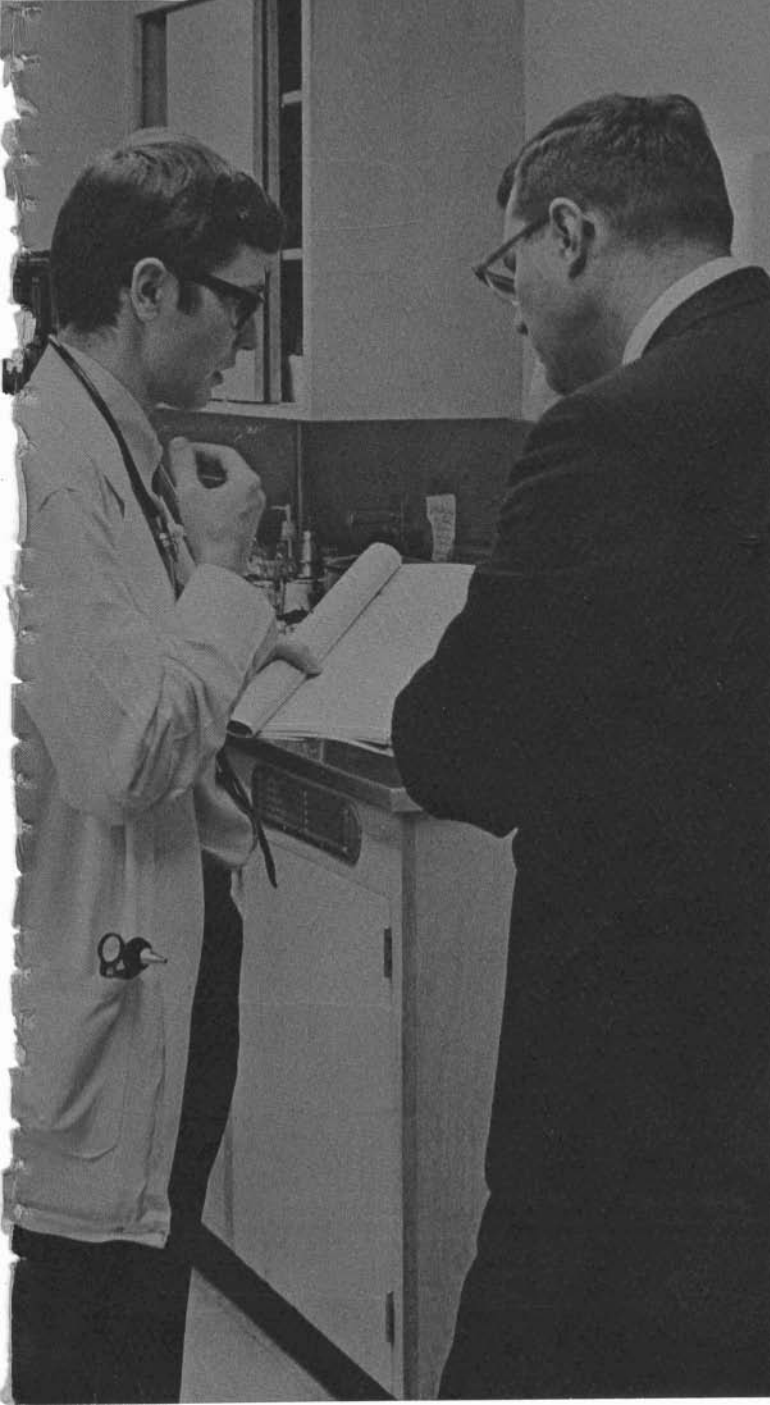


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University
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Bulletin

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UNIVERSITY
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MEDICAL
SCHOOL
PORTLAND

1969-70

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Oregon State
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Higher Education

UNIVERSITY OF OREGON BULLETIN

No. 160

AUGUST 1969

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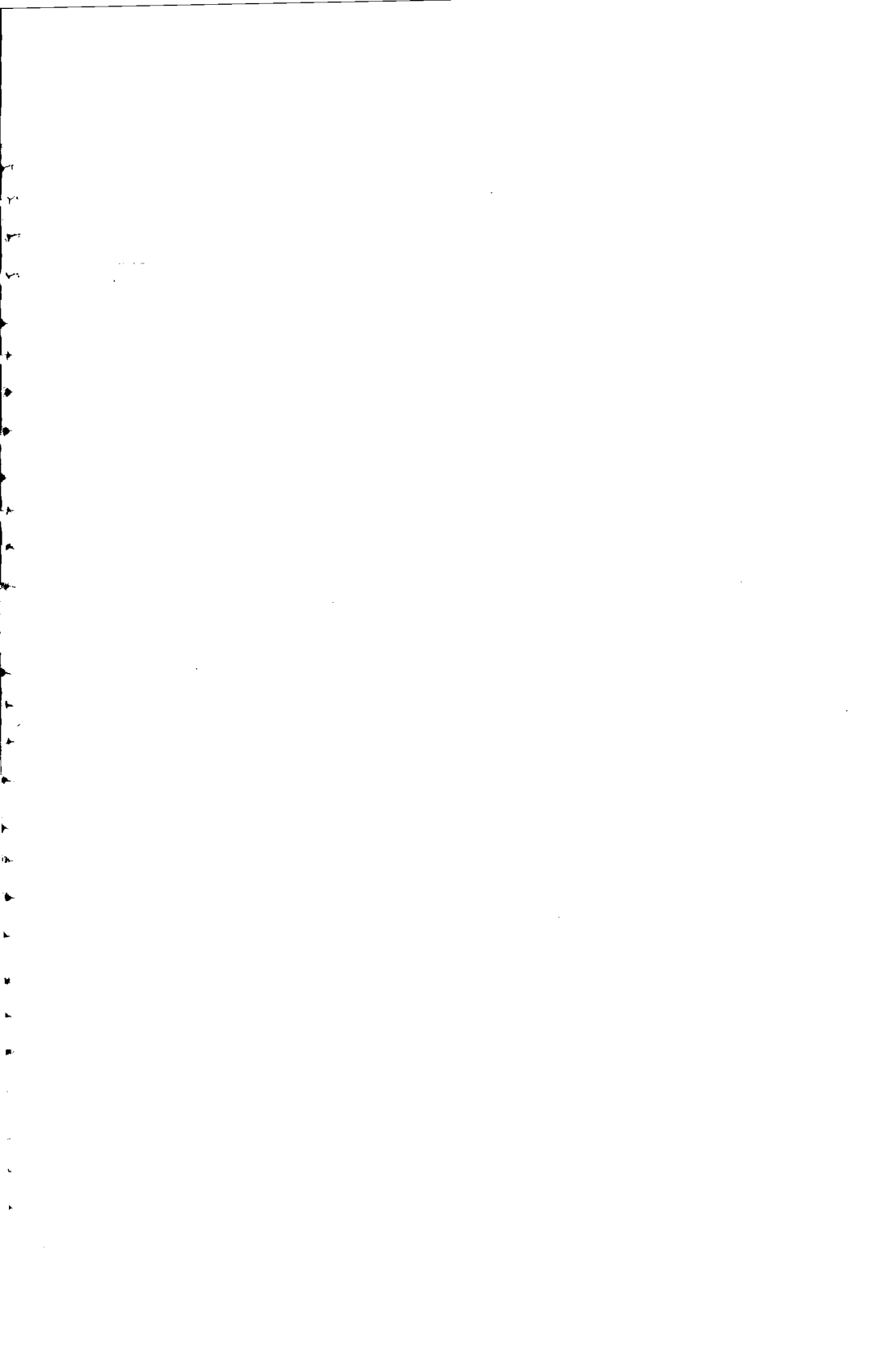


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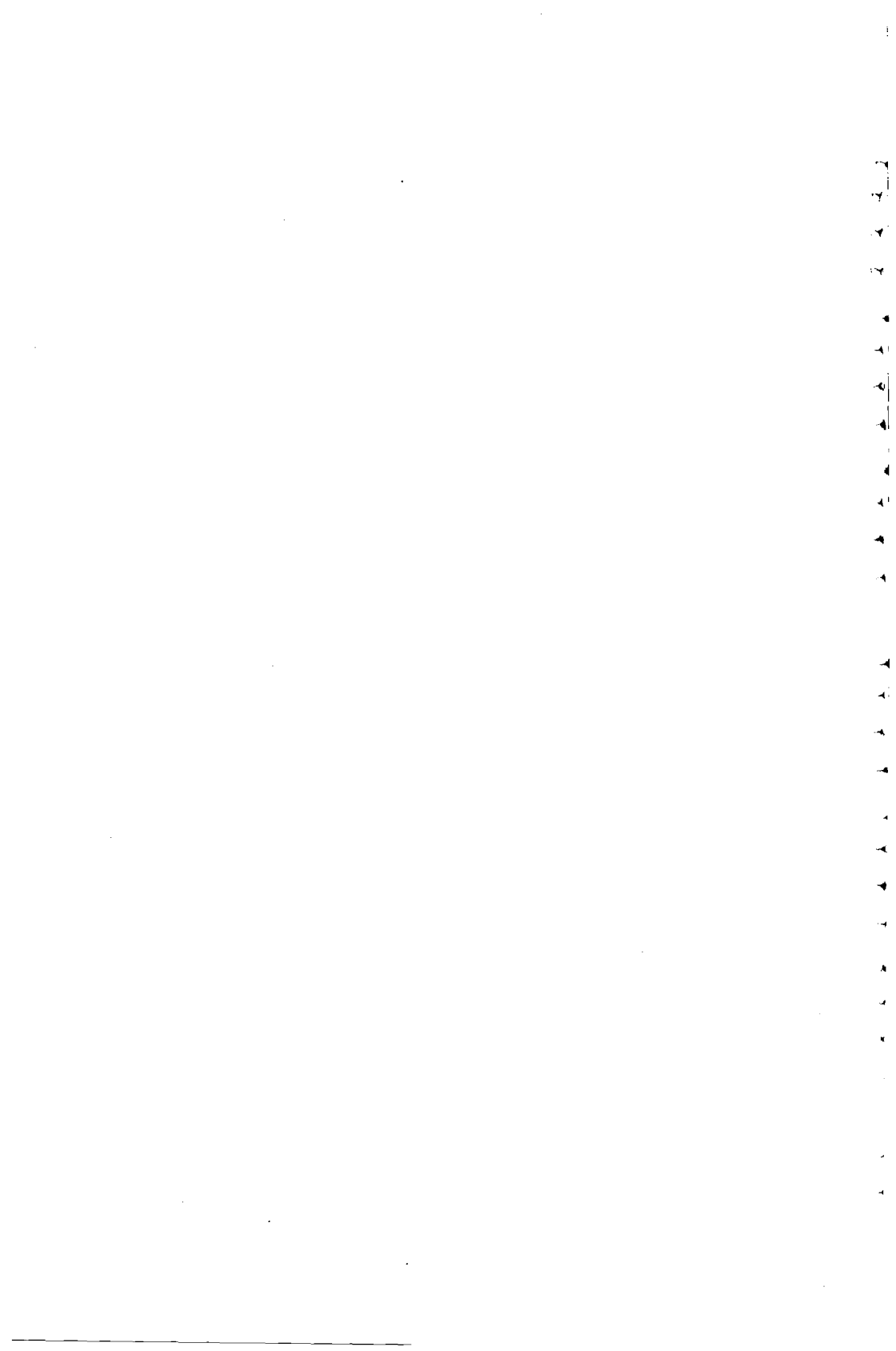


1969-70

CATALOG

University of
Oregon
MEDICAL
SCHOOL

3181 S.W. Sam
Jackson Park Road
Portland, Oregon 97201



Education with a Purpose

Medical care and the education of future physicians and health workers in the United States are undergoing rapid change and expansion. Strikingly new surgical techniques and therapeutic advances are being employed by the profession in the care of the sick; fresh new ideas in the approach to the teaching of physicians and those in the allied health professions are being employed; new medical facilities are being built and others are in the design stages.

This is being done to meet the challenge brought about by the enormous expansion of medical knowledge in the past few decades and the demands placed on doctors and educators alike to cope with the emerging needs in Oregon and the nation to provide adequate health care to all citizens.

Since 1887, the University of Oregon Medical School has had as its primary responsibility the teaching of qualified young men and women the art and science of medicine. Its 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. 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. In addition, a program of graduate studies leading to master of science and doctor of philosophy degrees in the sciences basic to medicine is available. 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 medical education.

The opportunities for improving medical knowledge and applying it to human welfare in the years to come will continue to mount. Today—and tomorrow—the average resident in Oregon and in the United States can look forward confidently to a level of health and a life span beyond the highest expectations of his parents and grandparents.

An Overview

The Oregon State System of Higher Education, organized in 1932, provides educational opportunities to young people and adults throughout the State of Oregon. Member institutions are elements of an articulated system, parts of an integrated whole.

Opportunities for general education are distributed as widely as possible throughout the state, while specialized professional and technical programs are centered at specific institutions.

The institutions of the State System of Higher Education are Oregon State University at Corvallis, the University of Oregon at Eugene, Portland State University 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 represents all the institutions in making college level courses and special programs available to all citizens. The Division has offices in Salem and Roseburg as well as on most OSSHE campuses.

An interinstitutional booklet, "Your Education," lists fields of study at all State System institutions, and gives other important information for prospective students. For a free copy, write "Your Education," State Board of Higher Education, P.O. Box 3175, 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.

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George Layman, Newberg	1970
Robert D. Holmes, Portland	1971
Ray T. Yasui, Hood River	1971
Ancil H. Payne, Portland	1972
Charles R. Holloway, Jr., Portland	1973
Elizabeth H. Johnson, Redmond	1974
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Office of State Board of Higher Education
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University of Oregon Medical School

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1

GENERAL INFORMATION FOR STUDENTS



GENERAL INFORMATION

The University of Oregon Medical School is located in Portland (population 384,000), the largest city in the state of Oregon. Situated on the Willamette River near its junction with the Columbia River, Portland is a city of diverse business and industrial activities and, although 85 miles from the Pacific Ocean, an important seaport. The city is well-known for its beautiful homes, parks, and boulevards and for its mild climate. The foothills of the Cascade Mountains rise on the outskirts of Portland; Mount Hood, one of the major peaks in 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 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 1917 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 approximately \$28,300,000, and are keeping pace with the School's expanding programs of education, research and public service.

The First Medical Science Unit (1919), of what is now called *Mackenzie Hall*, 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. The second unit (1922), 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. It 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. A three-story laboratory wing was added in 1939.

The Outpatient Clinic (1931, 1968), open to patients throughout the state of Oregon who are without funds to provide for their medical care or who are referred by their physician for consultation and treatment, 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. A \$2.5 million, seven-story addition to the Clinic was completed in 1968.

Multnomah Hospital (1923, 1950, 1969), 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. A six-story addition to Multnomah Hospital was opened in the spring of 1969. This \$3.4 million project added 64 patient care beds, a 20-bed psychiatric crisis unit and seven new operating rooms to the facilities.

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 Ehrmann, Jr., and Mrs. Frederick Ganz, in memory of Julius L. Meier.

The *Library and Auditorium* (1939, 1967), 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.

Renovation and expansion of Library facilities was completed in 1967 at a cost of \$305,000. As a result, one large and six small study rooms were added as were typing, work and duplicating rooms and additional stack tiers.

Gaines Hall (1930), 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.

GENERAL INFORMATION

The *Physical Plant Shop and Warehouse* (1953), provides shop facilities and a central warehouse for the Physical Plant Department and houses the central services unit—printing, personnel, medical graphics, and the Medical School's planning office. The building was financed by a state appropriation of \$71,000. A \$48,000 addition to the structure was added in 1958 and a second addition to the building, costing \$200,000, was completed in June 1960.

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 *Parking Structure* (1967), is a four-story, \$837,000, reinforced concrete building providing for metered public parking as well as employee and faculty parking. The structure will hold approximately 416 automobiles on the four levels and is part of an overall expansion program to provide parking facilities in proximity to the core area of the campus.

The *Medical School Farm*, on 180 acres 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 84). In addition, special programs are approved by the American Dietetic Association, the Council of Medical Education and Hospitals of the American Medical Association, and the American Registry of Radiologic Technologists.

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 220 full-time faculty members serving in its basic and clinical science departments and more than 650 part-time and volunteer faculty members who practice medicine in Portland and the surrounding area and who donate a portion of their time to the teaching and research programs of the Medical School.

Instruction

The University of Oregon Medical School offers instructional programs leading to degrees in medicine, nursing, the sciences basic to medicine, and medical technology. Further, it offers programs in radiologic technology, postgraduate study, internships for physicians and dietitians as well as advanced specialty training in medicine and several specialized graduate and non-degree courses.

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

The student is not expected to learn all the skills of any specialty in medical school,

GENERAL INFORMATION

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 with a study of the effects of disease and the methods of diagnosis of disease. The clinical portion of the program 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 two special programs of study for outstanding students. One leads to both the medical degree and the Master of Science degree and is five years in length. The other offers the M.D. and Ph.D. and is of seven years' duration.

