each term.
   Outpatient Clinic clinical conferences. 2 hours a week for six weeks; 12 hours.

Med 672. **Diabetes and Metabolism Outpatient Clinic.** ½ hour, one section each term.
   Outpatient Clinic clinical conferences. 2 hours a week for six weeks; 12 hours.

Med 673. **Endocrinology Outpatient Clinic.** ½ hour, one section each term.
   Outpatient Clinic clinical conferences. 2 hours a week for six weeks; 12 hours.

Med 674. **Cardiovascular Renal Outpatient Clinic.** ½ hour, one section each term.
   Outpatient Clinic clinical conferences. 2 hours a week for six weeks; 12 hours.

Med 675. **Chest Disease Outpatient Clinic.** ½ hour, one section each term.
   Outpatient Clinic clinical conferences. 2 hours a week for six weeks; 12 hours.

Med 676. **Allergy Outpatient Clinic.** ½ hour, one section each term.
   Outpatient Clinic clinical conferences. 2 hours a week for six weeks; 12 hours.

Med 677. **Hematology Outpatient Clinic.** ½ hour, one section each term.
   Outpatient Clinic clinical conferences. 2 hours a week for six weeks; 12 hours.

Med 678. **Tuberculosis Outpatient Clinic and Clerkship.** 1 hour, one section each term.
   Case studies, clinical conferences and X-ray conferences concerning patients in the Tuberculosis Hospital and Tuberculosis Outpatient Clinic. 2 hours a week; 24 hours.

**ELECTIVE COURSES**

Med 501. **Research in Hematology.** Any term, hours to be arranged.

Med 505. **Reading and Conference.** Any term, hours to be arranged.
   For third- and fourth-year students. Arrangements may be made with the head of a division of internal medicine.

Med 601. **Research.** Any term, hours to be arranged.
   Students may elect to conduct research in the various divisions of medicine by arrangement with the chief of the division.

Med 605. **Reading and Conference: Chest Diseases.** Any term, hours to be arranged.
   Conference with the medical resident and staff for the presentation of cases of special interest in the Hospital and Chest Outpatient Service, supplemented by cases from private practice which present current difficult problems in diagnosis and treatment.

Med 605. **Reading and Conference: Cardiology.** Any term hours to be arranged.

Med 607. **Seminar in Medicine.** Any term, hours to be arranged.
Med 690. **Medical Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements of the regular Outpatient Clinic course.

(Fourth year.) Elective credit for completion of clinical work in the department in addition to that required in the regular Outpatient Clinic course.

Med 691. **Tuberculosis Control Outpatient Clinic for Children.** ½ hour, one section each term.

Demonstrations and conferences; primary tuberculosis in children. (Fourth year.) 2 hours a week for 6 weeks; 12 hours.

Med 692. **Ward Rounds in Endocrinology.** 1 hour, any term.

(Fourth year.) Examination and discussion of hospitalized patients with endocrine disease in Multnomah Hospital and Medical School Hospital. Limited to 4 students. 2 hours a week for 12 weeks; 24 hours.

Med 693. **Rheumatology Outpatient Clinic.** 1 hour each term.

Outpatient Clinic. Clinical conferences and demonstrations. Limited to 20 students a term. 2 hours a week; 24 hours.

Med 694. **Renal Rounds.** 1 hour, one section each term.

Intensive study of selected cases of renal disease in the Multnomah and Medical School Hospitals. Students work in pairs and study assigned patients. Conferences and discussions concerning the diagnosis, treatment, and basic mechanisms of the disorders of these and other similar patients conducted on rounds. Patient study 2 hours a week at any convenient time; rounds 2 hours a week; 48 hours.

Med 695. **Fundamental Aspects of Disease.** 1 hour winter.

Lectures and discussions presenting concepts of disease that have developed from advances in basic and clinical research; principles upon which contemporary research in medical science is based; discussions of current investigation of major disease processes. 1 hour a week; 12 hours.

Med 696. **Special Case Studies in Medicine.** Any term, hours to be arranged.

Students may elect to make detailed studies and reports of selected cases in the fields of cardiovascular, pulmonary, endocrinological and metabolic diseases.

Med 697. **Hematological Cell Identification.** ½ hour any term.

Students taught cell identification by actual study of slides under supervision. Maximum of 5 students for three weekly sessions. Given four times each term. 1 hour a week for 3 weeks; 3 hours.

Med 698. **Case Conference.** 1 hour any term.

Analysis of selected case material, utilizing new and selected techniques in the study of pulmonary disease. 2 hours a week; 24 hours.

**Neurology**

**REQUIRED COURSE**

**FOURTH YEAR**

Neu 670. **Neurology Outpatient Clinic.** ½ hour, one section each term.

Outpatient Clinic clinical conferences. 2 hours a week for 6 weeks; 12 hours.

**ELECTIVE COURSES**

Neu 691. **Neurology Conference.** 1 hour any term.

(Fourth year.) Combined conference including neurology, neurosurgery, neuro-ophthalmology and neuroradiology. Limited to 10 students. 2 hours a week; 24 hours.

Neu 692. **Experimental Neurology.** Hours to be arranged, any term.

Research techniques in neurology, neurochemistry, and electroencephalography. Open to third- and fourth-year students.
Neu 693. Clinical Clerkship in Advanced Neurology. 1 hour any term.
Selected neurological cases studied and presented for discussion. Participation in combined neurological, neuroradiological, and neurosurgical conferences. Selected studies in clinical neurology or in electroencephalography.

**Dermatology**

**REQUIRED COURSES**

**THIRD YEAR**

Derm 615, 616, 617. Lectures and Demonstrations in Dermatology. 1 hour each term.
Presentation of clinical cases, with detailed discussion of etiology, symptoms, and differential diagnosis. 1 hour a week; 36 hours.

**FOURTH YEAR**

Derm 670. Dermatology Outpatient Clinic. 1½ hours, one section each term.
Utilization of outpatient material; clinical and microscopic diagnostic procedures; general therapy. 6 hours a week for 6 weeks; 36 hours.

**Dental Medicine**

**REQUIRED COURSE**

**FOURTH YEAR**

DM 650. Dental Facial Growth and Oral Pathology. 1 hour winter.
Designed to give the medical student a survey of facial growth and oral disease, with discussion of specific diagnostic criteria and treatment of the more common lesions. Coordinated lectures and textbook reading on: Disturbances of oral and facial growth; oral and facial pain; dental caries; pulpitis and periapical pathology; differential diagnosis of radiolucencies in the jawbones; diagnosis of common oral conditions.

