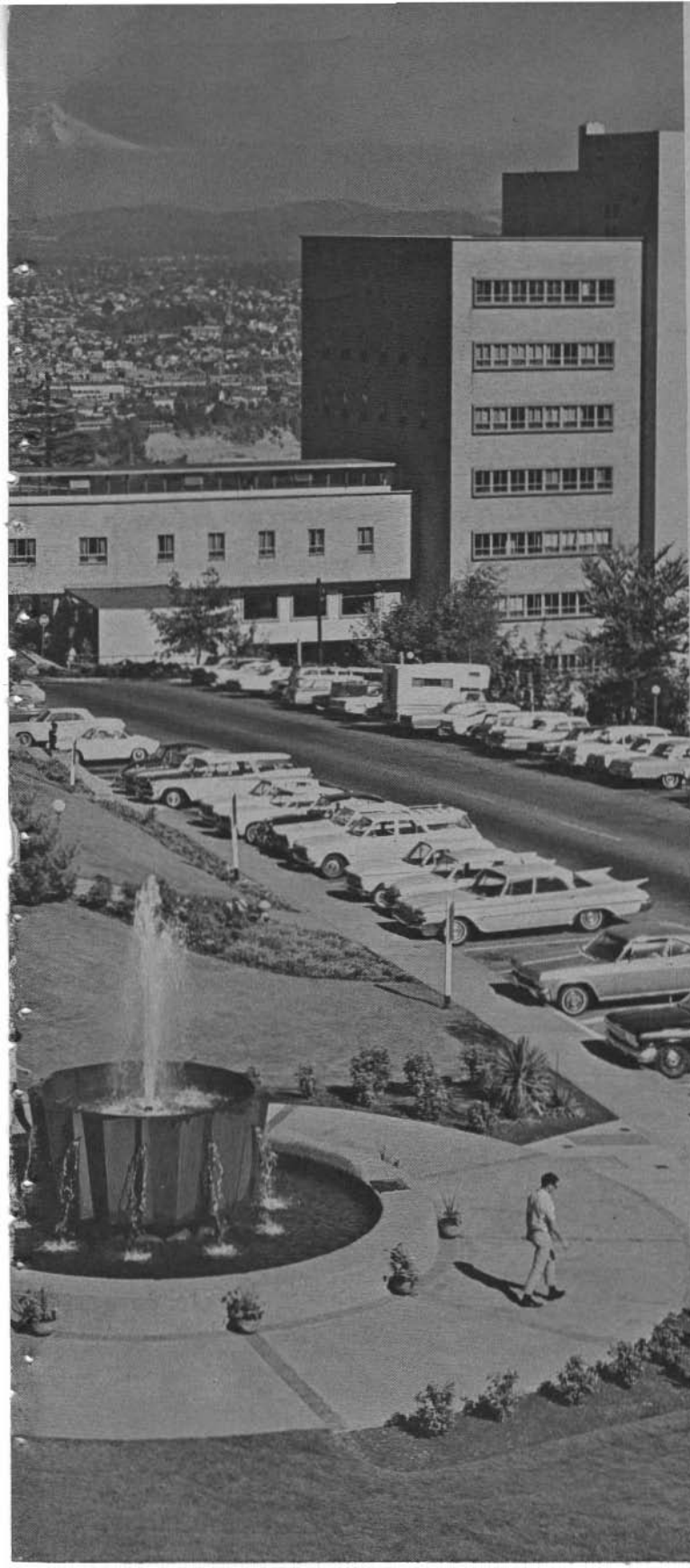




University
of Oregon
BULLETIN

UNIVERSITY
OF OREGON
MEDICAL
SCHOOL
PORTLAND

1965-66



Oregon State
System of
Higher Education

UNIVERSITY OF OREGON BULLETIN

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1965-66
CATALOG

University of
Oregon
MEDICAL
SCHOOL

3181 S.W. Sam
Jackson Park Road
Portland 97201

Education with a Purpose

Because of the remarkable and outstanding achievements made in the prevention and control of organic disease, and a more complete understanding of mental health, the first half of the twentieth century often has been referred to as "medicine's "golden age." Medicine is now in an era which holds promise of even greater future achievements. New medical techniques and methods of treating disease resulting from years of basic and clinical research have provided the tools for the practicing physician—and he has applied them with competence and effectiveness.

Since 1887, the University of Oregon Medical School has played an increasingly important role in contributing to the general medical welfare of this community and region. The Medical School initially was established to teach qualified young men and women the art and science of medicine for the purpose of making available to the citizens of this area and to the nation the highest level of medical care. This continues to be its primary objective. Clinical facilities, in addition to serving as teaching laboratories, provide the community with needed medical services. Investigations into the causes and treatment of disease are a natural adjunct to the teaching programs and today the University of Oregon Medical School conducts a vast and important program of medical research.

Although its major function remains that of providing a standard undergraduate curriculum leading to the degree of doctor of medicine, an equally important area of instruction involving the training of young doctors in specialized areas of medicine has assumed major proportions.

More than 85 per cent of all physicians are now specialists and medical schools are called upon to contribute enormously to this advanced educational activity. The institution also has the added responsibilities of providing instructional programs to nursing students, medical technologists, radiologic technologists, dietetic interns, cytotechnologists, and offers a clinical affiliation in occupational therapy. It makes available to outstanding students a special five-year program of study leading to both the medical degree and the master of science degree and a program of graduate studies leading to doctorates in the sciences basic to medicine. Medical knowledge has and is expanding at a rapid rate, and in order to communicate this new information to practicing physicians this Medical School sponsors an extensive program of continuing education.

In the years ahead the opportunities for improving our knowledge and its application to human welfare should be greater than they have in the past. We plan, with faith and courage, to advance existing medical techniques and methods of treating disease.

OREGON
STATE
SYSTEM OF
HIGHER
EDUCATION

An Overview

The Oregon State System of Higher Education was 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. Member 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 Oregon State University at Corvallis, the University of Oregon at Eugene, 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 Division of Continuing Education, representing all the institutions, has offices in Ashland, Corvallis, Eugene, La Grande, Monmouth, Portland 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. Southern Oregon College also offers a major program in business.

Portland State College offers major work in general studies, liberal arts, and selected 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.

Oregon Technical Institute offers technological curricula leading to associate degrees in technical and semi-professional areas.

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 Publications, Board of Higher Education, P.O. Box 5175, Eugene, Oregon 97403.

State Board of Higher Education

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

MEMBERS OF THE BOARD

	Term Expires
John Merrifield, Portland	1966
Charles R. Holloway, Jr., Portland.....	1967
Elizabeth H. Johnson, Redmond.....	1968
J. W. Forrester, Jr., Pendleton.....	1969
John W. Snider, Medford.....	1969
Philip A. Joss, Portland.....	1970
George Layman, Newberg.....	1970
Ralph E. Purvine, Salem.....	1971
Ray T. Yasui, Hood River.....	1971

OFFICERS OF THE BOARD

Charles R. Holloway, Jr.....	President
J. W. Forrester, Jr.....	Vice-President
Ralph E. Purvine.....	Member, Executive Committee
Roy E. Liouallen.....	Chancellor
Richard L. Collins.....	Secretary of Board

Office of State Board of Higher Education
Post Office Box 5175
Eugene, Oregon 97403

1965-1966
CALENDAR

MEDICAL AND GRADUATE STUDENTS*

Fall Term, 1965-66

September 13, <i>Monday</i>	Registration
September 14, <i>Tuesday</i>	Instruction begins ; last day for medical students to pay fees
September 17, <i>Friday</i>	Last day for graduate students to pay fees
September 27, <i>Monday</i>	Last day to register for full credit or to change courses
November 25, <i>Thursday</i>	Thanksgiving Day, holiday
December 4, <i>Saturday</i>	Fall term ends

Winter Term, 1965-66

December 6, <i>Monday</i>	Instruction begins
December 7, <i>Tuesday</i>	Last day for medical students to pay fees
December 10, <i>Friday</i>	Last day for graduate students to pay fees
December 17, <i>Friday</i>	Last day to register for full credit or to change courses
December 19, 1965 <i>Sunday</i> through	
January 2, 1966 <i>Sunday</i>	Christmas vacation
March 12, <i>Saturday</i>	Winter term ends

Spring Term, 1965-66

March 21, <i>Monday</i>	Instruction begins
March 22, <i>Tuesday</i>	Last day for medical students to pay fees
March 25, <i>Friday</i>	Last day for graduate students to pay fees
April 4, <i>Monday</i>	Last day to register for full credit or to change courses
May 30, <i>Monday</i>	Memorial Day, holiday
June 10, <i>Friday</i>	Commencement
June 11, <i>Saturday</i>	Spring term ends

Summer Term, 1966

June 13, <i>Monday</i>	Registration ; Instruction begins
June 17, <i>Friday</i>	Last day for graduate students to pay fees
June 27, <i>Monday</i>	Last day to register for full credit or to change courses
July 4, <i>Monday</i>	Independence Day, holiday
September 3, <i>Saturday</i>	Summer term ends

See* See also Calendar, Medical Technology, page 68.

University of Oregon Medical School

OFFICERS OF ADMINISTRATION

David W. E. Baird, M.D., LL.D., Dean.

Charles N. Holman, M.D., Associate Dean; Medical Director and Administrator, Hospitals and Clinics.

William A. Zimmerman, B.S., Associate Dean for Business Affairs.

Joseph J. Adams, B.B.A., Assistant Dean for Institutional Relations.

Jarvis Gould, M.D., Associate Medical Director and Associate Administrator, Hospitals and Clinics.

Myron R. Grover, Jr., M.D., Assistant Medical Director and Assistant Administrator, Hospitals and Clinics; Director of Continuing Education.

Michael D. Baird, M.D., Assistant Medical Director of Hospitals and Clinics.

Gwynn C. Brice, Assistant Director of Outpatient Clinic.

Barbara Hiatt, M.S., R.N., Assistant Administrator, Oregon State Tuberculosis Hospital.

Richard L. Sleeter, M.D., Director, Crippled Children's Division.

Mary Ann Ademino, B.A., Director of Publications.

A. J. Clemons, Superintendent, Physical Plant.

Wilson C. Dockery, B.S., Director, Student Activities.

Margaret E. Hughes, B.S., Librarian

Fred A. Matthias, B.B.A., Business Manager.

Kenneth A. Niehans, B.A., Director of Public Affairs.

M. R. Parelius, M.Sc., LL.B., Director of Research Services.

Byron E. Phillips, B.A., Personnel Officer.

Caroline H. Pommarane, B.S., Registrar.

Joseph B. Trainer, M.D., Health Service Physician.



1

GENERAL
INFORMA-
TION FOR
STUDENTS

GENERAL INFORMATION

The University of Oregon Medical School is located in Portland (population 377,957), 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 beginning in 1867 when courses and lectures were offered to medical students by the medical department of Willamette University in Salem. After ten years of operation it was decided that the medical department should move to Portland, where the metropolitan advantages of greater population and more hospitals would aid in providing a more complete teaching program.

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

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

In 1919 the Medical School moved to its present campus, on a 101-acre tract in Sam Jackson Park overlooking the city of Portland—away from the congested area but within one and one-half miles of the business district. The original tract included 20 acres donated in 1914 by the Oregon-Washington Railroad and Navigation Company and 88 acres given by the late Mrs. C. S. Jackson and the late Philip Jackson in memory of C. S. Jackson, publisher of the *Oregon Journal*. In 1958, the Oregon State Board of Higher Education accepted the gift of an additional 27 acres from the Journal Publishing Company.

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

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

Physical Facilities

The physical facilities of the University of Oregon Medical School are valued at more than \$23,000,000, and are keeping pace with the school's expanding programs of education, research and public service.

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

The *Outpatient Clinic* (1931), open to patients throughout the state of Oregon who are unable to obtain medical care elsewhere, affords teaching facilities for the clinical branches of the Medical School. Approximately 200,000 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. This facility is now closed and the patients have been transferred to the *Oregon State Tuberculosis Hospital*, Salem, as a result of action by the 1963 Oregon State Legislature. Administration of the *Oregon State Tuberculosis Hospital* was transferred to the State Board of Higher Education under the direct jurisdiction of the Medical School. The hospital has 160 beds and is equipped for the medical and surgical treatment of patients with tuberculosis. It is operated as one of the units of the Medical School Hospitals and Clinics.

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 100,000 volumes of books and bound and unbound periodicals. Approximately 1,800 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 a copying machine for the duplication of material in the Library collection.

The Library has been enriched through many valuable gifts of books and periodicals from individuals and organizations. Members of the Women's Auxiliary

GENERAL INFORMATION

of the Oregon Medical Association 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 annually in the Medical School's gift list.

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.

Gaines Hall (1943), formerly the Portland Medical Hospital was purchased in 1943 to provide needed housing facilities for students in the School of Nursing. This residence was converted to a general medical services building in 1965.

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, expanding 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 268-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 127 beds for general, medical, and surgical patients, 28 beds for psychiatric care, and 113 beds for pediatrics (*Doernbecher Memorial Hospital for Children*).

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

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

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

The Women's Residence Hall (1964), a modern, \$855,000 structure, houses 170 women students from the Medical, Nursing, and Dental Schools.

The *Medical School Farm*, a 180-acre farm southwest of Portland, was purchased in 1961 to house and breed animals for teaching and investigative programs. The farm is ideally suited to the raising and breeding of animals in their natural environments.

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

Construction of two additional buildings on the Medical School campus was completed in 1962: new headquarters for the Portland Center for Hearing and Speech, adjacent to the Crippled Children's Division Building, and a fire station, erected by the city of Portland on a site near the Veterans Hospital.

Accreditation

The University of Oregon Medical School is one of 88 accredited schools of medicine in the United States. It is approved by the American Medical Association and by the Association of American Medical Colleges. Its residency programs have been approved by the Council on Medical Education and Hospitals of the American Medical Association and by the respective American boards (see page 77). 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 Radiologic Technologists, and the Registry of Medical Technologists of the American Society of Clinical Pathologists.

Administration and Faculty

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

The Medical School has approximately 200 full-time faculty members serving in its basic and clinical science departments and more than 550 part-time and volunteer faculty members who practice in Portland and the surrounding area and who donate a portion of their time to the teaching and research programs of the Medical School.

Instruction

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

GENERAL INFORMATION

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.

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

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

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

The Medical School also offers regular programs of graduate work leading to the Master of Science and Doctor of Philosophy degrees, in the basic sciences (see Graduate Studies Catalog), 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 radiologic technology, and a one-year internship in dietetics 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 78).

Research

Although the primary purpose of the University of Oregon Medical School is teaching medical students the science and art of medicine, another and equally important function is medical investigation into the causes and treatment of disease.

In the world-wide struggle to improve the health and happiness of mankind, millions of research dollars are expended annually in the nation's medical schools. Oregon is no exception. Investigations under way at the Medical School are supported by gifts and grants amounting to nearly \$5,000,000 annually. These funds are made available by private individuals and industry, by foundations and societies, and by the state and Federal governments.

Currently, over 200 research projects are being conducted at the School in virtually every area of medicine. Contributions made by University of Oregon Medical School investigators to medical knowledge have been numerous and have received world-wide recognition.

Medical Research Foundation

The Medical Research Foundation of Oregon was incorporated in 1942 as a non-profit organization to engage in and support educational, research, and related activities. It is administered by a board of 20 trustees through the office of the director, which is located on the campus of the University of Oregon Medical School. The foundation's funds are derived principally from gifts, grants, and bequests which are administered by the foundation in accordance with the terms under which they are received. Unrestricted income is used by the foundation to meet critical needs and develop educational and research opportunities as they arise. Grants are awarded by the Board of Trustees on the basis of recommendations from the foundation's scientific review committee. The foundation administers the Oregon Regional Primate Research Center.

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 2,700. In the spring of each year, the Alumni Association sponsors a three-day scientific meeting on the Medical School campus with about 400 registrations. The Office of Institutional Relations maintains alumni records and assists in administering Alumni Association activities. Alumni Association officers for 1965-1966 are:

Dr. Thomas R. Montgomery, '32, Portland.....	President
Dr. Donald E. Olson, '47, Portland.....	Vice-President
Dr. Milton Durham, '39, Spokane.....	Vice-President
Dr. Allan R. McClary, '46, Glenarm, Md.....	Vice-President
Dr. Carl H. Phetteplace, '24, Eugene.....	Vice-President
Dr. William B. Youmans, '44, Madison, Wis.....	Vice-President
Dr. Ivan I. Langley, '43, Portland.....	Secretary
Dr. Lendon H. Smith, '46, Portland.....	Treasurer

Student Organizations

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

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

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

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

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

Christian Medical Society. The Christian Medical Society (CMS) a nondemoni-national 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 luncheon for freshmen given by the Alumni Association and the dean's reception for new students are included in the fall social calendar; a reception for graduates following commencement ceremonies is given by the Faculty Wives' Club. All students have access to Portland's metropolitan cultural advantages.

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

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

Housing

While no facilities for housing students are provided by the Medical School, many apartments and boarding houses are located close to the campus. An up-to-date list of vacancies in apartments and boarding houses is maintained on the Student Bulletin Board in the Administration Building.

Under regulations of the Oregon State Board of Higher Education, unmarried women students under the age of 21 who are not residents of Portland or who are not living with relatives must live in institution residences. This applies to students in the School of Nursing as well as those in the medical technology and radiologic technology programs at the Medical School and in the dental hygiene program at the Dental School.

Student Health Service

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

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

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

Fees and Expenses

Fees and deposits paid by students at the University of Oregon Medical School are as follows:

Regular Fees

Medical students, Oregon residents, per term.....	\$235.00
Medical students, nonresidents, per term.....	371.00
Graduate students (candidates for M.A., M.S., Ph.D.), per term.....	110.00
Graduate students enrolled for 7 term hours of work or less.....	\$14.00 per term hour (minimum, \$28.00)
Graduate students employed as research assistants or fellows, per term.....	36.00

GENERAL
INFORMATION

Deposits

¹ Deposit to reserve place in entering class (applied on tuition).....	\$50.00
² Breakage deposit, per year—first and second years.....	\$15.00
² Breakage deposit, per year—graduate students.....	\$ 5.00

Special Fees

Registration and laboratory fee for special students registered for 7 term hours of work or less—\$20.00 per term hour (minimum \$40.00 per term)	
Auditor's fee for lectures, per term hour.....	\$ 5.50
An auditor is a person who has obtained permission to attend classes without receiving academic credit.	
Transcript fee.....	\$ 1.00
One transcript is issued free; a fee of \$1.00 is charged for each additional transcript.	
Evaluation fee.....	\$ 5.00
The evaluation fee is charged for the evaluation of transcripts submitted with the application for admission; not refundable.	
Late-registration fee, per day (no maximum).....	\$ 1.00
Registration day is the first day of each term; registration is not complete until the student pays his tuition and fees. The first penalty day for full-time students in medicine and medical technology is the second day after registration day. The first penalty day for graduate students is one week after registration day.	
Graduate qualifying-examination fee.....	\$1.00 to \$15.00

Microscopes

Medical students are expected to provide themselves with microscopes. Microscopes are available for students who wish to rent them, for a fee of \$6.00 a term.

Estimate of Yearly Expenses

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

Tuition and fees, full-time resident students.....	\$ 705.00
Tuition and fees, full-time nonresident students.....	1,113.00
Breakage deposit.....	15.00
Microscope fee.....	18.00
Books and supplies.....	135.00
Board and room.....	1,000.00
Personal expenses.....	200.00

Fee Refunds

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

¹ See page 27.
² The cost of any damage done by a student to Medical School property is deducted from his deposit; in case the identity of the one responsible cannot be established, a pro-rata charge is made against the entire class of which he is a member.

NONRESIDENT FEES

- (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 parent or guardian is a bona fide resident of Oregon qualifies for enrollment under the resident fee; a student whose domicile is independent of his parent or guardian qualifies for enrollment under the resident fee if he presents convincing evidence that he established his domicile in Oregon six months prior to his first registration.

All other students are required to pay the nonresident fee, with the following exceptions: (1) a student who holds a degree from an accredited college or university (however, a nonresident student with a bachelor's degree enrolled in a curriculum at the University of Oregon Medical or Dental School leading to the degree of Doctor of Medicine or Doctor of Dental Medicine is required to pay the nonresident fee); (2) a student attending a summer session; (3) a student paying part-time fees.

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

- (1) In the case of a minor, if his parent or guardian has moved to Oregon and has established a bona fide residence in the state, or
- (2) In the case of a student whose domicile is independent of that of his parent or guardian, 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, and that he has no intention of moving out of the state after completion of his school work.

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 Registrar's Office.

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

GENERAL INFORMATION

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 the Trust Department of the First National Bank of Oregon.

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

F. E. Jacobs Memorial Loan Fund. This loan fund was established in 1950 through gifts from relatives and friends of the late Dr. F. E. Jacobs, a 1929 graduate of the University of Oregon Medical School. Loans are made to senior medical students. The fund at present totals approximately \$1,000.

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

Health Professions Student Loan Program. Under the provisions of the Health Professions Educational Assistance Act of 1963, funds have been provided by the Federal government for loans to medical students. The maximum loan available is \$2,000 per year. Preference is given to applicants entering medical school after June 30, 1963.

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.

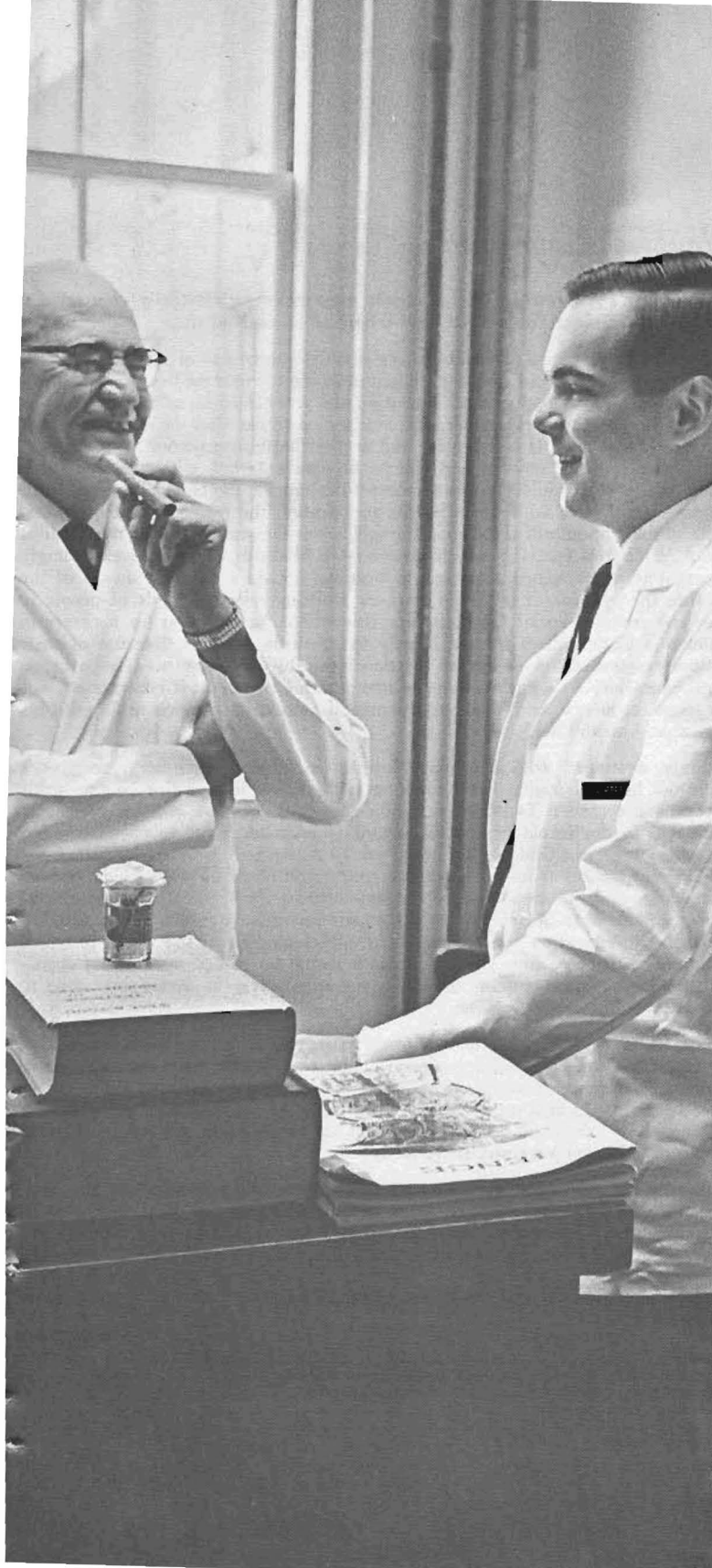
Joan Balise Memorial Loan Fund. This fund was established in 1960 in memory of the late Joan Balise by her husband, to provide emergency loans to medical students. The fund at present totals approximately \$1,150.

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

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

2

ADMISSIONS AND SCHOLASTIC REGULA- TIONS



ADMISSIONS
AND
SCHOLASTIC
REGULATIONS

Admission Requirements

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

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

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

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

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

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

	Term Hours
Chemistry.....	24
General inorganic, which may include qualitative analysis.....	12
Quantitative analysis, emphasis on volumetric analysis.....	4
Organic (with laboratory).....	8
Biology.....	15
General biology or zoology.....	9

ADMISSION REQUIRE- MENTS

Selections from embryology, genetics, comparative anatomy or general or cellular physiology (in this order of preference).....	6	
Physics (with laboratory).....		12
* Mathematics.....		6
* English.....		9
Electives.....		72
Total Prescribed Credits.....		138

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

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

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

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

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

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

Medical College Admission Test

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

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

* Students expecting to receive the bachelor's degree from the University of Oregon should include 9 hours of English composition, 9 hours of lower division English literature in a one-year sequence course, and 9 hours of lower division mathematics (a one-year sequence course) in their premedical programs. See the University of Oregon Catalog for specific courses that meet the literature and mathematics requirements.

SCHOLASTIC REGULATIONS

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

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

Advanced Standing

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

Registration Procedure

Medical students register only once each year (see Calendar, page 6), at the beginning of the fall term. Students report to the Registrar's Office on the day of registration to complete registration and receive class schedules. Fees are to be paid at the Cashier's Office within the first two days of each term.

Schedules of classes for each term are available at 8:00 a.m. on the first day of the term.

Scholastic Regulations

Grading System and Grades

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

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

Promotion

In order to be promoted unconditionally from the first to the second year and from the second to the third year in Medical School, the student must receive a passing grade in all subjects and a weighted grade-point average as established by the executive faculty. At the completion of the second year all students must achieve a grade of 70 in all subjects of the Part I examination of the National Board of Medical Examiners in order to be promoted to the third year. Failure to obtain a grade of 70 necessitates re-evaluation of the student by the departments in which he has failed. For promotion from the third to the fourth year,

ELECTIVE COURSES

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.

3

CURRICU- LUM IN MEDICINE



CURRICULUM IN MEDICINE

The curriculum in medicine requires a total of seven years' work beyond high school. The first three years must be satisfactorily completed before admission to the Medical School in Portland. Since facilities for instruction provide for the acceptance of only a limited number of applicants, completion of 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 *Admissions and Scholastic Regulations*. In the first, second, third, and fourth years at the Medical School there are 5,424 class hours of required work. Descriptions of courses are to be found under the several departmental headings.

Prescribed Work

First Year

	Aggregate class hours—				Term hours
	Lecture	Lab.	Clinic	Total	
An 411, 412, 413.....Gross Anatomy	108	360	...	468	19
An 415.....Histology	36	108	...	144	6
An 511.....Neurology	24	72	...	96	4
BCh 411, 412.....Biochemistry	96	180	...	276	13
Phy 411.....Human Physiology	60	108	...	168	8
Med Ps 411, 412.....Intro. to Medical Psychology	48	...	...	48	4
PH 411.....Statistical Methods	12	36	...	48	2
	384	864	...	1,248	56

Second Year

Bac 413, 414.....Med. Microbiology & Immunology	72	144	...	216	10
CP 511.....Intro. to Clinical Pathology	36	72	...	108	5
Pth 511.....General Pathology	96	192	...	288	13
Phc 511, 512.....Pharmacology	96	72	...	168	10
Phy 412.....Human Physiology	48	72	...	120	6
Med 612.....Physical Diagnosis	72	...	72	144	9
Psy 511, 512.....Interview, Tech. & Psychiatric Med.	24	48	...	72	4
PH 512, 513.....Epidemiology	36	36	...	72	4
Sur 610.....Introduction to Surgery	36	...	...	36	3
	516	636	72	1,224	64

Third Year

Pth 655.....Surgical Pathology	...	36	...	36	1½
Med 650.....Third-Year Medicine	72	...	372	444	21½
Derm 615, 616.....Lect. & Demon. in Dermatology	24	...	...	24	2
Psy 615.....Lectures in Clinical Psychiatry	12	...	...	12	1
Psy 630.....Clinical Clerkship	...	36	...	36	1½
Rad 615.....Radiographic Diagnosis	36	...	...	36	3
PH 511.....Principles of Public Health	36	...	...	36	3
Sur 630.....Third-Year Surgery	60	...	366	426	20½
Eye 615.....Eye	12	...	...	12	1
ENT 615.....Ear, Nose & Throat	12	...	...	12	1
Obs-Gyn 630.....Third-Year Obstetrics & Gynecology	48	...	156	204	10½
Ped 630.....Third-Year Pediatrics	36	...	192	228	11
	348	72	1,086	1,506	77½

Fourth Year

CP 650.....Clinical Pathology	12	...	...	12	1
Pth 650.....Clinical Pathological Conference	...	...	12	12	½
Pth 653.....Forensic Medicine	12	...	...	12	1
Med 657.....Toxicology & Occupational Medicine	12	...	...	12	1
Med 658.....Medical Economics	12	...	...	12	1
Med 670.....Fourth-Year Medicine	36	...	288	324	15
Derm 670.....Dermatology Outpatient Clinic	...	...	36	36	1½

PRESCRIBED COURSES

		Aggregate class hours			Term
		Lecture	Lab.	Clinic	Total hours
DM 650.....	Dent. Facial Growth & Oral Path.	12	....	....	12 1
Psy 670.....	Psychiatry Outpatient Cl. & Clerk. ....	....	....	48	48 2
Sur 670.....	Fourth-Year Surgery	24	....	336	360 16
Eye 650.....	Eye	12	....	....	12 1
Eye 670.....	Eye Outpatient Clinic .....	....	....	72	72 3
ENT 670.....	Fourth-Year Ear, Nose & Throat .....	....	....	72	72 3
Obs-Gyn 670.....	Fourth-Year Obs. & Gyn. ....	....	....	234	234 9½
Ped 670.....	Fourth-Year Pediatrics .....	....	....	216	216 9
		132	....	1,314	1,446 66½

Recapitulation

		Aggregate class hours			Term
		Lecture	Lab.	Clinic	Total hours
First year		384	864	....	1,248 56
Second year		516	636	72	1,224 64
Third year		348	72	1,086	1,506 77½
Fourth year		132	....	1,314	1,446 66½
		1,380	1,572	2,472	5,424 264

Prescribed Work by Departments

	Aggregate class hours
Anatomy	708
Bacteriology	216
Biochemistry	276
Clinical Pathology	120
Medical Psychology	48
Pathology	348
Pharmacology	168
Physiology	288
Medicine	1,008
Obstetrics & Gynecology	438
Ophthalmology	96
Otolaryngology	84
Pediatrics	444
Psychiatry	168
Public Health	156
Radiology	36
Surgery	822
Total hours	5,424

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. Any student failing to pass this examination will be referred to the Review Board of the Medical School for reevaluation of his status. 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

CURRICULUM IN MEDICINE

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.