These programs, offered through the basic science departments of the Medical school—*anatomy, biochemistry, microbiology, pathology, pharmacology, physiology, and medical psychology*—are open to a few selected students each year. Students entering the program pursue a combined course of medical and graduate studies and spend summers and parts of the regular academic years in graduate study. These programs afford 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 and seven-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 in the states of the Pacific Northwest, British Columbia, and Alaska (see also page 85.)

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 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 approximately \$6,000,000 annually. These funds are made available by private individuals and industry, by foundations and societies, and by the State and Federal governments.

Currently, more than 300 research projects are being conducted at the School in virtually every area of the bio-medical sciences. Contributions made by University of Oregon Medical School investigators to medical knowledge have been numerous and have received world-wide recognition.

Library

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 130,000 volumes of books and bound and unbound periodicals. Approximately 1,800 current serial publications 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 book and periodical stacks are open to the public. For the convenience of readers, individual study desks and tables are located in the stacks.

A special feature of the Library is the Historical Book Room housing historical books on medicine and allied subjects and the Pacific Northwest collection. Most of this literature has been received by direct gift from individuals and organizations or purchased with monetary gifts presented for this purpose. A noteworthy gift of \$2,500 for historical medical books has been given by the Portland Academy of Medicine. In recognition of this gift, the room is reserved for historical reading, research and seminars.

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

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. Alumni Association officers for 1969-1970 are:

Robert P. Burns, M.D., '47, Portland.....President
Gerald E. Kinzel, M.D., '36, Portland.....Vice President
Joseph W. Ball, M.D., '58, San Jose, California.....Vice President

GENERAL INFORMATION

John M. Ross, M.D., '40, Salem.....	Vice President
Charles H. Sawyer, M.D., '57, Manila, Philippines.....	Vice President
William E. Spies, M.D., '47, Hilo, Hawaii.....	Vice President
Willis J. Irvine, M.D., '48, Portland.....	Secretary
Albert Oyama, M.D., '53, 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 scientific noon-hour programs and a part-time employment file for medical students and their wives. It also makes available to students life and hospital insurance programs. Annual dues include a subscription to the SAMA publication, the *New Physician*.

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

Fraternities. There are two medical fraternities for men at the University of Oregon Medical School—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 nondenominational organization, holds discussion meetings every other week and social gatherings once a month. Students of any religious persuasion are invited to attend these meetings.

Women's Auxiliary to the Student American Medical Association (WASA-MA). During the school year wives of medical students meet for social activities and welfare projects. A program of interest to all members is planned for each of the business meetings. Small groups, "social clubs," also meet frequently. 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 student bulletin boards. Several traditional dances and fraternity get-togethers

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. And, of course, 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, basketball, tennis and squash teams represent the Medical School, and students may participate in an active 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 male students are provided by the Medical School, many apartments and boarding houses are located close to the campus. An up-to-date list of rental housing is maintained in the Public Affairs Office 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 as well to students in the School of Nursing, 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

The Student Health Service operates from fees paid by students. It provides outpatient care during the school day within the limits of the facility. The usual services of the Outpatient Clinic are available, as well as the Clinic Laboratory and the X-ray Department. The Multnomah Hospital Emergency Room is available when acute illness occurs out of hours. Fifteen days of hospitalization for acute medical or surgical disease are available.

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. Students' dependent are eligible for the Outpatient Clinic service. Accessory insurance for all students is designed to give relatively complete coverage in and out of the city and during vacation periods. Married students are especially advised to buy this coverage for their dependents.

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.....	\$256.00
Medical students, nonresidents, per term.....	412.00

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Graduate students (candidates for M.A., M.S., Ph.D.), per term.....	167.00
Graduate students enrolled for 7 term hours of work or less.....	\$17.00 per term hour (minimum, \$34.00)
Graduate students employed as research assistants or fellows, per term.....	47.00

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—\$21.00 per term hour (minimum \$42.00 per term)	
Auditor's fee for lectures, per term hour.....	\$ 6.00
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.....	\$10.00
The evaluation fee is charged for the evaluation of transcripts submitted with the application for admission; not refundable.	
Late-registration fee. First day.....	\$ 5.00
Each day thereafter.....	\$ 1.00
Registration day is the first two days 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 first day after the second registration day. The first penalty day for graduate students is one week after registration day.	
Graduate qualifying examination fee.....	\$1.00 to \$15.00
Change of program fee, per course.....	\$ 1.00

Microscopes

Medical students are expected to provide themselves with microscopes. Microscopes are available for students who wish to rent them, for a fee of \$30.00 a year.

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.....	\$ 768.00
Tuition and fees, full-time nonresident students.....	1,236.00
Breakage deposit.....	15.00
Microscope fee.....	30.00
Books and supplies.....	135.00
Board and room.....	1,000.00
Personal expenses.....	200.00

¹ See page 29.

² The cost of any damage done by a student to Medical School property is deducted from the 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.

Fee Refunds

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

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

Regulations Governing Nonresident Fees

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 fees) ; (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 present 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 Portland Regional Office of the Veterans Administration.

Fellowships, Scholarships, Grants-in-Aid, Awards

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

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

Summer Student Research Fellowships. A number of fellowships are available to selected medical students for summer research in both basic science and clinical departments. These fellowships provide the opportunity to gain first-hand experience in medical research under the supervision of experienced investigators. Application must be made to the chairman of the department concerned prior to April 1 preceding the summer for which the fellowship is to be awarded. Most of the funds for the summer fellowships are provided through grants from the National Institutes of Health.

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

Dr. Laurence Selling Research Fund. The Selling Research Fund was established in 1957 through a gift of approximately \$200,000 from an anonymous donor. For several years part of the income has been used for student research scholarships. Students are recommended for the award by a committee of the faculty, and the awards are based on scholastic ability and research promise. Awards are limited to students participating in the five-year program. (See page 81, Graduate Studies.)

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

Pohl Memorial Scholarships. These scholarships were endowed in 1936 by a gift of \$5,000 from the late Dr. Esther Pohl Lovejoy, in memory of her husband Dr. Emil Pohl, and her son, Frederick Clayson Pohl. The original gift was supplemented by additional annual donations from Dr. Lovejoy, which increased the endowment to about \$37,000. Awards are made to students of promise in the field of medicine. Two-thirds of the scholarships are given to men students, one-third to women students.

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

State Scholarships. In accordance with special authorization from the Legislature, the State Board of Higher Education awards annually a limited number of scholarships to students in the institutions of the State System who are residents of Oregon, who rank high in scholastic attainment, and who need financial assistance. These scholarships cover tuition. Recipients must pay the building fee, the incidental fee, and special fees.

George H. Strowbridge Memorial Scholarship. This scholarship consists of the income from a bequest of \$5,000 from Mary S. Muellhaupt in memory of Dr. George H. Strowbridge, a graduate of the University of Oregon Medical School in the Class of 1897. Award is made to a student of the second-, third-, or fourth-year class on the basis of scholastic attainment and need.

Alumni Scholars. The Alumni Association of the University of Oregon Medical School makes awards annually to provide scholarships in the amount of \$500 for selected medical students who have demonstrated superior academic performance. Recipients are designated "Alumni Scholars."

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

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

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

Surgical Sales Scholarship. The Surgical Sales Company of Portland has for several years provided funds for a scholarship of approximately \$250 per year to a deserving medical student.

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

Walter J. Rosenfeld Scholarship Fund. This is a perpetual fund established under the will of Walter J. Rosenfeld of Portland. The income from the fund is used annually for two scholarships for selected medical students.

Harold F. Wendel Memorial Fund. The income from an endowment fund estab-

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lished in memory of the late Harold F. Wendel by his wife, Elise F. Wendel, is presented annually to the outstanding resident or fellow in cardiology.

Health Professions Scholarship Fund. This Federal scholarship program was authorized by the Health Professions Educational Assistance Amendments Act passed by Congress in 1965. The Act specifies that these scholarships are available only to students who, without the amount of the scholarship award, could not pursue the required course of study during the year for which the award is made. For the academic year 1969-1970 scholarships will be available at the University of Oregon Medical School for students in the first-, second-, and third-year classes.

The Roche Laboratories provide an annual award to an outstanding member of the senior class. The award consists of a watch and an engraved scroll. **The Upjohn Company** makes an annual monetary award to an outstanding senior student; **Lange Medical Publications** awards books to two outstanding students in each class; **The Merck Manual Award**, a copy of *The Merck Manual* is made to two outstanding students at the completion of their junior year; and **The C. V. Mosby Company** awards a book to five students at the completion of their second year.

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 use and application should be made to the Medical School Business 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.

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.

M. B. Taylor Loan Fund. A bequest of \$10,000 from the late Millard B. Taylor is used for student loan funds in essentially the same manner as other loan funds at the Medical School. This fund was established in 1967.

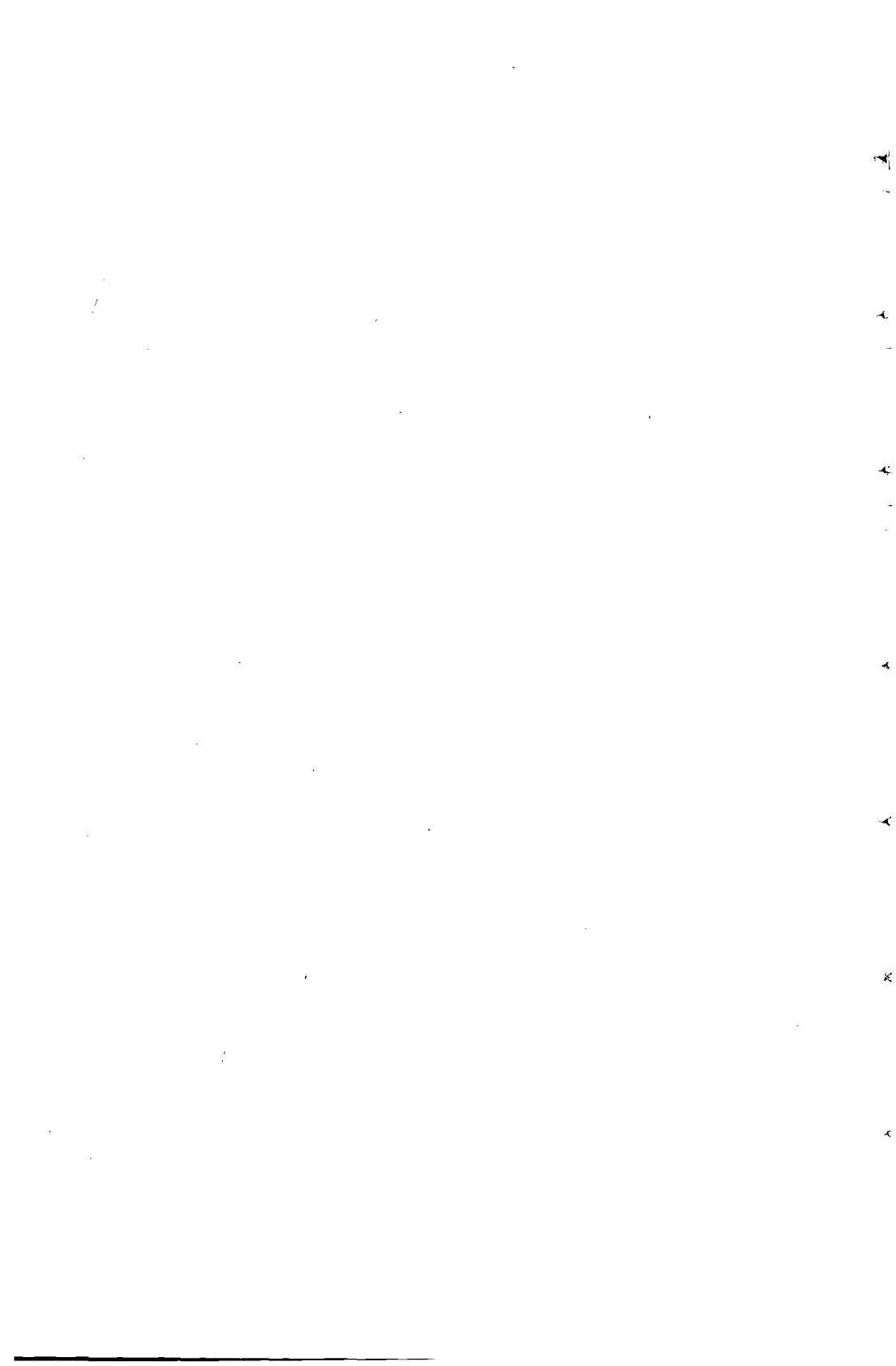
Rita Simmons Graduate Scholarship Loan Fund. This fund of approximately \$425 was established in 1967. It is available to medical and graduate students for loans not to exceed \$150 per year.

University of Oregon Loan Funds. Medical technology and graduate students are eligible for loans from the National Defense Education Act 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 \$2,500 per year.

Oregon Guaranteed Student Loan Fund (Oregon Residents Only). An arrangement between the University of Oregon Medical School, the student's Oregon bank, and the Oregon State Scholarship Commission provides assistance up to \$1,000 per year for undergraduate students and \$1,500 a year for graduate students up to a total of \$7,500.

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.



ADMISSIONS
AND
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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; and, 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 on a competitive basis and concerns 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. Preference is given the student who has studied in depth a major of his choice.

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

ADMISSION REQUIREMENTS

	Term Hours
Biology	15
General biology or zoology	9
Genetics	3
Cellular physiology or embryology	3
Physics (with laboratory)	12
*Mathematics	12
*English	9
Electives	66
Total Prescribed Credits	138

Grades of "pass" or "satisfactory" are *not* acceptable in any course (required or elective) except physical education.

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 or Russian. 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 those courses beyond the minimum requirements in subjects prescribed for admission to the Medical School. Subjects suggested are: history, economics, sociology, social anthropology, psychology. English, public speaking, foreign language, general or cellular physiology, physical chemistry, calculus and statistics.

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

* 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 12 hours of lower division mathematics (a one-year sequence course), 5 terms of physical education and 1 term of health education in their premedical programs. See the University of Oregon Catalog for specific courses that meet the literature and mathematics requirements.

ADMISSIONS AND SCHOLASTIC REGULATIONS

—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 years in the Medical School.*

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

Application Procedure

Application forms may be obtained from the Medical School Registrar, and all credentials should be sent to the Registrar. Because the Committee on Admissions begins examining applications a year in advance of entrance to the Medical School, *early application is advisable*. Applicants are accepted between July 1 and November 15. A place in the first-year class is not granted to an applicant more than one year before the beginning of instruction for that class.

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

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

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

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

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

A fee of \$10.00 which is charged for the evaluation of transcripts. This fee should be enclosed with the application for admission. (Make checks or money orders payable to the University of Oregon Medical School.)

Two unmounted recent glossy photographs size 2¼ x 2¼" of the applicant in conventional dress, front view.

* 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 12 hours of lower division mathematics (a one-year sequence course), 5 terms of physical education and 1 term of health education in their premedical programs. See the University of Oregon Catalog for specific courses that meet the literature and mathematics requirements.

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

After acceptance for admission to the Medical School and prior to registration, the student will be required to submit a *physical examination form*, completed by his physician.

Processing of Applications

Evaluation of Credentials

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

Personal Interview

After examination of credentials, residents of Oregon generally are requested to appear for a personal interview with the Committee on Admissions. A personal interview is not requested of nonresidents whose credentials indicate that they cannot meet the competition for admission, or who would be subjected to excessive travel expense. The committee schedules interviews in Portland, Eugene, and Corvallis.

Physical Examination

Just as the Medical School's Committee on Admissions may refuse admission to a student on the basis of academic record, it also may reject an applicant on the grounds of lack of physical or mental stability. Applicants who appear well qualified on the basis of the initial screening by the Committee are required to submit reports of complete examinations by their own physicians, which are reviewed by the student health physician before registration.

Notification of Acceptance or Rejection

All candidates are given written notification of acceptance or rejection as soon as possible after the Committee on Admissions has reached its final decision; notification is generally given by April 15. Sometimes, however, decisions on applications are delayed until grades in the more advanced science and mathematics courses, such as organic chemistry, quantitative analysis, physics, genetics, embryology, cell physiology and mathematics, are made available to the Admissions Committee. Acknowledgment of notification of acceptance should be made promptly in writing by the successful applicant.

Acceptance of Appointment

When an applicant is offered admission to the Medical School and wishes to accept this admission, a deposit of \$50.00 must be paid not later than two weeks following notice of acceptance in order to reserve a place in the entering class. If the deposit is made prior to December 15, it is not refundable after March 1 should the student release his place in the class. If the deposit is made after December 15 it is not refundable after a period of thirty days following notice of acceptance.

ADMISSIONS AND SCHOLASTIC REGULATIONS

Special (Non-degree) Students

Special (Non-degree) students are admitted to the University of Oregon Medical School under certain special conditions. The reasons for admission, qualifications for entrance, and the courses to be taken as a special student must be passed upon by the chairman of the department concerned and the graduate council.

Graduates in medicine may be admitted as special students, but graduates in medicine from other medical schools may not be candidates for the degree of Doctor of Medicine at the University of Oregon Medical School.

Students holding only academic degrees may be admitted as special students in certain courses in the Medical School. Such students may not receive academic credit for work in clinical subjects and may not audit clinical courses.