**Psychiatry**

George Saslow, Chairman of Department

Professor

George Saslow

Clinical Professors

Henry H. Dixon

Maxwell S. Jones

Associate Clinical Professor

Herman A. Dickel

Assistant Professors

I. Joyce Small

Iver F. Small

Lena Kenin

Kenneth D. Gaver

Gerhard B. Haugen

Assistant Clinical Professors

James G. Shanklin

Clinical Instructors

Duncan A. McLauchlan

C. Russell Parker

Wayne M. Pigden

Residents

William W. Thompson

Joseph H. Tebeleven

John H. Waterman

Joseph T. McKinney

Thomas E. Miller

Richard H. Phillips

Arlin Quan

Ross L. Snyder, Jr.

Paul H. Blachly

John L. Butler

James F. Carlin

Siegfried R. Berthelsdorff

Henry H. Dixon, Jr.

Donald McKinley

Donald D. Denney

Mary Anne De Witt

Victor Gregory
DESCRIPTION OF COURSES

Child Psychiatry

*Associate Clinical Professor*
Charles Bradley

*Assistant Professor*
Eugene E. Taylor

*Assistant Clinical Professor*
Carl V. Morrison

*Instructor in Psychiatric Social Work*
Thelma M. Danielson

Clinical Instructors

- Allen H. Parker
- Bernadene Allen
- Josiah B. Dodds
- Richard H. Johnson

Research Assistants

- Sue A. Warren
- Marion Crites
- Constance Hanf
- Delbert M. Kole

Fellows

- Arthur N. Wiens
- Burt E. Lavacek
- Evalyn Taylor
- William G. Prescott

Student Assistants

- Eileen A. Larsen
- Robert E. Kramer

REQUIRED COURSES

Second Year

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

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

Third Year

Ps 615. Child Psychiatry. 1 hour spring.

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

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

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

Fourth Year

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

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

ELECTIVE COURSES

Ps 601. Research in Psychiatry. Any term, hours to be arranged.
Ps 605. Reading and Conference in Psychiatry. Any term, hours to be arranged.
Ps 607. Seminar in Psychiatry. Any term, hours to be arranged.

Medical Psychology

Joseph D. Matarazzo, Chairman of Department

Professor

Joseph D. Matarazzo
REQUIRED COURSES

**FIRST YEAR**

Med Ps 411, 412. *Introduction to Medical Psychology*. 2 hours each term, winter and spring.

An introductory course including lectures, student discussion, and clinical and experimental demonstrations designed to familiarize the student with psychology as the scientific base of psychiatry. 2 hours a week; 48 hours.

**ELECTIVE COURSES**

Med Ps 501. *Research*. Any term, hours to be arranged.
Prerequisite: Med Ps 411, 412.

Med Ps 505. *Reading and Conference*. Any term, hours to be arranged.
Prerequisite: Med Ps 411, 412.

Med Ps 507. *Seminar*. Any term, hours to be arranged.
Prerequisite: Med Ps 411, 412.

Emotion, Motivation and Physiological Psychology.
History and Systems of Psychology.
Theories of Personality.
Learning.
Statistics and Research Design.

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**Radiology**

*Charles T. Dotter, Chairman of Department*

**Professor**

Charles T. Dotter

**Clinical Professors**

Clifford V. Allen

(J Radiotherapy)

William Y. Burton

James B. Haworth

Vincent C. Hinck

**Associate Professors**

Louis H. Frische

Selma Hyman

J. Robert Lee

**Assistant Clinical Professors**

Wayne G. Erickson

Milton D. Hyman

John Wayne Loomis

James R. Raines

Fred C. Shipps

**Clinical Associates**

Arthur F. Hunter

Sherman E. Rees

Ivan M. Woolley

**Instructors**

Marcia K. Bilbao

Kurt R. Straube

**Clinical Instructors**

Irving J. Horowitz

Harry Newman

Arthur L. Ovregaard

John L. Howison

Gregory B. Nichols

George F. Satterwhite

Robert S. Miller

Walter R. Stahl

Norman A. Aarestad

John Thomas Jenkins

John C. McMullan

Werner G. Berroth

Melvin P. Judkins

Merle M. Moberly

John C. English

Gerald L. Warnock
DESCRIPTION OF COURSES

REQUIRED COURSES

THIRD YEAR

Rad 615, 616, 617. Radiographic Diagnosis. 1 hour each term.
Broad experience in the interpretation and reporting of X-rays through weekly film reading assignments followed by small-group case presentation exercises. Lectures on diagnostic principles, radiotherapy, radiation hazard and protection. 1 hour a week; 36 hours.

ELECTIVE COURSE

Rad 690. Radiographic Diagnosis. Any term, hours to be arranged.
(Third or fourth year.) Practical experience derived from interpretation of cases from the current files; correction and discussion of student's reports at weekly seminar, final dictation by members of staff. Limited to six students.

Public Health and Preventive Medicine

Adolph Weinzirl, Chairman of Department

Professor

Adolph Weinzirl

Assistant Clinical Professor

Richard H. Wilcox

Instructor

Richard L. Lessel

Clinical Instructors

F. Sydney Hansen

Thomas L. Meador

Samuel B. Osgood

REQUIRED COURSES

FIRST YEAR

PH 411. Statistical Methods as Applied to Medicine. 2 hours spring.
Introduction to the principles of scientific method and statistical reasoning useful in the practical problems of medical research, practice, and administration. Lectures, 1 hour a week; laboratory, 3 hours a week. 48 hours.

SECOND YEAR

PH 512. Epidemiology. 1 hour winter.
Clinical and epidemiologic aspects of communicable diseases, correlated with bacteriology. Lectures and recitations, 1 hour a week; 12 hours.

PH 513. Epidemiology. 3 hours spring.
Principles of epidemiology illustrated by clinical and epidemiologic aspects of common communicable and other diseases. Lectures and recitations, 2 hours a week; laboratory or clinic, 3 hours a week. 60 hours.

THIRD YEAR

PH 511. Principles of Public Health. 3 hours winter.
The general principles of public health activities; control of communicable diseases; organization of Federal, state, local, and other health agencies; elements of infant, school, and industrial hygiene; vital statistics. Lectures, recitations, and discussions. 3 hours a week; 36 hours.