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:

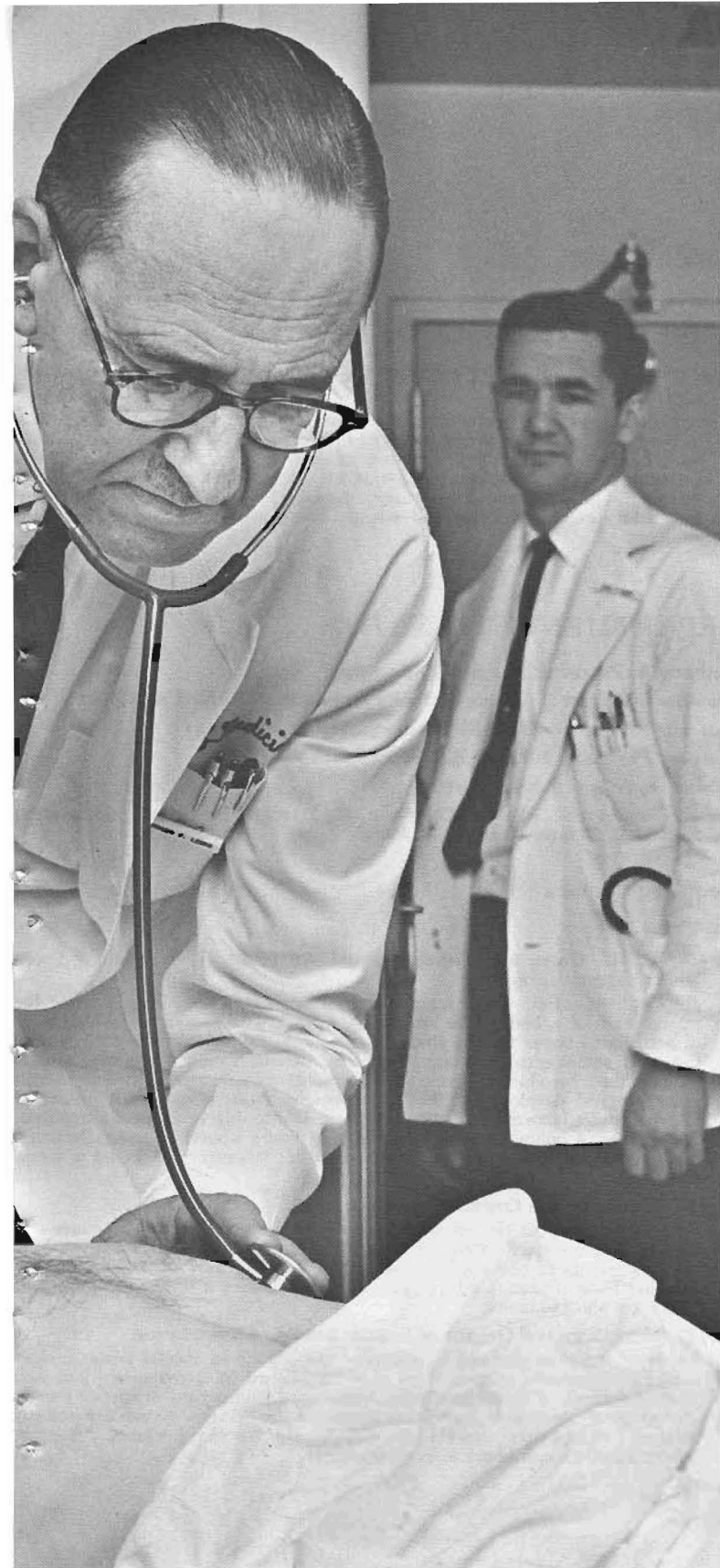
- 400-499. Upper-division courses primarily for first year students in medicine, but to which graduate students may be admitted on approval of the graduate adviser and department chairman concerned.
- 500-599. Courses primarily for students in basic medical science, but to which graduate students may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

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

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

4

DESCRIPTION OF COURSES



DESCRIPTION OF COURSES

Basic Sciences

BASIC MEDICAL SCIENCE

Basic Medical Science 511, 512, 513. **Cell Biology.** 5 hours each term, fall, winter and spring.

An integrated course presenting fundamental concepts, processes, and methods in the following areas of cell biology: macromolecules, cell structure, transport, biochemical functions, genetics, immunology, development and differentiation, organ physiology, inflammation neoplasia, and conditioning and learning. 4 lectures and 1 laboratory period. Conjoint course presented by the faculty of the basic medical science departments. Open to all graduate students.

DEPARTMENT OF ANATOMY

Anthony A. Pearson, Chairman of Department

Professors: **Robert L. Bacon, Anthony A. Pearson, William A. Stotler**

Associate Professors: **David L. Gunberg, Archie R. Tunturi**

Assistant Professor: **Richard B. Lyons**

Clinical Instructor: **John E. Swett**

Research Assistants: **Pamela Knowlton, M. Barbara Leighton, Jean Malen, Ronald W. Sauter, Dolores M. Wahl.**

Required Courses

First Year

An 411, 412, 413. **Gross and Developmental Anatomy.** 7 hours fall, 9 hours winter, 3 hours spring.

Regional dissection of the human body. Each pair of students dissects 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. Lectures, demonstrations, and laboratories include the reproductive cycle, fertilization, normal and abnormal human embryological development. Fall: lectures, demonstrations, and quizzes, 3 hours a week; laboratory, 12 hours a week. Winter: lectures, demonstrations, and quizzes, 4 hours a week; laboratory 15 hours a week. Spring: lectures, demonstrations, and quizzes, 2 hours a week; laboratory, 3 hours a week. 468 hours.

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

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

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

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

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

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

An 501. Research. Any term, hours to be arranged.**An 505. Reading and Conference.** Any term, hours to be arranged.**An 507. Seminar.** Any term, hours to be arranged.

Journal Club.
History of Medicine.

An 512. Analytical Embryology. 4 hours spring.

Lectures and assigned readings on cytology and physiology of gametes, gamete transport, fertilization, cleavage and cell division, and on cell tissue, and organ interaction in embryonic systems. The laboratory work is designed to introduce the advanced student to both classical and new techniques for the investigation of embryonic processes. Prerequisites: An 414, 415, BCh 411, 412, or equivalent. Lectures, 2 hours a week; laboratory, 6 hours a week; 96 hours.

An 513. Analytical Histology. 4 hours spring.

Lectures on the theory of fixation and staining; survey of physical and chemical techniques employed in modern histology. Practical experience with some of these techniques provided by laboratory exercises. Lectures and quizzes, 2 hours a week; laboratory, 6 hours a week; 96 hours. Prerequisites: An 415, 416, BCh 411, 412, or the equivalent. Limited to 10 students.

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

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

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

Neuroanatomy as an advanced quantitative science. Introduction to the use of the stationary time series, probability theory, and information theory in the investigation of the nervous system. Variables in the nervous system which can be measured; and statistical procedures on these variables. Methods for data acquisition and computer solution of problems.

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

An introduction to what a computer can do. The characteristics of the IBM 1410: uses of Fortran (formula translation) and Autocorder; elements of programming and examples of programs.

An 517. Embryology. 4 hours spring.

Lectures on reproductive cycle, fertilization, normal and abnormal human development, correlated with detailed laboratory study of pig, mouse, and human embryos and fetuses. Primarily for graduate students. Lectures, 2 hours a week; laboratory, 6 hours a week; 96 hours. Limited to 10 students.

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.

DESCRIPTION OF COURSES

DEPARTMENT OF BACTERIOLOGY

Arthur W. Frisch, Chairman of Department

Professors: **Arthur W. Frisch**, **Evelyn L. Oginsky**, **Lyle Veazie** (Parasitology)

Assistant Professors: **Alfred A. Amkraut** (Primate Center), **Charles E. Gardner**, **Terence M. Joys**, **Arthur Malley** (Primate Center), **Ernest A. Meyer**

Research Assistants: **Gordon H. Davies**, **Meredith Mears**, **Ruth Sigal**

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 2 week; laboratory, 6 hours a week. 216 hours.

Elective Courses

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

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

Bac 507. Seminar. 1 hour any term.

Bac 508. Advanced Virology. 4 hours, term to be arranged.

Biochemical and biophysical nature of viruses, mechanisms of viral infection, enumeration and statistical interpretation of the infectious unit, virus, antibody reactions, biochemical consequences of infection, viral genetics, and interference phenomena. The major emphasis is on animal viruses. Lectures and laboratories. Open to a limited number of students with consent of instructor. Prerequisites: either Bac 413, and BCh 411, 412 or BMS 511, 512, 513.

Bac 509. Bacterial Physiology. 4 hours, term to be arranged.

Cytochemistry and ultrastructure, patterns of growth, metabolic pathways of degradation and synthesis, energy mechanisms, genetic controls and their regulation, physiological mechanisms for environmental adaptation. Lectures and laboratories. Open to a limited number of students with consent of instructor. Prerequisites: Either Bac 413, 414 and BCh 411, 412 or BMS 511, 512, 513.

Bac 510. Immunochemistry. 4 hours, term to be arranged.

Chemical and physical nature of antigen, antibody, antigen-antibody interaction; current methods for isolation of immunologic materials. Immunochemical techniques: quantitative precipitation, gel diffusion, immuno-electrophoresis, active and passive cutaneous anaphylaxis. Lectures and laboratories. Open to a limited number of students with consent of instructor. Prerequisites: elementary physical chemistry and biochemistry.

Bac 511. Advanced Microbiology and Immunology. Term and hours to be arranged.

Study of selected areas of microbiology with emphasis on contemporary concepts of the basic nature of microbial and host systems and their interactions. Open to a limited number of students with consent of instructor. Prerequisites: Bac 413, 414.

DEPARTMENT OF BIOCHEMISTRY

Edward S. West, Chairman of Department

Professors: **A. Wesley Horton**, **Howard S. Mason**, **Oscar W. Portman** (Primate Center), **Demetrios A. Rigas**, **Wilbert R. Todd**, **John T. Van Bruggen**, **Edward S. West**

Associate Professors: **Clarissa H. Beatty** (Primate Center), **Antonio E. Colas**, **Jack H. Fellman**, **Richard T. Jones**, **George W. Kittinger** (Primate Center)

Assistant Professors: **Rose Mary Bocek** (Primate Center), **J. Peter Bentley**, **J. Russell Claybrook** (Primate Center), **Marvin C. Hines**, **Dale D. Hoskins** (Primate Center), **Anne M. Perley** (Primate Center), **Ellen L. Tallman** (Primate Center), **Paul A. Van Dreal**

Instructor: **Thomas Fujita**

Research Associates: **Russell Jolly**, **Paul MacMahill**, **Yoshihiro Miyake**, **K. Murakami**, **D. Madhusudanan Nair**, **Diane Oldfield**, **Donald A. Robb**

Research Assistants: **Lester Laaestuen**, **Emil Schneider**, **Jean Scott**

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 511. Biological Information Transfer. 2 hours.

The biochemistry of heredity, growth, aging, and differentiation, and its relationship to disease. The biochemistry and biosynthesis of nucleic acids and their components; protein biosynthesis.

BCh 512. Biological Energy Transformations. 2 hours.

Bioenergetics, energy transductions: oxidative phosphorylation, biological oxidation-reduction, active transport, muscle contraction, nerve conduction, biosynthesis from the energy viewpoint.

BCh 513. Advanced Intermediary Metabolism. 2 hours.

Nutrition, advanced aspects of the metabolism of lipids, sterols, carbohydrates, amino acids and proteins, tissues.

BCh 514. Enzymology. 2 hours.

The physical and chemical properties of enzymes and the reactions they catalyze.

BCh 515. Biophysical Chemistry of Macromolecules. 2 hours.

The principles and methods employed in determining the size, shape, charge, and thermodynamic properties of biological macromolecules; physical aspects of their interaction, and of the relationship of structure to function.

DESCRIPTION OF COURSES

BCh 516. Biochemical Techniques and Instrumentation. 4 hours.

Preparation and characterization of substances of biochemical importance; the study of biochemical processes; theory and use of radioisotopes as tracers; instrumentation theory and practice. Lectures and laboratory.

DEPARTMENT OF CLINICAL PATHOLOGY

Tyra T. Hutchens, Chairman of Department.

Professors: **Clifford V. Allen** (Radioisotopes), **Tyra T. Hutchens**

Associate Clinical Professors: **Homer H. Harris**, **James H. Lium**

Assistant Professors: **James L. Bramhall**, **Martha L. Hamilton**, **Gerald J. Lattig**, **Victor C. Marquardt**

Assistant Clinical Professors: **Eugene W. Landreth**, **E. Colton Meek**, **Albert Oyama**, **Nigel A. Pickering**

Instructors: **Mary E. Baptist** (Medical Technology), **John D. Koontz**

Clinical Instructors: **Daniel M. Baer**, **William J. Brady**, **David J. Brown**, **David S. Takalo** (Medical Technology)

Resident: **Thelma Marie Smith**

Required Courses

Second Year

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

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

Fourth Year

CP 650. Clinical Pathology. 1 hour spring.

Lectures and demonstrations, dealing with recent developments in laboratory methods applicable to the practice of medicine. 1 hour a week; 12 hours.

Elective Courses

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

CP 521. Radioisotope Techniques. 1 hour each term, fall and winter.

Lectures and demonstration 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.

DIVISION OF EXPERIMENTAL BIOLOGY

William Montagna, Head of Division.

Professor: **William Montagna**.

Associate Professors: **Robert M. Brenner** (Primate Center), **Wolf H. Fahrenbach** (Primate Center).

Assistant Professor: **J. Peter Bentley**.

Instructor: **Mary Bell** (Primate Center).

DEPARTMENT OF MEDICAL PSYCHOLOGY

Joseph D. Matarazzo, Chairman of Department

Professors: **Frederick H. Kanfer**, **Joseph D. Matarazzo**, **George Saslow** (Psychiatry), **Richard F. Thompson**

Clinical Research Professor: **Loring F. Chapman**

Associate Professors: **Robert D. Boyd**, **F. Robert Brush**, **Robert W. Goy** (Primate Center), **James E. Lindemann**, **Ruth G. Matarazzo**, **Jeanne S. Phillips**, **Charles E. Phoenix** (Primate Center), **Arthur N. Wiens**

Assistant Professors: **Bruce V. Butler**, **Robert D. Fitzgerald**, **Constance Hanf**, **John O. Kangas**, **David S. Phillips**

Instructor: **Leif G. Terdal**

Clinical Instructor: **Buell E. Goocher**

Residents: **James K. Mikawa**, **Paula J. Rohrbaugh**

Required Course

First Year

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

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

Elective Courses

Med Ps 501. Research. Any term, hours to be arranged.

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

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

Physiology of Motivation	Human Learning
Neurophysiology of Learning	Conditioning
Sensory Processes	Cognitive Processes
Psychopharmacology	Comparative Psychology
Hormones and Behavior	Sensory Development
Glandular Physiology and Behavior	Developmental Psychology
Verbal Behavior	Learning and Motivation
Social Psychology	Quantitative Methods
Social Process Applications	Laboratory Methods
Individual Behavior Modification	Computer Methods
Abnormal Psychology	

Med Ps 511. Statistics. 3 hours fall.

Survey of elementary statistical methods, necessary for research, including measurement, central tendency, variability, probability, sampling, inference, large sample theory, t , x^2 , F , and nonparametric techniques.

Med Ps 512. Research Design. 3 hours winter.

Survey of applications of analysis of variance technique to problems of experimental design, including independent and repeated measures, latin square, trend analysis, orthogonal polynomials, and more general topics of experimental design.

Med Ps 513. Advanced Statistics. 3 hours spring.

Analysis of the foundations of measurement, quantitative methods, correlation and regression theory, factor analysis, basis of psychophysical methods, set theory, and special topics.

DESCRIPTION OF COURSES

Med Ps 514. **Sensation and Perception.** 3 hours fall.

Review of the basic psychophysical and neurological mechanisms of audition, somatic senses, vision, olfaction, and gustation, followed by a survey of the major experimental and theoretical works in perception.

Med Ps 515. **Learning and Conditioning.** 3 hours fall.

An intensive and critical examination of evidence relating to basic learning phenomena in both humans and animals, with major emphasis on the following problems: classical and instrumental conditioning, primary and secondary reinforcement, generalization, discrimination, and motivation.

Med Ps 516. **Motivation.** 3 hours winter.

Systematic survey of the role of the concept of motivation in behavior theory including an examination of criteria for identifying motivational variables and the logic of drive quantification; effects of primary and secondary sources of drive on performance, associative alternatives to motivational concepts; motivation and perception, motivational consequences of frustration and conflict, and the exteroceptive drives of curiosity and exploration.

Med Ps 517. **History of Psychology.** 3 hours summer.

History of psychology from the times of the early Greek philosophers to the contemporary period; special emphasis on such prominent historical developments in psychology as structuralism, functionalism, associationism, behaviorism, Gestalt psychology, and psychoanalysis.

Med Ps 518. **Physiological Psychology.** 3 hours winter.

Survey of the basic literature in the field, with emphasis on the role of the central nervous system in behavior; fundamentals of neuroanatomy and neurophysiology basic to physiological psychology.

Med Ps 519. **Theories of Personality.** 3 hours spring.

Critical review of the major theories of personality, including current behavioral approaches, and empirical evidence supporting these theories.

Med Ps 520. **Individual Differences.** 3 hours summer.

Introduction to individual differences in humans, their distribution in the general population, and methods of measuring such differences in intelligence, personality, aptitudes, interests, and other traits; characteristics of good tests, and their uses and limitations.

Med Ps 521. **Theories of Learning.** 3 hours spring.

Analysis and comparison of the major theories of learning, covering the logical and systematic properties as well as their empirical foundations.

DEPARTMENT OF PATHOLOGY

Sefton R. Wellings, Chairman of Department

Professors Emeriti: **Warren C. Hunter**, **Frank R. Menne**

Professors: **Benjamin V. Siegel**, **Sefton R. Wellings**

Clinical Professor: **Vinton D. Sneeden**

Associate Professors: **Robert A. Cooper**, **Peter J. Dawson**, **Wilbur P. McNulty** (Primate Center), **Nelson R. Niles**

Associate Clinical Professors: **Russell C. Henry**, **Sheldon A. Jacobson**, **E. Cotton Meek**, **Joseph E. Nohlgren**

Assistant Professors: **George C. Buchan**, **Adam W. Lis**, **Daljit S. Sarkar** (Veterans Hospital), **Richard E. Tracy**

Assistant Clinical Professors: **Clarence L. Chester**, **Terence H. Cochran**, **Ott R. Emig**, **William L. Lidbeck**, **Albert A. Oyama**, **John C. Smith**, **I. Grier F. Starr**

Clinical Associate: Norman H. Rickles

Instructors: Robert E. Brooks,* Virginia L. Jentoft, James deWitt Rankin

Clinical Instructor: James R. Orendurff

Residents: Robert D. Cardiff, Richard V. Crisera, Richard T. Gourley, Darwin C. Lehfeldt, Robert F. Malison, James B. Sawyer, Joyce Walker

Required Courses

Second Year

Pth 511. **General and Systemic Pathology.** 5 hours fall, 5 hours winter, 3 hours spring.

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. Winter and spring: continuation of the study of disease states of the various body systems. Fall: lectures and recitations, 3 hours a week; laboratory, 6 hours a week. Winter: lectures, 3 hours a week; laboratory, 6 hours a week. Spring: lectures, 2 hours a week; laboratory, 4 hours a week. 288 hours.

Third Year

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

Fourth Year

Pth 650. **Clinical Pathological Conference.** ½ hour winter.

Discussions of the clinical and pathological features of selected cases. 1 hour a week; 12 hours.

Pth 653. **Forensic Medicine.** 2 hours fall.

Lectures and demonstrations of medicolegal and allied subjects. 2 hours a week; 24 hours.

Elective Courses

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

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

Pth 507. **Seminar.** Spring 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 519. **Introduction to Electron Microscopy.** 2 hours fall.

An introductory course including illustrated lectures and demonstrations dealing with the electron microscope, its technical operations, and broad applications in biological studies and research. Offered alternate years.

* On leave of absence June 24, 1965 to June 13, 1966.

DESCRIPTION OF COURSES

Pth 520. Principles and Techniques of Tissue Culture. 2 hours fall.

Lectures, demonstrations, and conferences dealing with techniques of cell and tissue culture; designed to provide a background of general information on cultured cells and instruction in application of the method to problems in current areas of research in cell biology. Offered alternate years.

Pth 521. Biology of Cancer. 1 hour spring.

Lectures and discussions on the natural history of cancer, geographic and ethnologic aspects, tumor genetics, and etiologic concepts and mechanisms of carcinogenesis.

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.

DEPARTMENT OF PHARMACOLOGY

Norman A. David, Chairman of Department

Professors: **Norman A. David**, **Elton L. McCawley**

Associate Professor: **John D. Gabourel**

Associate Clinical Professor: **H. Lenox H. Dick**

Assistant Professor: **Robert E. Brummett**

Instructor: **Kaye E. Fox**

Clinical Instructor: **Anton C. Kirchhof**

Research Associate: **Melvin M. Reeves***

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.

General Principles of Pharmacology.

Drug Metabolism.

Molecular Pharmacology.

Pharmacogenetics.

Advanced Cardiovascular Pharmacology.

Phc 507. Seminar. 2 hours spring.

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

* On leave of absence.

DEPARTMENT OF PHYSIOLOGY

John M. Brookhart, Chairman of Department

Professor: **John M. Brookhart**

Associate Professors: **Alfred J. Rampone, Benjamin B. Ross, Robert E. Swanson, Joseph B. Trainer**

Research Associate: **P. L. Parmeggiani**

Research Assistants: **J. Craig Hambleton, William R. Rencken**

Clinical Research Associates: **George M. Austin, Monte A. Greer, Donald M. Pitcairn, Moses E. Steinberg**

Required Courses

First Year

Phy 411. Human Physiology. 8 hours spring.

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

Second Year

Phy 412. Human Physiology. 6 hours fall.

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

Elective Courses

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

Prerequisite: Phy 411, 412.

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

Prerequisite: Phy 411, 412.

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

Prerequisite: Phy 411, 412.

Phy 514. History of Physiology. 1 hour winter.

One hour a week; 12 hours.

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

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

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

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

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

Topics include: Fick's first and second laws of diffusion; membrane effects (diffusion of ions through an electrical field, molecular sieving, carrier-mediated diffusion, active transport, osmosis through "leaky" membranes); irreversible thermodynamic treatment of diffusion processes. Pertinent examples from the literature on artificial membranes, frog skin, muscle capillaries, and the renal tubule. Discussion of methods of study of renal function (clearance, micropuncture, "stop flow," and slice techniques) and the counter-current hypothesis for concentration of urine solutes. Reading from monographs and original literature. Conference, 3 hours a week; laboratory, 6-hour periods on alternate weeks. 72 hours. Prerequisites: Phy 411, 412, calculus, physical chemistry.

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

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

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

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

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

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

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

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

Clinical Sciences

DEPARTMENT OF MEDICINE

Howard P. Lewis, Chairman of Department

Professors Emeriti: Blair Holcomb, Noble Wiley Jones, Lyle B. Kingery, Merl L. Margason, Homer P. Rush

Professors: David W. E. Baird, John A. Benson, Jr., Richard L. Dobson, Monte A. Greer, Herbert E. Griswold, Hance F. Haney, Charles N. Holman, Funan Hu (Primate Center), Robert D. Koler, Daniel H. Labby, Howard P. Lewis, Walter C. Lobitz, James Metcalfe, Edwin E. Osgood, Demetrios A. Rigas (Experimental Medicine), Donald M. Pitcairn, Leonard W. Ritzmann (Veterans Hospital), Arthur J. Seaman, Raymond R. Suskind, Roy L. Swank, John R. Walsh (Veterans Hospital)

Clinical Professors: Huldric Kammer, George B. Long, Leon F. Ray, Thomas S. Saunders, William H. Sheldon, Sheldon A. Walker

Associate Professors Emeriti: Isidor C. Brill, Merle W. Moore, Matthew C. Riddle

Associate Professors: James H. Austin, Daniel M. Bachman, Robert H. Bigley, Jarvis Gould, John B. Isom, Richard T. Jones, Manuel R. Malinow (Primate Center), Robert E. Mass (Veterans Hospital), James F. Morris (Veterans Hospital), Bernard Pirofsky, Frederic W. Smith (Veterans Hospital), James T. Speros, Janice R. Stevens, Joseph B. Trainer, Zoltan T. Wirtschafter (Veterans Hospital)

Associate Clinical Professors: Frank W. Crowe, Joyle Dahl, Robert S. Dow, Frank Perlman, Edward E. Rosenbaum, Philip Selling, John E. Tuh, Franklin J. Underwood

Assistant Professors: Richard E. Bailey, Michael D. Baird, Ernest J. Benner, J. David Bristow, C. Conrad Carter, Miles J. Edwards, Jack H. Fellman (Neurochemistry), Robert D. Goldman, Myron R. Grover, Jr., Kenneth M. Halprin, Gordon D. Haynie (Veterans Hospital), Frederick Hecht, Donald G. Kassebaum, John W. Kendall, Louis Lino, Richard B. Lyons, Robert D. Michel, William A. Neill, Robert H. Persellin, George A. Porter, John Gordon Roth (Primate Center)

Assistant Clinical Professors: Kurt W. Aumann, Samuel T. Beall, Arthur W. Berg, George A. Boylston, Paul R. Burgner, Charles W. Coffen, Aubrey M. Davis, Stella Fisher, John R. Flanery, Donald E. Forster, William P. Galen, Marvin C. Goldman, Morton J. Goodman, Marcus M. Horenstein, Jay C. Hoyt, William W. Hurst, Frederick A. J. Kingery, Marion L. Krippaehne, John J. Krygier, Aarne J. Lindgren, Ernest T. Livingstone, Laurence MacDaniels, John Clifton Massar, Roy R. Matteri, Donald E. Olson, Otto C. Page, Joseph F. Paquet, George M. Robins, Leonard B. Rose, Marvin Schwartz, John L. Soelling, John W. Stephens, William J. Sweet, David K. Taylor

Associates: Max A. Forse (Veterans Hospital), Peter J. Galante (Veterans Hospital)

Clinical Associates: William S. Beck, Arthur M. Bergman, John A. Blanchard, William Cohen, Virgil F. Fairbanks, Robert L. Hare, Thomas S. Healy, Richard H. Kosterlitz, Lewis J. Krakauer, Paul O. Kretschmar, Walter J. Kuhl, Merle M. Kurtz, Charles E. Littlehales, Gordon L. Maurice, Guy R. McCutchan, Raymond A. McMahon, Norbert E. Medved, Thomas E. Morris, Jr., John J. Murphy, John D. O'Hollaren, John W. Partridge, Roy A. Payne, Heyes Peterson, Ralph Reaume, James A. Riley, Robert E. Rinehart, Wayne R. Rogers, Bernard F. Ryan, William C. Scott, Will L. Senders, John M. Shaw, Charles W. Watkins, John B. Wild

Instructors: Sidney Brownstone, Clifford A. Fratzke, Thomas S. Fujita, Jack H. Hutchinson, Robert E. Kellum, Frank E. Kloster, Henrik A. B. Lundh (Veterans Hospital), Winston E. Maxwell

Clinical Instructors: Philip E. Blatt, Donald B. Bowman, Michael T. H. Brodeur, Richard B. Byrd,* John D. Chase, Bruce R. Chenoweth, Rodney L. Crisp, Conrad A. DeLateur, William E. Drips, Jr., Harold P. Dygert, Jr., Leo J. Freiermuth, David C. Frisch, Leonard M. Goldberg, Robert H. Gray, Richard L. Harris, Thomas M. Haun, William J. Hemphill, L. William Larson, Stephen W. Maks, Harry W. Masenhimer, Ruth L. Mercer (Dietetics), William R. Olson, Carl A. Petterson, Charles T. Pinney, Robert G. Pittenger, Beatrice K. Rose, Irvin F. Rumbaugh, David R. Rullman, Herbert J. Semler, Ralph E. Shambaugh, Kent Ronald Smith, Roy Glenn Snodgrass, Charles E. Spray, George V. Squire, Ralph R. Sullivan, Donald W. Sutherland, Robert D. Wilson, James V. Woodworth.

Residents: Alan W. Ames, Emil J. Bardana, Jr., John P. Conder, Donald G. Edwards, William G. Friesen, Karl H. Hempel, Paul Q. Hull, John C.

* On leave for military service.

Hylen, Walter J. McDonald, Perry R. Sloop, Jr., Roger G. Smith, Kenneth I. Sutherland, Richard C. U'Ren, Fredric J. Van Rheen, William W. Walden

DIVISION OF CARDIOLOGY

Herbert E. Griswold, Head of Division

Professor Emeritus: **Homer P. Rush**

Professors: **Herbert E. Griswold, Hance F. Haney, James Metcalfe,* Leonard W. Ritzmann** (Veterans Hospital)

Associate Professor Emeritus: **Isidor C. Brill**

Associate Professor: **Manuel R. Malinow** (Primate Center)

Associate Clinical Professors: **Philip Selling, Franklin J. Underwood**

Assistant Professors: **J. David Bristow, Donald G. Kassebaum, William A. Neill, George A. Porter**

Assistant Clinical Professors: **Charles W. Coffen, Aubrey M. Davis, William P. Galen, Leonard B. Rose, Marvin Schwartz, William J. Swett**

Clinical Associates: **William W. Hurst, Gordon L. Maurice, Ralph Reaume, James A. Riley, Wayne R. Rogers, John B. Wild**

Instructor: **Frank E. Kloster**

Clinical Instructors: **Leonard M. Goldberg, Irvin F. Rumbaugh, Herbert Semler, Donald W. Sutherland**

Fellows: **Wesley R. Jacobs, Kenneth I. Sutherland**

Research Associates: **Kenneth B. Cairns, Charles R. Peterson**

DIVISION OF CHEST DISEASES

Donald M. Pitcairn, Head of Division

Professor: **Donald M. Pitcairn**

Associate Professors: **James F. Morris** (Veterans Hospital), **James T. Speros**

Associate Clinical Professor: **John E. Tuhy**

Assistant Professors: **Miles J. Edwards, Robert D. Michel**

Assistant Clinical Professor: **Donald E. Olson**

Associates: **Max A. Forse** (Veterans Hospital), **Peter J. Galante** (Veterans Hospital)

Clinical Associate: **William Cohen**

Clinical Instructor: **Charles T. Pinney**

Research Assistants: **Berit Bertilson, Joanne MacAskill**

DIVISION OF DENTAL AND ORAL MEDICINE

Harold J. Noyes, Head of Division

Clinical Professor: **Harold J. Noyes**

Clinical Associates: **Eugene O. Kelley, Donald F. Kelly** (Pedodontics), **Jan J. Muller, Duane R. Paulson, Donald R. Porter, Norman H. Rickles, Bhim S. Savara, Evelyn M. Strange, Cecil A. Van Kleek, Wilbur N. Van Zile**

* Oregon Heart Association Chair of Cardiovascular Research.