Undergraduates may not be admitted to courses in the Medical School as special students.

A person who has failed a course as a medical student in another medical school may not repeat the course as a special student at the University of Oregon Medical School unless the course is given at some time other than during the regular academic year.

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

Application forms for admission as a special student may be obtained from the Registrar. Those seeking admission as special (Non-degree) students need furnish only the basic application form and original transcript of college work. The application must be approved by the chairman of the department offering the desired courses and by the Graduate Council. The complete application must be in the hands of the Registrar ten days before registration for the term in which the course is offered. Non-degree students will not be permitted to take full course loads (8 hours or more) nor will they be entitled to student benefits. They will pay course fees on an hourly basis as indicated in the fee schedule.

Graduate Studies

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 educational programs.

Advanced Standing

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

Registration Procedure

Medical students register only once each year (see Calendar, page 8), at the beginning of the fall term. Students report to the Registrar's Office on the day of registration to complete registration and receive class schedules. Fees are to be paid at the Cashier's Office within the first two days of each term.

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

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. All courses must be completed satisfactorily before a student can be promoted to the succeeding 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 instructor, 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, 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 year 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.

*ADMISSIONS
AND
SCHOLASTIC
REGULATIONS*

Dismissal

The faculty has the right to sever, at any time, the connection with the Medical School of any student who it considers to be unfit for a career in medicine. The usual procedure for dropping a student comes from a recommendation by one of the Promotion Boards which are composed of the members of the faculty. Ordinarily, a student may be on probation status for two terms before a Promotion Board may recommend his dismissal. However, for adequate cause, a student may be dropped without previous warning.



3

CURRICULUM 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 subject 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 5,551½ class hours of required work. Descriptions of courses are to be found under the several departmental headings.

Prescribed Work

	Aggregate Class Hours			Term		
	Lect.	Lab.	Clinic. Total Hours			
First Year						
An 411,412, 413.....	Gross and					
	Developmental Anatomy.....	108	360	468	19	
An 415.....	Histology and Organology....	36	108	144	6	
An 511.....	Neurology and Organs of					
	Special Senses.....	24	72	96	4	
BCh 411, 412.....	General Medical					
	Biochemistry.....	96	180	276	13	
MPs 411, 412.....	Medical Psychology.....	48		48	4	
Phy 411.....	Human Physiology.....	60	108	168	8	
PH 411.....	Statistical Methods as					
	Applied to Medicine.....	12	36	48	2	
		384	864	1,248	56	
Second Year						
Mb 413, 414.....	Med. Microbiology					
	and Immunology.....	72	144	216	10	
CP 511.....	Intro. to Clinical Pathology..	36	72	108	5	
Pth 511.....	General and Systemic					
	Pathology.....	96	192	288	13	
Phc 511, 512.....	Systematic Pharmacology.....	96	72	168	10	
Fhy 412.....	Human Physiology.....	48	72	120	6	
Med 612.....	Physical Diagnosis.....	72		72	9	
Psy 511, 512.....	Interview. Tech. and					
	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						
CIS 630.....	Child Health.....	58		365	423	20
Med 630.....	Third-Year Medicine.....			405	405	16
DM 650.....	Survey of Oral Processes.....	12			12	1
DRad 615.....	Radiographic Diagnosis.....	36			36	3
ObG 630.....	Third-year Obstetrics and					
	Gynecology.....			157½	157½	6
Eye 615.....	Eye.....	12			12	1

**PRESCRIBED
COURSES**

		(Aggregate Class Hours)			Term
		Lect.	Lab.	Clinic.	Total Hours
Ent 615.....	Ear, Nose and Throat.....	12	—	—	12 1
Psy 630.....	Clinical Clerkship.....	13½	—	166½	180 8½
Sur 630.....	Third-Year Surgery.....	60	—	336	396 19
		203½	—	1,430	1,633½ 76½

Fourth Year

CP 650.....	Clinical Pathology.....	12	—	—	12 1
Pth 650.....	Clinical Pathological Conference.....	24	—	12	12 ½
Pth 653.....	Forensic Medicine.....	24	—	—	24 2
Med 657.....	Toxicology and Occupational Medicine.....	12	—	—	12 1
Med 658.....	Medical Economics.....	12	—	—	12 1
Med 670.....	Fourth-Year Medicine.....	36	—	288	324 15
Derm 670.....	Dermatology Out- patient Clinic.....	—	—	36	36 1½
ObG 670.....	Fourth-Year Obstetrics and Gynecology.....	—	—	234	234 9½
Eye 650.....	Eye.....	12	—	—	12 1
Eye 670.....	Fourth-Year Eye.....	—	—	72	72 3
Ent 670.....	Fourth-Year Ear, Nose and Throat.....	—	—	72	72 3
Ped 670.....	Fourth-Year Pediatrics.....	—	—	216	216 9
Psy 670.....	Psychiatry Outpatient Clinic Clerkship.....	—	—	48	48 2
Sur 670.....	Fourth-Year Surgery.....	24	—	336	360 16
		132	—	1,314	1,446 65½

Recapitulation

		(Aggregate Class Hours)			Term
		Lect.	Lab.	Clinic.	Total Hours
First Year.....		384	864	—	1,248 56
Second Year.....		516	636	72	1,224 64
Third Year.....		203½	—	1,430	1,633½ 76½
Fourth Year.....		132	—	1,314	1,446 66½
		1,235½	1,500	2,816	5,551½ 263

Prescribed Work by Departments

	Aggregate Class Hours
Anatomy.....	708
Biochemistry.....	276
Medical Psychology.....	71
Microbiology.....	216
Pathology.....	324
Pharmacology.....	168
Physiology.....	288
Clinical Pathology.....	120
Diagnostic Radiology.....	36
Medicine.....	945
Obstetrics and Gynecology.....	391½

CURRICULUM IN MEDICINE

Ophthalmology	96
Otolaryngology	84
Pediatrics	501
Psychiatry	323
Public Health	212
Surgery	792
Total hours	5,551½

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 re-evaluation 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, possessing an Oregon Basic Science Certificate and passing the licensing examinations. For candidates who are already licensed to practice in another state, the licensing examination may be waived by reciprocity with that state, if such a reciprocal agreement is in force or the candidate may base his application upon certification of the National Board of Medical Examiners. In some instances the Oregon Basic Science Certificate may be obtained by reciprocity with another state or based upon Part I of the test of the National Board of Medical Examiners.

Further information about licensure requirements may be obtained from the Oregon State Board of Medical Examiners, 611 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.

*COURSE
NUMBERING
SYSTEM*

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
503. Thesis

505. Reading and Conference
507. Seminar





4

DESCRIPTION OF COURSES

Basic Sciences

CONJOINT COURSE—BASIC MEDICAL SCIENCE

BMS 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**, **David L. Gunberg**, **Ellis B. Jump** (Dental School), **Anthony A. Pearson**, **William A. Stotler**

Associate Professor: **Archie R. Tunturi**

Assistant Professors: **Reid S. Connell, Jr.**, **Howard W. Davis**, **Robert Quinton-Cox** (Dental School)

Research Assistants: **Laurie DeLorme**, **Ronald W. Sauter**

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, 412, 413 and 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.** Terms 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. Prerequisite: An 411, 412, 413.

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

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

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

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

An 517. **Embryology.** 4 hours spring.

Lectures on the 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 518. **Mammalian and Human Cytogenetics.** 3 hours winter.

Methods of chromosomal study; chromosomal structure; chromosomal function in meiosis and mitosis; genetic activity and inactivity; use of chromosomes in the study of genetics: gene mapping, sex determination; spontaneous and induced chromosome aberrations; chromosomal evolution. Student recitations will be required relating to special topics such as the X-chromosome, somatic cell genetics, chromosomal variation, and cytogenetic studies in leukemia.

DEPARTMENT OF BIOCHEMISTRY

Richard T. Jones, Chairman of Department.

Professor Emeritus: **Edward S. West**

Professors: **Jack H. Fellman, A. Wesley Horton, Richard T. Jones, George W. Kittinger** (Primate Center), **Howard S. Mason***, **Oscar W. Port-**

* Leave of absence September 1, 1969 to August 31, 1970

DESCRIPTION OF COURSES

man (Primate Center), **Demetrios A. Rigas**, **Wilbert R. Todd**, **John T. Van Bruggen**

Associate Professors: **Clarissa H. Beatty** (Primate Center), **J. Peter Bentley**, **Dale D. Hoskins** (Primate Center, **Michael Litt**, **Geoffrey V. F. Seaman**

Assistant Professors: **John A. Black**, **Rose Mary Bocek** (Primate Center), **Charles F. Howard, Jr.** (Primate Center), **David Kabat**, **Anne M. Perley** (Primate Center)

Instructors: **Thomas Fujita**, **Russell L. Jolley**

Research Associates: **Bernadine Brimhall**, **Marie Duerst**, **K. Ganapathy**, **Paul MacMahill**, **Esther Roth**, **Maria Tichy**, **Milon Tichy**, **Virginia Tisdale**

Research Assistants: **Marian Baldy**, **Leonard Evans**, **Charlotte Head**, **Maureen Henderson**, **Lester Laastuen**, **Rita Nelson**, **James Salyards**, **Jean Scott**, **Barry Trowbridge**, **Joanne Van Dolah**

Required Courses

First Year

BCh 411, 412. General Medical Biochemistry. 6 hours fall, 7 hours winter.

Physical chemistry pertaining to biochemistry; structure of macromolecules and their subunits; enzymes and coenzymes; bioenergetics and the citric acid cycle; metabolism of purines, pyrimidines, lipids, and carbohydrates; biosynthesis of macromolecules; cell structure, function, and control; hormones; nutrition, digestion, and absorption; chemistry of blood and respiration; biochemistry of special tissues. A special laboratory program which includes an introduction to biochemical techniques and instrumentation and facilities are provided for the graduate students. 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. Nucleic Acids and Protein Synthesis. 2 hours, term to be arranged.

The biochemistry and biosynthesis of nucleic acids and proteins, and selected topics in the biochemistry of heredity, growth, aging and differentiation. Prerequisites: BCh 411, 412 or BMS 511, 512.

BCh 512. Bioenergetics. 2 hours, term to be arranged.

Principles of biological energy transduction. Respiratory biochemistry, biological oxidation-reduction and oxidative phosphorylation. Prerequisites: BCh 411, 412 or BMS 511, 512.

BCh 513. Advanced Intermediary Metabolism and Nutrition. 2 hours, term to be arranged.

Advanced aspects of the metabolism of lipids, sterols, carbohydrates, amino acids and proteins. The control of metabolism. Prerequisites: BCh 411, 412, or BMS 511, 512.

BCh 514. Enzymology. 3 hours, term to be arranged.

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

BCh 515. Biophysical Chemistry. 4 hours, spring term.

Physical principles underlying behavior of aqueous and membraneous phases. Intermolecular forces, energy relationships, and structure in liquid and liquid

crystalline phases. Thermodynamics of biological systems. Biophysical characterization of macromolecules. Physicochemical properties of molecular aggregates of lipids and lipoproteins. Composition and properties of membranes. Lectures and demonstrations. Prerequisites: 2 terms of physical chemistry, BCh 411, 412, or BMS 511, 512.

BCh 516. Biochemical and Biophysical Techniques. Hours and term to be arranged.

Selected laboratory exercises concerned with the preparation and characterization of substances of biochemical importance. Biophysical study of macromolecules and surface phenomena. Instrumentation theory and practice, including optical methods of analysis, electrokinetic techniques, and isotopic methods. Prerequisites: BCh 411, 412.

BCh 517. Topics in Advanced Biophysical Chemistry. Hours and term to be arranged.

Current concepts and theoretical foundations in selected topics of biophysical chemistry. Prerequisites: BCh 515.

BCh 518. Biochemical and Biophysical Properties of Proteins. 4 hours, term to be arranged.

Properties of proteins in solution, purification, criteria of purity, levels of protein structure, methods for characterization. Current concepts of protein evolution, genetics, and relationship of structure to function. Prerequisites: BCh 411, 412, or BMS 511 or consent of instructor.

BCh 519. Biochemical Mechanisms of Disease. 2 hours, term to be arranged.

Biochemical mechanisms underlying selected human diseases. Prerequisites: BCh 411, 412, or BMS 511, 512 or consent of instructor.

BCh 520. Structure and Function of Biological Membranes. 2 hours, term to be arranged.

The nature of membrane transport, muscle contraction, nerve conduction, and related processes. Prerequisites: BCh 411, 412, or BMS 511, 512.

DIVISION OF EXPERIMENTAL BIOLOGY

William Montagna, Head of Division

Professor: William Montagna

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

Assistant Professor: Mary Bell (Primate Center)

Research Associates: Hideo Nakagawa, Bohumila Rokos

Research Assistants: Albert N. Hanson, Antonia M. Lammerts Van Bueren

Elective Courses

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

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

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

EB 510. Biological Ultrastructure. 2 hours, term to be arranged.

A detailed presentation of the fine structure of cells, their organelles and inclusions with emphasis on the correlation of ultrastructural specialization and function. Lectures, 2 hours a week: 24 hours.

EB 511. Comparative Neuroendocrinology. 2 hours, term to be arranged.

A course in comparative endocrinology with emphasis on neuroendocrine control systems in both vertebrates and invertebrates. The various lines of physiological, biochemical and morphological evidence including electron

DESCRIPTION OF COURSES

microscopy which support the neurohemal theory will be presented in detail. Metamorphosis in insects, ovulation in mammals, lactation in mammals and adrenocortical secretion in vertebrates will be covered.

EB 512. Connective Tissue. 2 hours, term to be arranged.

This course will cover the structure, function and metabolism of connective tissues in general. Their major constituents: collagen, elastin, and mucopolysaccharides, will be covered in detail. The structure of these constituents will be discussed at various levels of organization with emphasis placed upon their molecular architecture, cellular origin, biosynthetic mechanisms. Specialized areas, such as bone formation and mineralization, and wound healing will be analyzed also.

DIVISION OF MEDICAL GENETICS AND EXPERIMENTAL MEDICINE

Robert D. Koler, Head of Division

Professor Emeritus: **Edwin E. Osgood**

Professors: **Robert D. Koler, Demetrios A. Rigas**

Associate Professors: **Robert H. Bigley, Frederick Hecht, Richard C. Juberg, Michael Litt**

Visiting Associate Professor: **James V. Higgins**

Assistant Professors: **John A. Black, Neil R. M. Buist, Everett W. Lovrien, Gerald H. Prescott** (Dental School), **Joe W. Templeton**

Clinical Instructor: **Jean Macfarlane**

Research Associates: **James Beck, Virginia Tisdale, Patricia Vanbellingham**

Research Assistants: **Milton Case, Marlene Delay, Shirley Ditewig, Charlotte Head, Shirley Rowe, James Salyards, Zelma Stocklen, Herman Wyandt**

Fellows: **William Kimberling, Ellen Magen, Ray Stewart**

DEPARTMENT OF MEDICAL PSYCHOLOGY

Joseph D. Matarazzo, Chairman of Department

Professors: **Robert D. Boyd, F. Robert Brush, Ann M. Garner, Robert W. Goy** (Primate Center), **Joseph D. Matarazzo, Ruth G. Matarazzo, Charles H. Phoenix** (Primate Center), **Jack A. Vernon, Arthur N. Wiens**

Associate Professors: **Robert D. Fitzgerald, Constance Hanf, Norman Henderson, James E. Lindemann, David S. Phillips**

Assistant Professors: **Bruce K. Alexander** (Primate Center), **Bruce V. Butler, Steven G. Goldstein, Russell H. Jackson, James H. O'Brien, Leif G. Terdal**

Lecturers: **Stanley Abrams, Jeanne A. Goldstein, Wallace D. Joslyn** (Primate Center), **Frank B. Strange**

Residents: **Robert E. Deysach, Benjamin F. Gillis, Ronald A. Kleinknecht, John F. Knutson, Richard Lazere, Erich J. Mash, David A. Vore**

Required Courses

First Year

MPs 411, 412. 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

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

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

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

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

MPs 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 non-parametric techniques.

MPs 512. **Research Design.** 3 hours winter.

Basic concepts of the linear model (including linear regression) and its application to the design and analysis of experiments. Topics covered include essentials of matrix algebra; bivariate and multivariate linear regression analysis; introduction to experimental design using repeated and non-repeated measures; the non-parametric model, introduction to univariate scaling theory and implications for the transformation of data. Prerequisite: MPs 511 or equivalent.

MPs 513. **Advanced Statistics.** 3 hours spring.

Problems of parametric and non-parametric analysis of multifactor experiments; basic model building for the derivations of the expected values of the mean square; covariance designs; analysis of Latin, Greek, greco-latin and Youden squares; introduction to partially balanced and unbalanced designs, complete and incomplete block designs. Prerequisite MPs 511, 512 or equivalent.

MPs 514. **Sensation and Perception.** 3 hours winter.

Review of the basic psychophysical and neurological mechanisms of audition; somatic senses, vision, olfaction, and gustation.

MPs 515. **Learning and Conditioning.** 3 hours fall.