ELECTIVE COURSES

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

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

PH 507. Seminar. Hours to be arranged.
SURGERY

Surgery
J. Englebert Dunphy, Chairman of Department

General Surgery

Professors
J. Englebert Dunphy, Chairman of Department
General Surgery

Clinical Professors

John C. Adams
Arthur C. Jones
(Physical Medicine)

Associate Professor

William W. Krieffenhne

Associate Clinical Professors

Allen M. Boyden
Clifford E. Hardwick

Lester R. Chauncey
Matthew McKirdie

William S. Conklin
Oliver M. Nisset

Stanley W. Jacob
Albert Starr

Assistant Professors

Martin A. Howard
Donald R. Laird

Russell L. Johnsrud
Lawrence M. Lowell

John F. Kane

Clinical Associates

Harvey W. Baker
Arch Diack

John W. Hassett
Thomas J. Fox

Adalbert G. Bettman
William M. Garmoest

Darrell C. Bollam
John M. Guiss

John G. F. Cleland
Russell G. Gustavson

Research Fellows

William S. Fletcher
Robert F. Foran

Clinical Instructors

Jack E. Battalia
Toshio lmaara

Harry G. Beckwith
Roderick L. Johnson

Frederick H. Bentley
Reinhold Kanzler

Stanley F. Berquist
Robert W. Kendall

Nathan J. Campbell
G. Prentiss Lee

Keith M. Clisby
Vernor V. Lindgren

Hugh Donald Colver
Richard H. Lindquist

Peter DeWitt
R. Kent Markee

Zanley C. Edelson
William L. Mathieson

Lester H. Eisendrof
Colin W. McCord

LeRoy E. Groshong
David B. Miller, Jr.

J. Gordon Grout
Raymond E. Moore

Bernard P. Harpole
(Physical Medicine)

John F. Hayes
H. Minor Nichols

Robert W. Patton

Ulrich Freihoffe
M. I. Rastegar

Residents

Walter F. Alexander, Jr.
Thomas K. Hunt

John C. Bigelow
Richard A. Kingsbury

David Blumen
Fernando Q. Lox

James J. Chandler
Gary H. Leaverton

Donald L. Cleland
Joseph M. Murphy

Daniel L. Dennis
U. Scott Page

Keith A. Robertson

Frederick O. Stephens

Orthopedic Surgery

William E. Snow, Head of Division

Clinical Professors

Harry C. Blair
C. Elmer Carlson

Leo S. Lucas
DESCRIPTION OF COURSES

Associate Professor
WILLIAM E. SNELL

Associate Clinical Professors
E. GEORGE CHUINARD
JOHN F. ABELE
RODERICK E. BEGG
GEORGE W. COTTRELL
JOSEPH H. GILL
RICHARD J. HOPKINS

Clinical Associates
THOMAS J. BOYDEN
ROBERT E. BUCKMASTER
PAUL CAMPBELL
WINFRED H. CLARKE
HOWARD L. CHERRY
LAURENCE J. COHEN

Instructor
RODNEY K. BEALS

Clinical Instructors
THOMAS J. ROYDEN
ROBERT E. BUCKMASTER
PAUL CAMPBELL
WINFRED H. CLARKE
HOWARD L. CHERRY
LAURENCE J. COHEN

Residents
ROBERT F. CORRIGAN
ARTHUR L. ECKHARDT
NORMAN D. LOGAN

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 Professor
ROBERT B. HIGGINS

Clinical Associates
THOMAS A. DAVIS

Instructor
ANIS M. BRENNAM

Clinical Instructors
G. DONALD BEARDSLEY
CHARLES E. CATLOW, JR.
EMERSON J. COLLIER
CHARLES FERGUSON

Residents
JERRY D. GIESY
GERALD N. HECKER
ROBERT L. KALEZ

Anesthesiology
FREDERICK P. HAUGEN, Head of Division

Professor
FREDERICK P. HAUGEN

Assistant Professors
JOHN CLARENCE ROTH
REX J. UNDERWOOD
GENERAL SURGERY

Clinical Instructors

JOHN O. BRANFORD
DONALD D. BRINTON
ANNELENE J. AMIRANA
RICHARD W. CAUTHORN
ROY M. CLARK

DONALD D. DODSON
J. COLEMAN EDWARDS
CLAYTON H. DE BRUIN
JAMES A. FRAZER
DAVID GOWING

JOHN M. CLARK
PAUL E. SCHAF
JOANNE J. EVERETT E. JONES
LAWRENCE A. SWETLAND

Neurosurgery

GEORGE M. AUSTIN, Head of Division

Professor

GEORGE M. AUSTIN
Clinical Professor

JOHN RAAF
Clinical Associates

EDWARD W. DAVIS
EDWARD K. Kloos
KENNETH E. LIVINGSTON

Instructors

JOHN GORDON ROTH

Clinical Instructors

JOHN P. DENNIS
RAY V. GREWE
BRUCE N. KVERNLAND

Residents

WALEED N. AMRA
LAWRENCE N. AMR
CARL J. BELBER
LEWIS J. BROWN
MOHAMMED RASDULLAH

SHOKAI YAMADA

General Surgery

REQUIRED COURSES
SECOND YEAR

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

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

Sur 612. Healing Processes. 1 hour spring.

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

THIRD YEAR

Sur 617, 618. Lectures on Surgery. 1 hour each term, fall and winter.

A systematic lecture survey of surgical conditions, with emphasis on pathophysiologic process, the essentials of clinical diagnosis, and the physiologic, biochemical, and anatomical basis for therapy. 1 hour a week; 24 hours.

Sur 630. Clinical Clerkship. 8 hours, one section each term.

Orientation lecture, case discussion, and instruction in the methods of physical examination and history taking. Work at the bedside in the examination of the surgical patient. Emphasis throughout is placed on individual instruction or instruction in small groups. One-third of the class is assigned, by groups, to the surgical services of Multnomah Hospital, the Medical School Hospital, and the Veterans Hospital for one term. 200 hours.

Sur 631. Surgery Clerkship-Clinic. 2 hours, one section each term.

Clinics and demonstrations to familiarize the student with the techniques of examination and the diagnostic procedures used in general surgery. A correlative clinic given in connection with inpatient clerkship work. 4 hours a week; 48 hours.
DESCRIPTION OF COURSES

FOURTH YEAR

Sur 650. Surgical Conference. 1 hour, winter term.
An integrated sequence of lecture-demonstrations on trauma, including the following subjects: evaluation of the multiple-injury case, priorities in treatment, resuscitation and anesthesia, the lesions of war in wound treatment, craniocerebral injury, maxillo-facial trauma, thoraco-abdominal injuries, vascular trauma, urologic injuries, the injured hand, the treatment of burns. 1 hour a week; 12 hours.

Sur 651. General Surgical Clinic. 1 hour each term, one section each term.
A correlation clinic in general surgery for the fourth-year medical student. 2 hours a week; 24 hours.

Sur 652, 653, 654. General Clinical Conference. ½ hour each term, two terms; ¼ hour, one term.
Presentation and discussion of basic problems in clinical medicine by all departments of the Medical School.