Clinical Instructor: **Robert J. Bruckner, John P. Dickson, John S. Gullikson, John Paul Jarabak, James T. Rule**

DIVISION OF DERMATOLOGY

Walter C. Lobitz, Jr., Head of Division

Professor Emeritus: **Lyle B. Kingery**

Professors: **Richard L. Dobson, Funan Hu** (Primate Center), **Walter C. Lobitz, Jr., Raymond R. Suskind**

Clinical Professors: **Leon F. Ray, Thomas S. Saunders, Sheldon A. Walker**

Associate Clinical Professors: **Frank W. Crowe, Joyle Dahl**

Assistant Professor: **Kenneth M. Halprin**

Assistant Clinical Professors: **Frederick A. J. Kingery, John Clifton Massar**

Clinical Associates: **Bernard F. Ryan, John M. Shaw, Charles W. Watkins**

Instructor: **Robert E. Kellum**

Clinical Instructors: **Bruce R. Chenoweth, Conrad A. DeLateur, David C. Frisch, William J. Hemphill, Albert E. Larner, Ralph R. Sullivan**

Research Associate: **Doris E. Brophy**

Research Assistants: **Mary Campbell, Mary Lou Pearson, Jane Snively, Kathe Strangfeld**

Fellows: **George R. Brown, Walter G. Larsen, Akira Ohkawara, Jeffrey Pinto**

Residents: **Vernon R. Atkinson, William A. Dodd, Frances J. Judy, William R. Levis, Paul S. Russell, Cecil Sigal, Stephen Silver**

DIVISION OF DIABETES AND METABOLISM

Daniel H. Labby, Head of Division

Professor: **Daniel H. Labby**

Assistant Professor: **Richard E. Bailey**

Assistant Clinical Professors: **Marcus M. Horenstein, Otto C. Page, John W. Stephens**

Clinical Associate: **Robert L. Hare**

Instructor: **Jack H. Hutchinson**

Fellow: **Ward E. Dickey, Jr.**

Research Assistants: **Beverly H. Leaman, Helen P. Pieters**

DIVISION OF ENDOCRINOLOGY

Monte A. Greer, Head of Division

Professor: **Monte A. Greer**

Clinical Professor: **Huldrick Kammer**

Assistant Professor: **John W. Kendall, Jr.**

Assistant Clinical Professors: **Kurt W. Aumann, Ernest T. Livingstone**

Clinical Instructor: **Philip E. Blatt**

Research Fellows: **Kornel Fendler, Akio Kajihara**

Research Assistants: **Catherine Allen, Yvonne Grimm, Ann Stott**

DIVISION OF GASTROENTEROLOGY

John A. Benson, Jr., Head of Division

Professor: **John A. Benson, Jr.**

Clinical Professor: **George B. Long**

Associate Professor: **Frederic W. Smith** (Veterans Hospital)

Assistant Clinical Professors: **George A. Boylston, Marvin C. Goldman, John J. Krygier, John L. Soelling**

Clinical Associates: **Thomas S. Healy, Lewis J. Krakauer, Norbert E. Medved, Heyes Peterson**

Clinical Instructor: **Leo J. Friermuth, Thomas M. Haun**

Fellow: **Hong Kian Tjioe**

DIVISION OF HEMATOLOGY AND EXPERIMENTAL MEDICINE

Robert D. Koler, Head of Division

Professors: **Robert D. Koler, Edwin E. Osgood, Demetrios A. Rigas** (Experimental Medicine), **Arthur J. Seaman**

Associate Professors: **Robert H. Bigley, Richard T. Jones, Bernard Pirofsky**

Assistant Professors: **Robert D. Goldman, Frederick Hecht, Richard B. Lyons**

Research Associates: **Bernadine Brimhall, Marie L. Duerst, Virginia Tisdale, John Brooke**

Research Assistants: **Anne August, Ingrid Baume, John McDermod, James Beck, Katherine Pratt, Richard Wright**

DIVISION OF IMMUNOLOGY, ALLERGY, AND INFECTIOUS DISEASES

Bernard Pirofsky, Head of Division

Associate Professor Emeritus: **Merle W. Moore**

Associate Professor: **Bernard Pirofsky**

Associate Clinical Professor: **Frank Perlman**

Assistant Professor: **Ernest J. Benner**

Assistant Clinical Professors: **Roy R. Matteri, George M. Robins**

Clinical Associate: **John D. O'Hollaren**

Clinical Instructor: **George V. Squire**

DIVISION OF NEUROLOGY

Roy L. Swank, Head of Division

Professor Emeritus: **Merl L. Margason**

Professor: **Roy L. Swank**

Associate Professors: **James H. Austin, John B. Isom, Janice R. Stevens**

Associate Clinical Professor: **Robert S. Dow**

Assistant Professors: **C. Conrad Carter, Jack H. Fellman** (Neurochemistry), **Louis Lino, John Gordon Roth** (Primate Center)

Instructor: **Thomas Fujita**

Clinical Instructor: **Roy Glenn Snodgrass**

Research Associate: **Victor Milstein**

Residents: **Paul W. Jones, Hussain M. Sajid, Nauniha Singh**

DIVISION OF RHEUMATOLOGY

Daniel M. Bachman, Head of Division

Associate Professor: **Daniel M. Bachman**

Associate Clinical Professor: **Edward E. Rosenbaum**

Assistant Professor: **Robert E. Persellin**

Assistant Clinical Professor: **David K. Taylor**

Clinical Associates: **Paul O. Kretschmar, Robert E. Rinehart**

Fellow: **Yoshio Shimazaki**

Research Assistants: **Belle Canon, Laurel Wilson**

Internal Medicine—Required Courses

Second Year

Med 612. Physical Diagnosis. 3 hours each term, fall, winter, and spring.

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

Third Year

Med 630. Third-Year Medicine. 21½ hours.

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

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

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

Fourth Year

Med 657. Toxicology and Occupational Medicine. 1 hour fall.

Lectures and demonstrations dealing with important industrial health hazards and diseases. 1 hour a week; 12 hours.

Med 658. Medical Economics. 1 hour spring.

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

Med 670. Fourth-Year Medicine. 15 hours, one section each term.

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

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

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

Conference on Medical Therapy (lecture), 1 hour a week, fall, winter, and spring; 36 hours. General Clinical Conference, 2 hours a week, in sections; 24 hours. General Internal Medicine Outpatient Clinic, 15 hours a week for 6 weeks; 9 hours a week for 6 weeks; 144 hours. (In addition, each student spends 6 hours a week for 6 weeks in Derm 610, Dermatology Outpatient Clinic; 36 hours.) Subspecialty clinics, 10 hours a week; 130 hours. Lectures, 36 hours; clinics and conferences, 288 hours. 324 hours.

Internal Medicine—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 head 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.

In the fourth year elective credit is given for completion of clinical work in the department in addition to that required in the regular Outpatient Clinic course.

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

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

Med 693. Human Genetics. 1 hour spring term.

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

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

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

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

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

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

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

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

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

Students are 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.

Dental and Oral Medicine—Required Course

Third Year

DM 650. Dental Facial Growth and Oral Pathology. 1 hour spring.

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

Dermatology—Required Courses

Third Year

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

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

Fourth Year

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

Utilization of outpatient material; clinical and microscopic diagnostic procedures; general therapy. 6 hours a week for 6 weeks; 36 hours.

Neurology—Elective Courses

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

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.

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

Ralph C. Benson, Chairman of Department

Professors: **Ralph C. Benson**, **Howard J. Tatum**

Clinical Professor: **Howard C. Stearns**

Associate Professors: **Antonio E. Colas**, **Raphael B. Durfee**

Associate Clinical Professors: **Clifford Fearl**, **Gunnar E. C. Nelson**, **Duncan R. Neilson**, **Goodrich C. Schauflier**, **William M. Wilson**

Assistant Professors: **Edward N. Peterson**, **Frank Shubeck**

Assistant Clinical Professors: **Theodore M. Bischoff**, **Roderick C. Blatchford**, **Melvin W. Breese**, **W. Ronald Frazier**, **Remy W. Fulsher**, **William L. Hartmann**, **David W. James**, **Gerald E. Kinzel**, **George H. Lage**, **F. Keith Markee**, **Alfred N. Marshall**, **J. Oppie McCall, Jr.**, **Max H. Parrott**, **Jesse L. Ray**, **William O. Thomas**, **James M. Whitely**

Clinical Instructors: **Phillip S. Alberts**, **Richard N. Bolton**, **LeRoy S. Casper**, **Charles L. Chavigny**, **C. Louise Clancy**, **Betty Jo Davenport**, **Enrique M. DeCastro**, **James W. Fergus**, **Richard W. Franklin**, **Malcolm E. Fuller**, **Robert B. Greene**, **George S. Hara**, **Philip H. Henderson, Jr.**, **William W. Hicks, Jr.**, **Robert C. Jackson**, **Benjamin B. Jones**, **Joseph C. Mitchell**, **David W. Moore**, **Quinten Scherman**

Residents: **John O. Bergstrom**, **Raymond S. Corwin**, **Peter L. Crandall**, **Kirk E. Evans**, **Mark R. Hanschka**, **Blaine L. Hoskins**, **Harry A. Lee**, **Barbara A. Manildi**, **Burritt W. Newton**, **Martin L. Pernoll**, **George F. Will, Jr.**

Required Courses

Third Year

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

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

Outpatient clinic work in obstetrics includes prenatal and postnatal clinics. A special obstetric problem clinic considers complications of pregnancy. Gynecology outpatient clinics provide opportunity for the examination and study of patients, and experience with problems of office gynecology, postopera-

tive follow-up and cancer detection. Gynecological oncology and pathology are demonstrated.

Lectures, 2 hours each week, fall and winter terms, 48 hours. Obstetrics outpatient clinics, 18 hours a week for 6 weeks, manikin demonstrations, 2 hours a week for 6 weeks, in sections, 120 hours; gynecology outpatient clinics, 6 hours a week for 6 weeks, in sections, 36 hours. 204 hours.

Fourth Year

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

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

Obstetrical cases in the hospital examined and followed; active participation in ward rounds and teaching conferences. Each student must observe 12 deliveries, participate in at least 6 deliveries, and follow the course of the mother and child during an assigned period. Students also examine and follow assigned gynecological hospital patients and participate in ward rounds and conferences. Attendance at gynecology tumor outpatient clinic and therapy conference once weekly is required.

Obstetrics and Gynecology Clerkship, 33 hours a week for 6 weeks, in sections; 198 hours. Gynecology tumor clinic, 4 hours a week for 6 weeks, in sections; 24 hours. General Clinical Conference, 2 hours a week for 6 weeks; 12 hours. 234 hours.

Elective Courses

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

Obs-Gyn 607. **Obstetrics Seminar.** Any term, hours to be arranged.

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

Obs-Gyn 690. **Obstetrics and Gynecology Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements in the regular obstetrics and gynecology outpatient clinic courses.

DEPARTMENT OF OPHTHALMOLOGY

Kenneth C. Swan, Chairman of Department

Professor Emeritus: **Augustus B. Dykman**

Professor: **Kenneth C. Swan**

Clinical Professor: **E. Merle Taylor**

Associate Professors: **Robert P. Burns**, **Leonard Christensen**

Assistant Professors: **Marvin C. Hines**, **Virginia L. Weimar**

Assistant Clinical Professors: **Robert V. Hill**, **John P. Keizer**, **Edward N. McLean**, **Thomas E. Talbot**, **Robert W. Zeller**

Clinical Associates: **Paul F. Bailey**, **Robert H. Bedrossian**, **W. Leigh Campbell**, **Walter R. Enders**, **Robert E. Fischer**, **Alfred J. Kreft**, **George P. Lyman**, **Richard E. Markley**, **Joseph I. Moreland**

Instructors: **Donald R. Johnson**, **K. Nolan Tanner**

Clinical Instructors: **Robert C. Cowger**, **Clyde H. Duvall, Jr.**, **Robert F. Haney**, **Richard A. Lalli**, **Paul J. Robinson**, **Gerald A. Terman**

Residents: William F. Farr, Frederick Fraunfelder, Terry L. Hansen, Robert Kalina, Alvin M. Klass, Pirooska Olga Kramar, Sam L. Meyer, Robert N. Page, James A. Saunders, Henry J. L. Van Dyk

Required Courses

Third Year

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

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

Fourth Year

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

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

Eye 670. **Fourth Year Eye.** 3 hours, one section each term.

Student participation for two weeks in the patient-care programs in the adult and children's eye service. Demonstration and use of instruments and techniques for ophthalmic diagnosis and treatment. Part of the course is devoted to the study of ophthalmic manifestations of systemic diseases. 36 hours a week for 2 weeks; 72 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):

DEPARTMENT OF OTOTOLOGY, RHINOLOGY, AND LARYNGOLOGY

David D. DeWeese, Chairman of Department

Professor: David D. DeWeese

Clinical Professors: Paul Bailey, George E. Chamberlain, Robert M. Hansen, Lester T. Jones

Assistant Professors: Robert E. Brummett, Patrick J. Doyle, T. Glenn Ten Eyck (Veterans Hospital)

Assistant Clinical Professors: William M. Bolton, Lewis W. Jordan, Clifford Kuhn, Donald C. Mettler, Paul B. Myers, Bruce L. Titus

Clinical Associates: H. Victor Adix, George C. Saunders

Clinical Instructors: Oscar C. Chowning, Jr., Robert R. Cooper, Byron L. Fortsch, Patricia A. Hahn (Speech Correction), Richard A. Hodgson, Donald H. Holden, Warren E. Johnson (Audiology), Darrell W. Landrey, Richard P. Panian, Alexander E. Petroff

Residents: Lester L. Bergeron, Rupert O. Brockmann, Richard S. Egan, Edwin C. Everts, George H. Fettus, Donald H. Heithecker, James D. Imbrie, Edward L. Korn, G. Thomas Miller

Required Courses

Third Year

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

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

Fourth Year

ENT 670. **Fourth-Year Ear, Nose, and Throat.** 3 hours, one section each term.

Inpatient hospital rounds and bedside teaching, outpatient examination, diagnosis, use of special instruments and treatment programming under supervision, and workup of patients and assigned problems. In addition to the inpatient and outpatient examinations, surgical cases are followed to the operating room and afterwards. Selected time is given to textbook review and basic anatomy. The student is also introduced to the problems of the hard of hearing from diagnostic, treatment and rehabilitation viewpoints, including special education. Clerkship, 25 hours a week for 2 weeks; Outpatient Clinic, 11 hours a week for 2 weeks. 72 hours.

Elective Courses

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

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

DEPARTMENT OF PEDIATRICS

Richard W. Olmsted, Chairman of Department

Professors: Herold S. Lillywhite (Speech Pathology), Richard W. Olmsted, Richard L. Sleeter

Clinical Professor: Joseph B. Bilderback

Associate Professors: S. Gorham Babson, William M. Clark, Jr., George W. Dana, Rudolf C. H. Engel, John B. Isom, Martin H. Lees, Robert J. Meechan, Victor D. Menashe, L. Paul Rasmussen

Associate Clinical Professors: Morris L. Bridgeman, Daniel K. Billmeyer, Scott Goodnight, Alvin D. Wert

Assistant Professors: Richard E. Behrman (Primate Center), Robert W. Blakeley (Speech Pathology), Doris P. Bradley (Speech Pathology), Robert A. Campbell, Leroy O. Carlson, Kathrine S. French (Anthropology), Frederick Hecht, Harvey D. Klevit, Norton B. Young (Audiology)

Assistant Clinical Professors: Carl G. Ashley, John H. Benward, John W. Bussman, Quinten W. Cochran, Walter A. Goss, John R. Hansen, Joseph T. Hart, Edward L. Hendricks, Peter L. Hurst, John A. Larrabee, David W. Macfarlane, John Arthur May, George A. Nash, Edgar M. Rector, George J. Schunk, Lendon H. Smith, William M. Snook, John H. Springer, John L. Stevenson, Clemens W. Van Rooy, Charles Varga, George F. Walliker, James P. Whittemore

Instructors: Wilma L. Carson, Warren H. Fay (Speech Pathology), Roberta S. Murray (Speech Pathology), Havelock Thompson, Emily Tufts

Clinical Instructors: John R. Berry, Henry L. Boehnke, Allen K. Chappell, Morton G. Eleff, Lynd L. Folts, William E. Hill, Frank M. Jacobson, Donald F. Kelly, Arthur D. Kracke, Oliver H. Massengale, Robert A. Mendelson, Eddie S. Moore, Marilyn A. Nelson, David L. Sessions, George S. Smith, Robert E. Thornfeldt

Residents: William J. Austin, Gerda Benda, Calvin C. Clark, Joseph P. Klein, Louis L. Murdock, Michael J. Noonan, Bert T. Reed, Lawrence W. Wolf

Required Courses

Third Year

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

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

Fourth Year

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

The student continues his study of pediatrics in an outpatient clinic setting and participates actively, under staff supervision, in the study and care of pediatric patients in the various pediatric clinics. Part of his time is spent in the general pediatric outpatient clinic, and the remainder in the specialty clinics of pediatrics, each of which meets 2 hours each week for 6 weeks. The specialty clinics are Allergy, Cardiology, Endocrinology, Hematology, Mental Health, Metabolism, Neurology, Renal, and Well Baby. Individual and group discussions are held in all clinics. General Pediatric Outpatient Clinic, 16 hours a week for 6 weeks, in sections; 96 hours. Specialty Clinics, 20 hours a week for 6 weeks, in sections; 120 hours. 216 hours.

Elective Courses

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

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

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

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

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

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

DEPARTMENT OF PSYCHIATRY

George Saslow, Chairman of Department

Professors: Samuel Irwin (Pharmacology), Joseph D. Matarazzo (Medical Psychology), George Saslow

Clinical Professors: Herman A. Dickel, Henry H. Dixon, Sr.

Associate Professor: Paul H. Blachly

Associate Clinical Professors: Charles Bradley, John L. Butler, Carl V. Morrison

Assistant Professors: D. Duane Denney, Lena Kenin, Nancy Kosterlitz (Psychiatric Social Work), Ira B. Pauly, Arlen Quan

Assistant Clinical Professors: Thomas T. Bennett, Hans F. Fink, N. B. Jetmalani, Gerhard B. Haugen, Robert L. Mighell, Wayne M. Pidgeon, James G. Shanklin, Robert E. Taubman

Instructors: Alan L. Morgenstern, John S. Tovey (Psychiatric Social Work)

Clinical Instructors: Siegfried R. Berthelsdorf, Charles C. Brown, Robert L. Daugherty, G. Gordon Essert, Grant B. Hughes, Donald McKinley, Seymour R. Moss, Goudarz A. Parvareh, Richard H. Phillips, Mary Anne Smith, Daniel V. Voiss

Residents: Frederick W. Allport, Douglas R. Bottomly, James J. Borphy, George A. Goodman, Richard L. Grant, Richard H. Johnson, Delbert M. Kole, Kenneth G. Paltrow, William H. Sack, Daniel L. Wesche, Diane J. Zeglinski

Required Courses

Second Year

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

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

Third Year

Psy 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.

Psy 630. **Clinical Clerkship.** 1½ hours, one section each term.

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

Fourth Year

Psy 670. **Psychiatry Outpatient Clinic Clerkship.** 2 hours, one section each term.

Supervised experience in interviewing, evaluating, and initiating treatment of patients referred to the Psychiatry Clinic. Lectures and demonstrations dealing with the problems of psychiatric therapy. 4 hours a week; 48 hours.

Elective Courses

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

DEPARTMENT OF PUBLIC HEALTH AND PREVENTIVE MEDICINE

Adolph Weinzirl, Chairman of Department

Professors: **Harold T. Osterud, Adolph Weinzirl**

Assistant Clinical Professor: **Richard H. Wilcox**

Instructor: **Richard L. Lessel**

Clinical Instructors: **Peter J. Batten, Elton Kessel, Thomas L. Meador, Samuel B. Osgood**

DIVISION OF ENVIRONMENTAL MEDICINE

Raymond R. Suskind, Head of Division

Professors: **A. Wesley Horton, Raymond R. Suskind**

Assistant Professor: **Paul A. Van Dreal**

Assistant Clinical Professors: **Hilton W. Rose, Ralph R. Sullivan**

Clinical Instructor: **Darrel D. Douglas**

Required Courses

First Year

- PH 411. **Statistical Methods as Applied to Medicine.** 2 hours spring.
 Introduction to elementary statistics useful in medical practice and research.
 Lectures, 2 hours a week; laboratory, 2 hours a week. 48 hours.

Second Year

- PH 512. **Epidemiology.** 1 hour winter.
 Environmental factors in health and disease, including air, water, excreta, temperature, humidity, ventilation, etc. Lectures and recitations, 1 hour a week. 12 hours.
- PH 513. **Epidemiology.** 3 hours spring.
 Principles of epidemiology illustrated by clinical and epidemiologic aspects of common communicable and other diseases. Lectures and recitations, 2 hours a week; laboratory or clinic, 3 hours a week. 60 hours.

Third Year

- PH 511. **Principles of Public Health.** 2 hours winter, 1 hour spring.
 The general principles of public health activities; control of communicable diseases; organization of Federal, state, local, and other health agencies; elements of infant, school and industrial hygiene; vital statistics. Lectures, recitations, and discussions. 2 hours a week winter, 1 hour a week spring. 36 hours.

Elective Courses

- PH 501. **Research.** Any term, hours to be arranged.
 PH 505. **Reading and Conference.** Any term, hours to be arranged.
 PH 507. **Seminar.** Any term, hours to be arranged.

DEPARTMENT OF RADIOLOGY

Charles T. Dotter, Chairman of Department

Professors: **Charles T. Dotter, Louis H. Frische, Lee B. Lusted** (Primate Center)

Clinical Professor: **William Y. Burton**

Associate Professors: **Marcia K. Bilbao, James B. Haworth, Vincent C. Hinck***

Associate Clinical Professor: **Kurt R. Straube**

Assistant Professor of Radiologic Technology: **Hilda E. Drum**

Assistant Clinical Professors: **Wayne G. Erickson, John L. Howieson, Arthur F. Hunter, John Wayne Loomis, Robert S. Miller, James R. Raines, Fred C. Shipps**

Clinical Associate: **Sherman E. Rees**

Clinical Instructors: **Harry Newman, Gregory B. Nichols, Arthur L. Ovregaard, George F. Satterwhite, Walter R. Stahl, Gordon A. Stoney, Hans G. Wandel, Gerald L. Warnock, Cameron J. Wiley**

Residents: **Eric P. Benson, Lyle E. Crecelius, Welde W. Frey, John J. Gallucci, James E. Massman, Robert Mueller, Joseph V. Scrivani, George Takushi, Robert E. Vann, Richard Zauner**

DIVISION OF RADIOTHERAPY

Clifford V. Allen, Head of Division

Professors: **Clifford V. Allen, Tyra T. Hutchens** (Radioisotopes)

Associate Clinical Professors: **Milton D. Hyman, Selma Hyman, J. Robert Lee**

Assistant Professor: **Harry Shaich** (Radiation Physics)

Assistant Clinical Professor: **Irvin J. Horowitz**

Required Course

Third Year

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

Elective Course

- Rad 690. **Radiographic Diagnosis.** Any term, hours to be arranged.
 Practical experience derived from interpretation of cases from the current files; correction and discussion of student's reports at weekly seminar, final dictation by members of staff; Enrollment limited.

* On leave of absence June 1, 1965 to May 31, 1966 for postgraduate study in Neuroradiology at the Institute of Neurology, National Hospital, Queen Square, London, England.

DEPARTMENT OF SURGERY

William W. Krippaehne, Chairman of Department

GENERAL SURGERY

Professors Emeriti: William K. Livingston, Oliver M. Nisbet, Eugene W. Rockey

Professors: William W. Krippaehne, Clare G. Peterson

Clinical Professors: John C. Adams, Arthur C. Jones (Physical Medicine), Millard S. Rosenblatt, Robert A. Wise

Associate Professors: William S. Fletcher, Stanley W. Jacob, R. Mark Vetto (Veterans Hospital)

Associate Clinical Professors: Allen M. Boyden, Clifford E. Hardwick, Matthew McKirdie

Assistant Professor: James H. Foster (Veterans Hospital)

Assistant Clinical Professors: Harvey W. Baker, Martin A. Howard, Russell L. Johnsrud, John F. Kane, Donald R. Laird, Joseph W. Nadal, John P. Trommald, Edward E. Wayson, Werner E. Zeller

Clinical Associates: John W. Bassett, Harry G. Beckwith, Darrell C. Bollam, John G. P. Cleland, Arch Diack, Thomas J. Fox, William M. Garnjobst, LeRoy E. Groshong, Russell G. Gustavson, Robert W. Marcum, H. Minor Nichols, Joseph M. Roberts, Willard D. Rowland, Dan M. Steffanoff, Nathaniel D. Wilson

Instructors: Daniel L. Dennis, Richard A. Kingsbury, Ralph D. Robertson

Clinical Instructors: Richard P. Andrews, Jack E. Battalia, Frederic H. Bentley, Jack B. Blumberg, Paul M. Brown, Nathan J. Campbell, Keith M. Clisby, Hugh Donald Colver, Peter DeWitt, Harry B. Ditmore, Zanley C. Edelson, Lester H. Eisendorf, Guy W. Gorrell, J. Gordon Grout, Roger W. Hallin, Bernard P. Harpole, John F. Hayes, Theodore L. Hyde, Toshio Inahara, Roderick L. Johnson, Reinhold Kanzler, Gary H. Leaverton, G. Prentiss Lee, Verner V. Lindgren, Richard H. Lindquist, R. Kent Markee, Willard L. Matheison, David B. Miller, Jr., Raymond E. Moore (Physical Medicine), Philip F. Parshley, Jr., Robert W. Patton, Irving Puziss, Daniel L. Reed, Melvin M. Reeves,* Walter C. Reiner, William M. Rosenbaum, Nathan Shlim, Philip A. Snedecor, Eugene S. Sullivan, Robert H. Tinker, Paul Trautman, Alvin O. Uhle, Linton G. Weed, James W. Wiley, Gregg D. Wood

Residents: William C. Awe, Timothy J. Campbell, Richard D. Chapman, James N. Eustermann, Latham Flanagan, Jr., Keith F. Harcourt, Christopher W. Hauge, David L. Haugen, Robert P. Hodam, Jack D. Jefferson, Stuart W. Leafsted, William R. McAllister, U. Scott Page, Mack D. Richey, Ronald S. Spiegle, Donald B. Stark, Russell B. Steele, Kenneth L. Tuttle

DIVISION OF ANESTHESIOLOGY

Feredrick P. Haugen, Head of Division

Professor: Frederick P. Haugen

Associate Professors: John Clarence Roth, Rex J. Underwood

Assistant Professor: David Gowing

Clinical Associate: Ellery L. Landers

* On leave of absence.

Instructor: Betty B. Thompson

Clinical Instructors: John O. Branford, Donald M. Brinton, Genevieve S. Burk, Donald P. Dobson, J. Coleman Edwards, James V. Harber, Marion E. Palmer, Paul E. Schaff

Residents: Jarry J. Bass, Sally H. Davidson, John M. Egan, Alice S. Fuchs, David M. Holmes, Harry L. Keffer, Myrna C. Newland, Lauren K. Stanley, Edward H. Wilson, John B. Zevely

DIVISION OF CARDIOPULMONARY SURGERY

Albert Starr, Head of Division

Professor: Albert Starr

Clinical Professor: William S. Conklin

Assistant Professor: Rodney H. Herr

Assistant Clinical Professors: Lawrence M. Lowell, James A. Wood

Clinical Associates: J. Karl Poppe, Charles H. Sparks, William R. Sweetman, Blair vH. Thatcher

Instructors: John C. Bigelow, Richard G. Sanderson

Fellows: Yukiyasu Sezai, Donald Woodson

DIVISION OF NEUROSURGERY

George M. Austin, Head of Division

Professors: George M. Austin, Philip D. Gordy

Clinical Professor: John Raaf

Associate Clinical Professor: Edward W. Davis

Assistant Professors: Makato Sato, George W. Schemm

Assistant Clinical Professor: Edward K. Kloos

Clinical Instructors: John P. Dennis, Ray V. Grewe, Bruce N. Kvernland, Harold D. Paxton

Residents: Curtis L. Hill, Ralph F. Kamm, Al H. Kuykendall, Mian Mohammad Tahir, Richard E. Weiss

DIVISION OF ORTHOPEDIC SURGERY

William E. Snell, Head of Division

Professors Emeriti: Harry C. Blair, C. Elmer Carlson

Professor: William E. Snell

Associate Clinical Professors: Eldon G. Chuinard, Joe B. Davis, Lawrence Noall, Frank B. Smith

Assistant Professor: Rodney K. Beals

Assistant Clinical Professors: John F. Abele, Roderick E. Begg, Richard F. Berg, Harold E. Davis, Gurney A. Kimberley, Donald B. Slocum

Clinical Associates: Thomas J. Boyden, Paul Campbell, Raymond A. Case, Jr., Lawrence J. Cohen, George W. Cottrell, H. Freeman Fitch, Calvin E. Gantenbein, Joseph H. Gill, Richard J. Hopkins, Orville N. Jones, Calvin H. Kiest, Jr., Laurence R. Langston, James A. Mason, Edwin G. Robinson, Faulkner A. Short

Clinical Instructors: Winfred H. Clarke, Howard L. Cherry, Thomas A. Edwards, Richard P. Embick, Charles A. Fagan, Robert J. Fry, Louis P. Gambee, Howard J. Geist, Samuel F. Gill, Harry E. Groth, John Harder, Carl L. Holm, Robert L. Larson, Norman D. Logan, Robert G. McKillop, Rolland C. Merrifield, Samuel Osborn, Robert M. Rankin, Michael R. Rask, Richard C. Zimmerman

Residents: Michael Baskin, Charles A. Bonnett, McGregor L. Church, Thomas E. Fagan, John W. Gilsdorf, Michael H. Graham, George W. Ingham, Howard E. Johnson, James D. Kunzman, James D. Nelson, John W. Thompson, Frederick D. Wade

DIVISION OF UROLOGY

Clarence V. Hodges, Head of Division

Professor: Clarence V. Hodges

Clinical Professors: John R. Hand, Thomas R. Montgomery

Associate Clinical Professor: J. Scott Gardner

Assistant Professor: Dietrich Kirchheim

Assistant Clinical Professors: Emerson J. Collier, Thomas A. Davis, Charles Ferguson, Robert B. Higgins, Theodore H. Lehman, Curtis A. Macfarlane, Robert J. Moore, Arnold Rustin, John G. Vandenberg

Clinical Associates: G. Donald Beardsley, Robert B. Greene, Jr.

Clinical Instructors: Charles E. Catlow, Jr., Gerry D. Giesy, Luis E. Halpert, Robert L. Kalez, David P. Paull, Ivan L. Sandoz, Gerald W. Schwiebing, Gerald F. Whitlock

Residents: Lyall Crary, Jr., William Y. Duncan, Leland R. Ellis, Thomas C. Honl, Russell K. Lawson, Russell N. Sacco, Dayton R. Seabaugh, Jr., Gary C. Van Galder, James K. Varney

Required Courses

Second Year

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

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

Third Year

Sur 630. **Third-Year Surgery.** 20½ hours.

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

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

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

Lectures in General Surgery (winter and spring), Urology (fall), Orthopedic Surgery (winter), and Anesthesiology (spring); 60 hours. General Surgery Clerkship Clinic, 60 hours; General Surgery Outpatient Clinic, 36 hours; Urology Clerkship, 69 hours; Urology Outpatient Clinic, 24 hours; Orthopedic Surgery Clerkship, 72 hours; Orthopedic Surgery Outpatient Clinic, 21 hours; Neurosurgery Seminar, 12 hours; Regional Anesthesia, 12 hours; Fractures and Joint Injuries Conference, 24 hours; Physical Medicine, 24 hours; Clinical Pathology, 12 hours; 366 hours. 426 hours.

Fourth Year

Sur 670. **Fourth-Year Surgery.** 16 hours.

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

Clerkship experience in neurosurgery is included. Lectures in urology and surgery round out the student's knowledge. The student attends the weekly General Clinical Conference.

Students spend six weeks on General Surgery and two weeks on Neurosurgery. Lectures in Urology (fall) and General Surgery (winter), 24 hours. General Clinical Conference, 24 hours; General Surgical Clinic, 24 hours; General Surgery Clerkship, 216 hours; Neurosurgery Clerkship, 72 hours; 336 hours. 360 hours.

Elective Courses

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

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

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

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

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

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

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

*DESCRIPTION
OF COURSES*

- Orth Sur 601. **Research.** Any term, hours to be arranged.
- Orth Sur 690. **Orthopedic Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements in the regular orthopedic outpatient clinic course.
- Ur 601. **Research.** Any term, hours to be arranged.
- Ur 690. **Urology Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements in the regular urology outpatient clinic course.



5
OTHER
INSTRUC-
TIONAL
PROGRAMS

Medical Technology

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

The minimum admissions requirement is three years of college work, including: 24 term hours of biology; 24 term hours of chemistry, including one full academic year of a general college chemistry course, with lectures and laboratory; and one term of college mathematics. It is strongly recommended that a course in physics be included in the student's college preparation. The three years of prerequisite work may be done in any accredited college; the applicant's credentials must be approved by the Registry prior to admission.

Textbooks and uniforms are supplied by the student. There are a limited number of dormitory rooms for women; application may be made through the Department of Clinical Pathology.

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

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

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

Application for admission forms may be obtained from the Registrar of the Medical School. Applications are accepted between December 1 and May 15.

Fees. Students in medical technology who are residents of Oregon pay a fee of \$114.00 a term; nonresident students pay a fee of \$204.00 a term.

Medical technology students pay the "special fees" listed on page 18 under the conditions indicated.

Fall Term, 1965-66

September 13 through September 18.....Laboratory orientation
September 20, *Monday*.....Registration; instruction begins

* Students expecting to receive the bachelor's degree from the University of Oregon should include 9 hours of English composition and 9 hours of English literature in their preparatory programs. See the University of Oregon Catalog for specific courses that meet the literature requirements.

September 21, *Tuesday*.....Last day for students to pay fees
November 25, *Thursday*.....Thanksgiving Day, holiday
December 4, *Saturday*.....Fall term ends

Winter Term, 1965-66

December 6, *Monday*.....Registration; instruction begins
December 7, *Tuesday*.....Last day for students to pay fees
December 19, 1965 through January 2, 1966.....Christmas vacation;
laboratory instruction continues
March 5, *Saturday*.....Winter term ends

Spring Term, 1965-66

March 14, *Monday*.....Registration, instruction begins
March 15, *Tuesday*.....Last day for students to pay fees
May 28, *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.

Curriculum in Medical Technology

Fall Term

	Term hours
MT 410. Clinical Bacteriology	4
MT 413. Laboratory Orientation	2
MT 424. Clinical Biochemistry	5
MT 430. Principles of Hematology	5
†CP 520. Radioisotope Techniques	1
	17

Winter Term

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

Spring Term

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

† See page 40.