A critical examination of evidence relating to basic learning phenomena in both classical and instrumental conditioning.

MPs 516. **Motivation.** 3 hours spring.

A critical examination of motivation as an explanatory construct in behavior theory together with a review of experimental and physiological determinants of motivational phenomena.

MPs 517. **History of Psychology.** 3 hours fall.

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.

MPs 518. **Physiological Psychology.** 3 hours spring.

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.

DESCRIPTION OF COURSES

MPs 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.

MPs 520. Individual Differences. 3 hours winter.

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.

MPs 521. Theories of Learning. 3 hours winter.

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

DEPARTMENT OF MICROBIOLOGY

Arthur W. Frisch, Chairman of Department.

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

Associate Professors: **Terence Joys**, **Arthur Malley** (Primate Center), **Ernest A. Meyer**, **Richard Parker** (Dental School), **Marvin B. Rittenberg**

Assistant Professors: **Denis Burger** (Veterans Hospital), **Barbara Iglewski**, **Wallace Iglewski**

Instructor: **Nancy B. Gerhardt**

Required Courses

Second Year

Mb 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 19 weeks. The last five weeks are devoted to the study of protozoan and helminthic parasites of man. Lectures and recitations, 3 hours a week each term; laboratory, 6 hours a week each term: 216 hours.

Elective Courses

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

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

Mb 507. Seminar. 1 hour any term.

Mb 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. Lectures and laboratories. Open to a limited number of students with consent of instructor. Prerequisites: either BCh 411, 412, or BMS 511, 512, 513, and Mb 413.

Mb 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: Mb 413, 414 and BCh 411, 412, or BMS 511, 512, 513.

Mb 510. Microbial Genetics. 4 hours, term to be arranged.

The molecular basis of heredity. The genetic control of biochemical activities

in bacteria. Systems of recombination in bacteria, bacteriophage, actinomycetes, and fungi. The theory and practice of genetic mapping and fine structure analysis. Population genetics as applied to micro-organisms. Lecture and laboratories. Prerequisites: either BMS 511, 512, and 513, or consent of instructor.

Mb 511. Immunology. 4 hours, term to be arranged.

Nature and current concepts of immune mechanisms: antibody formation, antigenicity, tolerance, hypersensitivity, transplantation immunity. Lectures and laboratories. Prerequisites: either BCh 411, 412, or BMS 511, 512, 513, and Mb 413, 414.

Mb 512. Immunochemistry. 4 hours, term to be arranged.

Chemical and physical nature of antigen, antibody, antigen-antibody complexes; physical and kinetic measurements of antigen-antibody interaction; current methods of antibody isolation, immunochemical techniques; quantitative precipitation, gel-diffusion, immunoelectrophoresis, ultracentrifugation, equilibrium dialysis, and column chromatography. Lectures and laboratories. Open to a limited number of students with consent of instructor. Prerequisites: elementary physical chemistry and biochemistry.

Mb 513. 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: Mb 413, 414.

DEPARTMENT OF PATHOLOGY

Richard D. Moore, Chairman of Department

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

Professors: **George C. Buchan, Peter J. Dawson, Richard D. Moore, Nelson R. Niles, Norman H. Rickles** (Dental School), **Benjamin V. Siegel, William B. Westcott** (Dental School)

Clinical Professor: **Vinton D. Sneed**

Associate Professors: **Thelma N. Fisher, Richard T. Gourley, Wilbur P. McNulty** (Primate Center), **Virginia Weimar**

Associate Clinical Professors: **Sheldon A. Jacobson, E. Colton Meek, Joseph E. Nohlgren, James L. Palotay**

Assistant Professors: **Robert E. Brooks, Glynn E. McArn***, **James R. Orendurff** (Veterans Hospital)

Assistant Clinical Professors: **Clarence L. Chester, Terence H. Cochran, John W. Hoffman, Albert A. Oyama, John C. Smith, II, Grier F. Starr**

Instructors: **James deWitt Rankin** (Cytology), **Florence E. Woodworth** (Cytology)

Clinical Instructor: **William J. Brady**

Lecturers: **Laurence M. Ashley, John E. Halver**

Residents: **David S. LaMure, Thomas J. McNamara**

Required Courses

Second Year

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

* Leave of absence.

DESCRIPTION OF COURSES

Fall: General principles of disease; study of prepared slides, supplemented by experiments and study of selected autopsies by all students; fresh and museum specimens; Kodrachrome 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.

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.** Any term, hours to be arranged.
- Pth 516. **Advanced Systemic Pathology.** Any term, hours to be arranged.
Study of the detached pathology of one system.
- Pth 517. **Advanced Pathological Histology.** Any term, hours to be arranged.
Systematic study of microscopic sections of autopsy tissues. Open to students who have had at least one term's work in pathology.
- Pth 518. **Special Pathology of Heart and Circulation.** Hours to be arranged.
Systematic and inclusive study of the pathologic states affecting the circulatory system, illustrated by sections and gross materials.
- Pth 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.
- 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 522. **Viral Oncology.** 2 hours, term to be arranged.
Systematic study of viruses in relation to cancer in animals and man. Biological aspects of tumor induction by viruses, intracellular and extracellular factors in neoplasia; biochemical and biophysical properties of tumor viruses.
- Pth 523. **Biochemical Pathology.** 2 hours, term to be arranged.
This course deals with the biochemical abnormalities characteristic of selected examples of both genetic and nongenetic diseases. Particular emphasis is placed on the role of nucleic acids in the processes involved. A short series of introductory lectures reviews nucleic acid biochemistry and metabolism, and is followed by a group of lectures dealing with our current knowledge of biochemical abnormalities related to chromosomal diseases, blood proteins, urinary products, storage diseases, viral infections, neoplasia, irradiation, and aging.

Pth 524. **Special Research Problems in Experimental and Comparative Pathology.** Term and hours to be arranged.

The purpose of this course is to acquaint new graduate students with the research work of various departmental members. The student is assigned a limited research problem, working in the research laboratories of the staff members concerned.

Pth 525. **Modern Trends in Pathologic Biology.** 2 hours spring.

Recent progress in the study of inflammation and degeneration, neoplasia, differentiation, and nucleic acid chemistry in disease states.

Pth 526. **Radiation Biology.** 2 hours, term to be arranged.

Lectures and demonstrations dealing with the nature of ionizing radiation, interactions with organic matter, methods of measurement, and biological effects. The major aim of the course is to emphasize mechanisms of radiation effects on molecules, cells, and organisms.

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.

DIVISION OF NEUROPATHOLOGY

George C. Buchan, Head of Division

DEPARTMENT OF PHARMACOLOGY

William K. Riker, Chairman of Department

Professors: Norman A. David, Elton L. McCawley, William K. Riker

Associate Professors: John D. Gabourel, Ralph D. Tanz, Herbert A. Wendel

Associate Clinical Professor: H. Lenox H. Dick

Assistant Professors: Robert E. Brummett, Kaye E. Fox, David Gowing, John C. Roth

Clinical Instructor: Melvin M. Reeves

Required Courses

Second Year

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

A series of lectures and laboratory exercises on the basic principles of pharmacology, mechanism of drug action and therapeutic use of drugs. Emphasis is placed on the important therapeutic drugs listed in the U.S. Pharmacopoeia and those newer drugs described in *New Drugs*. 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 are considered in both the lecture and laboratory work. Lectures, 4 hours a week each term; laboratory, 3 hours a week each term: 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.

DESCRIPTION OF COURSES

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

Phc 514. **Factors Modifying Drug Action.** 2 hours, term to be arranged.

Lectures on drug metabolism, distribution and excretion, drug protein interaction, pharmacogenetics, and drug allergy and idiosyncrasy. Prerequisite: Consent of instructor.

Phc 515. **Pharmacological Control of Biological Information Transfer.** 2 hours, term to be arranged.

Lectures on the basic mechanisms for nucleic acid and protein biosynthesis, mechanisms of repression and depression, and the effect of hormones and other drugs on these systems. Applications to chemotherapy will also be discussed. Prerequisite: Consent of instructor.

Phc 516. **Receptor Theory and Conformational Analysis.** 2 hours, term to be arranged.

Lectures on modern receptor theory, kinetics of drug receptor interactions, drug antagonism, allosteric receptor concept, and conformational analysis of receptor sites. Prerequisite: Consent of instructor.

DEPARTMENT OF PHYSIOLOGY

John M. Brookhart, Chairman of Department

Professors: **John M. Brookhart, Benjamin B. Ross**

Associate Professors: **J. Job Faber, Alfred J. Rampone, Robert E. Swanson, Joseph B. Trainer**

Assistant Professors: **Walter A. Petersen, John A. Resko** (Primate Center)

Instructor: **Patrick J. Reynolds**

Clinical Research Associates: **J. David Bristow, Miles J. Edwards, Monte Greer, James Metcalfe, William A. Neill, George A. Porter**

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 lectured material. Lectures, 4 hours a week; laboratory, 6 hours a week: 120 hours.

Elective Courses

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

Prerequisites : Phy 411, 412.

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

Prerequisites : Phy 411, 412.

Phy 505. **Seminar.** Any term, hours to be arranged.

Prerequisites : Phy 411, 412.

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

Lectures and laboratory work covering basic principles of measurements, transducers, physiological signals, signal processing and display, and applications to specific problems of physiological measurements. Basic lectures and laboratory work in electronics are included. Lectures and conferences, 2 hours a week; laboratory, 6 hours a week : 96 hours.

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

Emphasis of this course is on the physics of the cardiovascular system. Techniques of measurement and current views on cardiac performance, aortic and local blood flows, hydrostatic pressures, and the micro-circulation. Origin and conduction of heart sounds. Regulatory mechanisms. Conference, 2 hours a week; laboratory, 6 hours a week : 96 hours. Prerequisites : Phy 411, 412, BCh 411, 412.

Phy 518. **Biological Transport Processes.** 4 hours, term to be arranged.

Topics include : Fick's law of diffusion ; membrane effects (diffusion of ions through and 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. 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 of 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.

Intestinal absorption processes with emphasis on nutrient materials. Modern methods and techniques of investigation, dynamics of intestinal transport, the specialized functions of the gastrointestinal system in the assimilation of dietary nutrients. Conference, 2 hours a week; laboratory, 3 hours a week : 60 hours. Prerequisites : Phy 411, 412, BCh 411, 412.

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

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

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

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

Clinical Sciences

CONJOINT COURSE—CLINICAL SCIENCE

CLS 630. **Child Health.** 20 hours.

An interdisciplinary course providing opportunity for the student to learn the fundamental concepts of child health as they relate to acute and chronic disease processes and the inter-relationships of the child, his family, school and community.

This course will be offered as a conjoint educational exercise by Pediatrics, Child Psychiatry, Medical Psychology, Public Health and Preventive Medicine and Environmental Medicine. Students will be provided with opportunities to examine a wide spectrum of patients and to interview their families, and to participate as integral members of the medical care teams at Doernbecher Hospital and the Crippled Children's Division. They will pursue a family study and community health project centered around an individual family but which will necessitate involvement with the family, the community and social and medical agencies.

Guidance will be provided by the staff during ward and field experiences and individual and group discussions will be provided as a regular part of the work. Nine weeks. Lectures, 58 hours; ward work, clinic, conference, seminars, hospital rounds and demonstrations, 365 hours: 423 hours.

DEPARTMENT OF CLINICAL PATHOLOGY

Tyra T. Hutchens, Chairman of Department

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

Clinical Professor: **Richard Thompson**

Associate Professors: **James L. Bramhall**, **Martha Hamilton**, **Victor C. Marquardt**

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

Assistant Professors: **John P. Aitchison**, **Margaret E. Berroth**, **Charles E. Gardner**, **James E. Haines**, **Abdel L. Rashad**, **J. Robert Swanson**

Assistant Clinical Professors: **Eugene W. Landreth**, **Albert Oyama**

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

Instructors: **Patricia A. Chadwick** (Medical Technology), **Rose M. Parker** (Medical Technology), **Marian S. Thomas** (Medical Technology), **James A. Wilkinson** (Medical Technology)

Clinical Instructors: **William J. Brady**, **David J. Brown**, **Mary C. Campbell** (Medical Technology), **Archie Y. Hamilton**

Residents: **Larry K. Hatch**, **David A. Maurer**, **Thomas J. McNamara**, **K. David Perkins**, **Frank H. Watson**

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 505. **Reading and Conference.** Any term, hours to be arranged
CP 507. **Seminar.** Any term, hours to be arranged.
CP 520, 521. **Radioisotope Techniques.** 1 hour each term, fall and winter.
Lecture and demonstrations concerning the theoretical and practical application of radioisotope techniques to medicine. 1 hour a week : 24 hours.
CP 522. **Radioisotope Laboratory.** Any term, hours to be arranged.
Laboratory experience with instruments used in radioisotope work.

DEPARTMENT OF DIAGNOSTIC RADIOLOGY

Charles T. Dotter, Chairman of Department

Professors: **Marcia K. Bilbao, Charles T. Dotter, Louis H. Frische, Vincent C. Hinck, Melvin P. Judkins**

Clinical Professors: **William Y. Burton, E. Dale Trout**

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

Associate Clinical Professors: **Wayne G. Erickson, James B. Haworth, Arthur F. Hunter, John Wayne Loomis, Robert S. Miller, Arthur L. Ovregaard, J. Richard Raines, George F. Satterwhite, Fred C. Shipp, Kurt R. Straube, Hans G. Wandel, Gerald Warnock**

Assistant Professors: **Ilmar O. Kiesel** (Veterans Hospital), **Thomas A. Lynch** (Veterans Hospital), **Loren W. Stille** (Veterans Hospital)

Assistant Clinical Professors: **Raymond F. Friedman, Robert L. Mueller**

Instructor: **Gerald S. Green**

Clinical Instructors: **James R. McDougall, Gregory B. Nichols, Ronald W. Phillips, William E. Purnell, Gordon A. Stoney, Cameron J. Wiley, Oscar K. Williams**

Research Associate: **Thomas B. Hutchens, IV**

Research Assistant: **Harold J. Kidd**

Fellows: **George Bergermeister, William A. Smullen**

Residents: **Ruza Antonovic, Michael J. Brown, Gilbert M. Cordova, William L. Hebard, Gerald E. Johnson, Paul C. Lakin, DuWaine T. Matthews, C. Malcolm McKinnon, Jr., Raymond L. Penniman, John P. Phelan, John Rademacher, Robert W. Rose, James Whiting, David L. Wishart**

Required Course

Third Year

- DRad 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, radiographic technic, radiation hazard and protection. 1 hour a week : 36 hours.

DESCRIPTION OF COURSES

Elective Course

- DRad 690. **Radiographic Diagnosis.** Any term, hours to be arranged.
Practical experience derived from individually assigned cases in the teaching file, correction and diagnosis of students' presentations at weekly seminar. Enrollment limited.

DEPARTMENT OF MEDICINE

Howard P. Lewis, Chairman of Department

Professors Emeriti: **D. W. E. Baird, Isidor C. Brill, Blair Holcomb, Noble Wiley Jones, Lyle B. Kingery, Merl L. Margason, Edwin E. Osgood, Homer P. Rush**

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

Clinical Professors: **Paul R. Burgner, Robert S. Dow, Huldrick Kammer, Frederick A. J. Kingery, George B. Long, Frank Perlman, Leon F. Ray, Edward E. Rosenbaum, Thomas S. Saunders, Philip Selling, William H. Sheldon, John E. Tuhy, Franklin J. Underwood, Sheldon A. Walker**

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

Associate Professors: **Richard E. Bailey*, Robert H. Bigley, J. David Bristow, C. Conrad Carter*, Quentin D. Clarkson, Miles J. Edwards, Robert D. Goldman, Jarvis Gould, Frederick Hecht, John B. Isom, Donald G. Kassebaum, Robert E. Kellum, John W. Kendall, Jr., Marion L. Krip-paehne, Michael Litt, Manuel R. Malinow (Primate Center), Robert E. Mass (Veterans Hospital), Robert D. Michel, James F. Morris (Veterans Hospital), William A. Neill||, George A. Porter, Marvin B. Rittenberg (Microbiology), John Gordon Roth (Primate Center), Geoffrey V. F. Seaman (Experimental Neurology), Frederic W. Smith (Veterans Hospital), Janice R. Stevens, Joseph B. Trainer**

Visiting Associate Professor: **James V. Higgins**

Associate Clinical Professors: **Kurt W. Aumann, Samuel T. Beall, Arthur W. Berg, George A. Boylston, Frank W. Crowe, Joyle Dahl, William W. Hurst, Laurence MacDaniels, Raymond A. McMahon, Otto C. Page, Leonard B. Rose, Marvin Schwartz, John W. Stephens, James MacD. Watson**

Assistant Professors: **Peggy J. Copple, Reid S. Connell, Jr., Cyrus Farrehi (Veterans Hospitals), Max A. Forse (Veterans Hospital), Peter J. Galante (Veterans Hospital), Robert Grimm (Good Samaritan Hospital), Helmut Haas (Veterans Hospital), Gordon D. Haynie (Veterans Hospital), John D. Hill (Primate Center), Curtis R. Holzgang, Howard Huntington (Good Samaritan Hospital), Robert Kim (Veterans Hospital), Frank E. Kloster, Wilbur L. E. Larson (Good Samaritan Hospital), Muriel D. Lezak (Veterans Hospital) (Medical Psychology), Louis Lino (Neurochemistry), Everett W. Lovrien, Clifford S. Melnyk, Victor Milstein, Charles J. Zerzan, Jr., Lawrence S. Zivin**

Assistant Clinical Professors: **William S. Beck, Philip E. Blatt, Ian A. Brown, Gordon A. Caron, Bruce R. Chenoweth, Charles W. Coffen, Leland L.**

* Leave of absence September 1, 1969, to August 31, 1970.