Sur 670. Surgery Outpatient Clinic. 3 hours, one section each term.
Active student participation in all phases of the clinical management of ambulant patients in the surgery outpatient clinic. 6 hours a week; 72 hours.

Sur 672. Cancer. 1 hour, one section each term.
An introduction to clinical problems in cancer by student attendance at tumor clinic, tumor conference, and student participation in the management of specific patients with cancer. 4 hours a week for six weeks; 24 hours.

Sur 673. Clinical Pathology. 1½ hours, one section each term.
A clinical study of the significance, interpretation, and technique of clinical laboratory procedures, with emphasis on surgical applications. Correlative lectures, clinical laboratory demonstrations, workshop sessions, and problem case conferences analyzing selected patient problems. 6 hours a week for six weeks; 36 hours.

Sur 674. Physical Medicine. 1 hour, one section each term.
Practical discussions and demonstrations of the applications and theory of physical medicine. 2 hours a week; 24 hours.

ELECTIVE COURSES

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

Sur 640. Proctology Lectures. ½ hour.
(Third year.) A systematic lecture survey of ano-rectal disease. Practical demonstrations of the techniques of diagnostic instrumentation. 1 hour a week; 12 hours.

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

Orthopedic Surgery

REQUIRED COURSES

THIRD YEAR

Orth Sur 615. Orthopedics. 1 hour fall.
Lectures and patient demonstrations of orthopedic conditions of adults and children. 2 hours a week; 24 hours.

Orth Sur 630. Orthopedic Clerkship-Clinic. 2 hours, one section each term.
Clinics and demonstrations to familiarize the student with the techniques of examination and the diagnostic procedures used in orthopedics. A correlative
clinic given in connection with inpatient clerkship work. 1 hour a week; 50 hours.

Orth Sur 631. Fractures and Joint Injuries. 1 hour, one section each term.
Patient demonstrations, ward walks, and lectures on fractures, joint injuries, and other traumatic affections. 2 hours a week; 24 hours.

Fourth Year

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

ELECTIVE COURSES

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

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

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

Urology

REQUIRED COURSES

Third Year

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

Ur 630. Urology Clerkship. 2 hours, one section each term.
Clinics and demonstrations to familiarize the student with the techniques of examination and diagnostic procedures used in urology. A correlative clinic given in connection with inpatient clerkship work. 1 hour a week; 50 hours.

Fourth Year

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

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

ELECTIVE COURSES

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

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

Anesthesiology

REQUIRED COURSES

Third Year

Anes 615. Lectures on Anesthesia. 1 hour.
An integrated series of lectures on anesthesiology, with demonstrations and
DESCRIPTION OF COURSES

description of equipment employed; a discussion of the history of anesthesia; applied physiology; the clinical signs and methods of anesthesia; a discussion of the various anesthetic agents. 1 hour a week; 12 hours.

Anes 630. Regional Anesthesia. 1 hour, one section each term.
Lectures concerned with diagnostic, therapeutic, and anesthetic applications of nerve blocks. Clinical demonstrations of nerve-block procedures, and demonstrations using anatomic dissections. 1 hour a week; 12 hours.

FOURTH YEAR
Anes 670. Anesthesia Clerkship. $\frac{1}{2}$ hour, one section each term.
A continuation course. Observation of anesthetic procedures in the operating room, and directed supervision in assisting with the administration of the various types of anesthetic agents. 4 hours a day for three days; 12 hours.

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

Neurosurgery
REQUAIREDCOURSE
THIRD YEAR

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

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

Neu Sur 640. Differential and Regional Neurosurgical Diagnosis and Therapeutics. $\frac{1}{2}$ hour, winter or spring.
Discussions and demonstrations of the altered neurophysiologic background and anatomy encountered in patients with neurosurgical problems. Emphasis placed on student interest and participation in discussion of the basic concepts involved. Lectures and demonstrations. 1 hour a week; 12 hours.

Ophthalmology

KENNETH C. SWAN, Chairman of Department

Professor
KENNETH C. SWAN

Clinical Professors
AUGUSTUS B. DYKMAN
E. MERLE TAYLOR

Associate Professor
ROBERT P. BURNS
LEONARD CHRISTENSEN

Assistant Clinical Professors
ROBERT V. HILL
JOHN P. KEIZER
THOMAS E. TALBOT
ROBERT W. ZELLER
OPHTHALMOLOGY

Robert E. Fischer
Alfred J. Kreft

George P. Lyman
Edward N. McLean
Joseph J. Moreland

Instructor
Roy J. Ellsworth

Clinical Instructors

Paul F. Bailey
Robert H. Bedrossian

Robert C. Cowger
Clyde H. DuVall, Jr.
Walter R. Enders

Richard E. Markley
Peter P. Rowell

Research Fellow
Frederick T. Fraunfelder

Residents

W. Leigh Campbells
Robert F. Haney

Robert E. Kalina
Richard A. Lalli

Paul Robinson
K. Nolen Tanner

REQUIRED COURSES

Third Year

Eye 615. Eye. 1 hour fall.
Diseases of the eye and adnexa. Lectures, demonstrations, and quizzes. 1 hour a week; 12 hours.

Fourth Year

Eye 650. Eye. 1 hour winter.
Ophthalmology in relation to systemic disease. Lectures, demonstrations, and quizzes. 1 hour a week; 12 hours.

Eye 670. Eye Outpatient Clinic. 1 hour, one section each term.
Student participation in the patient-care program in the Adult and Children’s Eye Clinic. Demonstration and use of instruments and techniques for ophthalmic diagnosis and treatment. About one-third of the course is devoted to study of ophthalmic manifestations of systemic disease in hospitalized patients. 2 hours a week; 24 hours.

Elective Courses

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

Otology, Rhinology, and Laryngology

David D. DeWeese, Chairman of Department

Clinical Professors

Paul Bailey
George E. Chamberlain

David D. DeWeese
Lester T. Jones

Robert M. Hansen

William M. Bolton
Lewis W. Jordan

Assistant Clinical Professors

Clifford Kuhn

Donald C. Metzler
Bruce L. Titus

H. Victor Adix
Paul B. Myers

Clinical Associates

George C. Saunders
Kenneth D. Smyth

T. Glenn Ten Eyck
Ralph N. Westfall

Clinical Instructors

Donald H. Holden
Jack B. Miller

Residents

Richard Hodgson
Darrell W. Landrey

Richard F. Piantan
Lynn B. Robinson

Alexander E. Petroff

Alexander J. Schleuning, II

Richard L. Swanson
DESCRIPTION OF COURSES

REQUIRED COURSES

THIRD YEAR

ENT 615. Ear, Nose, and Throat. 1 hour fall.
An integrated series of lectures, demonstrations, motion pictures, and informal discussions reviewing the basic anatomy, physiology, and symptomatology of the ear, nose, and throat diseases, with emphasis on diagnosis. 1 hour a week; 12 hours.