MEDICAL TECHNOLOGY

Tyra T. Hutchens, Director of Medical Technology Program

Mary E. Baptist, Teaching Supervisor

Professor: **Tyra T. Hutchens**

Associate Clinical Professors: **Homer H. Harris, James H. Lium**

Assistant Professors: **James L. Bramhall, Martha L. Hamilton, Gerald J. Lattig, Victor C. Marquardt**

Assistant Clinical Professors: **Eugene W. Landreth, E. Colton Meek, Albert A. Oyama, Nigel A. Pickering**

Instructors: **Mary E. Baptist, John D. Koontz**

Clinical Instructors: **David J. Brown, David S. Takalo**

Assistants to the Teaching Supervisor: **Patricia A. Chadwick, Dorothy B. Chambers, Claudia L. Dudley, Howard W. Green, Carol K. Lindstedt, Wallace H. Matsumura, Kenneth E. Puckett, Alice B. Rossow, Harry Seto**

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

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

MT 413. Laboratory Orientation. 2 hours fall.

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

MT 414. Urinalysis. 4 hours spring.

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

MT 420. Histological Technique. 4 hours spring.

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

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

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

MT 430. Principles of Hematology. 5 hours fall.

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

MT 431. Special Hematology. 3 hours winter.

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

MT 436. Applied Serology. 5 hours spring.

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

MT 437. Clinical Parasitology. 3 hours spring.

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

Elective Courses

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

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

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

Faculty

Mary Elizabeth Baptist, B.A., Instructor in Medical Technology; Teaching Supervisor (1950).

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

James L. Bramhall, M.B., Assistant Professor of Clinical Pathology (1962).

M.B., Ch.B. (1951), Victoria University of Manchester Medical School, England.

†**David J. Brown**, M.D., Clinical Instructor in Clinical Pathology (1963).

B.A. (1952), M.D. (1956), Oregon.

Martha L. Hamilton, M.D., Assistant Professor of Clinical Pathology (1957).

B.S. (1945), Texas Wesleyan; M.D. (1952), Texas.

†**Homer H. Harris**, M.D., Associate Clinical Professor of Clinical Pathology (1951).

B.A. (1942), Reed; M.D. (1945), Oregon.

Tyra T. Hutchens, M.D., Professor of Clinical Pathology and Radiology (Radioisotopes); Chairman of Department of Clinical Pathology (1953).

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

John D. Koontz, B.S., Instructor in Clinical Pathology (1963).

B.S. (1954), Oregon.

†**Eugene W. Landreth**, M.D., Assistant Clinical Professor of Clinical Pathology (1957).

B.S. (1946), M.D. (1948), Oregon.

†**Gerald J. Lattig**, M.D., Assistant Professor of Clinical Pathology (1958).

B.S. (1944), Idaho; M.D. (1949), Oregon.

†**James H. Lium**, M.D., Associate Clinical Professor of Clinical Pathology (1953).

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

Victor C. Marquardt, Jr., M.D., Assistant Professor of Clinical Pathology (1964).

B.A. (1953), Wesleyan; M.D. (1957), Nebraska.

†**Edward Colton Meek, Jr.**, M.D., Assistant Clinical Professor of Clinical Pathology and Associate Clinical Professor of Pathology (1953).

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

†**Albert A. Oyama**, M.D., Assistant Clinical Professor of Pathology and Clinical Pathology (1959).

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

†**Nigel A. Pickering**, M.D., Assistant Clinical Professor of Clinical Pathology (1961).

M.D. (1945), Manitoba.

† Volunteer.

†David S. Takalo, M. S., Clinical Instructor in Clinical Pathology (1956).
B.S. (1941), M.S. (1942), Oregon State.

Assistants to the Teaching Supervisor

Patricia A. Chadwick, B.S., Clinical Bacteriology Technique.
B.S. (1950), Massachusetts; M.T. (ASCP), 1957.

Dorothy B. Chambers, B.S., Clinical Hematological Technique.
B.S. (1958), Maryland; M.T. (ASCP), 1949.

Claudia L. Dudley, B.S., Clinical Chemistry Technique.
B.S. (1958), Oregon; M.T. (ASCP), 1959.

Howard W. Green, Clinical Bacteriological Technique.

Carol K. Lindstedt, B.S., Clinical Immunohematology and Serology Technique.
B.S. (1958), Oregon State; M.T. (ASCP), 1958.

Wallace H. Matsumura, B.A., Clinical Immunohematology and Serology Technique.
B.A. (1952), Hawaii; M.T. (ASCP), 1955.

Kenneth E. Puckett, B.S., Clinical Hematological Technique.
B.S. (1951), Oregon; M.T. (ASCP), 1962.

Alice B. Russow, Specimen Collection Technique.

Harry Seto, B.S., Clinical Radioisotope Technique.
B.S. (1955), Oregon; M.T. (ASCP), 1956; N.M. (ASCP), 1964.

Graduate Studies

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

Recommended Preparation for Graduate Work

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

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

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

† Volunteer.

Bacteriology: general microbiology.

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

Pathology: advanced courses in biology and chemistry.

Pharmacology: physical chemistry, advanced organic chemistry.

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

Medical Psychology: general and advanced psychology.

Medical Technology: M.T. (ASCP) Certification.

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

Admission to Graduate Status

Admission to graduate-student status is contingent upon (1) application by the student on forms available from the Registrar of the Medical School, (2) recommendation by the chairman of the department in which the student desires to work, and (3) approval by the Graduate Council and the dean of the Medical School. As a part of the application data, satisfactory scores on the aptitude test and on one or more of the advanced-test portions of the Graduate Record Examination are required to be furnished by the applicant. Only candidates with superior college records or presenting other clear evidence that they have a capacity for productive scholarship will be considered. The qualifications of students expecting to continue graduate studies after receiving a master's degree will be reviewed by the Graduate Council.

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

Standards of Performance

Graduate students are graded on the same basis as medical students in the courses they take in the Medical School. Graduate credit is granted only for course work in which grades A, B, or C are earned. A minimum yearly weighted grade-point average of 3.00 must be maintained in courses in the student's major field. Failure to maintain an adequate grade-point average will result in action recommended by the chairman of the department and the Graduate Council.

Dismissal

A graduate student may be dropped at any time for failure to maintain academic or professional standards or because of moral delinquency or physical incapacity.

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 grad-

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

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

Requirements for Graduate Degrees

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

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

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

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

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

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

No courses in the third and fourth years of the medical curriculum may be taken for graduate credit without special permission of the Graduate Council. Courses available for graduate credit are listed under the headings of each of the basic science departments in this catalog.

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

accepted by the chairman of the department and the Graduate Council. The thesis must be submitted to the Graduate Council or or before the first of May.

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

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

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

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

Registration and Payment of Fees

Registration for graduate study in any graduate program must be renewed quarterly and study programs arranged at the beginning of each term. Dates for registration and payment of fees conform to the dates indicated in the calendar of the Medical School. (See page 6). The student is responsible for the arrangement of his course schedule by agreement with the chairman of his major department and the instructors teaching the desired courses.

Fees for graduate study are payable at the beginning of each term according to the schedule listed on page 17.

Additional information on graduate programs may be obtained from the Graduate Studies Catalog.

School of Nursing

The University of Oregon School of Nursing, located on the campus of the University of Oregon Medical School, Portland, offers three programs:

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

OTHER INSTRUC- TIONAL PROGRAMS

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

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

(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 97201.

Radiologic Technology

The Department of Radiology of the University of Oregon Medical School offers a two-year course of training for radiologic technologists. 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 Radiologic Technologists.

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

No tuition is charged during the period of training; however, the student must provide his own books, supplies, uniforms, and incidental fees. During the second year the student 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 darkroom chemistry and procedures, X-ray techniques, positioning of patients, hospital ethics, record keeping, department operation, radiation 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.

Fifteen students are admitted annually in July. Applications should be submitted to the Director of the course in Radiologic Technology, Department of Radiology, University of Oregon Medical School Hospitals and Clinics.

DIETETICS, INTERNSHIPS, RESIDENCIES

The program meets the requirements of the American Registry of Radiologic Technologists and includes the examination for registration.

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Hospital Dietetics

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

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

During the twelve-month training period at the Medical School, the student pays no tuition but provides her own supplies, including uniforms. Students receive complete maintenance and an allowance of \$75 per month.

Appointments are made once a year; applications should be submitted to the Director of Dietetics, University of Oregon Medical School Hospitals and Clinics, not later than March 1.

Internship and Residency Programs

The internship program of the University of Oregon Medical School Hospitals and Clinics is approved by the Council on Medical Education and Hospitals of the American Medical Association. The hospitals participate in the National Internship Matching Program. The interns who receive training in the Medical School Hospitals and Clinics (currently 36) have a twelve-month rotating internship in both the Medical School Hospital and Multnomah Hospital. All patients in the hospitals and clinics are house cases and are under the personal care of an intern, who is responsible to the resident on the service. Internship appointments are effective July 1.

One of the important functions of a medical school is the training of physicians in the medical specialties. The demand for such training has greatly increased in recent years. In response, the Medical School residency program has been expanded to provide approximately 140 appointments. Residency training follows one year of internship and consists of two to five years of study devoted entirely to one specialized field of medicine. Instruction is given both in clinical departments and in related basic science departments of the school.

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

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

OTHER
INSTRUC-
TIONAL
PROGRAMS

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.

Continuing Education

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, demonstrations, conferences, and patient presentations, 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 usually \$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.



6
MEDICAL
SCHOOL
FACULTY

Executive Faculty

David W. E. Baird, Dean of the Medical School; Joseph J. Adams, Ralph C. Benson, John M. Brookhart, Norman A. David, David D. DeWeese, Charles T. Dotter, Arthur W. Frisch, Jarvis Gould, Charles N. Holman, Tyra T. Hutchens, William Krippaehne, Howard P. Lewis, Joseph D. Matarazzo, Richard W. Olmsted, Edwin E. Osgood, Anthony A. Pearson, George Saslow, Richard L. Sleeter, Kenneth C. Swan, Adolph Weinzirl, Sefton R. Wellings, Edward S. West, William A. Zimmerman (secretary).

STANDING COMMITTEES OF THE FACULTY

Admissions and Advanced Standing—Edward S. West (chairman), Robert L. Bacon, Hance F. Haney, Joseph D. Matarazzo, E. Colton Meek, Jr., Joseph B. Trainer, Caroline H. Pommarane (ex officio).

Committee on Animal Care—James Metcalfe (chairman), Alfred J. Rampone, Roy L. Swank, Wilbert R. Todd, John T. Van Bruggen, William A. Zimmerman.

Curriculum and Schedule—Howard P. Lewis (chairman), Joseph J. Adams, Ralph C. Benson, Norman A. David, Charles T. Dotter, Arthur W. Frisch, William W. Krippaehne, George Saslow, Wilbert R. Todd, Adolph Weinzirl.

Graduate Council—John M. Brookhart (chairman), Robert L. Bacon, Joseph D. Matarazzo, Evelyn L. Oginsky, Elton L. McCawley, Benjamin V. Siegel, John T. Van Bruggen, Joseph J. Adams (ex officio).

Henry Waldo Coe Prize—Hance F. Haney (chairman), Clarence V. Hodges.

Internship Advisory Committee—John A. Benson, Jr. (chairman), William S. Fletcher, Robert D. Koler.

Investigational Drug Committee—Norman A. David (chairman), Robert H. Bigley, Howard J. Tatum.

Jones Lectureship—Howard P. Lewis (chairman), Hance F. Haney.

Library—Norman A. David (chairman), Morton Goodman, Noble Wiley Jones, Nelson R. Niles, Goodrich C. Schaffner, Archie R. Tunturi, Wilbert R. Todd, Margaret E. Hughes (ex officio).

Patent—William A. Zimmerman (chairman), M. Ronald Parelius, Bernard Pirofsky, Benjamin B. Ross, Roy L. Swank, John T. Van Bruggen.

Radioisotope Committee—Tyra T. Hutchens (chairman), Clifford V. Allen, Edwin E. Osgood, John T. Van Bruggen.

Research—John M. Brookhart (chairman), Frederick P. Haugen, Robert D. Koler, Walter C. Lobitz, Jr., James Metcalfe, Sefton R. Wellings, Edward S. West, M. Ronald Parelius (ex officio).

Scholarships—Edward S. West (chairman), Clarence V. Hodges, Walter C. Lobitz, Jr., William A. Zimmerman.

Student Faculty—Faculty Members: Frederick P. Haugen (chairman), Howard P. Lewis, Robert J. Meehan, Anthony A. Pearson, Clare G. Peterson, Edward S. West. Student members are elected for one- or two-year terms.

Dean's Advisory Committee for the Veterans Hospital—D. W. E. Baird (chairman), Jarvis Gould (vice-chairman and secretary), Donald E. Forster, Charles N. Holman, Tyra T. Hutchens, William W. Krippaehne, Howard P. Lewis, Harold J. Noyes, George Saslow, Kenneth C. Swan, Edward S. West.

Emeritus Faculty

Harry C. Blair, M.D., Professor Emeritus of Orthopedic Surgery.
M.D. (1915), Oregon.

Isidor C. Brill, M.D., Associate Professor Emeritus of Medicine.
B.A. (1912); M.D. (1914), Columbia.

C. Elmer Carlson, M.D., Professor Emeritus of Orthopedic Surgery.
A.B. (1917), Reed; M.D. (1920), Oregon.

Augustus B. Dykman, M.D., Professor Emeritus of Ophthalmology.
M.D. (1914), New York University.

Bertha B. Hallam, B.A., Librarian Emeritus.
B.A. (1931), Oregon.

Blair Holcomb, M.D., Professor Emeritus of Medicine.
M.D. (1919), Rush (University of Chicago).

Warren C. Hunter, M.D., Professor Emeritus of Pathology (1922).
B.A. (1920), Albany College (Lewis and Clark); M.D. (1924), Oregon; M.A. (1927), Michigan.

Noble Wiley Jones, M.D., Professor Emeritus of Medicine.
A.B. (1895), Stanford; M.D. (1901), Rush (University of Chicago).

Lyle B. Kingery, M.D., Professor Emeritus of Medicine.
B.S. (1912), M.D. (1916), Michigan.

William K. Livingston, M.D., Professor Emeritus of Surgery.
B.A. (1913), M.A. (1917), Oregon; M.D. (1920), Harvard.

Merl L. Margason, M.D., Professor Emeritus of Medicine.
A.B. (1920), M.D. (1923), Oregon.

Frank R. Menne, M.D., Professor Emeritus of Pathology.
B.S. (1913), Wisconsin; M.D. (1915), Rush (University of Chicago).

Merle W. Moore, M.D., Associate Professor Emeritus of Medicine.
B.S. (1920), Oregon; M.D. (1924), Jefferson.

Oliver M. Nisbet, M.D., Professor Emeritus of Surgery (1926).
B.S. (1915), Idaho; M.D. (1919), Rush (University of Chicago).

Matthew C. Riddle, M.D., Associate Professor Emeritus of Medicine.
B.A. (1917), Reed; M.A. (1922), Oregon; M.D. (1926), Harvard.

Eugene W. Rockey, M.D., Professor Emeritus of Surgery.
B.A. (1908), Stanford; M.D. (1912), Harvard.

Homer P. Rush, M.D., Professor Emeritus of Medicine.
M.A., M.D. (1921), Oregon.

Faculty*

†John E. Abele, M.D., Assistant Clinical Professor of Orthopedic Surgery (1946).

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

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

† Volunteer.

- †**John C. Adams, M.D.**, Clinical Professor of Surgery (1932).
B.S. (1922), University of Washington; M.D. (1926), Oregon.
- Joseph J. Adams, B.B.A.**, Assistant Dean for Institutional Relations; Associate Professor (1951).
B.B.A. (1949), Gonzaga.
- Mary Ann Ademino, B.A.**, Director of Publications; Instructor (1965).
B.A. (1964), University of Washington.
- †**H. Victor Adix, M.D.**, Clinical Associate in Otolaryngology (1934).
B.A. (1928), M.D. (1930), Oregon; M. Med. Sc. (1933), Pennsylvania.
- †**Phillip S. Alberts, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1964).
B.A. (1953), M.D. (1958), Nebraska.
- Clifford V. Allen, M.D.**, Professor of Clinical Pathology (Radioisotopes) and Radiology; Head of Division of Radiotherapy (1955).
M.D. (1933), Iowa.
- Daphne Allen, B.A.**, Serials Librarian; Instructor (1965).
B.A. (1964), Portland State.
- †**Alfred A. Amkraut, Ph.D.**, Assistant Professor of Bacteriology (Primate Center) (1964).
B.A. (1949), California; M.S. (1955), New York; Ph.D. (1963), Stanford.
- †**Richard P. Andrews, M.D.**, Clinical Instructor in Surgery (1963).
B.S. (1949), Denison; M.D. (1953), Harvard.
- †**Carl G. Ashley, M.D.**, Assistant Clinical Professor of Pediatrics (1936).
B.A. (1927), M.D. (1931), Oregon.
- †**Kurt W. Aumann, M.D.**, Assistant Clinical Professor of Medicine (1948).
B.S. (1936), Washington State; M.A. (1940), M.D. (1942), Oregon.
- George M. Austin, M.D.**, Professor of Neurosurgery; Head of Division (1957).
A.B. (1938), Lafayette; M.D. (1942), Pennsylvania.
- James H. Austin, M.D.**, Associate Professor of Neurology (1955).
M.D. (1948), Harvard.
- S. Gorham Babson, M.D.**, Associate Professor of Pediatrics (1941).
B.S. (1933), M.D. (1936), Oregon.
- Daniel M. Bachman, M.D.**, Associate Professor of Medicine; Head of Division of Rheumatology (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.
- †**Daniel M. Baer, M.D.**, Clinical Instructor in Clinical Pathology (1964).
A.B. (1953), Oberlin; M.D. (1957), New York Medical College.
- †**Paul Bailey, M.D.**, Clinical Professor of Otolaryngology (1929).
M.D. (1925), Oregon.
- †**Paul F. Bailey, M.D.**, Clinical Associate in Ophthalmology (1958).
B.S. (1951), Oregon State; M.D. (1953), Oregon.
- Richard E. Bailey, M.D.**, Assistant Professor of Medicine (1961).
B.A. (1951), M.D. (1955), Stanford.
- David W. E. Baird, M.D., LL.D.**, Dean of the Medical School; Professor of Medicine (1928).
M.D. (1926), Oregon; LL.D. (1946), University of Portland.

† Volunteer.

- Michael D. Baird, M.D.**, Assistant Medical Director of Hospitals and Clinics; Assistant Professor of Medicine (1961).
B.S. (1954), Reed; M.S., M.D. (1957), Oregon.
- †**Harvey W. Baker, M.D.**, Assistant Clinical Professor of 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.
- †**Peter J. Batten, M.D.**, Clinical Instructor in Public Health and Preventive Medicine (1963).
B.S. (1948), College of St. Thomas; M.S. (1950), Wayne State; M.D. (1956), Michigan; M.P.H. (1962), California.
- †**Samuel T. Beall, M.D.**, Assistant Clinical Professor of Medicine (1954).
A.B. (1940), Whitman; M.D. (1950), Louisville.
- Rodney K. Beals, M.D.**, Assistant Professor of Orthopedic Surgery (1961).
B.A. (1953), Willamette; M.D. (1956), Oregon.
- †**G. Donald Beardsley, M.D.**, Clinical Associate in Urology (1954).
B.A. (1945), M.D. (1947), Oregon.
- †**Clarissa H. Beatty, Ph.D.**, Associate Professor of Biochemistry (Primate Center) (1953).
B.A. (1941), Sarah Lawrence; M.S. (1942), Ph.D. (1945), Columbia.
- †**William S. Beck, M.D.**, Clinical Associate in Medicine (1960).
B.S. (1949), M.D. (1952), Northwestern.
- †**Harry G. Beckwith, Jr., M.D.**, Clinical Associate in Surgery (1953).
B.A. (1938), Reed; M.D. (1942), Oregon.
- †**Robert H. Bedrossian, M.D.**, Clinical Associate in Ophthalmology (1959).
A.B. (1946), Haverford; M.D. (1947), Temple; M.Sc. (1953), Pennsylvania.
- †**Roderick E. Begg, M.D.**, Assistant Clinical Professor of Orthopedic Surgery (1939).
B.S. (1924), Oregon State; M.D. (1937), Oregon.
- †**Richard E. Behrman, M.D.**, Assistant Professor of Pediatrics (Primate Center) (1965).
B.A. (1953), Amherst; LL.B. (1956), Harvard; M.D. (1960), Rochester.
- †**Mary Bell, A.B.**, Instructor in Experimental Biology (Primate Center) (1964).
A.B. (1958), Brown.
- Ernest Jack Benner, M.D.**, Assistant Professor of Medicine (1965).
B.S. (1953), Central Washington; M.D. (1960), Oregon.
- †**Thomas T. Bennett, M.D.**, Assistant Clinical Professor of Psychiatry (1963).
B.S. (1950), M.D. (1952), Oregon.
- John A. Benson, Jr., M.D.**, Professor of Medicine; Head of Division of Gastroenterology (1959).
B.A. (1943), Wesleyan; M.D. (1946), Harvard.
- Ralph C. Benson, M.D.**, Professor of Obstetrics and Gynecology; Chairman of Department (1956).
B.A. (1932), Lehigh; M.D. (1936), Johns Hopkins.

† Volunteer.

- †**Frederic H. Bentley**, M.D., Clinical Instructor in Surgery (1953).
B.Sc. (1926), M.B., Ch.B. (1929), M.D. (1946), Manchester (England); F.R.C.S. (1932), Royal College of Surgeons.
- J. Peter Bentley**, Ph.D., Assistant Professor of Biochemistry and Experimental Biology (1964).
B.Sc. (1952), Royal College of Technology, England; M.S. (1961), Ph.D. (1963), Oregon.
- †**John H. Benward**, M.D., Assistant Clinical Professor of Pediatrics (1943).
B.S. (1937), M.D. (1939), Oklahoma.
- †**Arthur W. Berg**, M.D., Assistant Clinical Professor of Medicine (1953).
B.A. (1943), M.D. (1945), Oregon.
- †**Richard F. Berg**, M.D., Assistant Clinical Professor of Orthopedic Surgery (1935).
A.B. (1923), M.D. (1926), Oregon.
- Mildred M. Bergheim**, M.A., Assistant Professor of Social Work (1965).
B.A. (1922), M.A. (1922), M.A. (1940), Minnesota.
- †**Arthur M. Bergman**, M.D., Clinical Associate in Medicine (1948).
B.A. (1940), M.D. (1943), New York University.
- †**John R. Berry**, M.D., Clinical Instructor in Pediatrics (1963).
B.A. (1954), M.D. (1957), Stanford.
- †**Siegfried R. Berthelsdorf**, M.D., Clinical Instructor in Psychiatry (1957).
B.A. (1934), M.A., M.D. (1939), Oregon.
- John C. Bigelow**, M.D., Instructor in Cardiopulmonary Surgery (1965).
B.A. (1952), Washington State; M.D. (1959), University of Washington.
- Robert H. Bigley**, M.D., Associate Professor of Medicine (1960).
B.S. (1951), University of Washington; M.D. (1953), Oregon.
- Marcia Kepler Bilbao**, M.D., Associate Professor of 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., Associate Clinical Professor of Pediatrics (1956).
B.S. (1943), M.D. (1946), Chicago.
- †**Theodore M. Bischoff**, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1948).
B.A. (1937), Reed; M.D. (1939), Oregon.
- Paul H. Blachly**, M.D., Associate Professor of Psychiatry (1961).
B.A. (1950), Reed; M.S., M.D. (1955), Oregon.
- Robert W. Blakeley**, Ph.D., Assistant Professor of Speech Pathology, Pediatrics (1959).
B.A. (1951), California; M.S. (1952), Oregon; Ph.D. (1958), Michigan.
- †**John A. Blanchard**, M.D., Clinical Associate in Medicine (1954).
B.S. (1941), Montana State College; M.D. (1950), Oregon.
- †**Roderick C. Blatchford**, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1938).
A.B. (1927), Willamette; M.D. (1933), Oregon.
- †**Philip E. Blatt**, M.D., Clinical Instructor in Medicine (1964).
B.S. (1953), Davidson; M.D. (1957), Baylor.
- †**Jack B. Blumberg**, M.D., Clinical Instructor in Surgery (1964).
A.B. (1952), M.D. (1956), Stanford.

† Volunteer.

- †**Rose Mary Bocek**, Ph.D., Assistant Professor of Biochemistry (Primate Center) (1957).
B.S. (1946), Marylhurst; M.S. (1954), Ph.D. (1964), Oregon.
- †**Henry L. Boehnke**, M.D., Clinical Instructor in Pediatrics (1962).
B.S. (1953), M.D. (1955), Oregon.
- †**Darrell C. Bollam**, M.D., Clinical Associate in Surgery (1937).
B.S. (1927), M.D. (1928), Oregon.
- †**Richard N. Bolton**, M.D., Clinical Instructor in Obstetrics and Gynecology (1961).
B.S. (1951), Willamette; M.D. (1955), Oregon.
- †**Wilbur M. Bolton**, M.D., Assistant Clinical Professor of Otolaryngology (1929).
A.B. (1923), M.D. (1926), Oregon.
- †**Donald B. Bowman**, M.D., Clinical Instructor in Medicine (1964).
B.S. (1952), M.D. (1957), Oregon.
- Robert D. Boyd**, Ph.D., Associate Professor of Medical Psychology (1964).
B.A. (1938), Linfield; M.A. (1941), Southern California; M.A. (1947), Ph.D. (1953), Michigan.
- †**Allen M. Boyden**, M.D., Associate Clinical Professor of Surgery (1946).
B.A. (1929), Oregon; M.D. (1932), M.S. (1937), Michigan.
- †**Thomas J. Boyden**, M.D., Clinical Associate in Orthopedic Surgery (1953).
B.A. (1944), M.D. (1946), Oregon.
- †**George A. Boylston**, M.D., Assistant Clinical Professor of Medicine (1946).
B.S. (1936), M.S. (1937), M.D. (1939), Northwestern.
- †**Charles Bradley**, M.D., Associate Clinical Professor of Child Psychiatry (1948).
B.S. (1925), Cornell; M.D. (1929), Harvard.
- Doris P. Bradley**, Ph.D., Assistant Professor of Speech Pathology, Pediatrics (1964).
B.S. (1953), Mississippi Southern; M.A. (1957), Florida; Ph.D. (1963), Pittsburgh.
- †**William J. Brady**, M.D., Clinical Instructor in Clinical Pathology (1965).
B.S. (1953), Santa Clara; M.D. (1958), Oregon.
- James L. Bramhall**, M.D., Assistant Professor of Clinical Pathology (1962).
M.B., Ch.B. (1951), Victoria University of Manchester Medical School, England.
- †**John O. Branford**, M.D., Clinical Instructor in Anesthesiology (1959).
B.A. (1936), Concordia; M.D. (1946), Oregon.
- †**Melvin W. Breese**, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1948).
B.S. (1936), Oregon State; M.D. (1943), Oregon.
- †**Robert M. Bremer**, Ph.D., Associate Professor of Experimental Biology (Primate Center) (1964).
A.B. (1950), A.M. (1951), Ph.D. (1955), Boston.
- Gwynn C. Brice**, Assistant Director of Outpatient Clinic; Assistant Professor (1946).
- †**Morris L. Bridgeman**, M.D., Associate Clinical Professor of Pediatrics (1927).
Ph.G. (1916), Montana State University; M.D. (1924), Oregon.
- †**Donald M. Brinton**, M.D., Clinical Instructor in Anesthesiology (1959).
B.A. (1945), M.D. (1947), Oregon.

† Volunteer.

- John David Bristow, M.D.**, Assistant Professor of Medicine (1960).
B.A. (1949), Willamette; M.D. (1953), Oregon.
- †**Michael T. H. Brodeur, M.D.**, Clinical Instructor in Medicine (1965).
B.A. (1952), M.D.C.M. (1956), McGill.
- John M. Brookhart, Ph.D.**, Professor of Physiology; Chairman of Department (1949).
B.S. (1935), M.S. (1936), Ph.D. (1939), Michigan.
- ***Robert E. Brooks, B.S.**, Instructor in Pathology, Electron Microscopy (1961).
B.S. (1948), California.
- †**Charles C. Brown, M.D.**, Clinical Instructor in Psychiatry (1965).
B.S. (1954), Gonzaga; M.D. (1958), Jefferson.
- †**David J. Brown, M.D.**, Clinical Instructor in Clinical Pathology (1963).
B.A. (1952), M.D. (1956), Oregon.
- †**Paul M. Brown, M.D.**, Clinical Instructor in Surgery (1961).
B.S. (1945), Oregon; M.D. (1949), Harvard; M.S. (1960), Minnesota.
- Sidney Brownstone, M.D.**, Instructor in Medicine (Tuberculosis Hospital) (1963).
M.D. (1936), Queens University, Ontario, Canada.
- †**Robert J. Bruckner, D.D.S.**, Clinical Associate in Dental and Oral Medicine (1960).
D.D.S. (1944), Maryland; M.S. (1948), Western Reserve.
- Robert E. Brummett, Ph.D.**, Assistant Professor of Otolaryngology and Pharmacology (1964).
B.S. (1959), M.S. (1960), Oregon State; Ph.D. (1964), Oregon.
- F. Robert Brush, Ph.D.**, Associate Professor of Medical Psychology (1965).
B.A. (1951), Princeton; M.A. (1953), Ph.D. (1956), Harvard.
- George C. Buchan, M.D.**, Assistant Professor of Pathology (1965).
M.D. (1958), McGill.
- †**Paul R. Burgner, M.D.**, Assistant Clinical Professor of Medicine (1956).
B.S. (1948), M.D. (1952), Oregon.
- †**Genevieve S. Burk, M.D.**, Clinical Instructor in Anesthesiology (1962).
B.S. (1947), M.D. (1951), Oregon.
- 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.**, Clinical Professor of Radiology (1940).
A.B. (1931), B.S. (1933), Missouri; M.D. (1936), Washington University.
- †**John W. Bussman, M.D.**, Assistant Clinical Professor of Pediatrics (1954).
B.S. (1946), M.B. (1947), M.D. (1948), Minnesota.
- Bruce V. Butler, Ph.D.**, Assistant Professor of Medical Psychology (1960).
B.A. (1954), Ph.D. (1960), U.C.L.A.
- †**John L. Butler, M.D.**, Associate Clinical Professor of Psychiatry (1958).
B.S. (1942), Idaho; M.D. (1946), Johns Hopkins.
- ||**Richard B. Byrd, M.D.**, Clinical Instructor in Medicine (1961).
B.A. (1950), Central College; M.D. (1954), St. Louis; M.S. (1960), Minnesota.
- †**Nathan J. Campbell, M.D.**, Clinical Instructor in Surgery (1950).
M.D. (1949), Temple.

* On leave of absence June 14, 1965 to June 13, 1966.

† Volunteer.

‡ Part-time.

|| On leave for military service.

- †**Paul Campbell, M.D.**, Clinical Associate in Orthopedic Surgery (1956).
B.A. (1945), M.D. (1949), Stanford; M.S. (1955), Michigan.
- Robert A. Campbell, M.D.**, Assistant Professor of Pediatrics (1961).
B.A. (1954), M.D. (1958), California.
- †**W. Leigh Campbell, M.D.**, Clinical Associate in Ophthalmology (1962).
B.S. (1952), M.D. (1955), Oregon.
- Leroy O. Carlson, M.D.**, Assistant Professor of Pediatrics (1961).
B.S. (1940), University of Washington; M.D. (1942), Michigan.
- Wilma L. Carson, M.D.**, Instructor in Pediatrics (1963).
B.S. (1955), Chestnut Hill; M.D. (1959), Women's Medical College of Pennsylvania.
- C. Conrad Carter, M.D.**, Assistant Professor of Neurology (1956).
B.A. (1946), Reed; M.D. (1948), Oregon.
- †**Raymond A. Case, Jr., M.D.**, Clinical Associate 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, Jr., M.D.**, Clinical Instructor in Urology (1949).
B.S. (1943), University of Portland; M.D. (1944), Oregon.
- †**George E. Chamberlain, M.D.**, Clinical Professor of Otolaryngology (1947).
B.A. (1936), M.D. (1938), Oregon.
- †**Loring F. Chapman, Ph.D.**, Clinical Research Professor of Medical Psychology (1965).
B.S. (1950), Nevada; Ph.D. (1955), Chicago.
- †**Allan K. Chappell, M.D.**, Clinical Instructor in Pediatrics (1964).
B.S. (1948), M.D. (1951), Oregon.
- †**Charles L. Chavigny, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1956).
B.S. (1933), B.E. (1934), Tulane; M.D. (1951), Louisiana State.
- †**Bruce R. Chenoweth, M.D.**, Clinical Instructor in Dermatology (1956).
B.S. (1947), M.D. (1949), Oregon.
- †**Howard L. Cherry, M.D.**, Clinical Instructor in Orthopedic Surgery (1950).
M.D. (1943), Oregon.
- †**Clarence L. Chester, M.D.**, Assistant Clinical Professor of Pathology (1962).
B.S. (1937), M.D. (1940), Vermont.
- †**Oscar C. Chowning, Jr., M.D.**, Clinical Instructor in Otolaryngology (1963).
B.A. (1953), M.D. (1956), Kansas.
- Leonard Christensen, M.D.**, Associate Professor of Ophthalmology (1950).
B.A. (1937), Oregon State; M.D. (1941), M.S. (1949), Oregon.
- †**Eldon G. Chuinard, M.D.**, Associate Clinical Professor of Orthopedic Surgery (1938).
B.A. (1926), Puget Sound; M.D. (1934), Oregon.
- †**C. Louise Clancy, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1944).
B.A. (1929), Albion; M.D. (1934), University of Chicago.