** Leave of absence July 1, 1969, to June 30, 1970.

|| Leave of absence August 15, 1969 to July 1, 1970

Cross, Aubrey M. Davis, John R. Flanery, Donald E. Forster, William P. Galen, Marvin C. Goldman, Leonard M. Goldberg, Morton J. Goodman, Robert L. Hare, Marcus M. Horenstein, Jay C. Hoyt, Lewis J. Krakauer, John J. Krygier, Walter J. Kuhl, Arne J. Lindgren, Ernest T. Livingstone, Guy R. McCutchan, John Clifton Massar, Roy R. Matteri, Gordon L. Maurice, Norbert Medved, Thomas E. Morris, Donald G. Moyer, John D. O'Hollaren, Donald E. Olson, Joseph F. Paquet, Roy A. Payne, Heyes Peterson, Ralph B. Reaume, James A. Riley, George M. Robins, Wayne R. Rogers, Troy G. Rollins, Bernard F. Ryan, William C. Scott, Herbert Semler, Ralph E. Shambaugh, John M. Shaw, John L. Soelling, Donald W. Sutherland, William J. Swett, David K. Taylor, Charles W. Watkins, John B. Wild, Charles P. Wilson

Senior Instructors: Russel L. Baker (Good Samaritan Hospital), Curtis C. Bell (Good Samaritan Hospital), Howard R. Dewey (Good Samaritan Hospital)

Senior Clinical Instructors: Arthur M. Bergman, John A. Blanchard, Orville W. Boicourt, Michael T. H. Brodeur, William Cohen, Rodney L. Crislip, Leo J. Freiermuth, Robert H. Gray, Donald P. Grettie, Thomas M. Haun, Thomas S. Healy, Richard H. Kosterlitz, Paul O. Kretschmar, Walter G. Larsen, Robert G. McKillop, John J. Murphy, John W. Partidge, Robert G. Pittenger, Robert E. Rinehart, Will C. Senders, Donald N. Wysham

Instructors: George S. Banton (Good Samaritan Hospital), Clifford A. Fratzke, Scott H. Goodnight, Jr., Jack H. Hutchinson, Henrik A. B. Lundh (Veterans Hospital), C. Lawrence Lutchner*, Laurence Mills (Good Samaritan Hospital), Donald Rushmer (Good Samaritan Hospital), James R. Schimshock** (Veterans Hospital), Frances J. Storrs, Robert Thune (Tuberculosis Hospital), Albert F. C. Vervloet

Clinical Instructors: Alan W. Ames, Cameron C. Bangs, J. Bruce Bell, Jeanne Boucher-Leif, Donald B. Bowman, Larry T. Brice, Rosemary E. Brodie, Melissa L. Buchan, Jack L. Chitty, Eric W. S. Craig, Conrad A. DeLauteur, Gordon L. Doty, Richard F. Drake, William E. Drips, Jr., Harold P. Dygert, Jr., Donald G. Edwards, John H. Ellison, Eldon L. Erickson, Joseph H. Eusterman, William B. Evans, Stanton L. Freidberg, David C. Frisch, James B. Gillick, John J. Greve, Waldo E. Harris, William J. Hemphill, Paul Q. Hull, Joseph A. Intile, Wesley R. Jacobs, Rocquelyn M. Jastak, Foster F. Keene, David D. Kliewer, Albert E. Larner, L. William Larson, T. David Lee, Jr., James L. Mack, Leonora B. Manzanodantas, Don D. Martin, Harry W. Massenhimer, S. Spence Meighan, Walter E. Meihoff, Ruth L. Mercer (Dietetics), Fred C. Nachtigal, Donald Roy Olson, William R. Olson, Edwin G. Palmrose, Carl A. Petterson, Charles T. Pinney, Philip J. Reilly, Gerald R. Reimer, Donald T. Romanaggi, David R. Rullman, Irvin F. Rumbaugh, Paul S. Russell, Kent Ronald Smith, George V. Squires, Roy Glenn Snodgrass, Henry E. Storino, Esther A. Strom, Ralph R. Sullivan, Donald E. Tatum, Hugo Uhland, Robert D. Wilson, Gordon F. Wolfe, James V. Woodworth.

Residents: Edward W. Hearn, John P. Lunas, Walter J. McDonald, Glenn E. Millar, Trenton J. Spolar, Theodore A. Walters, W. Mark Wheeler, III
Assistant Residents: Phyllis B. Church, Theofilus DeBruin, D. Duane Denney, D. Angus Duncan, Jay R. Dykstra, Jerold A. Hawn, David M. Hennes, Kevin B. Lake, Franklyn M. Millman, William C. Owens, Dick L. Robbins, John A. Schriver, Kathleen A. Weaver, Jerry N. Zebrach, Arthur F. Zbinden
Junior Assistant Residents: John R. Burg, Henry DeMots, Jr., Arthur E. DePalma, Gary J. Goodman, Mark T. Hattenhauer, Michael L. Hinnen, William D. Jones, Ronald M. Katon, David A. Radone, Richard D. Raines, Charles R. Robinson, David N. Sim, Peter R. Torelli, Lawrence G. Wilson, Gordon A. Wong

* Military leave.
 ** Leave of absence.

DESCRIPTION OF COURSES

DIVISION OF CARDIOLOGY

Herbert E. Griswold, Head of Division

Professors Emeriti: **Isidor C. Brill, Homer P. Rush**

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

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

Associate Professors: **J. David Bristow, Donald G. Kassebaum, Manuel R. Malinow** (Primate Center), **William A. Neill****, **George A. Porter**

Associate Clinical Professors: **William W. Hurst, Leonard B. Rose, Marvin Schwartz**

Assistant Professor: **Frank E. Kloster**

Assistant Clinical Professors: **Charles W. Coffen, Aubrey M. Davis, William P. Galen, Leonard M. Goldberg, Gordon L. Maurice, Ralph B. Reaume, James A. Riley, Wayne R. Rogers, Herbert Semler, Donald W. Sutherland, William J. Swett, John B. Wild**

Instructor: **Jack Hutchinson**

Senior Clinical Instructors: **Orville W. Boicourt, Michael T. H. Brodeur, Rodney L. Crislip**

Clinical Instructors: **Waldo E. Harris, Wesley R. Jacobs, T. David Lee, Irvin F. Rumbaugh**

Fellows: **John Antonovic, Edna L. Kremkau, George S. Rhyneer, Donald K. Stott**

DIVISION OF CHEST DISEASES

Miles J. Edwards, Acting Head of Division

Professor: **James T. Speros**

Clinical Professor: **John E. Tuhy**

Associate Professors: **Miles J. Edwards, Robert D. Michel, James F. Morris** (Veterans Hospital)

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

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

Clinical Instructors: **John J. Greve, James L. Mack, Albert Vervloet, Robert D. Wilson**

Research Associate: **Belle Cannon**

Research Assistant: **June Command**

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.**

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

* Oregon Heart Association Chair of Cardiovascular Research.

** Leave of absence August 15, 1969 to July 1, 1970.

** Leave of absence July 1, 1969 to June 30, 1970.

Associate Professor: **Robert E. Kellum**
Associate Clinical Professors: **Frank W. Crowe, Joyle Dahl**
Assistant Clinical Professors: **Gordon A. Caron, Bruce R. Chenoweth, John Clifton Massar, Donald G. Moyer, Bernard F. Ryan, John M. Shaw, Troy G. Rollins, Charles W. Watkins**
Instructor: **Frances J. Storrs**
Clinical Instructors: **Conrad A. DeLateur, David C. Frisch, William J. Hemp-hill, Albert E. Larner, Don D. Martin, Paul S. Russell, Ralph R. Sullivan**
Research Assistants: **Mary Campbell, Cheryl Degner, Sandra Poutala, Fusako Sato**
Fellows: **Jerald F. Baker, Jeffrey Pinto, Paul Porter, Kenzo Sato**
Residents: **Richard E. Hammond, Thomas A. Holeman, Dennis D. Knutson, DeAnn Pappas, William J. Redfield, Barry Remington, Daniel J. Trozak**

DIVISION OF DIABETES AND METABOLISM

Daniel H. Labby, Head of Division
Professor: **Daniel H. Labby**
Associate Professor: **Richard E. Bailey***
Associate Clinical Professors: **Otto C. Page, John W. Stephens**
Assistant Clinical Professors: **Robert Hare, Marcus M. Horenstein**
Senior Clinical Instructors: **Donald P. Grettie, Robert G. McKillop**
Clinical Instructor: **Eldon L. Erickson**
Fellows: **Albert Castro, Mable Garner**
Research Associates: **Frantisek Bartos, Dagmar Bartosova**
Research Assistants: **Rosanne Kramer, Dorothy Macfarlane**

DIVISION OF ENDOCRINOLOGY

Monte A. Greer, Head of Division
Professor: **Monte A. Greer**
Clinical Professor: **Huldrick Kammer**
Associate Professor: **John W. Kendall, Jr.**
Associate Clinical Professor: **Kurt W. Aumann**
Assistant Clinical Professors: **Philip E. Blatt, Walter J. Kuhl, Ernest T. Livingstone**
Research Fellows: **David Cook, Helmut Haibach, Isao Kobayashi**
Research Assistants: **Catherine Allen, Marilyn Egans, 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)**

* Leave of absence September 1, 1969 to August 31, 1970.

DESCRIPTION
OF COURSES

Associate Clinical Professor: **George A. Boylston**

Assistant Professors: **Clifford S. Melnyk, Charles J. Zerzan, Jr.**

Assistant Clinical Professors: **Marvin C. Goldman, Lewis I. Krakauer, John J. Krygier, Norbert E. Medved, Heyes Peterson, John L. Soelling**

Senior Clinical Instructors: **Leo J. Freiermuth, Thomas M. Haun, Thomas S. Healy**

Clinical Instructors: **Donald G. Edwards, John H. Ellison, William B. Evans, Walter Meihoff**

DIVISION OF HEMATOLOGY

Arthur J. Seaman, Head of Division

Professor Emeritus: **Edwin E. Osgood**

Professors: **Robert D. Koler, Bernard Pirofsky, Arthur J. Seaman, John R. Walsh** (Veterans Hospital)

Associate Professors: **Robert H. Bigley, Robert D. Goldman, Robert E. Mass** (Veterans Hospital)

Senior Clinical Instructor: **Robert Pittenger**

Clinical Instructors: **Gordon L. Doty, David D. Kliever, David R. Rullman**

Research Assistants: **Inez Brownlee, Bonita Hubner, Charlotte Moffat**

Fellows: **Ignacio Mariscal, Yuki Tazawa**

DIVISION OF IMMUNOLOGY, ALLERGY, AND
INFECTIOUS DISEASES

Bernard Pirofsky, Head of Division

Professor: **Bernard Pirofsky**

Clinical Professor: **Frank Perlman**

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

Associate Professor: **Marvin B. Rittenberg** (Microbiology)

Assistant Clinical Professors: **Roy R. Matteri, John D. O'Hollaren, George M. Robins**

Senior Clinical Instructor: **Richard H. Kosterlitz**

Clinical Instructors: **Fred C. Nachtigal, Donald T. Romanaggi, George V. Squire, Gordon F. Wolfe**

Research Assistants: **Anne August, Gordon Davies, Lynn Elwell, Katherine Pratt**

Research Fellows: **Zvi Marcus, Robert H. Reid**

DIVISION OF NEUROLOGY

Roy L. Swank, Head of Division

Professor Emeritus: **Merl L. Margason**

Professor: **Roy L. Swank**

Clinical Professor: **Robert S. Dow**

Associate Professors: **C. Conrad Carter****, **Quentin D. Clarkson**, **John B. Isom** (Pediatrics), **John Gordon Roth**, **Geoffrey V. F. Seaman** (Experimental Neurology), **Janice R. Stevens**

Associate Clinical Professor: **James MacD. Watson**

Assistant Professors: **Reid S. Connell, Jr.**, **Peggy J. Copple** (Pediatrics), **Robert Grimm** (Good Samaritan Hospital), **Howard Huntington** (Good Samaritan Hospital), **Robert Kim** (Veterans Hospital), **Louis Lino** (Experimental Neurology), **Victor Milstein**, **Wilbur L. E. Larson** (Good Samaritan Hospital), **Muriel D. Lezak** (Veterans Hospital) (Medical Psychology), **Lawrence S. Zivin**

Assistant Clinical Professors: **Ian A. Brown**, **Leland L. Cross** (Rehabilitation)

Senior Instructors: **Russel L. Baker** (Good Samaritan Hospital), **Curtis C. Bell** (Good Samaritan Hospital), **Howard R. Dewey** (Good Samaritan Hospital)

Instructors: **George S. Barton** (Good Samaritan Hospital), **Lawrence Mills** (Good Samaritan Hospital), **Donald Rushmer** (Good Samaritan Hospital), **James R. Schimshock*** (Veterans Hospital)

Clinical Instructors: **J. Bruce Bell**, **Jeanne Boucher-Leif**, **Rosemary E. Brodie**, **Eberhard Gloekler**, **Philip J. Reilly**, **Gerald R. Reimer**, **Roy Glenn Snodgrass**, **Henry E. Storino**

Research Associate: **Tadashi Kawasaki** (Good Samaritan Hospital)---

Residents: **John P. Allen**, **Vito R. Del Deo**, **Marshall Gollub**, **John A. Melson**, **Sundarem Satyamurti**, **Donald L. Stainsby**, **Mary Ellen Stanger**, **Rudolph W. Taubner**, **Jacob Wilson**

Research Fellows: **Donald E. Brooks**, **Ernest Lane**, **James R. Schimshock**

DIVISION OF RHEUMATOLOGY

Edward E. Rosenbaum, Acting Head of Division

Clinical Professor: **Edward E. Rosenbaum**

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

Senior Clinical Instructors: **Paul O. Kretschmar**, **Robert E. Rinehart**

Clinical Instructor: **Esther A. Strom**

Internal Medicine—Required Courses

Second Year

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

Systematic lectures, demonstrations, practice sessions and ward rounds dealing with the principles of history taking, physical examination, and the pathophysiological basis for physical signs. Lectures, 2 hours a week each term; demonstrations, 2 hours a week each term: 144 hours.

Third Year

Med 630. Third-Year Medicine. 16½ hours.

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

Hospital clerkship provides 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

** Leave of absence September 1, 1969 to August 31, 1970.

* Leave of absence.

DESCRIPTION OF COURSES

taking, physical examination, and differential diagnosis. The clinic and conference sessions deal with basic concepts relating to a broad range of medical disorders, and discussions of reading in the field of internal medicine.

The student attends Medical Staff Conferences, staff rounds, a Medicine mortality conference, and a one-hour Dermatology Clerkship. Clinics and conferences 10 hours a week for nine weeks of the school year : 90 hours. Clerkships 35 hours a week for nine weeks of the school year : 315 hours. 405 hours.

Fourth Year

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

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

Med 658. Medical Economics. 1 hour spring.

A series of lectures concerning the economic, sociological, legal and other problems connected with the practice of medicine. Lectures, 1 hour 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, a General Clinical Conference, held by the departments of medicine and surgery, once weekly during their fourth-year medicine, surgery, and obstetrics and gynecology assignments, and a six-week period in the Dermatology Outpatient Clinic. Students also study selected psychiatric cases with the Department of Psychiatry.

Conference on Medical Therapy (lecture), 1 hour a week, fall, winter, and spring : 36 hours. General Clinical Conference, 2 hours a week, in sections : 24 hours. General Internal Medicine Outpatient Clinic, 15 hours a week for 6 weeks ; 9 hours a week for 6 weeks : 144 hours. (In addition, each student spends 6 hours a week for 6 weeks in Derm 670, Dermatology Outpatient Clinic : 36 hours.) Subspecialty clinics, 10 hours a week : 120 hours. Lectures, 36 hours ; clinics and conferences : 288 hours. 324 hours.

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 681, 682. **Marital and Premarital Counseling in Medical Practice.** 1 hour winter and spring.

Lectures and discussions on the psychophysiological background of human sexuality and the medical and ethical problems encountered in this area of medical practice. 1 hour a week: 24 hours.

Med 690. **Medical Outpatient Clinic.** Any term, hours to be arranged.

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 691. **Electrocardiography.** 1 hour, any term.

Conferences, demonstrations and laboratory exercises devoted to the techniques, physiological basis and interpretation of electrocardiography and vectorcardiography. Limited to students on the Medicine block. 2 hours a week for 12 weeks: 24 hours.