FOURTH YEAR

ENT 670. Ear, Nose, and Throat Outpatient Clinic. 1½ hours, one section each term.
Practical instruction, examination of patients, use of diagnostic instruments, and treatment programs under supervision. 3 hours a week; 36 hours.

ELECTIVE COURSE

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

Obstetrics and Gynecology

RALPH C. BENSON, Chairman of Department

Professors

RALPH C. BENSON  HOWARD J. TATUM

Clinical Professor

HOWARD C. STEARNS

Associate Professor

RAPHAEL B. DURFEER

Associate Clinical Professors

CLIFFORD PEARL

GUNNAR E. C. NELSON

GOODRICH C. SCHAUFLER

WILLIAM M. WILSON

Otto R. Emig  Frank Shubeck

Assistant Clinical Professors

RODERICK C. BLATCHFORD  DUNCAN R. NEILSON

Instructor

TOSHIKO FUJIKURA

Clinical Instructors

THEODORE M. BISCHOFF  GEORGE S. HARA  JOSEPH C. MITCHELL

RICHARD N. BOLTON  WILLIAM L. HARTMANN  DAVID W. MOORE

MELVIN W. BREESE  PHILIP H. HENDERSON, JR.  MAX H. PARROTT

LE ROY S. CASPERSSEN  WILLIAM W. HICKS, JR.  EDWARD N. PETERSON

CHARLES L. CHAVIGNY  ROBERT C. JACKSON  JESSE L. RAY

C. LOUISE CLANCY  DAVID W. JAMES  QUENTEN SCHERMAN

RICHARD W. FRANKLIN  BENJAMIN B. JONES  ELIZABETH H. SCHIRMER

W. RONALD FRAZIER  GERALD E. KINZEL  WILLIAM O. THOMAS

MALCOLM E. FULLER  GEORGE H. LAGE  THOMAS A. TREASOR

REMY W. FULLER  F. KEITH MARKEE  RALPH E. WALLACE, JR.

ROBERT B. GREENE  ALFRED N. MARSHALL  JAMES M. WHITELY

JAMES A. AFFLECK  JOSEPH P. Doughton  WARREN F. ROGERS

JACK W. BELL  HAROLD E. RAY  JACK M. SCHNEIDER, II
OBSTETRICS

Obstetrics

REQUIRED COURSES

THIRD YEAR

Obs 615. Introductory Obstetrics. 1 hour fall.
Lectures, recitations, and demonstrations in obstetrics. The anatomy and physiology of the female pelvis and genitals; diagnosis of pregnancy; the management of normal pregnancy; physiology of and clinical course in normal labor and puerperium. 1 hour a week; 12 hours.

Obs 616. Lecture and Demonstration Course in Obstetrics. 1 hour winter.
Mechanism of normal and abnormal presentation; manikin demonstration; care of the newborn child. Obstetrical technique; forceps version, breech extraction, cesarean section and embryotomy. 1 hour a week; 12 hours.

Obs 630. Clinical Clerkship. 3½ hours, one section each term.
Patient study, ward rounds, and conferences in obstetrics. Multnomah and Medical School Hospital. 13 hours a week for six weeks; 78 hours.

Obs 631. Manikin. ½ hour, one section each term.
Lectures and demonstrations with the manikin on the mechanism of normal and abnormal labor and delivery, including pelvic mensuration, pelvic architecture, presentation and position of the fetus, complications of labor and delivery, 1 hour a week; 12 hours.

Obs 632. Attendance at Deliveries. 2 hours, one section each term.
Each student is required to be in attendance at and observe twelve deliveries in Multnomah Hospital, including delivery of patients in the hospital and attendance upon mother and child after deliveries. Each student is required to participate in at least six deliveries during an assigned period.

FOURTH YEAR

Obs 670. Obstetrics Outpatient Clinic. 3½ hours, one section each term.
Examination of pregnant women, pelvimetry, and instructions in prenatal and postpartum care. 13 hours a week for 6 weeks; 78 hours.

Obs 671. Special Problems in Obstetrics Outpatient Clinic. 1 hour, one section each term.
Problems involving likely difficult labor due to a large infant or small pelvis (dystocia), metabolic, cardiac, and other complicated obstetrical conditions. Cases are evaluated and a definitive course outlined. 3 hours a week for 6 weeks; 18 hours.

Obs 672. Postnatal Outpatient Clinic. 1 hour, one section each term.
Examination and demonstration of normal and abnormal details of pelvic anatomy following parturition. Outline of treatment for the postpartum patient. Methods of child spacing detailed. 3 hours a week for 6 weeks; 18 hours.

ELECTIVE COURSES

Obs 601. Research. Any term, hours to be arranged.
Obs 640. Fetal Neonatal Death Conference. ½ hour, any term.
Review of the pathology of predelivery and postnatal period. Discussion of the likely causes of death from the clinical, gross and microscopic review of each case. 1 hour a week; 12 hours.

Obs 690. Obstetrics Outpatient Clinic. Any term, hours to be arranged in accordance with requirements in the regular Obstetrics Outpatient Clinic course (Obs 670).
**DESCRIPTION OF COURSES**

**Gynecology**

**REQUIRED COURSES**

**Third Year**

Gyn 615, 616. *Gynecology*. 1 hour each term, fall and winter.

Gynecologic pathology and oncology demonstrated; details of surgery for pelvic hernia; inflammatory problems and pelvic tumors. 1 hour a week; 24 hours.

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

Patient study, ward rounds and conferences in gynecology. Multnomah and Medical School Hospitals. 11 hours a week for 6 weeks; 66 hours.

**Fourth Year**

Gyn 670. *Gynecology Outpatient Clinic*. 2 hours, one section each term.

Examination of patients, demonstration of problems related to office gynecology; postoperative followup and cancer detection emphasized; treatment of gynecologic problems outlined. 8 hours a week for 6 weeks; 48 hours.

Gyn 671. *Gynecology Tumor Outpatient Clinic and Pathology Conference*. 1 hour.

Evaluation of gynecological cancer patients, pre- or post-therapy. A follow-up of at least five years post-therapy is instituted. Complications of surgical and radiologic management are evaluated and corrective measures prescribed. 4 hours a week for 6 weeks; 24 hours.