† Volunteer.

‡ Part-time.

- 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.
- †**J. Russell Claybrook, Ph.D.**, Assistant Professor of Biochemistry (Primate Center) (1964).
B.S. (1957), Ph.D. (1963), Texas.
- †**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).
- †**Keith M. Clisby, M.D.**, Clinical Instructor in Surgery (1947).
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.**, Assistant Clinical Professor of Medicine (1941).
B.S. (1932), Stanford; M.D. (1936), Johns Hopkins.
- †**Lawrence J. Cohen, M.D.**, Clinical Associate 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.
- Antonio E. Colas, M.D., Ph.D.**, Associate Professor of Biochemistry and Obstetrics and Gynecology (1962).
M.D. (1953), University of Madrid; Ph.D. (1955), University of Edinburgh.
- †**Emerson J. Collier, M.D.**, Assistant Clinical Professor of 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.**, Clinical Professor of Cardiopulmonary Surgery (1943).
A.B. (1931), Dartmouth; M.D. (1934), Pennsylvania.
- Robert A. Cooper, Jr., M.D.**, Associate Professor of Pathology (1962).
A.B. (1954), Pennsylvania; M.D. (1958), Jefferson.
- †**Robert R. Cooper, M.D.**, Clinical Instructor in Otolaryngology (1961).
B.A. (1950), Cornell; M.D. (1954), M.S. (1960), Iowa.
- †**George W. Cottrell, M.D.**, Clinical Associate in Orthopedic Surgery (1949).
B.A. (1937), Oregon State; M.D. (1939), Oregon.
- †**Robert C. Cowger, M.D.**, Clinical Instructor in Ophthalmology (1959).
M.D. (1944), Nebraska.
- †**Rodney L. Crislip, M.D.**, Clinical Instructor in Medicine (1963).
B.A. (1953), Lehigh; M.D. (1957), Western Reserve.
- †**Frank W. Crowe, M.D.**, Associate Clinical Professor of Dermatology (1957).
B.S. (1941), Idaho; M.D. (1949), Utah.

† Volunteer.
‡ Part-time.

- †**Joyle Dahl, M.D.**, Associate Professor of Dermatology (1932).
B.A. (1926), M.D. (1930), Oregon.
- George W. Dana, M.D.**, Associate Professor of Pediatrics (1951).
A.B. (1940), M.D. (1943), Harvard.
- †**Robert I. Daugherty, M.D.**, Clinical Instructor in Psychiatry (1965).
B.S. (1951), M.D. (1953), Oregon.
- †**Betty Jo Davenport, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1964).
B.S. (1957), Southern California; M.D. (1959), Oregon.
- 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.**, Associate Clinical Professor of Neurosurgery (1948).
A.B. (1935), M.D. (1939), California.
- †**Harold E. Davis, M.D.**, Assistant Clinical Professor of Orthopedic Surgery (1946).
B.A. (1936), M.D. (1940), Oregon.
- †**Joe B. Davis, M.D.**, Associate Clinical Professor of Orthopedic Surgery (1941).
B.A. (1930), Willamette; M.D. (1934), Oregon.
- †**Thomas A. Davis, M.D.**, Assistant Clinical Professor of Urology (1949).
A.B. (1926), Reed; M.D. (1931), Oregon.
- Peter J. Dawson, M.D.**, Associate Professor of Pathology (1964).
B.A. (1949), Selwyn (England); M.B., B. Chir. (1952), St. George's; M.A. (1953), Cambridge; D.C.P. (1955), Postgraduate Medical School, London; M.D. (1960), Cambridge.
- †**Enrique M. deCastro, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1961).
B.S. (1951), Loyola University; M.D. (1957), University Nacional Autonoma de Mexico.
- †**Conrad A. DeLateur, M.D.**, Clinical Instructor in Dermatology (1961).
B.S. (1936), Oregon State; M.D. (1940), Oregon.
- D. Duane Denney, M.D.**, Assistant Professor of Psychiatry (1962).
B.A. (1953), Willamette; M.S., M.D., (1957), Oregon.
- Daniel L. Dennis, M.D.**, Instructor in Surgery (1965).
B.S. (1956), M.S., M.D. (1958), Oregon.
- †**John P. Dennis, M.D.**, Clinical Instructor in Neurosurgery (1959).
B.S. (1949), Oregon State; M.D. (1951), Oregon.
- David D. DeWeese, M.D.**, Professor of Otolaryngology; Chairman of Department (1944).
A.B. (1934), M.D. (1938), Michigan.
- †**Peter DeWitt, M.D.**, Clinical Instructor in Surgery (1955).
B.A. (1939), Union; M.D. (1943), Cornell.
- †**Arch W. Diack, M.D.**, Clinical Associate in Surgery (1937).
A.B. (1929), Dartmouth; M.D. (1933), Michigan.
- †**Samuel L. Diack, M.D.**, Clinical Instructor in Medicine (1933).
M.D. (1930), Michigan.

† Volunteer.
‡ Part-time.

- †**H. Lenox H. Dick**, M.D., Associate Clinical Professor of Pharmacology (1950).
A.B. (1941), Pennsylvania; M.D. (1944), Jefferson.
- †**Herman A. Dickel**, M.D., Clinical Professor of Psychiatry (1942).
B.A. (1933), Montana State University; M.B. (1937), M.D. (1938), Northwestern.
- †**John P. Dickson**, D.M.D., Clinical Instructor in Dental and Oral Medicine (1961).
D.M.D. (1950), Oregon.
- †**Harry B. Ditmore**, M.D., Clinical Instructor in Surgery (1964).
M.D. (1953), Harvard.
- †**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.
- Richard L. Dobson**, M.D., Professor of Dermatology (1961).
M.D. (1953), University of Chicago.
- Wilson C. Dockery**, B.S., Student Activities Director; Assistant Professor (1960).
B.S. (1937), Oregon State.
- Charles T. Dotter**, M.D., Professor of Radiology; Chairman of Department (1962).
B.A. (1941), Duke; M.D. (1944), Cornell.
- †**Darrel D. Douglas**, B.S., Clinical Instructor in Environmental Medicine (1965).
B.S. in C.E. (1954), University of Washington.
- †**Robert S. Dow**, M.D., Ph.D., Associate Clinical Professor of Neurology (1939).
B.S. (1929), Linfield; M.A., M.D. (1934), Ph.D. (1935), Oregon.
- Patrick J. Doyle**, M.D., Assistant Professor of Otolaryngology (1964).
B.Sc. (1947), M.D., (1949), Alberta.
- †**William E. Drips, Jr.**, M.D., Clinical Instructor in Medicine (1964).
B.S. (1956), M.D. (1958), Oregon.
- Hilda E. Drum**, Assistant Professor of Radiologic Technology (1954).
- 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 (1960).
B.S. (1942), Oregon State; M.D. (1946), Oregon.
- †**Harold P. Dygert, Jr.**, M.D., Clinical Instructor in Medicine (1956).
B.A. (1941), Rochester; M.D. (1950), Syracuse.
- †**Zanley C. Edelson**, M.D., Clinical Instructor in Surgery (1948).
B.A. (1935), Oregon State; M.D. (1938), Oregon.
- Miles J. Edwards**, M.D., Assistant Professor of Medicine (1964).
B.A. (1951), Willamette; M.S., M.D. (1956), Oregon.
- †**Thomas A. Edwards**, M.D., Clinical Instructor in Orthopedic Surgery (1963).
B.A. (1950), Williams; M.D. (1954), Cornell.
- †**Lester H. Eisendorf**, M.D., Clinical Instructor in Surgery (1950).
B.S. (1935), M.D. (1938), Illinois.

† Volunteer.
‡ Part-time.

- †**Morton G. Eleff**, M.D., Clinical Instructor in Pediatrics (1962).
B.S. (1950), M.D. (1955), Western Reserve.
- †**John H. Ellison**, M.D., Clinical Instructor in Medicine (1965).
B.S. (1956), Oregon State; M.D. (1959), Oregon.
- †**Richard P. Embick**, M.D., Clinical Instructor in Orthopedic Surgery (1962).
B.A. (1942), M.D. (1943), Wisconsin.
- †**Otto R. Emig**, M.D., Assistant Clinical Professor of Pathology (1957).
B.S. (1943), University of Portland; M.D. (1944), Oregon.
- †**Walter R. Enders**, M.D., Clinical Associate in Ophthalmology (1960).
B.A. (1945), M.D. (1947), Oregon.
- Rudolf C. H. Engel**, M.D., Associate Professor of Pediatrics (1952).
M.D. (1929), University of Bonn, Germany; M.S., M.D. (1949), Minnesota.
- †**Wayne G. Ericksen**, M.D., Assistant Clinical Professor of Radiology (1950).
B.A. (1944), Stanford; M.D. (1946), Oregon.
- LeRoy F. Erickson**, D.V.M., Veterinarian, Department of Animal Care; Assistant Professor (1962).
B.S. (1956), Lewis; B.S. (Vet. Med.) (1958), D.V.M. (1960), Illinois.
- †**G. Gordon Essert**, M.D., Clinical Instructor in Psychiatry (1963).
B.A. (1953), M.A. (1954), M.D. (1959), Western Ontario.
- †**Charles A. Fagan**, M.D., Clinical Instructor in Orthopedic Surgery (1960).
B.A. (1951), Reed; M.D. (1955), Oregon.
- †**Wolf H. Fahrenbach**, Ph.D., Associate Professor of Experimental Biology (Primate Center) (1963).
B.A. (1954), California; Ph.D. (1961), University of Washington.
- †**Virgil F. Fairbanks**, M.D., Clinical Associate in Medicine (1964).
B.A. (1951), Utah; M.D. (1954), Michigan.
- Warren H. Fay**, Ph.D., Instructor in Speech Pathology, Pediatrics (1962).
B.A. (1951), Colorado State; M.Ed. (1959), Oregon; Ph.D. (1963), Purdue.
- †**Clifford L. Fearl**, M.D., Associate Clinical Professor of Obstetrics and Gynecology (1940).
B.A. (1930), Montana State University; M.D. (1935), Kansas.
- Jack H. Fellman**, Ph.D., Associate Professor of Biochemistry; Assistant Professor of Neurology (1955).
B.A. (1948), M.A. (1952), Ph.D. (1954), Kansas.
- †**James W. Fergus**, M.D., Clinical Instructor in Obstetrics and Gynecology (1963).
B.S. (1954), M.D. (1957), Nebraska.
- †**Charles Ferguson**, M.D., Assistant Clinical Professor of Urology (1961).
B.A. (1919), College of Idaho; M.A., M.D. (1922), Oregon.
- †**Hans F. Fink**, M.D., Assistant Clinical Professor of Psychiatry (1963).
M.D. (1945), Friedrich-Wilhelms, University of Berlin, Germany.
- †**Robert E. Fischer**, M.D., Clinical Instructor in Ophthalmology (1952).
B.A. (1944), Oregon State; M.D. (1946), Oregon.
- †**Stella Fisher**, M.D., Assistant Clinical Professor of Medicine (1963).
B.A. (1933), Hunter; M.D. (1937), Women's Medical College of Pennsylvania.
- †**H. Freeman Fitch**, M.D., Clinical Associate in Orthopedic Surgery (1958).
B.A. (1946), M.A. (1947), British Columbia; M.D. (1951), Oregon.

† Volunteer.
‡ Part-time.

- Robert D. Fitzgerald**, Ph.D., Assistant Professor of Medical Psychology (1962).
B.A. (1958), M.A. (1959), South Dakota; Ph.D. (1962), Indiana.
- †**John R. Flanery**, M.D., Assistant Clinical Professor of Medicine (1956).
B.S. (1948), M.D. (1952), Oregon.
- William S. Fletcher**, M.D., Associate Professor of Surgery (1960).
A.B. (1952), Dartmouth; M.D. (1955), Harvard.
- †**Lynd L. Folts**, M.D., Clinical Instructor in Pediatrics (1961).
B.S. (1937), University of Washington; M.D. (1943), Oregon.
- †**Max A. Forse**, M.D., Associate in Medicine (Veterans Hospital) (1964).
B.S. (1930), M.S., M.D. (1934), Wurzburg, Germany.
- †**Donald E. Forster**, M.D., Assistant Clinical Professor of Medicine (1939).
A.B. (1931), Colgate; M.D. (1935), Harvard.
- †**Byron L. Fortsch**, M.D., Clinical Instructor in Otolaryngology (1961).
B.A. (1953), Willamette; M.D. (1957), Oregon.
- †**James H. Foster**, M.D., Assistant Professor of Surgery (Veterans Hospital) (1961).
B.A. (1950), Haverford; M.D. (1954), Columbia.
- Kaye E. Fox**, Ph.D., Instructor in Pharmacology (1964).
B.S. (1954), Michigan; Ph.D. (1964), Stanford.
- †**Thomas J. Fox**, M.D., Clinical Associate in Surgery (1950).
B.S. (1937), University of Portland; M.D. (1941), Oregon.
- †**Richard W. Franklin**, M.D., Clinical Instructor in Obstetrics and Gynecology (1955).
B.S. (1945), M.D. (1948), Oregon.
- Clifford A. Fratzke**, M.D., Instructor in Medicine (Tuberculosis Hospital) (1963).
M.D. (1931), Iowa.
- †**W. Ronald Frazier**, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1932).
B.S. (1925), Reed; M.D. (1929), Harvard.
- †**Leo J. Freiermuth**, M.D., Clinical Instructor in Medicine (1961).
B.S. (1950), Idaho; M.D. (1954), Washington University.
- Kathrine S. French**, Ph.D., Assistant Professor of Anthropology, Pediatrics (1959).
B.A. (1942), Pomona; Ph.D. (1955), Columbia.
- Arthur W. Frisch**, M.D., Ph.D., Professor in Bacteriology; Chairman of Department (1946).
B.A. (1931), M.A. (1933), Ph.D. (1935), M.D. (1937), Wisconsin.
- †**David C. Frisch**, M.D., Clinical Instructor in Dermatology (1952).
B.S. (1938), B.M. (1941), M.D. (1942), Minnesota; M.S. (1949), Wayne.
- Louis H. Frische**, M.D., 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.
- Thomas S. Fujita**, M.S., Instructor in Biochemistry and Neurology (1963).
B.A. (1956), Reed; M.S. (1959), University of Washington.

† Volunteer.
‡ Part-time.

- †**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., Assistant Clinical Professor of Obstetrics and Gynecology (1955).
M.D. (1950), Ohio State.
- John D. Gabourel**, Ph.D., Associate Professor of Pharmacology (1964).
B.S. (1950), California; M.S. (1951), San Francisco; Ph.D. (1957), Rochester.
- †**Peter J. Galante**, M.D., Associate in Medicine (Veterans Hospital) (1955).
B.A. (1928), Cornell; M.D. (1933), Royal University of Turin, Italy.
- †**William P. Galen**, M.D., Assistant Clinical Professor of Medicine (1953).
B.S. (1946), M.D. (1948), Oregon.
- †**L. Phaon Gambee**, M.D., Clinical Instructor in Orthopedic Surgery (1962).
B.S. (1951), Gonzaga; M.D. (1957), Creighton.
- †**Calvin E. Gantenbein**, M.D., Clinical Associate in Orthopedic Surgery (1936).
B.A. (1931), M.D. (1933), Oregon.
- Charles E. Gardner**, Ph.D., Assistant Professor of Bacteriology (1964).
B.S. (1951), Regis; Ph.D. (1962), Colorado.
- †**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. (1945), Oregon.
- †**Howard J. Geist**, M.D., Clinical Instructor in Orthopedic Surgery (1965).
M.D. (1955), Harvard.
- †**Jerry D. Giesy**, M.D., Clinical Instructor in Urology (1964).
B.A. (1955), M.D. (1959), Oregon.
- †**Joseph H. Gill**, M.D., Clinical Associate in Orthopedic Surgery (1949).
B.A. (1940), Reed; M.D. (1943), Oregon.
- †**Samuel F. Gill**, M.D., Clinical Instructor in Orthopedic Surgery (1963).
B.S. (1953), Oregon State; M.D. (1955), Oregon.
- †**Leonard M. Goldberg**, M.D., Clinical Instructor in Medicine (1959).
B.A. (1951), Reed; M.D. (1955), Oregon.
- †**Marvin C. Goldman**, M.D., Assistant Clinical Professor of Medicine (1958).
Ph.B. (1946), B.S. (1947), M.D. (1950), University of Chicago.
- Robert D. Goldman**, M.D., Assistant Professor of Medicine (1963).
B.A. (1950), M.D. (1957), Michigan.
- †**Buell E. Goocher**, Ph.D., Clinical Instructor in Medical Psychology (1964).
B.S. (1958), Wisconsin; M.A. (1961), Ph.D. (1963), Southern Illinois.
- †**Morton J. Goodman**, M.D., Assistant Clinical Professor of Medicine (1935).
B.A. (1926), M.D. (1929), Oregon.
- Ora K. Goodman**, B.S., Catalog Librarian; Assistant Professor (1945).
B.S. (1927), University of Washington.
- †**Scott Goodnight**, M.D., Associate Clinical Professor of Pediatrics (1940).
B.A. (1930), Wisconsin; M.D. (1932), Oregon.
- Philip D. Gordy**, M.D., Professor of Neurosurgery (1962).
A.B. (1940), M.D. (1943), M.S. (1948), Michigan.

† Volunteer.
‡ Part-time.

- †**Guy W. Gorrell, M.D.**, Clinical Instructor in Surgery (1961).
B.S. (1950), M.D. (1953), Oregon.
- †**Walter A. Goss, M.D.**, Assistant Clinical Professor of Pediatrics (1946).
B.S. (1933), Oregon State; M.D. (1937), Oregon.
- Jarvis Gould, M.D.**, Associate Medical Director and Associate Administrator of Hospitals and Clinics; Associate Professor of Medicine (1948).
B.A. (1939), M.D. (1941), Oregon.
- David Gowing, M.D.**, Assistant Professor of Anesthesiology (1962).
A.B. (1955), Boston University; M.D. (1959), Yale.
- †**Robert W. Goy, Ph.D.**, Associate Professor of Medical Psychology (Primate Center) (1965).
B.S. (1947), Michigan; Ph.D. (1953), Chicago.
- †**Robert H. Gray, M.D.**, Clinical Instructor in Medicine (1961).
B.S. (1953), M.D. (1955), Oregon.
- †**Robert B. Greene, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1949).
B.A. (1927), M.D. (1931), Oregon.
- †**Robert B. Greene, Jr., M.D.**, Clinical Associate in Urology (1959).
B.A. (1948), Reed; M.D. (1952), Oregon.
- Monte A. Greer, M.D.**, Professor of Medicine; Head of Division of Endocrinology (1956).
A.B. (1944), M.D. (1947), Stanford.
- †**Ray V. Grewe, M.D.**, Clinical Instructor in Neurosurgery (1958).
B.S. (1945), University of Washington; M.D. (1947), Oregon.
- Herbert E. Griswold, M.D.**, Professor of Medicine; Head of Division of Cardiovascular Renal Diseases (1949).
B.A. (1939), Reed; M.S., M.D. (1943), Oregon.
- †**LeRoy E. Groshong, M.D.**, Clinical Associate in Surgery (1956).
B.S., M.D. (1949), Nebraska.
- †**Harry E. Groth, M.D.**, Clinical Instructor in Orthopedic Surgery (1963).
B.S. (1952), M.D. (1955), Wisconsin.
- †**J. Gordon Grout, M.D.**, Clinical Instructor in Surgery (1959).
A.B. (1949), Stanford; M.D. (1954), Oregon.
- Myron R. Grover, Jr., M.D.**, Assistant Medical Director and Assistant Administrator of Hospitals and Clinics; Director of Continuing Education; Assistant Professor of Medicine (1958).
B.A. (1950), Bowdoin; M.D. (1954), Cornell; M.S. (1956), Oregon.
- †**John S. Gullikson, D.D.S.**, Clinical Instructor in Dental and Oral Medicine (1963).
B.S. (1950), Washington State; D.D.S. (1954), University of Washington.
- David L. Gunberg, Ph.D.**, Associate Professor of Anatomy (1955).
B.A. (1949), Redlands; M.A. (1952), Ph.D. (1954), California.
- †**Russell G. Gustavson, M.D.**, Clinical Associate in Surgery (1957).
B.A. (1950), M.D. (1952), Nebraska.
- †**Patricia Hahn, M.A.**, Clinical Instructor in Speech Correction, Otolaryngology (1963).
B.S. (1954), Nebraska; M.A. (1959), Northwestern.

† Volunteer.
‡ Part-time.

- †**Roger W. Hallin, M.D.**, Clinical Instructor in Surgery (1962).
M.D., C.M. (1952), McGill.
- †**Luis E. Halpert, M.D.**, Clinical Instructor in Urology (1963).
B.S. (1946), M.D. (1953), National Autonomous University of Mexico.
- Kenneth M. Halprin, M.D.**, Assistant Professor of Dermatology (1964).
B.A. (1950), M.D. (1955), Chicago.
- Martha L. Hamilton, M.D.**, Assistant Professor of Clinical Pathology (1957).
B.S. (1945), Texas Wesleyan; M.D. (1952), Texas.
- †**John R. Hand, M.D.**, Clinical Professor of Urology (1932).
B.S. (1921), B.M. (1923), M.D. (1924), M.S. (1936), Minnesota.
- Hance F. Haney, M.D., Ph.D.**, Professor of Medicine; Chief, Department of Medicine Outpatient Professional Services (1936).
B.A. (1926), M.A. (1928), Ph.D. (1934), Wisconsin; M.D. (1934), University of Chicago.
- †**Robert F. Haney, M.D.**, Clinical Instructor in Ophthalmology (1965).
B.S. (1955), M.D. (1958), Oregon.
- Constance Hanf, Ph.D.**, Assistant Professor of Medical Psychology (1963).
B.A. (1938), M.A. (1943), New York University; M.A. (1952), College of City of New York; Ph.D. (1961), Pennsylvania State.
- †**John R. Hansen, M.D.**, Assistant Professor of Pediatrics (1950).
B.S. (1939), University of Washington; M.D. (1946), Oregon.
- †**Robert M. Hansen, M.D.**, Clinical Professor of Otolaryngology (1948).
B.S. (1935), Nevada; M.D. (1939), Baylor.
- †**George S. Hara, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1957).
B.A. (1948), M.D. (1953), Oregon.
- †**James V. Harber, M.D.**, Clinical Instructor in Anesthesiology (1959).
B.S. (1953), M.D. (1955), Oregon.
- †**John Harder, M.D.**, Clinical Instructor in Orthopedic Surgery (1959).
B.A. (1945), Whitman; M.D. (1949), Oregon.
- †**Clifford E. Hardwick, M.D.**, Associate Clinical Professor of Surgery (1947).
B.S., M.D. (1929), Oregon.
- †**Robert L. Hare, M.D.**, Clinical Associate in Medicine (1956).
B.S. (1947), M.D. (1949), Illinois; M.S. (1956), Minnesota.
- †**Bernard P. Harpole, M.D.**, Clinical Instructor in Surgery (1949).
B.S. (1935), M.D. (1939), St. Louis.
- †**Homer H. Harris, M.D.**, Associate Clinical Professor of Clinical Pathology (1951).
B.A. (1942), Reed; M.D. (1945), Oregon.
- †**Richard L. Harris, M.D.**, Clinical Instructor in Medicine (1965).
B.S. (1954), M.D. (1958), North Carolina.
- †**Joseph T. Hart, M.D.**, Assistant Clinical Professor of Pediatrics (1950).
B.S.M. (1941), M.D. (1942), Creighton.
- †**William L. Hartmann, M.D.**, Assistant Clinical Professor of 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).
B.A. (1933), M.D. (1935), Oregon.

† Volunteer.

- †**Gerhard B. Haugen**, M.D., Assistant Clinical Professor of Psychiatry (1937).
B.A. (1932), M.D. (1935), Oregon; M.P.H. (1942), Johns Hopkins.
- †**Thomas Haun**, M.D., Clinical Instructor in Medicine (1963).
M.D. (1957), Creighton.
- James B. Haworth**, M.D., Associate Professor of Radiology (1953).
B.S. (1933), M.D. (1936), Oregon.
- †**John F. Hayes**, M.D., Clinical Instructor in Surgery (1955).
B.A. (1945), Oregon State; M.D. (1947), Oregon.
- †**Gordon D. Haynie**, M.D., Assistant Professor of Medicine (Veterans Hospital) (1961).
B.S. (1949), Idaho State; M.D. (1953), Oregon.
- †**Thomas S. Healy**, M.D., Clinical Associate in Medicine (1951).
B.A. (1940), M.D. (1942), Oregon.
- Frederick Hecht**, M.D., Assistant Professor of Experimental Medicine and Pediatrics (1965).
B.A. (1952), Dartmouth; M.D. (1960), Rochester.
- †**William J. Hemphill**, M.D., Clinical Instructor in Dermatology (1961).
M.D. (1947), Oklahoma.
- †**Philip H. Henderson, Jr.**, M.D., Clinical Instructor in Obstetrics and Gynecology (1954).
B.S. (1945), University of Washington; M.D. (1948), Oregon.
- †**Edward L. Hendricks**, M.D., Assistant Clinical Professor of Pediatrics (1955).
B.S. (1946), Oregon State; M.S. (1948), M.D. (1949), Oregon.
- †**Russell C. Henry**, M.D., Associate Clinical Professor of Pathology (1963).
B.S. (1934), M.D. (1940), Oklahoma.
- Rodney H. Herr**, M.D., Assistant Professor of Cardiopulmonary Surgery (1963).
B.A. (1953), Goshen; M.D. (1957), Northwestern.
- †**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.
- †**Robert V. Hill**, M.D., Assistant Clinical Professor of Ophthalmology (1948).
B.S. (1936), Oregon State; M.D. (1939), Oregon.
- †**William E. Hill**, M.D., Clinical Instructor in Pediatrics (1962).
B.A. (1947), Maine; M.D. (1951), Tufts.
- ||**Vincent C. Hinck**, M.D., Associate Professor of Radiology (1957).
A.B. (1948), Cornell; M.D. (1953), New York Medical College.
- Marvin C. Hines**, Ph.D., Assistant Professor of Biochemistry and Ophthalmology (1962).
B.A. (1954), Linfield; M.S. (1956), University of Washington; Ph.D. (1959), Oregon.
- Clarence V. Hodges**, M.D., Professor of Urology; Head of Division (1948).
B.S. (1937), Iowa State; M.D. (1940), University of Chicago.
- †**Richard A. Hodgson**, M.D., Clinical Instructor in Otolaryngology (1962).
B.S. (1954), Oregon State; M.D. (1956), Oregon.

† Volunteer.

† Part-time.

|| On leave of absence June 1, 1965 to May 31, 1966 for postgraduate study in Neuroradiology at the Institute of Neurology, National Hospital, Queen Square, London, England.

- †**Donald H. Holden**, M.D., Clinical Instructor in Otolaryngology (1953).
A.B. (1941), Brown; M.D. (1944), Yale.
- †**Carl L. Holm**, M.D., Clinical Instructor in Orthopedic Surgery (1961).
B.A. (1940), Willamette; M.D. (1943), Oregon.
- Charles N. Holman**, M.D., Associate Dean of Medical School; Medical Director and Administrator of Hospitals and Clinics; Professor of Medicine (1940).
B.A. (1931), M.D. (1936), Oregon.
- †**Richard J. Hopkins**, M.D., Clinical Associate in Orthopedic Surgery (1950).
B.S. (1943), Idaho; M.D. (1944), Oregon.
- †**Marcus M. Horenstein**, M.D., Assistant Clinical Professor of Medicine (1947).
B.A. (1937), M.D. (1941), Oregon.
- †**Irving J. Horowitz**, M.D., Assistant Clinical Professor of Radiology (1959).
B.S. (1946), M.S. (1947), M.D. (1952), Michigan.
- A. Wesley Horton**, Ph.D., Professor of Biochemistry and Environmental Medicine (1962).
B.S. (1940), M.S. (1947), Ph.D. (1948), Yale.
- †**Dale D. Hoskins**, Ph.D., Assistant Professor of Biochemistry (Primate Center) (1963).
B.S. (1953), M.S. (1955), Oregon State; Ph.D. (1960), Colorado.
- †**Martin A. Howard**, M.D., Assistant Clinical Professor of Surgery (1929).
B.S. (1923), M.D. (1926), Oregon.
- †**John L. Howieson**, M.D., Assistant Clinical Professor of Radiology (1960).
B.A. (1950), M.A. (1951), M.D. (1955), Kansas.
- †**Jay C. Hoyt**, M.D., Assistant Clinical Professor of Medicine (1956).
B.S. (1946), B.M. (1947), M.D. (1948), Minnesota.
- †**Funan Hu**, M.D., Professor of Dermatology (Primate Center) (1965).
M.D. (1942), National Medical College of Shanghai.
- †**Grant B. Hughes**, M.D., Clinical Instructor in Psychiatry (1963).
M.D. (1944), Temple.
- Margaret E. Hughes**, B.S., Circulation Librarian; Professor (1946).
B.S. (1937), Minnesota.
- †**Arthur F. Hunter**, M.D., Assistant Clinical Professor of Radiology (1946).
A.B. (1930), Denver; M.D. (1933), Colorado.
- Leslie W. Hunter**, M.S.W., Supervisor of Medical Social Service Department; Associate Professor (1965).
M.A. (1944), Royal Hungarian Peter Pazmany University (Budapest); M.S.W. (1956), Southern California.
- †**Peter L. Hurst**, M.D., Assistant Clinical Professor of Pediatrics (1956).
B.S. (1950), Antioch; M.D. (1950), Washington University.
- †**William W. Hurst**, M.D., Assistant Clinical Professor of Medicine (1952).
B.S. (1942), Idaho State; B.M. (1945), M.D. (1946), Northwestern.
- Tyra T. Hutchens**, M.D., Professor of Clinical Pathology and Radiology (Radioisotopes); Chairman of Department of Clinical Pathology (1953).
B.S. (1943), M.D. (1945), Oregon.
- Jack H. Hutchinson**, B.A., Instructor in Medicine (1961).
B.A. (1949), Lewis and Clark.
- †**Theodore L. Hyde**, M.D., Clinical Instructor in Surgery (1964).
B.S. (1925), Minnesota; M.D. (1927), Harvard.

† Volunteer.