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 6 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 demonstrations. 1 hour a week: 12 hours. (For second-year students.)

Med 694. **Fluid and Electrolyte Management.** 1 hour, one section each term.

Intensive study of selected problems in fluid and electrolyte management in the Multnomah and Medical School Hospitals. Students work in pairs and study assigned patients. Conferences and discussions on rounds concerning the diagnosis, treatment, and basic mechanisms of these disorders in patients. 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.

DESCRIPTION OF COURSES

Dermatology—Required Course

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.** Any term, hours to be arranged.

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, Raphael B. Durfee***

Clinical Professor: **Howard C. Stearns**

Associate Professors: **Adam W. Lis, John de Maria**

Associate Clinical Professors: **Melvin W. Breese, Clifford Fearl, Gunnar E. C. Nelson, Duncan R. Neilson, William M. Wilson**

Assistant Professor: **Burritt W. Newton**

Assistant Clinical Professors: **Theodore M. Bischoff, Roderick C. Blatchford, Richard N. Bolton, James W. Fergus, Richard W. Franklin, W. Ronald Frazier, Malcolm E. Fuller, Remy W. Fulsher, David W. James, Gerald E. Kinzel, George H. Lage, F. Keith Markee, Alfred N. Marshall, Joseph C. Mitchell, Jesse L. Ray, William O. Thomas**

Clinical Instructors: **Bennett I. Alberts, Phillip S. Alberts, C. Louise Clancy, John E. Cleland, Raymond S. Corwin, James E. Dahlman, Betty Jo Davenport, Enrique M. DeCastro, Robert P. Doughton, Thomas K. Griffith, Robert B. Greene, Mark R. Hanschka, George S. Hara, Curtis J. Hendricks, William W. Hicks, Jr., Ivan I. Langley, Harry A. Lee, David W. Moore, Peter H. R. Roberts, Quinten Scherman, John W. Tarnasky, Thomas L. Thornton, Peter A. Tyerman**

Residents: **Herbert Bias, Jr., William Y. Burton, Jr., John A. Enbom, Garron R. Hale, Jörg Hecker, Kent E. Neff, Sheldon F. Payne, Loren P. Petersen, George H. Rice, Dean T. Watkins, Glenn H. Weyhrich**

Research Assistant: **Marilyn Bowen**

Required Courses

Third Year

ObG 630. Third-Year Obstetrics and Gynecology. 6½ hours.

* Leave of absence September 1, 1969 to May 1, 1970.

Conferences, 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.

Outpatient clinic work in obstetrics includes prenatal and postnatal clinics.

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

4½ weeks. Seminars, 5 hours each week; obstetrics and gynecology rounds, 5 hours each week; obstetrics outpatient clinics, 15 hours each week; gynecology outpatient clinics, 7 hours each week: 157½ hours.

Fourth Year

ObG 670. **Fourth-Year Obstetrics and Gynecology.** 9½ hours, one section each term.

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

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

ObG 607. **Obstetrics Seminar.** Any term, hours to be arranged.

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

ObG 690. **Obstetrics and Gynecology Outpatient Clinic.** Any term, hours to be arranged. Elective credit is given for completion of clinical work in the department in addition to that required in the regular Outpatient Clinic course.

DEPARTMENT OF OPHTHALMOLOGY

Kenneth C. Swan, Chairman of Department

Professor Emeritus: **E. Merle Taylor**

Professor: **Kenneth C. Swan**

Clinical Professor: **Lester T. Jones**

Associate Professors: **Robert P. Burns, Leonard Christensen, Virginia L. Weimar**

Associate Clinical Professors: **John P. Keizer, Robert W. Zeller**

Assistant Professor: **Sam L. Meyer**

DESCRIPTION OF COURSES

Assistant Clinical Professors: Paul F. Bailey, Robert E. Fischer, Robert V. Hill, Edward N. McLean, Thomas E. Talbot

Senior Clinical Instructors: Robert H. Bedrossian, W. Leigh Campbell, Robert C. Cowger, Walter R. Enders, Alfred J. Kreft, Richard A. Lalli, Richard E. Markley, K. Nolan Tanner

Clinical Instructors: William F. Farr, Robert F. Haney*, Donald R. Johnson, Alvin M. Klass, Robert N. Page, Jr., Paul J. Robinson, James A. Saunders, Gerald A. Terman

Residents: John Apostol, William E. Atlee, John A. Banholzer, George Casper, John T. Flaxel, James Fontaine, Nancy Jane Gregory, Lee H. Peterson, Horace Robison, Gary M. Stewart

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.

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

DEPARTMENT OF OTOLOGY, RHINOLOGY, AND LARYNGOLOGY

David D. DeWeese, Chairman of Department.

Professors: David D. DeWeese, Catherine A. Smith (Kresge Research Laboratory), Jack A. Vernon (Kresge Research Laboratory)

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

Associate Professor: Patrick J. Doyle

Assistant Professors: Robert E. Brummett (Kresge Research Laboratory), McKenzie W. Buck (Speech Pathology), (Portland Center for Hearing and Speech), Paul N. Herman (Kresge Research Laboratory), Warren E. Johnson (Audiology) (Portland Center for Hearing and Speech), Alexander J. Schleuning, Kenneth D. Smyth, T. Glenn Ten Eyck (Veterans Hospital)

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

Senior Clinical Instructors: H. Victor Adix, George C. Saunders

Clinical Instructors: Oscar C. Chowning, Jr., John M. Epley, Byron L. Fortsch, Richard A. Hodgson, Donald H. Holden, James Donald Imbrie, Edward L. Korn, Darrell W. Landrey, Richard P. Panian, Alexander E. Petroff, Alfred J. Schroeder

Residents: Maurice J. Comeau, Gordon A. Dowsett, John Echevarria, Lawrence T. Eschleman, Richard A. Hendricks, Darrell A. Kammer, Jr., William R. Lee, Robert L. Moesinger, Brian D. Saine, Gordon W. Summers, John L. Traynor, Bud Allen West

Required Courses

Third Year

ENT 615. **Ear, Nose, 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. Clerkships, 25 hours a week for 2 weeks; Outpatient Clinic 1 hour 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.

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

DIVISION OF DENTISTRY

Louis G. Terkla, Head of Division

Clinical Professors: Robert J. Bruckner, Ernest H. Hixon, Duane R. Paulson, Donald R. Porter, Norman H. Rickles, Bhim S. Savara, Louis G. Terkla

Associate Professor: John S. Gullikson

Associate Clinical Professors: John P. Jarabak, J. Theodore Jastak, Oscar N. Lucas, Ralph G. Merrill, Robert S. Parker, Frank M. Wilson, James V. Woodworth, Wellesley H. Wright

Assistant Clinical Professors: Christ Bouneff, David G. Fleetwood, Donald F. Kelly, William E. Tracy, LeGrande H. Woolley

Clinical Instructor: Jay T. Estep

DESCRIPTION
OF COURSES

Dentistry—Required Course

Third Year

Dent 650. **Survey of Oral Processes.** 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; punitis and periapical pathology; differential diagnosis of radiolucencies in the jawbones; diagnosis and management of common oral conditions. Lectures, 1 hour a week: 12 hours.

DEPARTMENT OF PEDIATRICS

Richard W. Olmsted, Chairman of Department

Professors: S. Gorham Babson, William M. Clark, Jr., Rudolf C. H. Engel, Herold S. Lillywhite (Speech Pathology), Richard W. Olmsted, L. Paul Rasmussen, Richard L. Sleeter

Clinical Professors: Daniel K. Billmeyer, Scott Goodnight, Edward Press, Alvin D. Wert

Associate Professors: Robert W. Blakeley (Speech Pathology), Harold Boverman, Robert A. Campbell, Leroy O. Carlson, Warren H. Fay (Speech Pathology), Frederick Hecht, John B. Isom, Richard C. Juberg, Martin H. Lees, Robert J. Meehan, Victor D. Menashe, Christopher P. S. Williams, Norton B. Young (Audiology)

Associate Clinical Professors: John W. Bussman, Quinten W. Cochran, Morton G. Eleff, Joseph T. Hart, Edward L. Hendricks, Peter L. Hurst, Donald F. Kelly, Harvey D. Klevit, Oliver N. Massengale, John A. May, George A. Nash, Edgar M. Rector, George J. Schunk, Lendon H. Smith, William M. Snook, John A. Springer, John L. Stevenson, Clemens W. Van Rooy, Charles Varga, George F. Walliker, Jr.

Assistant Professors: Neil R. M. Buist, Wilma L. Carson, John Campbell, Peggy Cople, Kathrine S. French (Anthropology), Everett W. Lovrien, David W. Macfarlane, Michael J. Miller, Clarence L. Morgan, Emily Tufts, Herbert M. Woodcock

Assistant Clinical Professors: Carl G. Ashley, Harold R. Blair, Henry L. Boehnke, Allan K. Chappel, Joseph L. Emmerich, Walter A. Goss, John R. Hansen, James T. Hartford, William E. Hill, Arthur D. Kracke, Robert A. Mendelson, Marilyn A. Nelson, James M. Pomeroy, Thomas L. W. Roe, David L. Sessions, Robert E. Thornfeldt, William E. Tracy (Pedodontics), James P. Whittemore

Instructor: Julia L. Grach

Clinical Instructors: John R. Berry, Richard E. Cavalli, Charles K. Chapman, Calvin C. Clark, Jerome H. Dayton, J. Kenneth Fleshman, Donald W. Fortlage, Herman Frankel, Allen D. Harlor, Jr., Frank M. Jacobson, Werner P. Meyn, E. Albert Moody, L. Lee Murdoch, James S. Noble, Jay F. O'Leary, Thomas E. Olsen, Ranvir H. Sinanan, Robert E. Stanton, Mary S. Urry, Maximo C. Yao*, Eldon W. Younger

Residents: Albert Ball, James Brooks, Allan Cunningham, Richard DeKlotz, Robert Emerson, Harold Geist, Jerry Lyle, Lawrence Mason, Larry Miller, Thomas Porter, John Schilke, Lee Schmidt, Ethelyn Williams

Required Courses**Third Year**

CIS 670. **Child Health.** 20 hours.

See page 52.

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 pediatrics 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 Course

Ped 607. **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, Diagnostic Radiology, Surgery, and Pediatrics. 2 hours a week: 24 hours.

Ped 690. **Pediatric Outpatient Clinic.** Any term, hours to be arranged.

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

DEPARTMENT OF PSYCHIATRY

George Saslow, Chairman of Department

Professor Emeritus: **Henry H. Dixon, Sr.**

Professors: **Paul H. Blachly, Samuel Irwin** (Pharmacology), **George Saslow**

Clinical Professors: **Herman A. Dickel, James G. Shanklin**

Associate Professors: **Harold Boverman** (Child Psychiatry), **Vincent Glaudin** (Veterans Hospital) (Psychology), **Nancy Kosterlitz** (Psychiatric Social Work) (Psychology)**, **John B. Marks, Alan L. Morgenstern, Ira Pauly, Agnar Straumfjord**

Associate Clinical Professors: **Thomas T. Bennett** (Group Processes), **Siegfried R. Berthelsdorf, Charles Bradley, John L. Butler, Leon J. Fine, Kenneth D. Gaver, Marvin Greenbaum, Gerhard B. Haugen, Wendell H. Hutchens, Carl V. Morrison, Guy A. Parvaresh, John H. Waterman**

Assistant Professors: **Richard E. Collins** (Psychiatric Social Work), **D. Duane Denney***, **Richard L. Grant, Delbert M. Kole, Arlen Quan, John S. Tovey** (Psychiatric Social Work), **Herbert Woodcock** (Child Psychiatry)

Assistant Clinical Professors: **Douglas R. Bottomly, Robert I. Daugherty, John M. Deeney, Hans F. Fink, Buell E. Goocher** (Psychology), **Victor Gregory, John D. Hensala, Grant B. Hughes, N. B. Jetmalani, Reid R.**

** Leave of absence September 1, 1969 to August 31, 1970

* Leave of absence.

DESCRIPTION OF COURSES

Kimball, William J. M. MacKenzie, Donald McKinley, Robert L. Mighell, Richard H. Phillips, Wayne M. Pidgeon, Robert E. Ransmeier, Edward M. Scott, Robert E. Taubman

Clinical Instructors: John D. Bischel, Stanley A. Boyd, Donald E. Boye, James D. Bray, Charles C. Brown, Velma J. Horenstein, Crittenden Huston, George D. C. Kjaer, Robert C. Luther, Mary Jane Dubinski Lytle, Raymond E. Moore, Kenneth G. Paltrow, Richard O. Panzer, James L. Petroske, William J. Pynch, David L. Sessions (Pediatrics), Mary Anne Smith, Edward W. Speth (Psychology), Theodore P. Utt, Daniel V. Voiss, James G. Wade (Suicide Prevention Service), Ralph D. Worthylake

Research Associate: Rosalie D. Howard

Residents: David R. Bulmer, Elmore E. Duncan, James W. Eastman, H. Hale Henson, Aina J. Holt, E. Michael Irwin, Charles E. Johnson, Jerry K. Larsen, Georgia Lee, Barry M. Maletzky, Grant D. Miller, Donald A. Molde, Jean C. W. Owen, Ronald Turco

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, supervised interview practice and exercises in interpersonal competence conclude the course. Lecture, 1 hour a week, each term. Laboratory, 2 hours a week each term: 72 hours.

Third Year

CIS 630. **Child Health.** 20 hours.

See page 52.

Psy 630. **Clinical Clerkship.** 8½ hours.

The clinical clerkship in psychiatry affords the opportunity to expand concepts provided in the first two years and to obtain clinical experience in psychiatric illness and the emotional complications of physical disease. Systematic instruction in the principles of psychopathology and treatment will be provided through lectures, seminars, case conferences, and individual supervision. Supervised clinical experience is obtained in the psychiatry outpatient clinic, psychiatry inpatient facility, the University State Tuberculosis Hospital, emergency room, and in consultation to the pediatric, medical and surgical services. Special emphasis is placed on developing the student's interviewing and interactional skills with patients. 4½ weeks. Lectures, 13½ hours; outpatient clinic, ward work, seminars and conferences, 166½ hours: 180 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.

PUBLIC HEALTH
AND
PREVENTIVE
MEDICINE

DEPARTMENT OF PUBLIC HEALTH AND
PREVENTIVE MEDICINE

Harold T. Osterud, Chairman of Department

Professor: **Harold T. Osterud**

Clinical Professor: **Edward Press**

Associate Professors: **David W. Johnson, William E. Morton**

Associate Clinical Professor: **Samuel B. Osgood**

Assistant Professor: **Edward Goldblatt**

Assistant Clinical Professors: **Peter J. Batten, John H. Donnelly, Thomas L. Meador**

Senior Instructor: **Richard L. Lessel**

Senior Clinical Instructors: **Gatlin Brandon, Monroe A. Holmes, Marian M. Martin, Charles S. Stitt**

Clinical Instructors: **William E. Creighton, Lionel H. deMontigny, David M. Witter**

DIVISION OF ENVIRONMENTAL MEDICINE

A. Wesley Horton, Acting Head of Division

Professor: **A. Wesley Horton**

Associate Clinical Professor: **Ralph R. Sullivan**

Assistant Clinical Professors: **David W. McClure, Hilton W. Rose, A. Clair Siddall**

Senior Clinical Instructor: **Darrel D. Douglas**

Clinical Instructors: **John T. Redfield, Bill L. Stevenson**

Fellow: **James Berry**

Research Assistants: **Joseph L. Alvarez, Gladys Christian, Patricia E. Goings, Jeanne Carol Hopkins, John L. Pauly, Marilyn L. Rudin**

Required Courses

First Year

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

Introduction to elementary statistics; data collection, processing and presentation; problem solving, decision making, potential problem analysis and evaluation. Lectures, demonstrations and seminars, 40 hours; laboratory, 8 hours: 48 hours.

Second Year

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

Introduction to basic concepts of human ecology including interrelationships between man and his biologic, physical, chemical and sociocultural environments. Lectures and recitations, 1 hour a week: 12 hours.

PH 513. **Epidemiology.** 3 hours spring.

Principles of epidemiology and epidemiologic bases for prevention and control of disease; applications to communicable and non-communicable disease; emphasis on environmental factors. Lectures and seminars, 5 hours per week.

DESCRIPTION OF COURSES

Third Year

CIS 630. **Child Health.** 20 hours.

See page 52.

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 RADIATION THERAPY

Clifford V. Allen, Chairman of Department

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: **Irving J. Horowitz**

Instructor: **William R. Vermeere** (Radiation Biology)

Residents: **Richard W. Lehfeldt, Roland D. Ostlund, Oscar Carl Simonton, Jr., Kenneth R. Stevens**

Elective Courses

RadT 691. **Introduction to Radiation Therapy.** Hours to be arranged.

Attendance and participation in Radiation Therapy planning conferences, observing treatment and follow-up examination on assigned cases.