**ELECTIVE COURSES**

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

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

**Pediatrics**

*Donald E. Pickering, Acting Chairman of Department*

**Professors**

Allan J. Hill, Jr.  
Donald E. Pickering  
Richard L. Sleeter

**Clinical Professor**  
Joseph B. Bilderback

**Associate Professors**

S. Gorham Barson  
William M. Clark, Jr.  
George W. Dana  
Rudolf C. H. Engel  
Herold S. Lillywhite  
(Speech pathology)

Morris L. Bridgeman  
Scott Goodnight  
Alvin D. Weng

**Assistant Professors**

Victor D. Menashe  
Robert J. Merchant  
Robert L. Tips

Carl G. Ashley  
John H. Benward  
Robert W. Blakeley  
Quinten W. Cochran  
Walter A. Goss  
John A. Larrabee  
John Arthur May  
Edgar M. Rector  
Paul E. Shick, Jr.  
Lendon H. Smith  
James P. Whittemore

**Instructors**

Kathrine S. French  
William W. Ornduff  
David L. Sessions  
Freida M. Weiner  
Norton B. Young  
(Radiology)
Pediatrics

Clinical Instructors

Daniel K. Billmeyer
John W. Bussman
W. Robert Day
John R. Hansen
Joseph T. Hart

Edward L. Hendricks
Peter H. Hurst
Donald F. Kelley
David W. Macfarlane
George A. Nash
George J. Schunk

William M. Snoek
John L. Stevenson
Clemens W. Van Rooy
Charles Varga
George F. Walliker

Research Fellow

George R. Kerr

Residents

Peggy J. Copple
William V. Coyner
John E. Finch
Arthur D. Kracke
George M. Mahon

Michael J. Miller
Charles R. Peterson

Required Courses

Third Year

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

Ped 630. Clerkship. 8 hours, one section each term.
Review of pediatric problems in an inpatient setting by patient responsibility, individual and group discussion. 32 hours a week for 6 weeks; 192 hours.

Fourth Year

Ped 670. Pediatric Outpatient Clinic. 4 hours, one section each term.
General pediatric problems in an outpatient setting with patient responsibility, individual and group discussions. 15 hours a week for 6 weeks; 90 hours.

Ped 671. Pediatric Outpatient Specialty Clinics. 5 hours, one section each term.
Study of special pediatric problems in cardiovascular, neurologic, endocrine, metabolic, and hematologic diseases. 20 hours a week for 6 weeks; 120 hours.

Elective Courses

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

Ped 640. Fetal Neonatal Death Conference. 1/2 hour, any term.
Review of the pathology of pre-delivery and postnatal period. Discussion of the likely causes of death from the clinical, gross, and microscopic review of each case. 1 hour a week; 12 hours.

Ped 641. Congenital Heart Disease. 1 hour, one section each term.
Students have an opportunity to examine patients with congenital heart disease in the Crippled Children's Division under the guidance of consultants from the Departments of Medicine, Radiology, Surgery, and Pediatrics. 2 hours a week; 24 hours.

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

Graduate Studies

THE UNIVERSITY OF OREGON MEDICAL SCHOOL offers graduate programs in the basic medical sciences, leading to the Master of Science and Doctor of Philosophy degrees; the degrees are conferred by the University of Oregon upon recommendation of the faculty of the Medical School. A combined program leading to both medical and basic science graduate degrees is also offered. Work leading to the Master of Science or Doctor of Philosophy degree is offered in anatomy, bacteriology, biochemistry, pathology, pharmacology, and physiology. Work toward the master's degree is offered in medical psychology and medical technology.

Recommended Preparation for Graduate Work

For admission to graduate studies an applicant must have a Bachelor of Arts or Bachelor of Science degree from an accredited college. Reading ability in a foreign language is highly desirable for applicants expecting to become candidates for the Master of Science degree. Reading ability in two modern foreign languages is not essential for admission to graduate studies, but must be demonstrated before the degree of Doctor of Philosophy is granted. It is highly desirable that all applicants have completed undergraduate courses in elementary statistics; training in statistical methods is required for all candidates for advanced degrees.

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

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

Bacteriology: general microbiology.

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

Pathology: admission to the Medical School.

Pharmacology: physical chemistry, advanced organic chemistry.

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

Medical Psychology: general psychology.

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

Admission to Graduate Status

Admission to graduate-student status is contingent upon (1) application by the student on forms available from the Registrar of the Medical School, (2) recommendation by the head of the department in which the student desires to work, and (3) approval by the Graduate Council and the dean of the Medical School. 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 I, II, III or IV are earned. A minimum yearly weighted grade average of 3.00 must be maintained. (See page 61, Promotion.)

Admission to Candidacy for a Graduate Degree

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

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

Requirement for Graduate Degrees

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

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

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

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

(c) Two term hours of credit in an advanced statistics course, dealing with the design of experiments and the analysis and interpretation of experimental data, are required.
(d) Special permission of the Graduate Council is required for a work load in excess of 18 hours per term.

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

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

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

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

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

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

Registration and Payment of Fees

Registration for graduate study 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 head of his major department and the instructors teaching the desired courses.

Fees for graduate study are payable at the beginning of each term according to the schedule listed on page 58.

Internship and Residency Programs

THE INTERNSHIP PROGRAM of the University of Oregon Medical School Hospitals and Clinics is approved by the Council on Medical Education and Hospitals of the American Medical Association. The hospitals participate
POSTGRADUATE PROGRAM

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

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

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

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

Postgraduate Program

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

Enrollment is open to any graduate of an approved medical school who is licensed to practice in his state of residence. The fee for each course is $15.00 per day.

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

School of Nursing

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

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

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

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

(2) The Baccalaureate Degree Program for Registered Nurses is planned for graduates of diploma-school programs who are seeking a broad background of general and professional educational preparation to extend their professional practice. Public health nursing is an integral part of the program. The curriculum also provides opportunities for a broadened foundation in general education, liberal arts, and behavioral sciences.

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

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

Hospital Dietetics

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

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

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

Appointments are made once a year; applications should be submitted to the Director of Dietetics, University of Oregon Medical School Hospitals and Clinics, not later than March 1.

X-Ray Technique

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

The minimum admission requirement is graduation from an accredited high school with a high scholastic rating; however, preference is given to applicants who have college training with credits in mathematics and physics.
No tuition is charged during the period of training, but the student must provide his own books, supplies, uniforms, and incidental fees. During the second year, the student serves as an apprentice technician and receives a stipend of $50.00 per month.