- †**Milton D. Hyman, M.D.**, Associate Clinical Professor of Radiology (1945).
B.A. (1932), College of City of New York; M.S. (1933), M.D. (1937), Long Island (New York University).
- †**Selma Hyman, M.D.**, Associate Clinical Professor of Radiology (1944).
B.S. (1932), M.D. (1938), New York University.
- †**Toshio Inahara, M.D.**, Clinical Instructor in Surgery (1956).
B.S. (1948), M.D. (1950), Oregon.
- †**Samuel Irwin, Ph.D.**, Professor of Pharmacology in Psychiatry (1964).
B.A. (1948), Rutgers; Ph.D. (1954), Michigan.
- John B. Isom, M.D.**, Associate Professor of Neurology and Pediatrics (1963).
B.A. (1950), M.D. (1954), Vanderbilt.
- †**Robert C. Jackson, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1957).
B.S. (1944), M.D. (1947), Oregon.
- William W. Jackson, B.S.**, Instructor, Animal Care (1965).
B.S. (1949), Howard.
- Stanley W. Jacob, M.D.**, Associate Professor of Surgery (1959).
B.A. (1945), M.D. (1948), Ohio State.
- †**Frank M. Jacobson, M.D.**, Clinical Instructor in Pediatrics (1962).
M.D. (1951), Oregon.
- †**Sheldon A. Jacobson, M.D.**, Associate Clinical Professor of Pathology (1950).
A.B. (1922), College of City of New York; M.D. (1928), Yale.
- †**David W. James, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1949).
B.S. (1930), Denison; M.D. (1933), Ohio State; M.S. (1940), Wayne.
- †**John Paul Jarabak, D.D.S.**, Clinical Associate in Dental and Oral Medicine (1960).
D.D.S. (1939), Indiana.
- Virginia L. Jentoft, B.S.**, Instructor in Pathology (1965).
B.S. (1951), University of Washington.
- †**Naraindas B. Jetmalani, D.P.M.**, Assistant Clinical Professor of Psychiatry (1964).
D.P.M. (1953), Netherne Hospital, Surrey, England.
- Donald R. Johnson, M.D.**, Instructor in Ophthalmology (1965).
B.A. (1951), Minnesota; A.M. (1952), Harvard; M.D. (1961), Stanford.
- †**Robert B. Johnson, M.D.**, Clinical Instructor in Medicine (1954).
M.D. (1948), Nebraska.
- †**Roderick L. Johnson, M.D.**, Clinical Instructor in Surgery (1960).
B.S. (1948), M.D. (1951), University of Washington.
- †**Warren E. Johnson, M.A.**, Clinical Instructor in Audiology, Otolaryngology (1962).
A.B. (1949), Wabash; M.A. (1950), Northwestern.
- †**Russell L. Johnsrud, M.D.**, Assistant Clinical Professor of Surgery (1936).
B.A. (1930), M.D. (1933), Oregon.
- George I. Johnston, B.S.**, Director of Research Instrument Service; Instructor (1961).
B.S. (1955), Johns Hopkins.

† Volunteer.

† Part-time.

- †**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.
- †**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., Ph.D.**, Associate Professor of Biochemistry and Experimental Medicine (1961).
B.S. (1953), M.S., M.D. (1956), Oregon; Ph.D. (1961), California Institute of Technology.
- †**Lewis W. Jordan, M.D.**, Assistant Clinical Professor of Otolaryngology (1936).
B.S. (1929), M.D. (1931), Oregon.
- Terence M. Joys, Ph.D.**, Assistant Professor of Bacteriology (1965).
B.Sc. (1957), Leeds (England); Ph.D. (1961), Lister Institute of University of London.
- †**Robert L. Kalez, M.D.**, Clinical Instructor in Urology (1963).
B.S. (1954), Gonzaga; M.D. (1957), Creighton.
- †**Huldrick Kammer, M.D.**, Clinical Professor of Medicine (1949).
B.A. (1936), Wisconsin; B.M. (1940), M.D. (1941), Northwestern.
- †**John F. Kane, M.D.**, Assistant Clinical Professor of Surgery (1960).
M.D. (1943), Marquette.
- Frederick H. Kanfer, Ph.D.**, Professor of Medical Psychology (1962).
B.S. (1948), Long Island; M.A. (1952), Ph.D. (1953), Indiana.
- John O. Kangas, Ph.D.**, Assistant Professor of Medical Psychology (1960).
B.A. (1953), Ph.D. (1958), Minnesota.
- †**Reinhold Kanzler, M.D.**, Clinical Instructor in Surgery (1958).
B.S. (1934), M.S. (1937), M.D. (1938), Oregon.
- Donald G. Kassebaum, M.D.**, Assistant Professor of Medicine (1962).
B.A. (1955), Reed; M.D. (1956), Oregon.
- †**John P. Keizer, M.D.**, Assistant Clinical Professor of Ophthalmology (1953).
B.A. (1934), M.D. (1937), Oregon.
- †**Eugene O. Kelley, D.M.D.**, Clinical Instructor in Dental and Oral Medicine (1963).
B.S. (1957), Oregon State; D.M.D. (1959), Oregon.
- Robert E. Kellum, M.D.**, Instructor in Dermatology (1965).
B.A. (1952), M.D. (1955), Colorado.
- †**Donald F. Kelly, M.D.**, Clinical Instructor in Pediatrics; Clinical Associate in Dental and Oral Medicine (1959).
B.S. (1949), University of Portland; M.D. (1954), Oregon.
- John W. Kendall, Jr., M.D.**, Assistant Professor of Medicine (1962).
B.A. (1952), Yale; M.D. (1956), University of Washington.
- Lena Kenin, M.D.**, Assistant Professor of Psychiatry (1960).
B.S. (1921), University of Washington; M.D. (1929), Oregon.

† Volunteer.

† Part-time.

- †**Elton Kessel, M.D.**, Clinical Instructor in Public Health and Preventive Medicine (1961).
B.A. (1940), University of Chicago; M.D. (1952), Chicago Medical School; M.P.H. (1960), Harvard.
- †**Calvin H. Kiest, Jr., M.D.**, Clinical Associate in Orthopedic Surgery (1960).
B.S. (1951), Oregon State; M.D. (1955), Oregon.
- †**A Gurney Kimberley, M.D., D.Sc.**, Assistant Clinical Professor of Orthopedic Surgery (1937).
B.S. (1929), M.D. (1930), Oregon; D.Sc. (Med.) (1937), Columbia.
- †**Frederick A. J. Kingery, M.D.**, Assistant Clinical Professor of Dermatology (1959).
B.S. (1949), Yale; M.D. (1953), New York University.
- Richard A. Kingsbury, M.D.**, Instructor in Surgery (1965).
B.S. (1956), Tufts; M.D. (1960), Harvard.
- †**Gerald E. Kinzel, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1946).
B.A. (1933), M.D. (1936), Oregon.
- Dietrich Kirchheim, M.D.**, Assistant Professor of Urology (1964).
M.D. (1951), Goethe, West Germany.
- †**Anton C. Kirchhof, M.D.**, Clinical Instructor in Pharmacology (1965).
B.A. (1941), M.S., M.D. (1943), Oregon.
- †**George W. Kittinger, Ph.D.**, Associate Professor of Biochemistry (Primate Center) (1965).
B.S. (1948), M.S. (1950), Northwestern; Ph.D. (1953), Oregon.
- Harvey D. Klevit, M.D.**, Assistant Professor of Pediatrics (1964).
A.B. (1952), M.D. (1956), Temple.
- †**Edward K. Kloos, M.D.**, Assistant Clinical Professor of Neurosurgery (1948).
A.B. (1934), Western Reserve; M.D. (1938), Rochester; M.S. (1943), Minnesota.
- Frank E. Kloster, M.D.**, Instructor in Medicine (1965).
B.S. (1955), Iowa State; M.D. (1958), Iowa.
- Robert D. Koler, M.D.**, Professor of Medicine; Head of Division of Hematology and Experimental Medicine (1953).
B.A. (1945), M.D. (1947), Oregon.
- John D. Koontz, B.S.**, Instructor in Clinical Pathology (1963).
B.S. (1954), Oregon.
- Nancy Kosterlitz, M.A.**, Assistant Professor of Psychiatric Social Work, Psychiatry (1962).
B.A. (1945), M.A. (1950), University of Chicago.
- †**Richard H. Kosterlitz, M.D.**, Clinical Associate in Medicine (1958).
B.S., M.D. (1949), Illinois.
- †**Arthur D. Kracke, M.D.**, Clinical Instructor in Pediatrics (1963).
B.A. (1955), North Dakota; M.D. (1958), McGill.
- †**Lewis J. Krakauer, M.D.**, Clinical Associate in Medicine (1956).
A.B. (1947), Williams; M.D. (1951), Harvard.
- †**Alfred J. Kreft, M.D.**, Clinical Associate in Ophthalmology (1951).
B.S. (1933), M.D. (1936), Illinois.
- †**Paul O. Kretschmar, M.D.**, Clinical Associate in Medicine (1961).
B.S. (1952), South Dakota; M.D. (1954), Illinois.

† Volunteer.
‡ Part-time.

- †**Marion L. Krippaehne, M.D.**, Assistant Clinical Professor of Medicine (1952).
B.S. (1944), University of Washington; M.D. (1948), Oregon.
- William W. Krippaehne, M.D.**, Kenneth A. J. Mackenzie Professor of Surgery; Chairman of Department (1953).
B.S. (1943), University of Washington; M.D. (1946), Oregon.
- †**John J. Krygier, M.D.**, Assistant Clinical Professor of Medicine (1943).
B.S. (1936), M.D. (1938), Wisconsin.
- †**W. James Kuhl, Jr., M.D.**, Clinical Associate in Medicine (1960).
B.A. (1944), Whitman; M.D. (1947), Johns Hopkins.
- †**Clifford Kuhn, M.D.**, Assistant Clinical Professor of Otolaryngology (1940).
B.A. (1928), M.D. (1932), Oregon; M.A. (1943), Pennsylvania.
- †**Merle M. Kurtz, M.D.**, Clinical Associate in Medicine (1956).
B.A. (1949), College of Idaho; M.D. (1953), Oregon.
- †**Bruce N. Kvernland, M.D.**, Clinical Instructor in Neurosurgery (1952).
B.A. (1942), Reed; M.D. (1943), Oregon.
- Daniel H. Labby, M.D.**, Professor of Medicine; Head of Division of Diabetes and Metabolism (1947).
B.A. (1935), Reed; M.D. (1939), Oregon.
- †**George H. Lage, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1942).
B.A. (1936), Oregon State; M.D. (1939), Oregon.
- †**Donald R. Laird, M.D.**, Assistant Clinical Professor of Surgery (1939).
A.B. (1928), Grinnell; M.S. (1933), M.D. (1934), Rush (University of Chicago); M.S. (1938), Minnesota.
- †**Richard A. Lalli, M.D.**, Clinical Instructor in Ophthalmology (1963).
B.S. (1954), Oregon State; M.D. (1956), Oregon.
- †**Ellery L. Landers, M.D.**, Clinical Associate in Anesthesiology (1962).
B.A. (1930), M.D. (1932), Oregon.
- †**Eugene W. Landreth, M.D.**, Assistant Clinical Professor of Clinical Pathology (1957).
B.S. (1946), M.D. (1948), Oregon.
- †**Darrell W. Landrey, M.D.**, Clinical Instructor in Otolaryngology (1964).
B.Sc. (1954), University of Portland; M.D. (1956), Oregon.
- †**Laurence R. Langston, M.D.**, Clinical Associate in Orthopedic Surgery (1956).
B.A. (1947), M.D. (1951), Oregon.
- †**Albert E. Lerner, M.D., Ph.D.**, Clinical Instructor in Dermatology (1963).
B.S.A. (1946), Ontario Agriculture College; M.S. (1948), Toronto; Ph.D. (1955), Michigan; M.D. (1959), Toronto.
- †**John A. Larrabee, M.D.**, Assistant Clinical Professor of Pediatrics (1948).
B.A. (1938), Nebraska; M.D. (1942), University of Chicago.
- †**L. William Larson, M.D.**, Clinical Instructor in Medicine (1959).
B.S. (1949), M.D. (1951), Minnesota.
- †**Robert L. Larson, M.D.**, Clinical Instructor in Orthopedic Surgery (1962).
B.A. (1949), Montana State University; M.D. (1953), George Washington; M.S. (Orth. Surg.) (1960), Minnesota.
- Gerald J. Lattig, M.D.**, Assistant Professor of Clinical Pathology (1958).
B.S. (1944), Idaho; M.D. (1949), Oregon.

† Volunteer.
‡ Part-time.

- †**Gary H. Leaverton, M.D.**, Clinical Instructor in Surgery (1962).
B.S. (1953), M.D. (1955), Oregon.
- †**G. Prentiss Lee, M.D.**, Clinical Instructor in Surgery (1952).
B.A. (1939), Reed; M.D. (1943), Oregon.
- †**J. Robert Lee, M.D.**, Associate Clinical Professor of Radiology (1955).
B.A. (1944), Willamette; M.D. (1946), Oregon.
- Martin H. Lees, M.D.**, Associate Professor of Pediatrics (1963).
M.D. (1955), London University.
- †**Theodore H. Lehman, M.D.**, Assistant Clinical Professor of Urology (1958).
B.A. (1948), M.A. (1949), M.D. (1953), Nebraska.
- Richard L. Lessel, M.P.H.**, Instructor in Public Health and Preventive Medicine (1960).
B.S. (1957), University of Washington; M.P.H. (1959), North Carolina.
- Howard P. Lewis, M.D.**, Professor of Medicine; Chairman of Department (1932).
B.S. (1924), Oregon State; M.D. (1930), Oregon.
- †**William L. Lidbeck, M.D.**, Assistant Clinical Professor of Pathology (1941).
B.S. (1932), Wisconsin; M.D. (1934), Marquette.
- Herold S. Lillywhite, Ph.D.**, Professor of Speech Pathology, Pediatrics, (1957).
B.S. (1932), Utah State; M.A. (1939), Minnesota; Ph.D. (1943), New York University.
- James E. Lindemann, Ph.D.**, Associate Professor of Medical Psychology (1963).
B.S. (1950), M.S. (1951), Ph.D. (1954), Pennsylvania State.
- †**Aarne J. Lindgren, M.D.**, Assistant Clinical Professor of Medicine (1948).
B.S. (1936), M.S., M.D. (1942), Oregon.
- †**Verner V. Lindgren, M.D.**, Clinical Instructor in Surgery (1950).
B.A. (1942), Gustavus Adolphus; B.S. (1944), B.M. (1945), M.D. (1946), Minnesota.
- †**Richard H. Lindquist, M.D.**, Clinical Instructor in Surgery (1958).
B.S. (1946), South Dakota; M.D. (1947), Louisville.
- Louis Lino, Ph.D.**, Assistant Professor of Neurology (1958).
Ph.D. (1935), Faculty of Natural Sciences, Pisa, Italy.
- Adam W. Lis, Ph.D.**, Assistant Professor of Pathology (1965).
B.S. (1949), Arkansas; B.A. (1954), Ph.D. (1960), California.
- †**Charles E. Littlehales, M.D.**, Clinical Associate in Medicine (1939).
B.A. (1932), M.D. (1935), Oregon.
- †**James H. Lium, M.D.**, Associate Clinical Professor of Clinical Pathology (1953).
B.S. (1944), M.D. (1946), Oregon.
- †**Ernest T. Livingstone, M.D.**, Assistant Clinical Professor of Medicine (1955).
B.A. (1949), Reed; M.S., M.D. (1951), Oregon.
- Walter C. Lobitz, Jr., M.D.**, Professor of Dermatology; Head of Division (1959).
B.S. (1939), B.M. (1940), M.D. (1941), Cincinnati; M.Sc. (1945), Minnesota; M.A. (Hon.) (1957), Dartmouth.
- †**Norman D. Logan, M.D.**, Clinical Instructor in Orthopedic Surgery (1962).
B.A. (1951), Oregon State; M.D. (1955), Oregon.

† Volunteer.
‡ Part-time.

- †**George B. Long, M.D.**, Clinical Professor of Medicine; Senior Consultant in Gastroenterology (1943).
B.A. (1934), Montana State University; M.D. (1939), Northwestern.
- †**John Wayne Loomis, M.D.**, Assistant Clinical Professor of Radiology (1951).
B.A. (1940), Reed; M.D. (1943), Oregon.
- †**Lawrence M. Lowell, M.D.**, Assistant Clinical Professor of Cardiopulmonary Surgery (1950).
B.S. (1933), Washington State; M.D. (1936), Oregon.
- †**Henrik A. B. Lundh, M.D.**, Instructor in Medicine (Veterans Hospital) (1965).
M.D. (1957), University of Washington.
- †**Lee B. Lusted, M.D.**, Professor of Radiology (Primate Center) (1962).
B.A. (1943), Cornell College; M.D. (1950), Harvard.
- †**George P. Lyman, M.D.**, Clinical Associate in Ophthalmology (1954).
B.A. (1926), Pomona; M.D. (1931), Yale.
- †**Richard B. Lyons, M.D.**, Assistant Professor of Anatomy and Experimental Medicine (1961).
B.S. (1957), M.S., M.D. (1960), Oregon.
- †**J. Oppie McCall, Jr., M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1950).
B.A. (1938), Hamilton; M.D. (1942), New York University.
- Elton L. McCawley, Ph.D.**, Professor of Pharmacology (1949).
A.B. (1938), M.S. (1939), Ph.D. (1942), California.
- †**Guy R. McCutchan, M.D.**, Clinical Associate in Medicine (1939).
B.S. (1929), Grand Island; M.D. (1931), Nebraska.
- †**Robert G. McKillop, M.D.**, Clinical Instructor in Orthopedic Surgery (1964).
B.A. (1949), Augustana; B.S. (1954), South Dakota; M.D. (1956), Northwestern.
- †**Donald McKinley, M.D.**, Clinical Instructor in Psychiatry (1958).
B.A. (1940), Reed; M.D. (1942), Oregon.
- †**Matthew McKirdie, M.D.**, Associate Clinical Professor of Surgery (1940).
B.S. (1929), University of Chicago; M.D. (1934), Rush (University of Chicago).
- †**Edward N. McLean, M.D.**, Assistant Clinical Professor of Ophthalmology (1957).
M.D. (1948), Johns Hopkins.
- †**Raymond A. McMahon, M.D.**, Clinical Associate in Medicine (1938).
B.A. (1932), Ripon; M.D. (1937), Wisconsin.
- †**Wilbur P. McNulty, M.D.**, Associate Professor of Pathology (Primate Center) (1964).
B.S. (1947), Michigan; M.D. (1952), Yale.
- †**Laurence K. MacDaniels, M.D.**, Assistant Clinical Professor of Medicine (1949).
B.A. (1937), Reed; M.D. (1941), Oregon.
- †**Curtis A. Macfarlane, M.D.**, Assistant Clinical Professor of Urology (1958).
B.A. (1949), M.D. (1951), Wisconsin.
- †**David W. Macfarlane, M.D.**, Assistant Clinical Professor of Pediatrics (1956).
B.S. (1948), M.S., M.D. (1951), Illinois.

† Volunteer.
‡ Part-time.

- †**Stephen W. Maks, M.D.**, Clinical Instructor in Medicine (1959).
B.S. (1950), University of Portland; M.D. (1953), Creighton.
- †**Manuel R. Malinow, M.D.**, Associate Professor of Medicine (Primate Center) (1963).
B.S. (1938), Colegio Nacional de Buenos Aires; M.D. (1944), Buenos Aires Medical School.
- †**Arthur Malley, Ph.D.**, Assistant Professor of Bacteriology (Primate Center) (1964).
B.A. (1953), B.S. (1957), San Francisco State; Ph.D. (1961), Oregon State.
- †**Robert W. Marcum, M.D.**, Clinical Associate in Surgery (1951).
B.S. (1934), Pacific University; M.D. (1940), Oregon.
- †**F. Keith Markee, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1952).
B.A. (1944), Willamette; M.D. (1946), Oregon.
- †**R. Kent Markee, M.D.**, Clinical Instructor in Surgery (1953).
B.A. (1944), Willamette; M.D. (1946), Oregon.
- †**Richard E. Markley, M.D.**, Clinical Associate in Ophthalmology (1953).
B.A. (1938), Denver; M.D. (1942), Colorado.
- Victor C. Marquardt, Jr., M.D.**, Assistant Professor of Clinical Pathology (1964).
B.A. (1953), Wesleyan; M.D. (1957), Nebraska.
- †**Alfred N. Marshall, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1957).
B.S. (1932), University of Washington; M.D. (1937), Oregon.
- †**Harry W. Masenhimer, Jr., M.D.**, Clinical Instructor in Medicine (1960).
B.A. (1949), Princeton; M.D. (1953), Johns Hopkins.
- Howard S. Mason, Ph.D.**, Professor of Biochemistry (1952).
B.S. (1935), M.S. (1936), Ph.D. (1939), Massachusetts Institute of Technology.
- †**James A. Mason, M.D.**, Clinical Associate in Orthopedic Surgery (1948).
B.S. (1930), M.D. (1932), Nebraska.
- †**Robert E. Mass, M.D.**, Associate Professor of Medicine (Veterans Hospital) (1957).
B.A. (1948), M.D. (1951), Oregon.
- †**John Clifton Massar, M.D.**, Assistant Clinical Professor of Dermatology (1955).
B.S. (1945), University of Washington; M.D. (1948), Oregon.
- †**Oliver N. Massengale, M.D.**, Clinical Instructor in Pediatrics (1963).
B.A. (1951), Vanderbilt; M.D. (1955), Johns Hopkins.
- Joseph D. Matarazzo, Ph.D.**, Professor of Medical Psychology; Chairman of Department (1957).
B.A. (1946), Brown; M.S. (1950), Ph.D. (1952), Northwestern.
- Ruth G. Matarazzo, Ph.D.**, Associate Professor of Medical Psychology (1957).
B.A. (1948), Brown; M.S. (1952), Ph.D. (1955), Washington University.
- †**Willard L. Mathiesen, M.D.**, Clinical Instructor in Surgery (1956).
M.D. (1945), College of Medical Evangelists (Loma Linda).
- †**Roy R. Matteri, M.D.**, Assistant Clinical Professor of Medicine (1946).
B.S. (1940), M.D. (1942), Creighton.
- Fred A. Matthias, B.B.A.**, Business Manager; Associate Professor (1962).
B.B.A. (1949), Oregon.

† Volunteer.

‡ Part-time.

- †**Gordon L. Maurice, M.D.**, Clinical Associate in Medicine (1949).
B.S. (1940), Washington State; M.D. (1943), Oregon.
- Winston E. Maxwell, M.D.**, Instructor in Medicine (1965).
B.A. (1957), M.D. (1962), Oregon.
- †**John Arthur May, M.D.**, Assistant Clinical Professor of Pediatrics (1948).
B.A. (1939), University of Washington; M.D. (1943), Oregon.
- †**Thomas L. Meador, M.D.**, Clinical Instructor in Public Health and Preventive Medicine (1947).
B.A. (1921), M.A. (1924), M.D. (1937), Oregon; M.P.H. (1940), Yale.
- †**Norbert E. Medved, M.D.**, Clinical Associate in Medicine (1956).
B.S. (1946), M.D. (1948), Creighton.
- Robert J. Meechan, M.D.**, Associate Professor of Pediatrics (1956).
B.A. (1951), Oregon State; M.S., M.D. (1953), Oregon.
- †**Edward Colton Meek, Jr., M.D.**, Assistant Clinical Professor of Clinical Pathology and Associate Clinical Professor of Pathology (1953).
B.S. (1941), Oregon State; M.D. (1944), Johns Hopkins.
- †**S. Spence Meighan, M.B.**, Clinical Instructor in Medicine (1964).
M.B. (1945), Glasgow, Scotland.
- Victor D. Menashe, M.D.**, Assistant Director of Crippled Children's Division; Associate Professor of Pediatrics (1958).
B.S. (1951), M.D. (1953), Oregon.
- †**Robert A. Mendelson, M.D.**, Clinical Instructor in Pediatrics (1964).
B.A. (1955), Reed; M.D. (1959), Oregon.
- †**Ruth L. Mercer, M.A.**, Clinical Instructor in Dietetics (1958).
B.A. (1941), Kansas; M.A. (1948), Columbia.
- †**Rolland C. Merrifield, M.D.**, Clinical Instructor in Orthopedic Surgery (1955).
B.A. (1942), M.D. (1945), Oregon.
- James Metcalfe, M.D.**, Professor of Medicine, Oregon Heart Association Chair of Cardiovascular Research (1961).
A.B. (1944), Brown; M.D. (1946), Harvard.
- †**Donald C. Mettler, M.D.**, Assistant Clinical Professor of Otolaryngology (1956).
B.S. (1952), M.D. (1947), Indiana.
- Ernest A. Meyer, Sc.D.**, Assistant Professor of Bacteriology (1958).
A.B. (1949), California; M.S. (1953), Purdue; Sc.D. (1958), Johns Hopkins.
- Robert D. Michel, M.D.**, Assistant Professor of Medicine (Tuberculosis Hospital) (1958).
B.S. (1937), Northwestern; M.D. (1954), Oregon.
- †**Robert L. Mighell, M.D.**, Assistant Clinical Professor of Psychiatry (1962).
B.A. (1950), M.D. (1953), State University of Iowa.
- †**David B. Miller, Jr., M.D.**, Clinical Instructor in Surgery (1959).
B.A. (1949), Dartmouth; M.D. (1953), New York University.
- †**Robert S. Miller, M.D.**, Assistant Clinical Professor of Radiology (1960).
B.A. (1951), Willamette; M.D. (1955), Oregon.
- †**Joseph C. Mitchell, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1958).
B.A. (1951), M.D. (1952), Oregon.

† Volunteer.

‡ Part-time.

- †**William Montagna**, Ph.D., D.Sc., Professor of Experimental Biology; Head of Division (Director, Oregon Regional Primate Center) (1963).
B.A. (1936), Ph.D. (1944), Cornell; D.Sc. (1960), Bethany.
- †**Thomas R. Montgomery**, M.D., Clinical Professor of Urology (1939).
B.A. (1928), M.D. (1932), Oregon.
- †**David W. Moore**, M.D., Clinical Instructor in Obstetrics and Gynecology (1953).
M.D. (1947), Western Reserve.
- †**Eddie S. Moore**, M.D., Clinical Instructor in Pediatrics (1964).
B.S. (1957), J. C. Smith; M.D. (1961), Meharry.
- †**Raymond E. Moore**, M.D., Clinical Instructor in Physical Medicine (1958).
B.A. (1951), Reed; M.D. (1953), Oregon.
- †**Robert J. Moore**, M.D., Assistant Clinical Professor of Urology (1960).
B.A. (1951), M.D. (1955), Oregon.
- †**Joseph I. Moreland**, M.D., Clinical Associate in Ophthalmology (1951).
B.S. (1940), M.D. (1941), Washington University.
- Alan L. Morgenstern**, M.D., Instructor in Psychiatry (1965).
B.A. (1954), Cornell; M.D. (1959), Duke.
- †**James F. Morris**, M.D., Associate Professor of Medicine (Veterans Hospital) (1957).
A.B. (1943), Ohio Wesleyan; M.D. (1948), Rochester.
- †**Thomas E. Morris, Jr.**, M.D., Clinical Associate in Medicine (1960).
B.A. (1938), Pacific University; M.D. (1952), Oregon.
- †**Carl V. Morrison**, M.D., Associate Clinical Professor of Psychiatry (1947).
M.D. (1933), Iowa.
- †**Seymour R. Moss**, M.D., Clinical Instructor in Psychiatry (1962).
B.A. (1949), Iowa; M.D. (1956), Illinois.
- †**Jan J. Muller**, D.D.S., Clinical Associate in Dental and Oral Medicine (1959).
H.B.S. (1935), Drafne Lyceum, Bussum, Holland; D.D.S. (1939), Minnesota.
- †**John J. Murphy**, M.D., Clinical Associate in Medicine (1948).
B.A. (1938), Carroll; M.D. (1942), Michigan.
- Roberta S. Murray**, Ph.D., Instructor in Speech Pathology, Pediatrics (1964).
B.A. (1955), Brigham Young; M.A. (1959), Ph.D. (1962), Stanford.
- †**Paul B. Myers**, M.D., Assistant Clinical Professor of Otolaryngology (1950).
B.A. (1944), Oregon State; M.D. (1946), Oregon.
- †**Joseph W. Nadal**, M.D., Assistant Clinical Professor of Surgery (1944).
A.B. (1932), Drury; M.D. (1937), Harvard; M.S. (1941), Michigan.
- †**George A. Nash**, M.D., Assistant Clinical Professor of Pediatrics (1954).
B.S. (1945), M.D. (1948), Oregon.
- William A. Neill**, M.D., Assistant Professor of Medicine (1963).
B.A. (1951), Amherst; M.D. (1955), Cornell.
- †**Duncan R. Neilson**, M.D., Associate Clinical Professor of Obstetrics and Gynecology (1946).
A.B. (1934), Pacific University; M.D. (1938), Oregon.
- †**Gunnar E. C. Nelson**, M.D., Associate Clinical Professor of Obstetrics and Gynecology (1937).
Ph.G. (1923), B.S. (1925), Washington State; M.D. (1933), Oregon.

† Volunteer.

‡ Part-time.

- †**Marilyn A. Nelson**, M.D., Clinical Instructor in Pediatrics (1963).
B.S. (1956), Lewis and Clark; M.D. (1959), Oregon.
- †**Harry Newman**, M.D., Clinical Instructor in Radiology (1959).
B.S. (1952), University of Portland; M.D. (1954), Oregon.
- †**Gregory B. Nichols**, M.D., Clinical Instructor in Radiology (1950).
M.D. (1943), Creighton.
- †**H. Minor Nichols**, M.D., Clinical Associate in Surgery (1940).
Ph.B. (1930), Yale; M.D. (1934), Oregon; M.S. (1937), Pennsylvania.
- Kenneth A. Niehans**, Director of Public Affairs; Instructor (1963).
B.A. (1957), Oregon.
- Nelson R. Niles**, M.D., Associate Professor of Pathology (1952).
M.D. (1947), Cornell.
- †**Lawrence Noall**, M.D., Associate Clinical Professor of Orthopedic Surgery (1941).
B.A. (1931), B.M. (1934), Utah; M.D. (1936), Northwestern.
- †**Joseph E. Nohlgren**, M.D., Associate Clinical Professor of Pathology (1949).
B.S. (1935), South Dakota State; M.D. (1943), Oregon.
- †**Harold J. Noyes**, D.D.S., M.D., Clinical Professor of Dental and Oral Medicine; Head of Division (1946).
Ph.B. (1923), University of Chicago; B.S. (1928), D.D.S. (1928), Illinois; M.D. (1933), Rush (University of Chicago).
- Evelyn L. Oginsky**, Ph.D., Professor of Bacteriology (1957).
B.A. (1938), Cornell; M.S. (1939), University of Chicago; Ph.D. (1946), Maryland.
- †**John D. O'Hollaren**, M.D., Clinical Associate in Medicine (1959).
B.S. (1945), M.D. (1947), Oregon.
- Richard W. Olmsted**, M.D., Professor of Pediatrics; Chairman of Department (1962).
B.A. (1941), Dartmouth; M.D. (1944), Harvard.
- †**Donald E. Olson**, M.D., Assistant Clinical Professor of Medicine (1955).
B.A. (1943), Reed; M.S., M.D. (1947), Ph.D. (1948), Oregon.
- †**William R. Olson**, M.D., Clinical Instructor in Medicine (1961).
B.S. (1950), M.D. (1954), Creighton.
- †**James R. Orendurff**, M.D., Clinical Instructor in Pathology (1964).
B.A. (1950), M.A. (1954), M.D. (1959), 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 (1922).
B.A. (1923), M.A., M.D. (1924), Oregon.
- †**Samuel B. Osgood**, M.D., Clinical Instructor in Public Health and Preventive Medicine (1951).
B.S. (1931), M.D. (1935), Oregon; M.S.P.H. (1939), California.
- Harold T. Osterud**, M.D., Professor of Public Health and Preventive Medicine (1961).
B.S. (1944), Randolph Macon; M.D. (1947), Medical College of Virginia; M.P.H. (1951), North Carolina.
- †**Arthur L. Ovregaard**, M.D., Clinical Instructor in Radiology (1954).
B.A. (1944), College of Idaho; M.D. (1948), Oregon.

† Volunteer.