DEPARTMENT OF SURGERY

William W. Krippaehne, Chairman of Department

Professor Emeritus: **Eugene W. Rockey**

Professors: **William W. Krippaehne, Clare G. Peterson, R. Mark Vetto**
(Veterans Hospital)

Clinical Professors: **John C. Adams, Allen M. Boyden, Mathew McKirdie, Millard S. Rosenblatt, Robert A. Wise**

Associate Professors: **William S. Fletcher, Stanley W. Jacob**

Associate Clinical Professors: **Harvey W. Baker, Clifford E. Hardwick, Edward E. Wayson**

Assistant Professors: **William C. Awe, John R. Campbell, Daniel L. Dennis, Ralph D. Robertson**

Assistant Clinical Professors: **John W. Bassett, Harry G. Beckwith, Jr., William J. Garnjobst, Guy W. Gorrell, LeRoy E. Groshong, Russell G. Gustavson, Martin A. Howard, Russell L. Johnsrud, John F. Kane, Donald R. Laird, Robert W. Marcum, Joseph W. Nadal, Philip F. Parshley, Jr., John P. Trommald, Nathaniel D. Wilson, Werner E. Zeller**

Senior Clinical Instructors: **Richard P. Andrews, Jack Blumberg, Darrell C. Bollam, Paul M. Brown, Nathan J. Campbell, Donald L. Cleland, John G. P. Cleland, Hugh Donald Colver, Arch Diack, Thomas J. Fox, J. Gordon Grout, Roger W. Hallin, Theodore L. Hyde, Toshio Inahara.**

Roderick L. Johnson, Gary H. Leaverton, Verner V. Lindgren, Richard H. Lindquist, David B. Miller, H. Minor Nichols, Joseph M. Roberts, Keith A. Robertson, Willard D. Rowland, Ambrose B. Shields, Richard D. Sloop, Philip A. Snedecor, Dan M. Steffanoff, Alvin O. Uhle, Linton G. Weed

Clinical Instructors: Benny Lee Bachulis, Jack E. Battalia, Esmond Braun, Frederick H. Bentley, Fred W. Biecker, Keith M. Clisby, Ralph Garr Cutler, Peter DeWitt, Harry B. Dittmore, Zanley C. Edelson, Lester H. Eisendorf, Latham Flanagan, Paul D. Foster, George Thomas Harding, Jr., Bernard P. Harpole, John F. Hayes, Jack D. Jefferson, Joseph R. Kantor, Reinhold Kanzler, Harley D. Kelley, G. Prentiss Lee, Otto L. Loehden, William R. McAllister, R. Kent Markee, Willard L. Mathieson, Roland M. Mayer, James V. Meyer, Jack Naylor, Ralph D. O'Dell, Robert W. Olwine, Robert W. Patton, Irving Puziss, Daniel L. Reed, Melvin M. Reeves, Walter C. Reiner, William M. Rosenbaum, Nathan Shlim, Leland Clair Spaulding, Charles R. Starr, Eugene S. Sullivan, Robert H. Tinker, Paul Trautman, James W. Wiley, Gregg D. Wood

Research Associate: Don C. Wood

Residents: John H. Affleck, Richard P. Armstrong, Arnold R. Atkins, Bolek Brant-Zawadski, Bruce Buck, Langley R. Collis, Larry R. Eidemiller, Richard A. Gingrich, Lloyd D. Hale, David L. Haugen, Richard E. Hurst, W. Curtis Kaesche, Thomas D. Lindell, William H. Massey, Hugh S. Moseley, James T. Pappas, James A. Roman, Gordon H. Sasaki, Gary R. Snyder, Kenneth Tuttle, Joseph B. Vander Veer, Jr.

DIVISION OF ANESTHESIOLOGY

Frederick P. Haugen, Head of Division

Professors: Frederick P. Haugen, John Clarence Roth

Associate Professor: David Gowing

Assistant Professors: Marvin L. Darsie, Jr. (Veterans Hospital), Roger L. Klein, Betty B. Thompson, Charles P. Waltemath

Senior Instructor: Alice Shannon Fuchs

Instructor: Homer C. Jones, Jr. (Veterans Hospital)

Clinical Instructors: John O. Branford, Donald P. Dobson, Clarence H. Hagmeier, James V. Harber, Marion E. Palmer, Bruce A. Peters, Paul E. Schaff

Residents: Peter E. Erbguth, May-Ho Hung, Robert D. Kuhl, Michael N. Nichols, Susan D. Norcross, Gary S. Okino, Richard H. Otteman, Charles W. Poindexter, Donald D. Preuss, William R. Roady, Earl G. Sherod

DIVISION OF CARDIOPULMONARY SURGERY

Albert Starr, Head of Division

Professor: Albert Starr

Clinical Professor: William S. Conklin

Assistant Professors: Robert P. Hodam, Harry R. King

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

Senior Clinical Instructors: J. Karl Poppe, Charles H. Sparks, William R. Sweetman

Instructor: Jeri L. Dobbs

Clinical Instructors: Stanley F. Bergquist, Fernando Leon

DESCRIPTION OF COURSES

Fellows: **Christos Lolas, Joshua Salvador**

Residents: **Laurence Bonchek, Carter A. Printup, Richard C. Rogers**

DIVISION OF NEUROSURGERY

Harold D. Paxton, Head of Division

Professor: **Harold D. Paxton**

Clinical Professor: **John Raaf**

Associate Professors: **Anthony E. Gallo, Jr., Makoto Sato**

Associate Clinical Professor: **Edward W. Davis**

Assistant Clinical Professor: **Edward K. Kloos**

Clinical Instructors: **John P. Dennis, Ray V. Grewe, Joel L. Seres**

Residents: **Henry H. Gary, Jr., Hirohisa Ono, Calvin Tanabe, Stephen Weitz**

DIVISION OF ORTHOPEDICS

William E. Snell, Head of Division

Professors Emeriti: **Roderick E. Begg, Harry C. Blair, C. Elmer Carlson**

Professor: **William E. Snell**

Clinical Professors: **Eldon G. Chuinard, Arthur C. Jones** (Physical Medicine)

Associate Professor: **Rodney K. Beals**

Associate Clinical Professors: **Joe B. Davis, Lawrence Noall, Frank B. Smith**

Assistant Professors: **Everill W. Fowlks** (Physical Medicine) (Veterans Hospital), **Kenneth D. Smyth** (Physical Medicine)

Assistant Clinical Professors: **John F. Abele, Richard F. Berg, Raymond A. Case, Jr., Harold E. Davis, H. Freeman Fitch, Richard J. Hopkins, A. Gurney Kimberley, Donald B. Slocum**

Senior Clinical Instructors: **Thomas J. Boyden, Paul Campbell, Lawrence J. Cohen, George W. Cottrell, Charles A. Fagan, Calvin E. Gartenbein*, Joseph H. Gill, Harry E. Groth, Carl L. Holm, Orville N. Jones, Calvin H. Kiest, Jr., Laurence R. Langston, James A. Mason, George A. Peirson** (Physical Medicine), **Edwin G. Robinson, Faulkner A. Short**

Clinical Instructors: **Michael Baskin, Charles R. Boge, Howard L. Cherry, McGregor L. Church, Winfred H. Clarke, Arthur L. Eckhardt, Thomas A. Edwards, Richard P. Embick, Robert J. Fry, Louis Phaon Gambee, Howard J. Geist, Samuel F. Gill, John Harder, John P. Hazel, Stanley L. James, Philip S. King, III** (Physical Medicine), **Robert L. Larson, Norman L. Logan, Robert G. McKillop, Raymond E. Moore** (Physical Medicine), **Samuel Osborn, Robert H. Post, Robert M. Rankin, Michael R. Rask, Thad C. Stanford, John W. Thompson, Richard C. Zimmerman**

Residents: **James L. Baldwin, Charles Bird, Robert Chuinard, David A. Haaland, Michael S. Hmura, Edwin A. Kayser, Jr., Grant D. Lawton, Gerald Lisac, Craig MacCloskey, Michael R. Marble, Ilmar Soot, Ira M. Yount**

DIVISION OF UROLOGY

Clarence V. Hodges, Head of Division

Professor: **Clarence V. Hodges**

Clinical Professors: J. Scott Gardner, John R. Hand, Thomas R. Montgomery

Associate Clinical Professors: Charles Ferguson, Theodore H. Lehman, Robert J. Moore

Assistant Professor: Russell K. Lawson

Assistant Clinical Professors: G. Donald Beardsley, Emerson J. Collier, Jerry D. Giesy, Curtis A. Macfarlane, David P. Paull, Arnold Rustin, John G. Vandenberg, Gerald F. Whitlock

Clinical Instructors: Charles E. Catlow, Jr., Luis E. Halpert, Robert L. Kalez, Russell N. Sacco, Ivan L. Sandoz, Jerome C. Weeber

Instructor: Dayton R. Seabaugh

Residents: Jerald E. Albrich, John M. Barry, Arlen B. Burns, George Dechet, Walter A. Derrick, John A. Emery, Thomas W. Friedland, David A. Kimball, Robert W. Ruggeri, Clifford O. Stranburg, Don A. Udall, Gary Van Galder, Jay H. Winemiller

General Surgery—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.** 19 hours.

The third-year course in surgery gives the student a broad perspective based upon models and concepts of injury and disease. The objectives are to accomplish this through learning model systems of disease, information acquisition through the surgical literature, understanding the scientific methods, developing problem-solving techniques by identification of deviations from normal, specifying it, analysis of the data, and formulating a rational conclusion or decision. From this therapeutic corollaries can be derived. Potential problem analysis resulting from procedures and therapy are learned.

This is implemented through outpatient clinic patient history taking, physical examinations, ordering of pertinent diagnostic or confirmatory laboratory work with discrimination. Case analysis seminars and clinics in general surgery are conducted. A systematic series of lectures given in general surgery, urology, and orthopedics supplements reading and case material and is designed for emphasis, perspective, or development of concepts and principles. In anesthesiology, an integrated series of lectures and demonstrations covers the history of anesthesia, applied physiology, anesthetic techniques, and use of anesthetic agents. Neurosurgical seminars are designed to acquaint the student with diagnosis and treatment of patients with major neurosurgical problems.

Conferences, clinics, patient studies and demonstrations are held in physical medicine and clinical pathology. Students spend three weeks on general surgery, three weeks on orthopedics and three weeks on urology. Lectures, 60 hours; conferences, clinics, patient studies and demonstrations, 336 hours: 396 hours.

Fourth Year

Sur 670. **Fourth-Year Surgery.** 16 hours, one section each term.

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

DESCRIPTION OF COURSES

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 post-operative 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 including animal surgery experience 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, 192 hours; Experimental Surgery, 24 hours; Neurosurgery Clerkship, 72 hours: 336 hours: 360 hours.

General Surgery—Elective Courses

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

Sur 690. **Surgery Outpatient Clinic.** Any term, hours to be arranged.

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

Anesthesiology—Elective Course

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

Neurosurgery—Elective Courses

NSur 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.

NSur 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.

Orthopedics—Elective Courses

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

Orth 690. **Orthopedic Outpatient Clinic.** Any term, hours to be arranged.

Elective credit is given for completion of clinical work in the division in addition to that required in the regular Outpatient Clinic

Urology—Elective Courses

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

An introduction to the clinical field of transplantation with emphasis on immunosuppressive therapy and its complications; an introduction to the experimental techniques in surgery and immunology as applied to current problems in organ transplantation.

Ur 690. **Urology Outpatient Clinic.** Any term, hours to be arranged.

Elective credit is given for completion of clinical work in the division in addition to that required in the regular Outpatient Clinic course.

5

OTHER INSTRUCTIONAL PROGRAMS



Medical Technology

Tyra T. Hutchens, Director of Medical Technology Program

Mary E. Baptist, Teaching Supervisor

Professor: **Tyra T. Hutchens**

Associate Professors: **James L. Bramhall, Martha L. Hamilton, Victor C. Marquart**

Assistant Professors: **Margaret E. Berroth, James E. Haines, Charles E. Gardner**

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

Instructors: **Patricia A. Chadwick** (Clinical Microbiology), **Rose M. Parker** (Hematology), **James A. Wilkinson** (Clinical Chemistry and Urinalysis), **Marian S. Thomas** (Immunohematology)

Clinical Instructor: **Mary C. Campbell**

Assistants to the Teaching Supervisor: **Betty M. Carlson, Dorothy B. Chambers, Claudia L. Darby, Howard W. Green, Janice R. Kellogg, Allan R. Kimmerly, Linda L. Lowery, Wallace H. Matsumura, Donna M. Primmer, Sandra Reed, Harry Seto**

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 Council on Medical Education and Hospitals of the American Medical Association.

The minimum admission requirements are 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 of Medical Technologists of the American Society of Clinical Pathologists 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 Women's Residence Director, 707 S.W. Campus Drive, Portland 97201.

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.*

* 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.

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 \$127.00 a term; nonresident students pay a fee of \$237.00 a term.

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

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 Winter and Spring quarters.

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.

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 medical technology. A student may be dropped upon the recommendation of the faculty.

A student ordinarily may be on probation status for one term before the faculty recommends his dismissal; however, the faculty, for adequate cause, may drop a student without previous warning.

Calendar

Fall Term, 1969

September 8, *Monday* through
September 13, *Saturday*.....Registration; Orientation
September 9, *Tuesday* Last day for payment of fees
September 15, *Monday* Instruction begins
November 27, *Thursday* Thanksgiving Day holiday
November 29, *Saturday* Fall term ends

*OTHER
INSTRUCTIONAL
PROGRAMS*

Winter Term, 1969-70

December 1, *Monday* Registration; Instruction begins
 December 2, *Tuesday* Last day for payment of fees
 December 21, *Sunday* through January 4, *Sunday* Christmas
 vacation; Laboratory instruction continues
 February 28, *Saturday* Winter term ends

Spring Term, 1970

March 9, *Monday* Registration; Instruction begins
 March 10, *Tuesday* Last day for payment of fees
 May 23, *Saturday* Spring term ends

Fall Term, 1971

September 7 through September 12 Registration; Orientation
 September 14, *Monday* Instruction begins

In addition to the classroom 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
MT 520. Radioisotope Techniques	1
	17

Winter Term

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

Spring Term

MT 414. Urinalysis	4
MT 420. Historical Technique	2
MT 432. Immunohematology	3
MT 436. Applied Serology	4
MT 437. Clinical Parasitology	3
MT 522. Radioisotope Laboratory	1
	17

- 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.
Administrative, professional, and legal aspects of Medical Technology practice ; the relationship of Medical Technology to Clinical Pathology and to total patient care.
- 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.** 2 hours spring.
Principles of tissue fixation, dehydration, and staining, with special emphasis upon the methods used in histopathological technique : Lecture, 1 hour a week ; laboratory, 3 hours a week : 44 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 432. **Immunohematology.** 3 hours spring.
The principles of immunohematology as applied to blood banking with special emphasis upon blood groups and types, and techniques demonstrating antigen-antibody reactions ; donor collection, processing and storage, and hazards of transfusions ; blood components ; medical-legal aspects. Lectures, 2 hours a week ; laboratory, 3 hours a week : 55 hours.
- MT 436. **Applied Serology.** 4 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, 6 hours a week : 88 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.
- MT 520, 521. **Radioisotope Techniques.** 1 hour each term, fall and winter.
Lectures and demonstrations concerning the theoretical and practical application of radioisotope techniques to medicine. 1 hour a week : 24 hours.
- MT 522. **Radioisotope Laboratory.** Any term, hours to be arranged.
Laboratory experience with instruments used in radioisotope work.

Elective Courses

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

*OTHER
INSTRUCTIONAL
PROGRAMS*

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., Senior Instructor in Medical Technology; Teaching Supervisor (1950).

B.A. (1944), Montana State University; M.T. (ASCP) (1946).

Margaret Berroth, M.D., Assistant Professor of Clinical Pathology (1966).

Abitur (1947), Greifswald Lyceum; M.D. (1954), Heidelberg.

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

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

Patricia A. Chadwick, B.S., Instructor in Medical Technology (1966).

B.S. (1950), Massachusetts; M.T. (ASCP) (1957); Spec. M. (ASCP) (1967).

Charles E. Gardner, Ph.D., Assistant Professor of Clinical Pathology (1964).

B.S. (1951), Regis; Ph.D. (1962), Colorado.

James E. Haines, M.D., Assistant Professor of Clinical Pathology (1966).

B.S. (1950), M.D. (1955), Stanford.

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

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

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

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

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

B.S. (1954), Oregon; M.T. (ASCP) (1952).

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

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

Rose M. Parker, R.T., Instructor in Medical Technology (1967).

R.T. (1959), A.R.T. (Hema.) (1964).

Marian S. Thomas, B.S., Instructor in Medical Technology (1969).

B.S. (1964), Southern Oregon; M.T. (ASCP) (1965).

James A. Wilkinson, B.S., Instructor in Medical Technology (1966).

B.S. (1962), Oregon; M.T. (ASCP) (1963).

Assistants to the Teaching Supervisor

Betty M. Carlson, B.S., Clinical Hematology Technique.

B.S. (1945), Hamline; M.T. (ASCP) (1945).

Dorothy B. Chambers, B.S., Specimen Collection Technique.

B.S. (1958), Marylhurst; M.T. (ASCP) (1949).

Claudia L. Darby, B.S., Clinical Chemistry Technique.