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

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

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

Medical Technology

RAYMOND D. GRONDAHL, Director of Medical Technology Program

Professor
RAYMOND D. GRONDAHL
Associate Professor
TYRA T. HUTCHENS
Associate Clinical Professors
JAMES H. LIUM
HOMER H. HARRIS
Assistant Professors
GERALD J. LATTIG
MARTHA L. HAMILTON
Assistant Clinical Professors
MARLOWE DUTTEBRANDT
BENJAMIN W. LANDRETH

Instructor
MARY E. BAPTIST
(Medical Technology)
Clinical Instructors
NIGEL A. PICKERING
DAVID S. TAKALO

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

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

Classes begin with the fall term and academic credit is granted for the work of the fall, winter, and spring terms. No credit is given for the summer term, which is required for certification by the Registry. Upon satisfactory completion of the twelve continuous months' training period, a certificate is issued to the stu-
dent 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.

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:

<table>
<thead>
<tr>
<th></th>
<th>Per term</th>
<th>Per year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$ 20.00</td>
<td>$ 60.00</td>
</tr>
<tr>
<td>Laboratory and course fee</td>
<td>36.00</td>
<td>108.00</td>
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<tr>
<td>Building fee</td>
<td>8.00</td>
<td>24.00</td>
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<tr>
<td>Incidental fee</td>
<td>23.00</td>
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</table>

Total for Oregon residents $ 87.00 $261.00
Total for nonresidents who pay an additional $55.00 per term $142.00 $426.00

Medical technology students pay the "special fees" listed on pages 58-59 under the conditions indicated.

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

**Curriculum in Medical Technology**

**Fall Term**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MT 410</td>
<td>Clinical Bacteriology</td>
<td>4</td>
</tr>
<tr>
<td>MT 413</td>
<td>Laboratory Orientation</td>
<td>2</td>
</tr>
<tr>
<td>MT 424</td>
<td>Clinical Biochemistry</td>
<td>5</td>
</tr>
<tr>
<td>MT 430</td>
<td>Principles of Hematology</td>
<td>3</td>
</tr>
<tr>
<td>*CP 520</td>
<td>Radioisotope Technique</td>
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Total: 17

**Winter Term**

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<thead>
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<th>Course Code</th>
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<tbody>
<tr>
<td>MT 411</td>
<td>Clinical Bacteriology</td>
<td>6</td>
</tr>
<tr>
<td>MT 425</td>
<td>Clinical Biochemistry</td>
<td>6</td>
</tr>
<tr>
<td>MT 431</td>
<td>Special Hematology</td>
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<tr>
<td>*CP 521</td>
<td>Radioisotope Technique</td>
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Total: 16

**Spring Term**

<table>
<thead>
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<tr>
<td>MT 414</td>
<td>Urinalysis</td>
<td>4</td>
</tr>
<tr>
<td>MT 420</td>
<td>Histological Technique</td>
<td>4</td>
</tr>
<tr>
<td>MT 436</td>
<td>Applied Serology</td>
<td>5</td>
</tr>
<tr>
<td>MT 437</td>
<td>Clinical Parasitology</td>
<td>3</td>
</tr>
<tr>
<td>*CP 522</td>
<td>Radioisotope Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Total: 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.

* See page 70.
MT 414. Urinalysis. 4 hours spring.
A study of the mechanisms of formation and identification of the normal and abnormal components of urine. Lectures, 2 hours a week; laboratory, 6 hours a week; 88 hours.

MT 420. Histological Technique. 4 hours spring.
Principles of tissue fixation, dehydration, and staining, with special emphasis upon the methods used in histopathological technique. Lectures, 2 hours a week; laboratory, 6 hours a week; 88 hours.

MT 424, 425. Clinical Biochemistry. 5 hours fall, 6 hours winter.
The principles of biochemistry and the applications of colorimetry, gastrometric analysis, and quantitative chemistry in the determination of the substances in blood and body fluids. Fall: lecture, 3 hours a week; laboratory, 6 hours a week. Winter: lectures, 3 hours a week; laboratory, 9 hours a week. 231 hours.

MT 430. Principles of Hematology. 5 hours fall.
The normal function and development of blood cells, red blood counts, white blood counts, differential cell counts, platelet counts, sedimentation rate, coagulation, bleeding time, and red blood cell fragility. Lectures, 3 hours a week; laboratory, 6 hours a week; 99 hours.

MT 431. Special Hematology. 3 hours winter.
Blood 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.
## Enrollment and Degrees

### Degrees Conferred June 9, 1961

**Doctor of Medicine**

<table>
<thead>
<tr>
<th>GRADUATE</th>
<th>UNIVERSITY AND HOSPITAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert Alfred Beatty</td>
<td>University of Illinois Research and Educational Hospital, Chicago, Ill.</td>
</tr>
<tr>
<td>Samuel T. Bennett</td>
<td>San Joaquin General Hospital, Stockton, Calif.</td>
</tr>
<tr>
<td>Charles A. Bonnett</td>
<td>University of Oregon Medical School Hospitals and Clinics, Portland, Ore.</td>
</tr>
<tr>
<td>Richard Paul Bunch</td>
<td>St. Luke's Hospital, Spokane, Wash.</td>
</tr>
<tr>
<td>Douglas Murray Burns</td>
<td>Highland-Alameda County Hospital, Oakland, Calif.</td>
</tr>
<tr>
<td>Jean Eoverie Carter</td>
<td>University of Oregon Medical School Hospitals and Clinics, Portland, Ore.</td>
</tr>
<tr>
<td>Robert Ernest Cavalli</td>
<td>Letterman General Hospital, San Francisco, Calif.</td>
</tr>
<tr>
<td>Gerald R. Christensen</td>
<td>St. Paul, Minn.</td>
</tr>
<tr>
<td>Gunnar E. Christiansen</td>
<td>Good Samaritan Hospital, Portland, Ore.</td>
</tr>
<tr>
<td>Byong-Uk Chung</td>
<td>Evanston Hospital, Evanston, Ill.</td>
</tr>
<tr>
<td>Willis Irving Cottell</td>
<td>Charity Hospital, New Orleans, La.</td>
</tr>
<tr>
<td>Mary Jane Dubinski</td>
<td>Good Samaritan Hospital, Portland, Ore.</td>
</tr>
<tr>
<td>Lloyd Ostrum Eckhardt</td>
<td>University of Oregon Medical School Hospitals and Clinics, Portland, Ore.</td>
</tr>
<tr>
<td>Raymond D. Endicott</td>
<td>St. Luke's Hospital, Spokane, Wash.</td>
</tr>
<tr>
<td>Rolf Richard Engel</td>
<td>University of Minnesota Hospitals, Minneapolis, Minn.</td>
</tr>
<tr>
<td>Thomas Edwin Fagan</td>
<td>University of Oregon Medical School Hospitals and Clinics, Portland, Ore.</td>
</tr>
<tr>
<td>Bill B. Ferguson</td>
<td>Emanuel Hospital, Portland, Ore.</td>
</tr>
<tr>
<td>Robert Leon Fulwyler</td>
<td>U. S. Naval Hospital, Camp Pendleton, Calif.</td>
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<tr>
<td>Lee Arthur Gleason</td>
<td>Ireland Army Hospital, Fort Knox, Ky.</td>
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<td>Raymond P. Graaf, Jr</td>
<td>Mary Hitchcock Memorial Hospital, Hanover, N. H.</td>
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<td>Keith Frederic Harcourt</td>
<td>University of Oregon Medical School Hospitals and Clinics, Portland, Ore.</td>
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<td>Thomas John Harrison</td>
<td>Los Angeles County Hospital, Los Angeles, Calif.</td>
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<td>James Thomas Hartford</td>
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<td>Donald H. Heithecker</td>
<td>University of Oregon Medical School Hospitals and Clinics, Portland, Ore.</td>
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<td>Leonard L. Heston</td>
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<td>Dale L. W. Lowther</td>
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<td>Joseph C. Macdonald</td>
<td>Highland-Alameda County Hospital, Oakland, Calif.</td>
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ENROLLMENT AND DEGREES