- †**Albert A. Oyama, M.D.**, Assistant Clinical Professor of Pathology and Clinical Pathology (1959).
B.S. (1951), M.D. (1953), Oregon.
- †**Otto C. Page, M.D.**, Assistant Clinical Professor of Medicine (1952).
B.S. (1941), M.D. (1944), Boston University.
- †**Marion E. Palmer, M.D.**, Clinical Instructor in Anesthesiology (1950).
B.S. (1938), Stanford; M.D. (1944), Washington University.
- †**Richard P. Panian, M.D.**, Clinical Instructor in Otolaryngology (1965).
B.S. (1952), Oregon State; M.D. (1960), Oregon.
- †**Joseph F. Paquet, M.D.**, Assistant Clinical Professor of Medicine (1944).
M.D. (1940), Duke.
- M. Ronald Parelius, M.Sc., LL.B.**, Director of Research Services; Instructor (1962).
B.B.A. (1953), Oregon; M.Sc. (1954), New York University; LL.B. (1962), Northwestern College of Law.
- †**Max H. Parrott, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1949).
B.S. (1938), Oregon State; M.D. (1940), Oregon; M.S. (1949), Michigan.
- †**Philip F. Parshley, Jr., M.D.**, Clinical Instructor in Surgery (1964).
A.B. (1953), Dartmouth; M.D. (1956), Harvard.
- †**Goudarz A. Parvaresh, M.D.**, Clinical Instructor in Psychiatry (1965).
M.D. (1956), Teheran (Iran).
- †**John W. Partridge, M.D.**, Clinical Associate in Medicine (1957).
B.S. (1943), M.D. (1945), University of Chicago.
- †**Robert W. Patton, M.D.**, Clinical Instructor in Surgery (1951).
B.S. (1936), St. Martin's; M.D. (1942), Creighton.
- †**David P. Paull, M.D.**, Clinical Instructor in Urology (1953).
B.A. (1942), Antioch; M.D. (1945), Western Reserve.
- †**Duane R. Paulson, D.D.S.**, Clinical Associate in Dental and Oral Medicine (1957).
B.S. (1949), Puget Sound; D.D.S. (1954), Northwestern.
- Ira B. Pauly, M.D.**, Assistant Professor of Psychiatry (1962).
B.A. (1954), M.D. (1958), U.C.L.A.
- †**Harold D. Paxton, M.D.**, Clinical Instructor in Neurosurgery (1956).
M.D. (1948), Johns Hopkins.
- †**Roy A. Payne, M.D.**, Clinical Associate in Medicine (1960).
B.S. (1953), University of Portland; M.D. (1955), Oregon.
- Anthony A. Pearson, Ph.D.**, Professor of Anatomy; Chairman of Department (1946).
B.S. (1928), Furman; M.A. (1930), Ph.D. (1933), Michigan.
- †**Anne M. Perley, M.A.**, Assistant Professor of Biochemistry (Primate Center) (1951).
B.A. (1927), Grinnell; M.A. (1929), Nebraska.
- †**Frank Perlman, M.D.**, Associate Clinical Professor of Medicine (1935).
B.S. (1931), M.D. (1933), Wisconsin.
- Robert H. Persellin, M.D.**, Assistant Professor of Medicine (1964).
B.S. (1952), M.D. (1956), M.S. (1959), Northwestern.
- Clare G. Peterson, M.D.**, Professor of Surgery (1944).
B.A. (1939), M.D. (1943), M.S. (1945), Oregon.

† Volunteer.

- Edward N. Peterson, M.D.**, Assistant Professor of Obstetrics and Gynecology (1961).
B.S. (1952), M.D. (1954), Minnesota.
- †**Heyes Peterson, M.D.**, Clinical Associate in Medicine (1947).
B.S. (1934), University of Washington; M.D. (1938), University of Chicago.
- †**Alexander E. Petroff, M.D.**, Clinical Instructor in Otolaryngology (1960).
B.S. (1949), Pacific University; M.S., M.D. (1955), Oregon.
- †**James L. Petroske, M.D.**, Clinical Instructor in Psychiatry (1965).
B.S. (1955), Portland; M.D. (1959), Oregon.
- †**Carl A. Petterson, M.D.**, Clinical Instructor in Medicine (1957).
B.A. (1938), M.D. (1942), Kansas.
- David S. Phillips, Ph.D.**, Assistant Professor of Medical Psychology (1963).
A.B. (1958), Wabash; M.S. (1960), Ph.D. (1962), Purdue.
- †**Jeanne S. Phillips, Ph.D.**, Associate Professor of Medical Psychology (1957).
A.B. (1951), Ph.D. (1957), Washington University.
- †**Richard H. Phillips, M.D.**, Clinical Instructor in Psychiatry (1964).
B.S. (1959), Portland State; M.D. (1960), Oregon.
- †**Charles H. Phoenix, Ph.D.**, Associate Professor of Medical Psychology (Primate Center) (1965).
B.A. (1945), Connecticut; M.A. (1950), Ph.D. (1954), Boston.
- †**Nigel A. Pickering, M.D.**, Assistant Clinical Professor of Clinical Pathology (1961).
M.D. (1945), Manitoba.
- †**Wayne M. Pidgeon, M.D.**, Assistant Clinical Professor of Psychiatry (1959).
B.S. (1947), M.D. (1951), Oregon.
- †**Charles T. Pinney, M.D.**, Clinical Instructor in Medicine (1959).
A.B. (1943), M.D. (1946), Michigan.
- Bernard Pirofsky, M.D.**, Associate Professor of Medicine; Head of Division of Immunology, Allergy, and Infectious Diseases (1956).
A.B. (1946), M.D. (1950), New York University.
- Donald M. Pitcairn, M.D.**, Professor of Medicine; Head of Division of Chest Diseases (1949).
B.A. (1944), Harvard; M.D. (1945), Oregon.
- †**Robert G. Pittenger, M.D.**, Clinical Instructor in Medicine (1957).
B.S. (1948), M.D. (1950), Oregon.
- Caroline H. Pommarane, B.S.**, Registrar; Assistant Professor (1943).
B.S. (1928), Nebraska.
- †**John Karl Poppe, M.D.**, Clinical Associate in Cardiopulmonary Surgery (1946).
A.B. (1933), Hamilton; M.D. (1937), Rochester.
- †**Donald R. Porter, D.D.S.**, Clinical Associate in Dental and Oral Medicine (1953).
D.D.S. (1951), M.S. (1953), Michigan.
- George A. Porter, M.D.**, Assistant Professor of Medicine (1964).
B.S. (1953), Oregon State; M.S., M.D. (1957), Oregon.
- †**Oscar W. Portman, M.D.**, Professor of Biochemistry (Primate Center) (1965).
B.S. (1945), U.S. Military Academy; M.D. (1954), Harvard.

† Volunteer.

- †**Irving Puziss, M.D.**, Clinical Instructor in Surgery (1956).
B.S. (1946), M.D. (1948), Oregon.
- Arlen Quan, M.D.**, Assistant Professor of Psychiatry (1964).
B.A. (1955), Reed; M.D. (1957), Oregon.
- †**John Raaf, M.D., Ph.D.**, Clinical Professor of Neurosurgery; Senior Consultant in Neurosurgery (1937).
B.A. (1926), M.D. (1930), Stanford; M.S. (1935), Ph.D. (1941), Minnesota.
- †**James Richard Raines, M.D.**, Assistant Clinical Professor of Radiology (1947).
B.A. (1933), M.D. (1935), Oklahoma.
- Alfred J. Rampone, Ph.D.**, Associate Professor of Physiology (1955).
B.A. (1947), M.A. (1950), British Columbia; Ph.D. (1954), Northwestern.
- James de Witt Rankin, B.S.**, Instructor in Cytotechnology, Pathology (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.
- †**Michael R. Rask, M.D.**, Clinical Instructor in Orthopedic Surgery (1965).
B.S. (1952), Oregon State; M.D. (1955), Oregon.
- L. Paul Raamussen, M.D.**, Associate Professor of Pediatrics (1962).
B.A. (1932), Utah; M.D. (1935), Duke.
- †**Jesse L. Ray, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1953).
B.A. (1935), M.D. (1939), Stanford.
- †**Leon F. Ray, M.D.**, Clinical Professor of Dermatology (1939).
Ph.C. (1930), North Pacific College of Pharmacy; B.S. (1931), Oregon State; M.D. (1935), Oregon.
- †**Ralph B. Reaume, M.D.**, Clinical Associate 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.
- †**Daniel L. Reed, M.D.**, Clinical Instructor in Surgery (1964).
B.S. (1952), Michigan State; M.D. (1956), Michigan.
- †**Sherman E. Rees, M.D.**, Clinical Associate in Radiology (1929).
M.D. (1925), Oregon.
- ††**Melvin M. Reeves, M.D.**, Clinical Instructor in Surgery (1957).
B.S. (1943), Hamline; B.M. (1946), M.D. (1947), M.S. (1957), Minnesota.
- †**Walter C. Reiner, M.D.**, Clinical Instructor in Surgery (1948).
B.S. (1930), Montana State University; M.D. (1934), College of Medical Evangelists (Loma Linda).
- †**Oren R. Richards, Jr., M.D.**, Clinical Instructor in Medicine (1951).
B.A. (1945), Reed; M.D. (1947), Oregon.
- †**Norman H. Rickles, D.D.S.**, Clinical Associate in Pathology and Dental and Oral Medicine (1957).
D.D.S. (1947), Washington University; M.S. (1951), California.
- Demetrios A. Rigas, Ph.D.**, Professor of Biochemistry and Experimental Medicine (1953).
Ch.E. (1941), Ph.D. (1943), National University of Engineering Science, Athens, Greece.

† Volunteer.
†† On leave of absence.

- †**James A. Riley, M.D.**, Clinical Associate 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.
- †**Leonard W. Ritzmann, M.D.**, Professor of Medicine (Veterans Hospital) (1954).
B.A. (1942), Valparaiso; M.D. (1945), Washington University.
- †**Joseph M. Roberts, M.D.**, Clinical Associate in Surgery (1936).
B.A. (1929), M.D. (1932), Oregon.
- Ralph D. Robertson, M.D.**, Instructor in Surgery (1964).
A.B. (1954), M.D. (1957), Harvard.
- †**George M. Robins, M.D.**, Assistant Clinical Professor of Medicine (1948).
B.A. (1936), Columbia; M.D. (1940), Louisville.
- †**Edwin G. Robinson, M.D.**, Clinical Associate in Orthopedic Surgery (1950).
M.D. (1930), Northwestern.
- †**Paul J. Robinson, M.D.**, Clinical Instructor in Ophthalmology (1962).
B.A. (1951), Southern California; M.D. (1955), Yale.
- Allan L. Rogers, B.S.**, Director of Animal Care Program; Assistant Professor (1961).
B.S. (1944), Connecticut.
- †**Wayne R. Rogers, M.D.**, Clinical Associate in Medicine (1956).
M.D. (1947), Tennessee.
- †**Beatrice K. Rose, M.D.**, Clinical Instructor in Medicine (1960).
B.A. (1943), M.D. (1946), George Washington.
- †**Hilton W. Rose, M.D.**, Assistant Clinical Professor of Environmental Medicine (1965).
L.L.S. (1927), Sorbonne; B.A. (1928), M.D. (1931), Oregon.
- †**Leonard B. Rose, M.D.**, Assistant Clinical Professor of Medicine (1956).
A.B. (1929), New York University; M.D. (1943), Georgetown.
- †**Edward E. Rosenbaum, M.D.**, Associate Clinical Professor of Medicine (1948).
B.S. (1936), M.D. (1938), Nebraska; M.S. (1947), Minnesota.
- †**William M. Rosenbaum, M.D.**, Clinical Instructor in Surgery (1949).
B.S. (1938), M.D. (1940), Nebraska.
- †**Millard S. Rosenblatt, M.D.**, Clinical Professor of Surgery (1930).
A.B. (1922), Stanford; M.D. (1925), Harvard.
- Benjamin B. Ross, Ph.D.**, Associate Professor of Physiology (1954).
B.S. (1949), Union; Ph.D. (1954), Rochester.
- John Clarence Roth, M.D.**, Associate Professor of Anesthesiology (1957).
B.A. (1949), Willamette; M.D. (1954), Oregon.
- †**John Gordon Roth, M.D.**, Assistant Professor of Neurology (Primate Center) (1958).
A.B. (1947), Wichita; M.D. (1950), Kansas.
- †**Willard D. Rowland, M.D.**, Clinical Associate in Surgery (1947).
A.B. (1936), M.D. (1940), Washington University.
- †**James T. Rule, D.D.S.**, Clinical Instructor in Dental and Oral Medicine (1963).
D.D.S. (1957), Temple; M.S. (1960), University of Chicago.

† Volunteer.

- †David R. Rullman, M.D., Clinical Instructor in Medicine (1964).
B.S. (1953), M.D. (1957), Cincinnati.
- †Irvin F. Rumbaugh, M.D., Clinical Instructor in Medicine (1963).
B.S. (1951), Franklin and Marshall; M.D. (1955), Pennsylvania.
- †Arnold Rustin, M.D., Assistant Clinical Professor of Urology (1954).
M.D. (1950), Iowa.
- †Bernard F. Ryan, M.D., Clinical Associate in Dermatology (1960).
B.A. (1934), M.D. (1936), Oregon; M.S. (1945), Minnesota.
- Richard G. Sanderson, M.D., Instructor in Cardiopulmonary Surgery (1965).
B.A. (1955), Wesleyan; M.D. (1959), Harvard.
- †Ivan L. Sandoz, M.D., Clinical Instructor in Urology (1964).
B.Sc. (1953), M.D. (1957), Ohio State.
- †Dajit T. Sarkaria, M.D., Ph.D., Assistant Professor of Pathology (Veterans Hospital) (1962).
B.S. (1942), M.S. (1944), Punjab University, Lahore, India; Ph.D. (1948), Cornell; M.D. (1957), Buffalo.
- George Saslow, M.D., Professor of Psychiatry; Chairman of Department (1957).
Sc.B. (1926), Ph.D. (1931), New York University; M.D. (1940), Harvard.
- Makato Sato, M.D., Ph.D., Assistant Professor of Neurosurgery (1965).
M.D. (1954), Ph.D. (1959), Iwate Medical College (Japan).
- †George R. Satterwhite, M.D., Clinical Instructor in Radiology (1959).
B.S. (1950), Seattle; M.D. (1953), St. Louis.
- †George C. Saunders, M.D., Clinical Associate in Otolaryngology (1933).
B.S. (1923), Virginia; M.D. (1927), Washington University.
- †Thomas S. Saunders, M.D., Clinical Professor of Dermatology (1937).
Ph.G. (1928), B.S. (1930), M.D. (1932), Maryland; M.S. (1937), Minnesota.
- †Bhim S. Savara, B.D.S., Clinical Associate in Dental and Oral Medicine (1950).
B.D.S. (1946), De Montmorency College of Dentistry, Lahore, India; L.D.S., R.C.S. (1947) Royal Dental Hospital, London, England; M.S. (1950), Illinois; D.M.D. (1957), Oregon.
- †Paul E. Schaff, M.D., Clinical Instructor in Anesthesiology (1959).
B.S. (1942), Idaho; M.D. (1951), Oregon.
- †Goodrich C. Schaffler, M.D., Associate Clinical Professor of Obstetrics and Gynecology (1925).
A.B. (1918), Williams; M.D. (1923), Harvard.
- George W. Schemm, M.D., Assistant Professor of Neurosurgery (1963).
B.S. (1952), Yale; M.D. (1955), Michigan.
- †Quinten Scherman, M.D., Clinical Instructor in Obstetrics and Gynecology (1953).
B.A. (1942), M.A. (1943), South Dakota; M.D. (1945), Oregon.
- †George J. Schunk, M.D., Assistant Clinical Professor of Pediatrics (1954).
A.B. (1943), Jamestown; B.S. (1944), North Dakota; M.D. (1946), Illinois.
- †Marvin Schwartz, M.D., Assistant Clinical Professor of Medicine (1945).
A.B. (1935), M.D. (1939), M.S. (1945), Wayne.
- †Gerald W. Schwiebing, M.D., Clinical Instructor in Urology (1955).
B.S. (1946), M.D. (1948), Wisconsin.

† Volunteer.
‡ Part-time.

- †William C. Scott, M.D., Clinical Associate in Medicine (1946).
B.S. (1935), College of Idaho; B.M. (1939), M.D. (1940), Northwestern.
- Arthur J. Seaman, M.D., Professor of Medicine (1948).
B.A. (1939), M.D. (1942), Cincinnati.
- †Philip Selling, M.D., Associate Clinical Professor of Medicine (1946).
B.A. (1935), Reed; M.D. (1939), Oregon.
- †Herbert J. Semler, M.D., Clinical Instructor in Medicine (1960).
B.S. (1949), University of Washington; M.S., M.D. (1953), Oregon.
- †Will L. Senders, M.D., Clinical Associate in Medicine (1957).
B.S. (1947), Willamette; M.D. (1950), Oregon.
- †David L. Sessions, M.D., Clinical Instructor in Pediatrics (1964).
A.B. (1954), Princeton; M.D. (1958), Washington University.
- Harry Shaich, M.S., Assistant Professor of Radiology (1962).
B.E.E. (1948), Cornell; M.S. (1958), State College, New York; M.S. (1962), Columbia.
- †Ralph E. Shambaugh, M.D., Clinical Instructor in Medicine (1960).
M.D. (1948), Nebraska.
- †James C. Shanklin, M.D., Assistant Clinical Professor of Psychiatry (1952).
M.D. (1939), Indiana.
- †John M. Shaw, M.D., Clinical Associate in Dermatology (1959).
M.D. (1949), Michigan.
- †William H. Sheldon, M.D., Clinical Professor of Medicine (1951).
B.A. (1919), Brown; M.A. (1923), Colorado; Ph.D. (1925), M.D. (1933), University of Chicago.
- †Fred C. Shipps, M.D., Assistant Clinical Professor of Radiology (1954).
A.B. (1942), Ohio Wesleyan; M.D. (1945), Western Reserve.
- †Nathan Shlim, M.D., Clinical Instructor in Surgery (1956).
B.A. (1937), Wisconsin; M.D. (1941), Rush (University of Chicago).
- †Faulkner A. Short, M.D., Clinical Associate in Orthopedic Surgery (1945).
B.A. (1932), M.D. (1936), Oregon.
- Frank Shubeck, M.D., Assistant Professor of Obstetrics and Gynecology (1958).
B.S. (1949), M.D. (1953), Michigan.
- Benjamin V. Siegel, Ph.D., Professor of Pathology (1961).
B.S. (1934), Georgia; M.A. (1937), Columbia; Ph.D. (1950), Stanford.
- †Max Simons, M.D., Clinical Instructor in Otolaryngology (1930).
M.D. (1924), Oregon.
- Richard L. Sleeter, M.D., Director of Crippled Childrens Division; Professor of Pediatrics (1953).
B.A. (1940), Oregon; M.D. (1943), Washington University.
- †Donald B. Slocum, M.D., Assistant Clinical Professor of Orthopedic Surgery (1956).
B.S. (1932), Stanford; M.D. (1935), Oregon; M.S. (1939), Tennessee.
- †Frank B. Smith, M.D., Associate Clinical Professor of Orthopedic Surgery (1944).
B.A. (1933), Southern California; C.M., M.D. (1937), McGill; M.A. (Orth. Surg.) (1943), Minnesota.
- †Frederic W. Smith, M.D., Associate Professor of Medicine (Veterans Hospital) (1960).
B.S. (1947), Kansas State; M.D. (1956), Cornell.

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‡ Part-time.

- †George S. Smith, M.D., Clinical Instructor in Pediatrics (1963).
B.S. (1948), M.D. (1958), Minnesota.
- †John C. Smith, M.D., Assistant Clinical Professor of Pathology (1960).
B.S. (1950), Oklahoma; M.D. (1954), Johns Hopkins.
- †Kent Ronald Smith, M.D., Clinical Instructor in Medicine (1963).
B.A. (1954), Reed; M.D. (1956), Oregon.
- †Lendon H. Smith, M.D., Assistant Clinical Professor of Pediatrics (1951).
B.A. (1944), Reed; M.D. (1946), Oregon.
- †Mary Anne Smith, M.D., Clinical Instructor in Psychiatry (1965).
B.A. (1951), Wellesley; M.D. (1959), Cornell.
- †Philip A. Snedecor, M.D., Clinical Instructor in Surgery (1958).
A.B. (1949), Stanford; M.D. (1953), Oregon.
- †Vinton D. Sneed, M.D., Clinical Professor of Pathology (1939).
B.A. (1932), Linfield; M.D. (1936), Oregon.
- William E. Snell, M.D., Professor of Orthopedic Surgery; Head of Division (1951).
B.S. (1943), M.D. (1945), Oregon.
- †R. Glenn Snodgrass, M.D., Clinical Instructor in Neurology (1964).
B.A. (1952), M.D. (1955), Kansas.
- †William M. Snook, M.D., Assistant Clinical Professor of Pediatrics (1954).
M.D. (1949), Virginia.
- †John L. Soelling, M.D., Assistant Clinical Professor of Medicine (1953).
B.A. (1944), Columbia; M.D. (1946), New York Medical College.
- †Charles H. Sparks, M.D., Clinical Associate in Cardiopulmonary Surgery (1958).
B.S. (1944), Missouri School of Mines; M.D. (1951), St. Louis.
- †James T. Speros, M.D., Associate Professor of Medicine (1940).
B.A. (1931), M.D. (1934), Oregon; M.P.H. (1941), Johns Hopkins.
- †Charles C. Spray, M.D., Clinical Instructor in Medicine (1964).
B.A. (1954), Minnesota; M.D. (1958), Northwestern.
- †John H. Springer, M.D., Assistant Clinical Professor of Pediatrics (1961).
B.S. (1953), University of Portland; M.D. (1957), Loyola.
- †George V. Squire, M.D., Clinical Instructor in Medicine (1959).
B.A. (1942), Iowa; B.S. (1949), M.D. (1951), Minnesota.
- †Walter R. Stahl, M.D., Clinical Instructor in Radiology (1959).
B.S. (1951), Massachusetts Institute of Technology; M.D. (1955), Harvard.
- Albert Starr, M.D., Professor of Cardiopulmonary Surgery; Head of Division (1957).
B.A. (1946), M.D. (1949), Columbia.
- †Grier F. Starr, M.D., Assistant Clinical Professor of Pathology (1959).
B.S. (1947), Jamestown; M.D. (1951), Northwestern.
- †Howard C. Stearns, M.D., Clinical Professor of Obstetrics and Gynecology (1932).
B.S. (1924), M.S. (1925), Oregon State; M.D. (1929), Oregon.
- †Dan N. Steffanoff, M.D., D.M.D., Clinical Associate in Surgery (1951).
B.A. (1930), M.D. (1934), D.M.D. (1942), Oregon.
- †John W. Stephens, M.D., Assistant Clinical Professor of Medicine (1953).
B.S. (1939), M.D. (1944), Alberta.

† Volunteer.
‡ Part-time.

- Janice R. Stevens, M.D., Associate Professor of Neurology (1955).
B.A. (1944), Reed; M.D. (1949), Boston University.
- †John L. Stevenson, Jr., M.D., Assistant Clinical Professor of Pediatrics (1957).
A.B. (1950), Stanford; M.D. (1954), Oregon.
- †Gordon A. Stoney, M.D., Clinical Instructor in Radiology (1965).
B.S. (1952), M.D. (1955), Cincinnati.
- William A. Stotler, Ph.D., Professor of Anatomy (1946).
A.B. (1935), Westminster; M.S. (1937), St. Louis; Ph.D. (1942), Cornell.
- †Evelyn M. Strange, D.M.D., Clinical Associate in Dental and Oral Medicine (1961).
D.M.D. (1950), Oregon.
- †Kurt R. Straube, M.D., Associate Clinical Professor of Radiology (1960).
M.D. (1952), Vienna.
- †Eugene S. Sullivan, M.D., Clinical Instructor in Surgery (1959).
B.S. (1950), M.D. (1953), Wisconsin.
- †Ralph R. Sullivan, M.D., Assistant Clinical Professor of Environmental Medicine; Clinical Instructor in Dermatology (1951).
B.S. (1927), M.B. (1929), M.D. (1930), Minnesota; M.P.H. (1942), Michigan.
- Raymond R. Suskind, M.D., Professor of Environmental Medicine and Dermatology; Head of Division of Environmental Medicine (1962).
A.B. (1934), Columbia; M.D. (1943), Long Island (New York University).
- †Donald W. Sutherland, M.D., Clinical Instructor in Medicine (1963).
B.A. (1953), Amherst; M.D. (1957), Harvard.
- Kenneth C. Swan, M.D., Professor of Ophthalmology; Chairman of Department (1944).
B.A. (1933), M.D. (1936), Oregon.
- †William D. Swancutt, M.D., Clinical Instructor in Otolaryngology (1962).
B.S. (1949), Oregon State; M.D. (1953), Oregon.
- Roy L. Swank, M.D., Ph.D., Professor of Medicine; Head of Division of Neurology (1953).
B.S. (1930), University of Washington; Ph.D. (1935), M.D. (1936), Northwestern.
- Robert E. Swanson, Ph.D., Associate Professor of Physiology (1961).
B.A. (1949), Ph.D. (1953), Minnesota.
- †William R. Sweetman, M.D., Clinical Associate in Cardiopulmonary Surgery (1953).
B.A. (1940), M.D. (1943), Yale.
- †John E. Swett, Ph.D., Clinical Instructor in Anatomy (1962).
B.A. (1956), Washington; Ph.D. (1960), U.C.L.A.
- †William J. Swett, M.D., Assistant Clinical Professor of Medicine (1938).
B.A. (1928), Reed; M.D. (1932), Oregon.
- †David S. Takalo, M.S., Clinical Instructor in Medical Technology (1956).
B.S. (1941), M.S. (1942), Oregon State.
- †Thomas E. Talbot, M.D., Assistant Clinical Professor of Ophthalmology (1953).
B.S. (1942), Oregon State; M.D. (1945), Oregon.
- †Ellen L. Talman, Ph.D., Assistant Professor of Biochemistry (Primate Center) (1955).
B.A. (1942), Reed; M.S. (1949), Ph.D. (1951), Oregon.

† Volunteer.

- K. Nolan Tanner, M.D., Ph.D.**, Instructor in Ophthalmology (1964).
B.A. (1943), Reed; Ph.D. (1950), Rochester; M.D. (1960), Oregon.
- Howard J. Tatum, M.D., Ph.D.**, Professor of Obstetrics and Gynecology (1958).
B.A. (1936), Ph.D. (1941), M.D. (1943), Wisconsin.
- †**Robert E. Taubman, M.D., Ph.D.**, Assistant Clinical Professor of Psychiatry (1964).
B.A. (1941), College of City of New York; M.A. (1942), Ph.D. (1948), Columbia; M.D. (1960), Nebraska.
- †**David K. Taylor, M.D.**, Assistant Clinical Professor of Medicine (1946).
B.A. (1929), College of Idaho; M.D. (1940), Oregon.
- †**E. Merle Taylor, M.D.**, Clinical Professor of Ophthalmology (1932).
M.D. (1925), Iowa.
- †**T. Glenn Ten Eyck, M.D.**, Assistant Professor of Otolaryngology (Veterans Hospital) (1946).
B.A. (1930), M.D. (1933), Oregon.
- Leif G. Terdal, Ph.D.**, Instructor in Medical Psychology (1965).
B.A. (1959), Taylor; M.A. (1961), Ph.D. (1965), Michigan State.
- †**Gerald A. Terman, M.D.**, Clinical Instructor in Ophthalmology (1963).
B.A. (1951), Chicago; M.D. (1957), Northwestern.
- †**Blair vH. Thatcher, M.D.**, Clinical Associate in Cardiopulmonary Surgery (1965).
M.D. (1944), Harvard.
- †**William O. Thomas, Jr., M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1949).
B.A. (1937), Dartmouth; M.D. (1941), Harvard.
- Betty B. Thompson, M.D.**, Instructor in Anesthesiology (1963).
B.S. (1956), Lewis and Clark; M.D. (1959), Oregon.
- Havelock Thompson, M.D.**, Instructor in Pediatrics (1965).
B.A. (1956), M.D. (1961), Colorado.
- Richard F. Thompson, Ph.D.**, Professor of Medical Psychology (1959).
B.S. (1952), Reed; M.S. (1953), Ph.D. (1956), Wisconsin.
- †**Robert E. Thornfeldt, M.D.**, Clinical Instructor in Pediatrics (1963).
B.S. (1942), Washington State; M.D. (1945), Northwestern.
- †**Robert H. Tinker, M.D.**, Clinical Instructor in Surgery (1942).
B.S. (1938), B.M. (1940), M.D. (1941), Illinois.
- †**Bruce L. Titus, M.D.**, Assistant Clinical Professor of Otolaryngology (1943).
B.A. (1930), M.D. (1934), Oregon.
- Wilbert R. Todd, Ph.D.**, Professor of Biochemistry (1936).
B.S. (1928), Ph.D. (1933), Wisconsin.
- John S. Tovey, M.S.W.**, Instructor in Psychiatric Social Work (1964).
B.S. (1955), Portland; M.S.W. (1959), St. Louis.
- Richard E. Tracy, M.D., Ph.D.**, Assistant Professor of Pathology (1965).
B.A. (1955), M.D., Ph.D. (1961), Chicago.
- Joseph B. Trainer, M.D.**, Associate Professor of Physiology and Medicine (1949).
B.S. (1939), M.S. (1941), University of Washington; M.D. (1946), Oregon.
- †**Paul Trautman, M.D.**, Clinical Instructor in Surgery (1965).
B.S. (1941), Yale; M.D. (1944), Tulane.

† Volunteer.

- †**John P. Trommald, M.D.**, Assistant Clinical Professor of Surgery (1939).
B.S. (1929), Yale; M.D. (1933), Harvard.
- Emily Tufts, M.D.**, Instructor in Pediatrics (1965).
B.A. (1946), North Carolina; M.D. (1950), M.S. (1954), Temple.
- †**John E. Tuhy, M.D.**, Associate Clinical Professor of Medicine (1948).
B.A. (1935), M.D. (1938), Oregon.
- Archie R. Tunturi, M.D., Ph.D.**, Associate Professor of Anatomy (1945).
B.A. (1939), Reed; M.S. (1943), Ph.D., M.D. (1944), Oregon.
- †**Alvin O. Uhle, M.D.**, Clinical Instructor in Surgery (1955).
B.S. (1945), University of Portland; M.D. (1947), Northwestern.
- †**Franklin J. Underwood, M.D.**, Associate Clinical Professor of Medicine (1937).
M.D. (1933), Harvard.
- Rex J. Underwood, M.D.**, Associate Professor of Anesthesiology (1958).
B.A. (1950), Stanford; M.S., M.D., (1955), Oregon.
- John T. Van Bruggen, Ph.D.**, Professor of Biochemistry (1947).
B.A. (1937), Linfield; M.A. (1939), Oregon; Ph.D. (1944), St. Louis.
- †**John G. Vandenberg, M.D.**, Assistant Clinical Professor of Urology (1953).
B.S. (1945), Puget Sound; B.M. (1947), M.D. (1948), Northwestern.
- Paul A. Van Dreal, Ph.D.**, Assistant Professor of Biochemistry and Environmental Medicine (1964).
B.S. (1957), Calvin; Ph.D. (1961), Michigan State.
- †**Cecil A. Van Kleek, D.M.D., M.D.**, Clinical Associate in Dental and Oral Medicine (1961).
D.M.D. (1951), M.D. (1959), Oregon.
- †**Clemens W. Van Rooy, M.D.**, Assistant Clinical Professor of Pediatrics (1958).
M.D. (1948), St. Louis.
- †**Wilbur N. Van Zile, D.D.S.**, Clinical Associate in Dental and Oral Medicine (1959).
D.D.S. (1928), Southern California.
- †**Charles Varga, M.D.**, Assistant Clinical Professor of Pediatrics (1956).
B.S. (1939), Rutgers; M.D. (1944), New York Medical College.
- Lyle Veazie, Ph.D.**, Professor of Bacteriology, Parasitology (1942).
B.A. (1928), M.A. (1930), Ph.D. (1947), Oregon.
- †**R. Mark Vetto, M.D.**, Associate Professor of Surgery (Veterans Hospital) (1959).
M.D. (1949), Jefferson; D.Sc. (1959), Cincinnati.
- †**Daniel Voiss, M.D.**, Clinical Instructor in Psychiatry (1965).
B.S. (1955), M.S., M.D. (1957), Oregon.
- Marie K. Wagner, B.S.**, Assistant Circulation Librarian; Instructor (1954).
B.S. (1940), State Teachers College, West Chester, Pennsylvania.
- †**Sheldon A. Walker, M.D.**, Clinical Professor of Dermatology (1955).
M.D. (1942), Iowa.
- †**George F. Walliker, Jr., M.D.**, Assistant Clinical Professor of Pediatrics (1949).
A.B. (1938), Nebraska; B.S. (1940), University of Portland; M.D. (1944), Tennessee.

† Volunteer.