Richard Lewis Redfern ............................................. Highland-Alameda County Hospital, Oakland, Calif.
Thomas L. W. Roe ....................................................... University of California Hospitals, San Francisco, Calif.
Edward M. Schneider ................................................... University of Oregon Medical School Hospitals and Clinics, Portland, Ore.
Alan Fulton Scott .......................................................... Madigan General Hospital, Tacoma, Wash.
James Melvin Scott ....................................................... Good Samaritan Hospital, Portland, Ore.
Norman F. Seidenverg ..................................................... U. S. Naval Hospital, Oakland, Calif.
Michael James Skala ..................................................... St. Luke's Hospital, Spokane, Wash.
Esther Annette Strom ...................................................... Massachusetts Memorial Hospital, Boston, Mass.
John Walter Tarnasky .................................................. Emanuel Hospital, Portland, Ore.
Louis Arthur Taucher ................................................... San Bernardino County Charity Hospital, San Bernardino, Calif.
Duane Franklin Taylor ................................................... St. Luke's Hospital, Spokane, Wash.
Thomas Leon Thornton ................................................... Emanuel Hospital, Portland, Ore.
William M. Veatch ........................................................ Walter Reed General Hospital, Washington, D. C.
Vernon Verle Viles ........................................................ Good Samaritan Hospital, Portland, Ore.
Daniel Louis Wesche ..................................................... Philadelphia General Hospital, Philadelphia, Penn.
David Lee Wishart .......................................................... St. Luke's Hospital, Spokane, Wash.

Doctor of Philosophy

Alicia E. Marco .......................................................... R. Elaine E. Spencer

Master of Science

J. Peter Bentley .......................................................... Russell R. MacDonald
Gunwar E. Christiansen ................................................... Sammy Lee Meyer

Enrollment 1960-61

Medical Students

First-Year Class

Robert L. Acker .......................................................... James D. Fearl
Ernest P. Aebi ............................................................ Thomas J. Franz
Irshad A. Ahmad .......................................................... Layne O. Gentry
Patrick C. Alu ............................................................ David N. Gilbert
John N. Anderson ......................................................... Scott H. Goodnight, Jr.
Donald F. Austin ......................................................... James L. Griggs
Robert L. Backstrom ...................................................... Edward A. Grossenbacher
John O. Bergstrom ....................................................... Kenneth A. Hammon
C. Carter Boggs ........................................................... Stanley G. Harris
Robert O. Burgess ........................................................ Rodger G. Hawkins
H. Treat Cafferata ........................................................ H. Hale Henson
Timothy J. Campbell ..................................................... Meredith K. Hester
James J. Cereghino ....................................................... John C. Hill
Charles K. Chapman ..................................................... Thomas C. Honl
Gorden L. Clark ........................................................... Chin S. Hoo
Maurice J. Comeau ........................................................ John C. Hylen
John S. Corson ............................................................ Russell J. Keizer
William W. Cox ........................................................... Robert C. Koch
Eric W. S. Craig .......................................................... Kevin B. Lake
Robert D. Davis .......................................................... William R. Lee
Curwood L. Davison ...................................................... Gerrit R. Ludwig
Carl M. Deming ........................................................... Don R. Martin
David L. Dixon ............................................................ George M. Maskell
Peter J. Dowsett .......................................................... Martin E. McKenney
Robert A. Eastwood ...................................................... Donald L. Meyer
John Eschvarria ........................................................... Donald S. Minder
Harold Erickson ........................................................... Gary L. Neal

Second-Year Class

Joseph G. Antony .......................................................... Duane G. Beard
Hollis L. Augse ........................................................... William S. Bechen
Jerry J. Bass ............................................................. Robert M. Belanger

James B. Borden .......................................................... James D. Fearl
Elroy D. Brandt ........................................................... Thomas J. Franz
Larry T. Brice ............................................................ Donald S. Minder
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<td>Daniel L. Wescie</td>
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<td>David L. Wishart</td>
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</table>

**Fourth-Year Class**
ENROLLMENT AND DEGREES

Graduate Students

John F. Bellinger
John P. Bentley
Rose Mary Bocek
Robert E. Brummett
Audrey M. Davison

David Gaudin
Jack G. Giesy
Alyce L. Hoyer
Susan V. Hunter
Russell Ray MacDonald

Alesia E. Marco
David A. McClure
Paul T. Russell
Elaine Spencer
Donald G. Weber

Special Students and Auditors

James S. Bennett
James D. Day
Frances N. Diack

Julia C. Dickinson
Hilda Ebro
Elizabeth Haines
Blaska Joshi

David Newport
George L. Toombs
William Wescott

Medical Technology Students

*Henry Charles Alexander
*Lawrence Archer
Harriett Hungate Busted
Margaret Ann Campbell
*George Walter Davis
Michael Nathan Farr
Muriel Claire Gregorius
Phyllis Esther Griffith

*Auditors

*Rosin Gust
Brenda Marie Hall
Meredith Jean Hiss
Audrey Louisa Horton
Kenneth Hitoshi Kagiyama
Kiyomi Kayama
Pamela Jane Lindholm
Barbara Claire McKay
*William Arthur McKay

Dorothy Anne McKinnie
*James Calvin Mason
Betty Grimes Mitchell
Katherine Lee Pratt
Margaret Suzanne Rank
Bernice M. Skoog
Carolyn Mac Stetzer
Robert William Woolsey

Summary of Enrollment, 1960-61

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