- †**John R. Walsh, M.D.**, Professor of Medicine (Veterans Hospital) (1960).
B.S. (1943), M.D. (1945), M.Sc.Med. (1951), Creighton.
- †**Hans G. Wandel, M.D.**, Clinical Instructor in Radiology (1964).
B.A. (1948), Falkschule, Berlin; M.D. (1956), Freie Universitaet, Berlin.
- †**Gerald L. Warnock, M.D.**, Clinical Instructor in Radiology (1964).
B.A. (1954), Reed; M.D. (1958), Oregon.
- †**Charles W. Watkins, M.D.**, Clinical Associate in Dermatology (1958).
B.A. (1948), Montana State University; M.D. (1951), St. Louis; M.S. (1958), Minnesota.
- †**Edward E. Wayson, M.D.**, Assistant Clinical Professor of Surgery (1952).
A.B. (1939), Dartmouth; M.D. (1943), Michigan.
- †**Linton G. Weed, M.D.**, Clinical Instructor in Surgery (1965).
B.S. (1951), M.D. (1954), Wisconsin.
- Virginia L. Weimar, Ph.D.**, Assistant Professor of Ophthalmology (1962).
B.S. (1944), M.S. (1947), Oregon State; Ph.D. (1951), Pennsylvania.
- Adolph Weinzirl, M.D.**, Professor of Public Health and Preventive Medicine; Chairman of Department (1937).
B.S. (1922), M.D. (1925), Oregon; C.P.H. (1932), M.P.H. (1939), Johns Hopkins.
- Sefton Robert Wellings, M.D., Ph.D.**, Professor of Pathology; Chairman of Department (1961).
B.S. (1951), M.D. (1953), University of Washington; Ph.D. (1961), California.
- †**Alvin D. Wert, M.D.**, Associate Clinical Professor of Pediatrics (1946).
A.B. (1937), Colgate; M.D. (1941), Minnesota.
- Edward S. West, Ph.D.**, Professor of Biochemistry; Chairman of Department (1934).
A.B. (1917), Randolph-Macon; M.S. (1920), Kansas State; Ph.D. (1923), University of Chicago.
- †**James M. Whitely, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1943).
B.S. (1935), M.D. (1938), Oregon.
- †**Gerald F. Whitlock, M.D.**, Clinical Instructor in Urology (1965).
B.S. (1937), Baker; B.S. in M.S. (1939), Missouri; M.D. (1941), Washington University; M.S. (1946), Minnesota.
- †**James P. Whittemore, M.D.**, Assistant Clinical Professor of Pediatrics (1948).
A.B. (1942), Holy Cross; M.D. (1945), Harvard.
- Arthur N. Wiens, Ph.D.**, Associate Professor of Medical Psychology (1958).
B.A. (1948), M.A. (1952), Kansas; Ph.D. (1956), University of Portland.
- †**Richard H. Wilcox, M.D.**, Assistant Clinical Professor of Public Health and Preventive Medicine (1957).
B.S. (1932), South Dakota; M.D. (1934), Louisville; M.P.H. (1937), Johns Hopkins.
- †**John B. Wild, M.D.**, Clinical Associate in Medicine (1963).
M.B., B.S. (1946), St. Mary's Hospital, London; M.D. (1949), London.
- †**Cameron J. Wiley, M.D.**, Clinical Instructor in Radiology (1965).
B.S. (1955), M.D. (1957), Oregon.
- †**James W. Wiley, M.D.**, Clinical Instructor in Surgery (1948).
M.D. (1933), Oregon.
- †**Charles P. Wilson, M.D.**, Assistant Clinical Professor of Medicine (1929).
A.B. (1920), Reed; M.D. (1924), Johns Hopkins.
- †**Nathaniel D. Wilson, M.D.**, Clinical Associate in Surgery (1953).
B.S. (1936), Wheaton; B.M. (1940), M.D. (1941), Northwestern.

† Volunteer.

- †**Robert D. Wilson, M.D.**, Clinical Instructor in Medicine (1963).
B.A. (1953), Willamette; M.D. (1956), Oregon.
- †**William M. Wilson, M.D.**, Associate Clinical Professor of Obstetrics and Gynecology (1928).
B.S. (1920), Whitman; M.D. (1924), Johns Hopkins.
- †**Zolton T. Wirtschafter, M.D.**, Associate Professor of Medicine (Veterans Hospital) (1953).
B.S. (1921), Case School of Applied Science; M.B. (1926), M.D. (1927), Cincinnati.
- †**Robert A. Wise, M.D.**, Clinical Professor of Surgery (1947).
B.A. (1922), M.D. (1925), Columbia.
- †**Gregg D. Wood, M.D.**, Clinical Instructor in Surgery (1949).
B.A. (1939), Reed; M.D. (1943), Oregon.
- †**James A. Wood, M.D.**, Assistant Clinical Professor of Cardiopulmonary Surgery (1963).
B.A. (1953), Reed; M.D. (1957), Oregon.
- †**James V. Woodworth, M.D.**, Clinical Instructor in Medicine (1952).
A.B. (1944), Whitman; M.D. (1946), Oregon.
- Norton B. Young, Ph.D.**, Assistant Professor of Audiology, Pediatrics (1960).
B.S. (1950), M.A. (1953), University of Washington; Ph.D. (1957), Purdue.
- †**William C. Young, Ph.D.**, Professor of Anatomy (Primate Center) (1964).
B.A. (1921), M.A. (1925), Amherst; Ph.D. (1927), Chicago.
- †**Robert W. Zeller, M.D.**, Assistant Clinical Professor of Ophthalmology (1951).
M.D. (1944), Loyola.
- †**Werner E. Zeller, M.D.**, Assistant Clinical Professor of Surgery (1946).
B.S. (1933), M.S. (1936), M.D. (1937), Oregon.
- †**Richard C. Zimmerman, M.D.**, Clinical Instructor in Orthopedic Surgery (1964).
B.S. (1955), M.D. (1957), Oregon.
- William A. Zimmerman, B.S.**, Associate Dean for Business Affairs; Professor (1945).
B.S. (1939), Oregon.

University of Oregon Medical School Hospitals and Clinics

- David W. E. Baird, M.D.**, Dean.
- Charles N. Holman, M.D.**, Associate Dean; Medical Director and Administrator.
- Jarvis Gould, M.D.**, Associate Medical Director and Associate Administrator.
- Myron R. Grover, Jr., M.D.**, Assistant Medical Director and Assistant Administrator.
- Michael D. Baird, M.D.**, Assistant Medical Director of Hospitals and Clinics.
- Gwynn C. Brice**, Assistant Director of Outpatient Clinic.

† Volunteer.
‡ Part-time.

George M. Austin, M.D., Chief of Neurological Surgical Service.
Daniel M. Bachman, M.D., Chief of Rheumatology Service.
John A. Benson, Jr., M.D., Chief of Gastroenterology Service.
Ralph C. Benson, M.D., Chief of Obstetrical and Gynecological Service.
William S. Conklin, M.D., Chief of Thoracic Surgical Service.
Sefton Robert Wellings, M.D., Chief of Pathological Service.
David D. DeWeese, M.D., Chief of Otolaryngological Service.
Charles T. Dotter, M.D., Chief of Radiological Service.
Monte A. Greer, M.D., Chief of Endocrinology Service.
Herbert E. Griswold, M.D., Chief of Cardiology Service.
Frederick P. Haugen, M.D., Chief of Anesthesiology Service.
Clarence V. Hodges, M.D., Chief of Urological Service.
Tyra T. Hutchens, M.D., Chief of Clinical Pathological Service.
Arthur C. Jones, M.D., Chief of Physical Medicine.
William W. Krippaehne, M.D., Chief of Surgical Service.
Daniel H. Labby, M.D., Chief of Metabolic Diseases Service.
Howard P. Lewis, M.D., Chief of Medical Service.
Walter C. Lobitz, Jr., M.D., Chief of Dermatological Service.
Joseph D. Matarazzo, Ph.D., Chief of Medical Psychological Service.
Harold J. Noyes, D.D.S., M.D., Chief of Dental Medical Service.
Richard W. Olmsted, M.D., Chief of Pediatric Service.
Robert D. Koler, M.D., Chief of Hematology Service.
Bernard Pirofsky, M.D., Chief of Immunology, Allergy, and Infectious Diseases Service.
Donald M. Pitcairn, M.D., Chief of Chest Diseases Service.
George Saslow, M.D., Chief of Psychiatric Service.
William E. Snell, M.D., Chief of Orthopedic Surgical Service.
Albert Starr, M.D., Chief of Cardiopulmonary Surgical Service.
Kenneth C. Swan, M.D., Chief of Ophthalmological Service.
Roy L. Swank, M.D., Chief of Neurological Service.
Leslie W. Hunter, M.S.W., Supervisor of Medical Social Service.
Hilda E. Drum, R.T., Chief Radiologic Technologist.
Clarence Hultgren, M.A., P.T., Chief Physical Therapist.
Laura P. Rinehart, R.N., C.R.L., Chief Record Librarian.
E. H. Empereur, B.S., Chief Pharmacist.

University of Oregon Medical School Hospital Doernbecher Memorial Hospital for Children

Shirley M. Thompson, M.A., R.N., Director of Nursing Service.
Betty Weible, B.S., R.N., Pediatric Supervisor.
Tina Boyce, M.A., R.N., Medical-Psychiatric Supervisor.
Elizabeth Stenberg, M.S., R.N., Medical-Surgical Supervisor.
Eleanor M. Bangs, R.N., Surgical Supervisor.
Beatrice Duffy, M.A., R.N., Auxiliary Personnel Supervisor.
Evelyn Barton, R.N., Night Supervisor.
Margaret Byers, B.S., R.N., Assistant Night Supervisor.
Opal McCrae, R.N., Assistant Night Supervisor.
Helen Fountain, R.N., Evening Supervisor.
Rosella Schmidt, B.S., R.N., Evening Supervisor.

Carol Gohrke, B.S., R.N., Assistant Evening Supervisor.
Dorothy Burtchette, M.S., R.N., Head Nurse.
Peggy Cooke, R.N., Head Nurse.
Betty Jo Eddins, R.N., Head Nurse.
Elizabeth Flanagan, B.S., R.N., Head Nurse.
Fredericka Grable, R.N., Head Nurse.
Sarah Hodges, R.N., Head Nurse.
Helen Katagiri, B.S., R.N., Head Nurse.
Jean Kludas, B.S., R.N., Head Nurse.
Catherian Millhorn, R.N., Head Nurse.
Maryann Powers, B.S., R.N., Head Nurse.
Maxine Sutton, R.N., Head Nurse.
Florence Sweeney, R.N., Head Nurse.
Renate Whitaker, R.N., Head Nurse.
Joan Kamm, B.S., R.N., Pediatric Public Health Nurse Coordinator.
Regina Mockmore, B.S., R.N., Admitting Supervisor.
Glen F. Criteser, Laundry Manager.
Maxine Freeman, Executive Housekeeper.
Margaret Orth, B.S., Dietitian.
Madeline Myers, Accounting Office Supervisor.

General Outpatient Service

Marjorie R. Merrick, B.S., Chief Admitting Officer.
Marian W. Parsell, B.S., R.N., Director of Nursing Service.
Joan Kamm, B.S., R.N., Pediatric Public Health Nurse Coordinator.
Nancy W. Beshear, B.S., Dietitian.

Multnomah Hospital

Jarvis Gould, M.D., Administrator and Associate Medical Director.
Myron R. Grover, Jr., M.D., Assistant Administrator and Assistant Medical Director.
Gale Rankin, B.S., R.N., Director of Nursing Service.
Margaret Fox, R.N., Assistant Director of Nursing Service.
Lorraine Nelson, M.S., R.N., Clinical Instructor.
Barbara Browne, B.S., R.N., Supervisor.
Ardys Hokeness, R.N., Supervisor.
La Verne Honey, R.N., Supervisor.
Emma H. McWilliams, R.N., Supervisor.
June Satchfield, B.S., R.N., Supervisor.
Ruth Schoepper, R.N., Supervisor.
Alice Sharf, R.N., Surgical Supervisor.
Dorothy Vossen, B.S., R.N., Supervisor.
Jean Caldwell, B.S., R.N., Head Nurse.
Shirley Franzen, R.N., Head Nurse.
Judith Hicks, R.N., Head Nurse.
Deanne LaLande, R.N., Head Nurse.
Nancy Moldt, R.N., Head Nurse.
LeAnn Poole, R.N., Head Nurse.

Mary Richeson, R.N., Head Nurse.
Jean Schropfer, B.S., R.N., Head Nurse.
Bernice Setere, B.S., R.N., Head Nurse.
Thelma Waddill, R.N., Head Nurse.
Beverly Ward, R.N., Head Nurse.
Helen Colgan, Ph.G., Pharmacist.
Henry L. Doeneka, Chief Engineer.
Frances E. Morse, Office Supervisor.
Ramona McAfee Bennett, B.S., R.N., Housekeeper.
Ruth Mercer, M.A., Dietitian, Clinical Instructor in Dietetics.

Oregon State Tuberculosis Hospital

Barbara Hiatt, M.S., R.N., Assistant Administrator.
William S. Conklin, M.D., Chief of Staff.
James T. Speros, M.D., Medical Consultant.
Robert D. Michel, M.D., Chief Physician.
Clifford A. Fratzke, M.D., Physician.
Sydney Brownstone, M.D., Physician.
David T. McKeown, B.A., Business Manager.
Helen Krieg, B.S., R.N., Director of Nursing Service.
Karen Z. Spall, B.S., Dietitian.
Arnold Bradshaw, Housekeeper.
Carl W. Lacy, Superintendent of Physical Plant.

Crippled Children's Division

Richard L. Sleeter, M.D., Director; Professor of Pediatrics.
Victor D. Menashe, M.D., Assistant Director; Associate Professor of Pediatrics.
L. Paul Rasmussen, M.D., Associate Professor of Pediatrics.
Herold S. Lillywhite, Ph.D., Professor of Speech Pathology.
S. Gorham Babson, M.D., Associate Professor of Pediatrics.
Robert Boyd, Ph.D., Associate Professor of Medical Psychology.
William E. Snell, M.D., Professor of Orthopedic Surgery.
Robert W. Blakeley, Ph.D., Assistant Professor of Speech Pathology.
Richard M. Adams, D.M.D., Assistant Professor of Dentistry (Dental School).
Rodney K. Beals, M.D., Assistant Professor of Orthopedic Surgery.
C. Conrad Carter, M.D., Assistant Professor of Neurology.
Constance Hanf, Ph.D., Assistant Professor of Medical Psychology.
Laurence R. Langston, M.D., Clinical Associate in Orthopedic Surgery.
John S. Gullickson, D.D.S., Clinical Instructor in Dental and Oral Medicine.
Norton B. Young, Ph.D., Assistant Professor of Audiology, Pediatrics.
Gladys Bell, A.B., A.C.S.W., Medical Social Consultant.
Mary J. Crawford, A.B., Medical Social Worker.
Ruth W. Spoerli, M.S.S., A.C.S.W., Medical Social Consultant.
Dorothy M. Prinzing, M.A., R.N., R.P.T., Nursing Consultant.
Esther E. Kelly, R.N., Pediatric Nurse.
Ida Sue Underwood, R.N., Public Health Nurse.

Irene A. Bacon, B.S., R.P.T., Physical Therapist.
Ruby Fields, R.P.T., Physical Therapist.
Susan Ford, R.P.T., Physical Therapist.
Sara Ellen Hall, B.S., Physical Therapist.
Virginia R. Hatch, B.S., Occupational Therapist.
Cornelia Weiss, B.S., Occupational Therapist.
Margaret A. Costello, Administrative Assistant.

Cerebral Palsy Project (Collaborating Faculty Members)

Ralph C. Benson, M.D., Professor of Obstetrics and Gynecology.
Richard W. Olmsted, M.D., Professor of Pediatrics.
Richard L. Sleeter, M.D., Professor of Pediatrics.
S. Gorham Babson, M.D., Associate Professor of Pediatrics.
William M. Clark, Jr., M.D., Associate Professor of Pediatrics.
Rudolf C. H. Engel, M.D., Associate Professor of Pediatrics.
John B. Isom, M.D., Associate Professor of Pediatrics.
L. Paul Rasmussen, M.D., Associate Professor of Pediatrics.
Leroy O. Carlson, M.D., Assistant Professor of Pediatrics.
Bruce V. Butler, Ph.D., Assistant Professor of Medical Psychology.
John O. Kangas, Ph.D., Assistant Professor of Medical Psychology.
Edward N. Peterson, M.D., Assistant Professor of Obstetrics and Gynecology.
Frank Shubeck, M.D., Assistant Professor of Obstetrics and Gynecology.
Warren H. Fay, Ph.D., Instructor in Speech Pathology, Pediatrics.
Kathrine S. French, Ph.D., Assistant Professor of Anthropology, Pediatrics.
Richard L. Lessel, M.P.H., Instructor in Public Health and Preventive Medicine.
Roberta Murray, Ph.D., Instructor in Speech Pathology, Pediatrics.
Havelock Thompson, M.D., Instructor in Pediatrics.
Barbara Goffeney, M.A., Research Assistant in Psychology.
Betty Saylor, R.N., Research Assistant.

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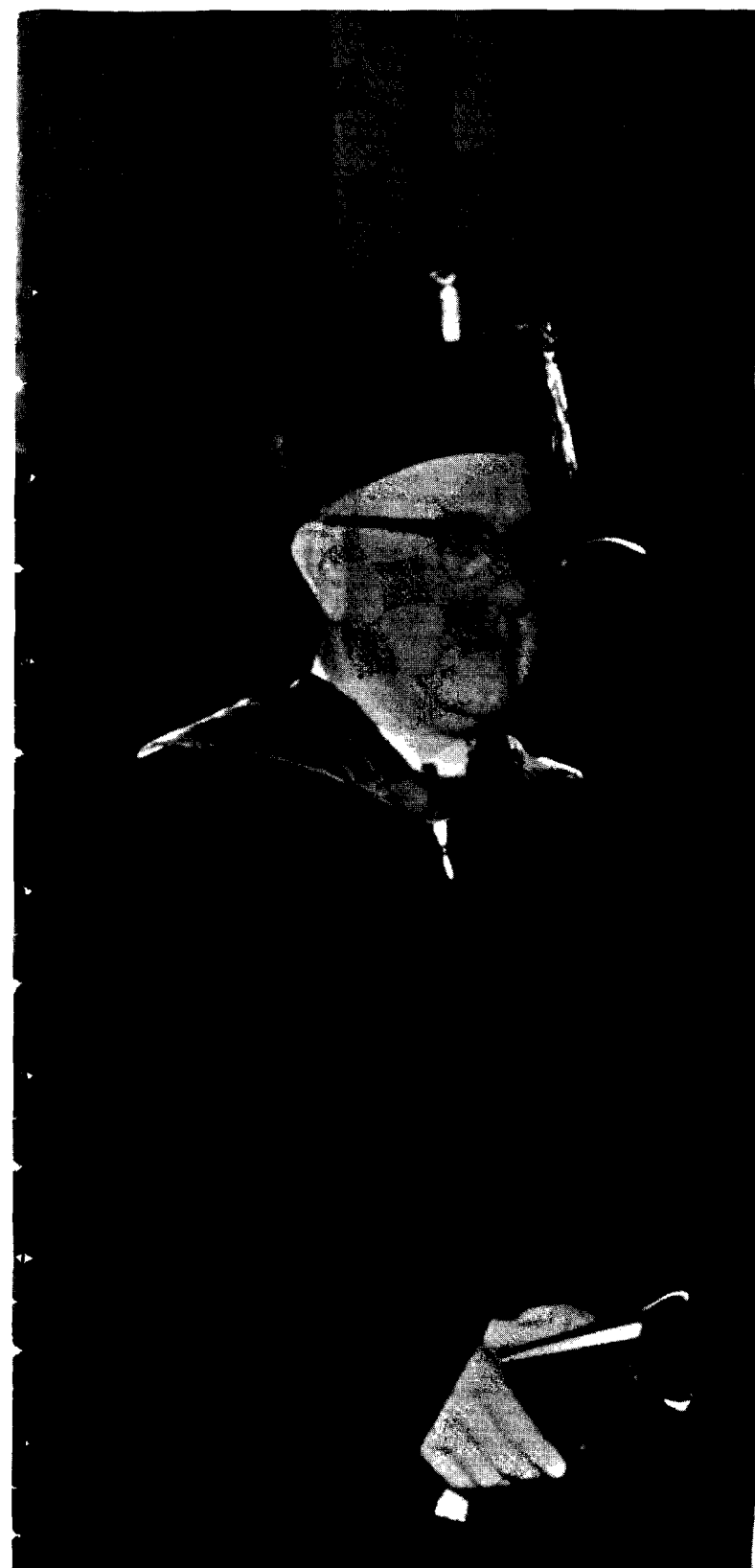
William J. Kerr, D.Sc., LL.D. 1932-1935

Frederick M. Hunter, Ed.D., LL.D. 1935-1946

Paul C. Packer, Ph.D., LL.D. 1946-1950

Charles D. Byrne, Ed.D. 1950-1955

John R. Richards, Ph.D. 1955-1961



Degrees Conferred June 11, 1965

Doctor of Medicine

GRADUATE	INTERNSHIP
Jerald Albrich.....	San Bernardino County Charity Hospital, San Bernardino, California
John Apostol.....	Letterman General Hospital, San Francisco, California
Donald Austin.....	University of Oregon Medical School Hospitals and Clinics, Portland, Oregon
Peter Bergreen.....	Harbor General Hospital, Torrance, California
Margaret Bischel.....	Los Angeles County General Hospital (1), Los Angeles, California
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William Burton, Jr.....	Tripler General Hospital, Honolulu, Hawaii
Phyllis M. Cavens.....	Milwaukee County General Hospital, Milwaukee, Wisconsin
Travis Cavens.....	Milwaukee County General Hospital, Milwaukee, Wisconsin
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William Massey.....	Hennepin County General Hospital, Minneapolis, Minnesota
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James O'Dea.....	Emanuel Hospital, Portland, Oregon
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James Pucelik.....	San Bernardino County Charity Hospital, San Bernardino, California
John B. Quick, Jr.....	San Joaquin General Hospital, Stockton, California
Kermit Ragain.....	Fresno County General Hospital, Fresno, California
Steven Reeder.....	Parkland Memorial Hospital, Dallas, Texas
Dean Rich.....	Ancker Hospital, St. Paul, Minnesota
John Ritchey.....	Tripler General Hospital, Honolulu, Hawaii
Frank Roberts.....	Santa Clara County Hospital, San Jose, California
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R. Michael Sherwin.....	Ancker Hospital, St. Paul, Minnesota
Jack Shiningier.....	Philadelphia General Hospital, Philadelphia, Pennsylvania
James Simerville.....	Travis Air Force Base, Fairfield, California
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Stanley Smith.....	San Bernardino County Charity Hospital, San Bernardino, California
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Gerald Trobough.....	Santa Clara County Hospital, San Jose, California
James Uhrhammer.....	Hennepin County General Hospital, Minneapolis, Minnesota
Thomas Utterback.....	U. S. Naval Hospital, Charleston, South Carolina
George Waldmann.....	Denver General Hospital, Denver, Colorado
John Wallin.....	Milwaukee County Hospital, Milwaukee, Wisconsin
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John Webber.....	Hennepin County General Hospital, Minneapolis, Minnesota
Ivyl Wells.....	Hennepin County General Hospital, Minneapolis, Minnesota
Novell Wells.....	Hennepin County General Hospital, Minneapolis, Minnesota
John Whitelaw, Jr.....	Letterman General Hospital, San Francisco, California
Paul D. Young.....	Andrews Air Force Base, Washington, D. C.

Doctor of Philosophy

David Gaudin

Master of Science

Thomas Joseph Franz	William LeRoy Heinrichs	Gary Malcolm Stewart
Layne Oral Gentry	Cole Vroman Mason	William Judson Weaver

Enrollment 1964-65

Medical Students

First Year Class

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Loxi M. Allen	Robert E. Heinig	Terence J. Orme
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John E. Berland	Klaus B. Jade	Ronald C. Phelps
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Stephen A. Ebert	Ronald G. Marcum	Stephen W. Teal
Lowell E. Euhus	Robert J. Martin	Gary F. Temple
Vida C. Ezekiel	Donald B. McConnell	M. Patricia Collins Temple
Marlon G. Fletchall	David A. McGuire	Robert D. Thornton
Jerry C. Fox	James F. Means	Alan R. Van Dyke
Thomas H. Gill	Craig J. Miller	Larry L. Veltman
Walter H. Gould	Darrell M. Miller	Theodore J. Vigeland
Frederick S. Hakkinen	Larry M. Miller	John K. Wenham
Lloyd D. Hale	John R. Muir	Floyd I. Whiting
Jon W. Harms	Robert L. Mushen	Hartwell H. Whitney, Jr.
Larry J. Hartley	John J. Nelson	Jeffrey R. Woodside

Second Year Class

Dan D. Abbott	Mary P. Brown	Gary V. Dahl
John P. Allen	Thomas E. Brugger	DeWayne E. Ditto
Michael A. Azorr	William H. Bush, Jr.	George M. Douglass
Lowell R. Beal	Charles L. Cambron	Samuel R. East
Bruce D. Bingham	David M. Cammack	Gareth A. Eberle
Casey D. Blitt	James A. Campbell	John D. Ehrhart
Daniel F. Brown	Michael S. Campbell	Frederick C. Felter

Annelore H. Fontane
Michael L. Fritz
Douglas W. Graham
Joyce Y. Gummerson
Robert M. Hakala
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David G. Hooper
Mike C. Huntington
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Grant D. Lawton
Paul Y. Lee
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Lawrence C. Mason
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Richard W. McDuffie, Jr.
Joseph R. McFarland

Third Year Class

John H. Affleck
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Merle F. Bruce
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James S. Burns
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Jack F. Chan
Michael S. N. Chun
Gorden L. Clark
Beverley A. Cleland
Furm M. Duncan
Larry R. Eidemiller
Margaret E. Elfering
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Nancy C. Fax
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Douglas P. Fisk
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Thomas W. Friedland
Donald W. Froom
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David A. Haaland

Fourth Year Class

Jerald E. Albrich
John G. Apostol
Donald F. Austin
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C. Carter Boggs
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Phyllis M. Cavens
Travis R. Cavens
Robert G. Chuinard
Jerry C. Crooks
David L. Dixon
Peter J. Dowsett
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Robert A. Eastwood
Jack H. Eberhart
James D. Fearl

Colan M. McKinnon, Jr.
Earl M. Miller
Kathleen A. Milne
Michael N. Nichols
Raymond R. North
Gary S. Okino
Delbert P. Pearson
James R. Pitts
William J. Prendergast, III
Daniel D. Roberts
Paul W. Roberts
Gregory K. Roduner
Robert L. Sack
Waldemar A. Schmidt, IV
Harold C. Sexton
Earl G. Sherod
Paul D. Shields
O. Carl Simonton, Jr.
Stanley Soho
William M. Stanley
J. Scott Starlin, Jr.

Garron R. Hale
Roy E. Hall
Mark T. Hattenhauer
Edward W. Hearn
Ralph W. Higer
Allan J. Hill, III
Larry W. Hirons
Robert V. Hubbard
Errett E. Hummel
Theodore L. Imel
Robert D. Jackman
William C. Johnson
Clyde B. Kernek
Kenneth S. Keyes
Allen P. Kibbey
David Y. Kimura
Richard G. Lemery
Carole V. Maxwell
Kenneth M. May
Terrance J. McDowell
Dayton S. Misfeldt
Calvin Y. Nakao
Michael E. Nishitani
John R. Obye
David C. Oehling
Neil J. O'Keefe
Gerald W. Olmsted
Michael G. O'Mara

Edward G. Foxley, Jr.
Thomas J. Franz
Layne O. Gentry
R. Eugene Giesbrecht
Lester S. Goldstein
Jerry Goldstone
John B. Hardiman
Meredith K. Hester
Chin S. Hoo
Keith R. Hooker
W. Breck Howard
Stanley J. Huber
Stephen M. Jackson
W. David Jones
Russell J. Keizer
Robert K. Koida
E. Louise Kremkau

Kevin J. Sullivan
Frank E. Thomas
Douglas A. Thompson
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Don Wade
David A. Wagner
Harry L. Walters
James D. Watson
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Steven L. Wilhite
Neil R. Williamson
David D. Wirtschafter
Lynn K. Wittwer
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Terry Yamauchi
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Raymond L. Penniman
Anselmo Pizzuti
Charles W. Poindexter
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Michael T. Propst
Robert E. Quass
David J. Quenelle
Natale D. Quilici
Michael J. Reid
David L. Robinson
David R. Rosencrantz
Harvey A. Rosenstock
Robert H. Rozendal
Robert C. Seeger
Dean R. Smart
Ilmar Soot
Frederick L. Surbaugh
Swan, Stephen C.
Grace M. Takesue
Joan K. Tanner
Ronald M. Tolls
David W. Waldram
Jeffrey S. Ward
David D. Weaver
James E. Weiss
David H. Wesche
David W. Wilder
John W. Wilson

Jerry G. Lear
Richard K. Lear
Terry W. Lowry
Gerrit R. Ludwig
Kenneth R. Maier
William H. Massey
Michael I. Michalek
Richard R. Miller
Donald A. Molde
Gary L. Neal
James E. O'Dea
David G. Paff
Edward T. Paget
H. Irving Pierce
James D. Pitts
James S. Pucelik
John B. Quick, Jr.

Kermit V. Ragain
Steven F. Reeder
Dean C. Rich
John P. Ritchey
Frank A. Roberts
Gary B. Rothenberger
R. Michael Sherwin
Jack B. Shiningier
James J. Simerville
Davis S. Smith

Graduate Students

Linda M. Allison
Sharon D. Billings
Robert E. Brooks
Grayson L. Capp
Richard A. Cheu
Reid S. Connell
William Corbin
Alvaro J. Cuadros
Howard W. Davis
Joel J. Davis
Irving N. DeVoe
Jeri L. Dobbs
Harvey H. Feder
Mary Ann Feller
R. Wayne Fields
Mary Jo Florey
Marvin E. Frazier
David Gaudin
Finley P. Gibbs
Thelma Golden
David A. Goldfoot

Specials and Auditors

Floyd D. Andrew
Sara H. Barnum
Sheldon Baumrind
Lawrence F. Bitte
John A. Brown
Buckner S. Burch

Stanley N. Smith
Richard W. Stevens
Peter Stenzel
Gary M. Stewart
Donald K. Stott
Michael B. Strauss
Gordon W. Summers
E. George Thorne
Gerald E. Trobough
James L. Uhrhammer

Dennis C. Gould
William L. Heinrichs
Michael Henry
Susan V. Hunter
Michael Im
Edward A. Johnson
Ralph J. Kalinowski
Jack L. Keyes
Al H. Kuykendall
Jon W. Lindsay
Cole V. Mason
Jack A. Mattice
Mary B. Meikle
Neil J. Moir
Carolyn Moll
Donald A. McAfee
Glynn E. McArn
Thomas McKean
Galen H. Neher
Lorna H. Newcombe
Burritt Newton

Joyce R. Halpern
Barbara B. Harsanyi
Charles M. Hensgen
Marguerite P. Hunt
Jerold L. Larsen
Marilyn J. Martin

Medical Technology Students

*Ardina F. L. Abawag
*Janet K. Adams
Ann E. Barker
David L. Bartlett
Gayle K. Brothers
*Marilyn M. Brown
Donna L. Buchanan
Faye E. Carson
Camille M. Chupp
*Everett E. Clark
Diana A. Fieber
Maria A. Harlacher
Arlene R. Heringer
Dorothy J. Hudlow
Barry J. Johnson
Marcia E. Kenyon

Judith A. Kinsley
Elizabeth L. Kramer
Charlene Williams Lee
Margaret C. Loudenback
Cynthia A. Marnie
JoAnn Sayers McCarthy
Carol J. Minton
Michele A. Palmquist
Robert M. Parker
Donna M. Primmer
Patricia E. Propst
Kathryn L. Richards
Daryce S. Roberson
Janelle E. Sevy
Lynette M. Shaw
Nancy A. Sisler

Thomas D. Utterback
George E. Waldmann
John L. Wallin
Dean T. Watkins
John D. Webber
Ivyl W. Wells
Novell M. Wells
John M. Whitelaw, Jr.
Paul D. Young

James M. O'Donnell
Walter A. Petersen
Jeffrey Pinto
James D. Rankin
John H. G. Rankin
Patrick Reynolds
Lawrence Sandberg
Linda G. Schoenbeck
Joel Sere
Constance Simo
Allen Smith
Timothy Teyler
Terrence L. Trivett
Philip Van Bruggen
Richard Vardaris
Colene Walden
Ernest Waterman
Michael Waterman
William J. Weaver
David Wong
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John C. Mitchem
Richard S. Pope
Patricia R. Starr
Renate H. Wetzel

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ENROLLMENT AND DEGREES

Summary of Enrollment, 1964-65

	Men	Women	Total
First year.....	78	3	81
Second year.....	79	4	83
Third year.....	78	6	84
Fourth year.....	76	4	80
Total regular students.....	311	17	328
Graduate students.....	50	13	63
Special students and auditors.....	10	6	16
Medical technology students.....	9	38	47
Total.....	378	74	552



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