B.S. (1958), Oregon; M.T. (ASCP) (1959); Spec. C. (ASCP) (1966).

Howard W. Green, Clinical Bacteriological Technique.

Janice R. Kellogg, B.S., Clinical Immunohematology and Serology Technique.

B.S. (1964), Oregon; M.T. (ASCP) (1965).

Allan R. Kimmey, B.S., Clinical Chemistry Technique.

B.S. (1963), Oregon State; M.T. (ASCP) (1964).

Wallace H. Matsumura, B.A., Clinical Immunohematology and Serology Technique.

B.A. (1952), Hawaii; M.T. (ASCP) (1955).

Linda L. Lowery, B.S., Clinical Microbiology Technique.

B.S. (1962), Portland State; M.T. (ASCP) (1962).

Donna M. Primmer, B.S.,

B.S. (1965), Portland State; M.T. (ASCP) (1966).

Sandra Reed, B.A., Clinical Hematology Technique.

B.A. (1961), Maine; M.T. (ASCP) (1962).

Harry Seto, B.S., Clinical Radioisotope Technique.

B.S. (1955), Oregon; M.T. (ASCP) (1956); N.M. (ASCP) (1964).

Graduate Studies (See also Graduate Catalog)

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 available for selected medical students. Work leading to the Master of Science or Doctor of Philosophy degree is offered in anatomy, biochemistry, medical psychology, microbiology, pathology, pharmacology, and physiology. The master's degree is offered in medical technology also. A Ph.D. degree in speech pathology and audiology is offered jointly by the speech department of the University of Oregon and the Medical School's Crippled Children's Division. Students meet admission requirements and follow graduate school regulations of the University of Oregon. The University of Oregon School of Nursing also offers a graduate program. See page 83.

Complete details concerning study toward the degrees of Master of Science and Doctor of Philosophy are incorporated into a separate bulletin entitled *Graduate Studies Programs*. This bulletin is available from the Office of the Registrar and should be consulted by persons interested in graduate study.

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. This 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. Medical 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.

To provide training for those medical students who wish to prepare themselves more completely for careers as physician-scientists, a program leading to the combined M.D. and Ph.D. degrees has recently been approved and activated. This course of training may require a total time span of seven years of post-baccalaureate study. It affords opportunity for advanced coursework in the fundamental sciences of mathematics, physics and chemistry, and for advanced coursework in the basic medical sciences that cannot be incorporated into the M.D.-M.S. program.

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.

OTHER
INSTRUCTIONAL
PROGRAMS

School of Nursing

The University of Oregon School of Nursing, located on the campus of the University of Oregon Medical School, Portland, offers two programs: the Bachelor of Science degree and the Master of Science in Nursing Education.

The Bachelor of Science degree is designed for two types of students: the student with no previous preparation in nursing, and the registered nurse student who is a graduate of a hospital or community college school of nursing.

For the student nurse with no previous preparation in nursing, the program is four academic years and one summer term. It prepares the student to become a professional nurse who gives total patient care in hospitals, public health agencies, and in the community, who assumes leadership of other nursing personnel, and who possesses the foundations for advanced study in teaching, supervision, administration and consultation.

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. Students receive courses in theory and clinical experience in all basic areas of nursing—medical, surgical, obstetrics, pediatrics, psychiatric, and public health nursing. The program's educational resources on campus are: The University of Oregon Medical School Hospital including Doernbecher Memorial Hospital for Children, Multnomah Hospital, the Outpatient Clinic, the Crippled Children's Division with the university-affiliated Mental Retardation Center, and the University State Tuberculosis Hospital. The off-campus facilities that provide additional clinical experiences are: selected health departments and the Visiting Nurse Association; Oregon State Hospital, Salem; Portland State University; the Portland Continuation Center of the Division of Continuing Education; Physicians and Surgeons Hospital and the U. S. Veterans Administration Hospital.

Students are admitted to the School of Nursing on or about June 15th, the beginning of Summer term. They are required to take the National League for Nursing Prenursing and Guidance Examination prior to admission.

For the registered nurse student entering the baccalaureate program, assessment is made of her previous preparation in nursing. Contingent upon the student's previous educational preparation, sequence of course and program design are modified to assure that she meets the same goals of the baccalaureate program.

The student in this program may be allowed some credits in nursing for previous work. It may be in the form of transfer credits from an associate degree program. The hospital school graduate is allowed credit in nursing on the basis of results of comprehensive examinations on selected nursing courses administered at the University of Oregon School of Nursing. The comprehensive examination is required of all graduates of associate degree and hospital programs. The student who does not elect to challenge course content through equivalency examinations will take the same courses as the student without previous nursing preparation.

Courses in this program contribute to the broadening and strengthening of previous preparation and assist the student in developing increased professional competency. They do not lead to specialization but serve as a foundation for further professional education. The program provides a balance of general and professional education and includes at least 45 credits in the nursing major.

Students are admitted to the School of Nursing at the same time as students with no previous preparation for nursing. Students are required to take the National League for Nursing Graduate Nurse Examination prior to admission and file two official transcripts of their school of nursing record.

The Master of Science in Nursing Education is for collegiate nurses who have graduated from an accredited college or university and desire advanced professional preparation. A major in medical-surgical nursing is offered. The program is planned to prepare nurses for faculty positions. Students are required to take the Miller Analogies Test and the National League for Nursing Graduate Nurse Examination prior to admission.

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 Diagnostic 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, an 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 along with their lectures, during the two years of the course. Special emphasis on special procedure and emergency procedures is given in the second year. All instruction is under the direction of the chairman of the Department of Diagnostic Radiology of the University of Oregon Medical School.

Eighteen to 20 students are admitted annually on July 5. Applications should be submitted to the Director of the course in Radiologic Technology, Department of Diagnostic Radiology, University of Oregon Medical School Hospitals and Clinics.

The students are required to take the examination given nationally by the American Registry of Radiologic Technologists before completion of the two-year course.

Cytotechnology

A twelve-month course in cytotechnology leading to A.S.C.P. certification as a cytotechnologist, is offered by the Medical School's department of pathology to students with a minimum of two years (60 semester or 90 quarter hours) of credit from an accredited college or university. Twelve semester or 18 quarter hours in

OTHER INSTRUCTIONAL PROGRAMS

biology must be included. Six students are accepted into the program, which is conducted in the cytology laboratories of the University of Oregon Medical School on July 1 of each year. No tuition is charged. Each trainee receives uniforms, laundry and a stipend of \$200 per month during the twelve months of formal training. The program in cytotechnology is approved by the Council on Medical Education of the American Medical Association.

Hospital Dietetics

The program 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 \$150 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 programs of the University of Oregon Medical School Hospitals and Clinics are approved by the Council on Medical Education and Hospitals of the American Medical Association. Appointments are made through the National Internship Matching Program. All internship programs are twelve months in length and include a rotating internship with 36 positions, a straight internship in medicine with eight positions and a straight internship in pathology with one position. 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 and attending faculty member responsible for the service. Internship appointments are effective June 26.

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 170 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, cardiopulmonary surgery, dermatology, hematology, internal medicine, medical psychology, neurological surgery, neurology, obstetrics and gynecology, ophthalmology, orthopedics, otolaryngology, pathology (both clinical and anatomical), pediatrics, psychiatry, diagnostic radiology, radiation therapy, general surgery and urology.

gency programs : Emanuel Hospital, St. Vincent Hospital, Shriner's Hospital for Crippled Children, Good Samaritan Hospital, and Veterans Hospital.

Applications should be made to the chairman of the department concerned. Appointments are made six to eight months in advance of the beginning of the residency period, July 15.

Continuing Medical Education

Physicians are motivated to pursue the scholarly habit of life-long learning because of their desire to provide the best possible care for patients. There are five basic ways these goals are achieved :

- a. The daily acquisition of new knowledge by reading carefully selected textbooks and periodicals.
- b. Frequent consultation with peers.
- c. Active participation in community hospital medical staff programs such as medical record audits and clinical pathologic conferences.
- d. Attending educational programs sponsored by learned professional societies such as the American Academy of General Practice and the American College of Physicians.
- e. Attending short postgraduate courses produced by medical schools, voluntary health agencies and hospitals.

In order to help the physician achieve this last objective, the Medical School makes its teaching and clinical facilities available 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, discussion groups, and patient presentations.

An 18-stop circuit course program is presented three times a year in Oregon, Idaho and Montana. The courses deal with heart disease, cancer, stroke, and related diseases and are financed by the Oregon Regional Medical Program. In addition, psychiatry circuit courses are held in 18 Oregon communities.

Enrollment is open to any physician who is licensed to practice in his state of residence.

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MEDICAL SCHOOL FACULTY



Executive Faculty

Charles N. Holman, Dean of the Medical School; Joseph J. Adams, Clifford V. Allen, Michael D. Baird, Ralph C. Benson, John M. Brookhart, David D. DeWeese, Charles T. Dotter, Arthur W. Frisch, Jarvis Gould, M. Roberts Grover, Jr., Hance F. Haney, Frederick P. Haugen, Tyra T. Hutchens, Richard T. Jones, Robert D. Koler, William W. Krippaehne, Howard P. Lewis, Walter C. Lobitz, Jr., Joseph D. Matarazzo, Richard D. Moore, Richard W. Olmsted, Harold T. Osterud, Anthony A. Pearson, William K. Riker, George Saslow, Richard L. Sleeter, Kenneth C. Swan, William A. Zimmerman

STANDING COMMITTEES OF THE FACULTY

Admissions and Advanced Standing—Hance F. Haney (Chairman), Robert L. Bacon, Joseph D. Matarazzo, Robert J. Meechan, Clifford S. Melnyk, Agnar A. Straumfjord, Caroline H. Pommarane (ex officio)

Animal Care—Roy L. Swank (Chairman), William S. Fletcher, Anthony Gallo, Monte A. Greer, M. Ronald Parelius, Bernard Pirofsky, Alfred J. Rampone, Allan L. Rogers, Wilbert R. Todd, William A. Zimmerman

Clinical Grant Review and Investigational Drug—William K. Riker (Chairman), Robert H. Bigley, Robert Campbell, Arthur W. Frisch, Stanley W. Jacob, M. Ronald Parelius, Ira B. Pauly, Herbert A. Wendel

Curriculum and Schedule—William W. Krippaehne (Chairman), Joseph J. Adams, John A. Benson, Jr., Paul H. Blachly, John de Maria, Richard T. Jones, Richard D. Moore, Harold T. Osterud, Anthony A. Pearson, William Riker, Richard L. Sleeter, William E. Snell, M. Roberts Grover, Jr. (ex officio), Joseph D. Matarazzo (ad hoc); *Students*: Edwin C. Cadman, Francis Kenyon

Educational Methods—Tyra Hutchens (Chairman), Paul Blachly, Daniel Dennis, Georgann Chase, M. Roberts Grover, Jr., Richard Herren, Herold Lillywhite, Arthur Seaman

Honors and Awards—David D. DeWeese (Chairman), John M. Brookhart, G. Colin Buchan, Howard P. Lewis, George Saslow

Graduate Council—John M. Brookhart (Chairman), John D. Gabourel, David Gunberg, Terence Joys, Howard S. Mason, Joseph D. Matarazzo, Richard D. Moore, Joseph J. Adams (ex officio)

Instructional Aids Advisory—Kenneth A. Niehans (Chairman), Ralph C. Benson, John R. Campbell, Margaret Berroth, J. David Bristow, Richard Herren, Alan L. Morgenstern, Ralph E. Tuomi

Internship Advisory—John A. Benson, Jr. (Chairman), William S. Fletcher, Robert D. Koler, Michael Miller

Jones Lectureship—Herbert E. Griswold (Chairman), Tyra T. Hutchens, Anthony A. Pearson

Library—Norman A. David (Chairman), J. David Bristow, Morton Goodman, Noble Wiley Jones, George H. Lage, Walter C. Lobitz, Nelson R. Niles, Evelyn Schindler, Wilbert R. Todd, Archie R. Tunturi

Patent—William A. Zimmerman (Chairman), George I. Johnston, M. Ronald Parelius, Bernard Pirofsky, Benjamin B. Ross, Roy L. Swank, John T. Van Buren

Planning Council—Joseph J. Adams (Chairman), Jean E. Boyle, John M. Brookhart, A. J. Clemons, M. Roberts Grover, Jr., Tyra T. Hutchens, William W. Krippaehne, Donald C. Lowe, Harold T. Osterud, Richard L. Sleeter, William A. Zimmerman

Radiation Safety—Clifford V. Allen (Chairman), James Haines, Demetrios A. Rigas, Harry Shaich, John Van Bruggen, William Vermeere (ex officio)

Research—Robert D. Koler (Chairman), J. Peter Bentley, William S. Fletcher, James Metcalfe, Alfred J. Rampone, Roy L. Swank, Jack A. Vernon, M. Ronald Parelus (ex officio)

Research Instrument Service—Benjamin B. Ross (Chairman), Daniel L. Dennis, John D. Gabourel, David Gowing, Demetrios A. Rigas

Scholarships—William A. Zimmerman (Chairman), Clarence V. Hodges, Caroline H. Pommarane, William A. Stotler, Wilbert R. Todd

Student Faculty—Faculty Members: Frederick P. Haugen (Chairman), Robert L. Bacon, Rodney Beals, Howard P. Lewis, Robert J. Meechan, Ernest A. Meyer, Kenneth A. Niehans, Harold D. Paxton, Clare G. Peterson
Student members are elected for one- or two-year terms.

Dean's Advisory Committee for the Veterans Hospital—Charles N. Holman (Chairman), Jarvis Gould (Vice-chairman and Secretary), Clifford V. Allen, David D. DeWeese, Charles T. Dotter, Tyra T. Hutchens, Robert D. Koler, William W. Krippaehne, Howard P. Lewis, Richard D. Moore, Louis G. Terkla, George Saslow, Kenneth C. Swan

Emeritus Faculty

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

M.D. (1926), Oregon; LL.D. (1946), University of Portland.

Roderick E. Begg, M.D., Associate Professor Emeritus of Orthopedics.

B.S. (1924), Oregon State; M.D. (1937), Oregon.

Harry C. Blair, M.D., Professor Emeritus of Orthopedics.

M.D. (1915), Oregon.

Isidor C. Brill, M.D., Professor Emeritus of Medicine.

B.A. (1912); M.D. (1914), Columbia.

C. Elmer Carlson, M.D., Professor Emeritus of Orthopedics.

A.B. (1917), Reed; M.D. (1920), Oregon.

Harry H. Dixon, Sr., M.D., Professor Emeritus of Psychiatry.

M.D. (1928), Washington University.

Bertha B. Hallam, B.A., Professor Emerita, Library.

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.

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.

**MEDICAL
SCHOOL
FACULTY**

- 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.
- Edwin E. Osgood, M.D.**, Professor Emeritus of Medicine.
B.A. (1923), M.A., M.D. (1924), Oregon.
- 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.
- E. Merle Taylor, M.D.**, Professor Emeritus of Ophthalmology.
M.D. (1925), Iowa.
- Edward S. West, Ph.D.**, Professor Emeritus of Biochemistry.
A.B. (1917), Randolph-Macon; M.S. (1920), Kansas State; Ph.D. (1923), University of Chicago.

*Faculty**

- †**John F. Abele, M.D.**, Assistant Clinical Professor of Orthopedics (1946).
B.A. (1930), M.D. (1934), Oregon.
- †**Stanley Abrams, Ph.D.**, Lecturer in Medical Psychology (1969).
B.A. (1956), Wilkes; M.A. (1957), Ph.D. (1961), Temple.
- †**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; Professor (1951).
B.B.A. (1949), Gonzaga.
- †**H. Victor Adix, M.D.**, Senior Clinical Instructor in Otolaryngology (1934).
B.A. (1928), M.D. (1930), Oregon; M. Med. Sc. (1933), Pennsylvania.
- John P. Aitchison, Ph.D.**, Assistant Professor of Clinical Pathology (1969).
B.A. (1957), British Columbia; Ph.D. (1969), California.
- †**Bennett Alberts, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1969).
(1969).
M.D. (1960), Nebraska.
- †**Phillip S. Alberts, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1964).
B.A. (1953), M.D. (1958), Nebraska.
- †**Bruce K. Alexander, Ph.D.**, Assistant Professor of Medical Psychology (Primate Center) (1967).
A.B. (1961), Miami; M.S., Ph.D. (1966), Wisconsin.
- Clifford V. Allen, M.D.**, Professor of Clinical Pathology (Radioisotopes) and Radiation Therapy; Chairman, Department of Radiation Therapy (1955).
M.D. (1933), Iowa.
- Daphne Allen, M.Libr.**, Serials Librarian; Assistant Professor (1965).
B.A. (1964), Portland State; M.Libr. (1965), University of Washington.

† Volunteer.

‡ Part-time.

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

- †**Alan W. Ames**, M.D., Clinical Instructor in Medicine (1968).
B.A. (1956), Stanford; M.D. (1960), Yale.
- †**Richard P. Andrews**, M.D., Senior Clinical Instructor in Surgery (1963).
B.S. (1949), Denison; M.D., (1953), Harvard.
- †**Laurence M. Ashley**, Ph.D., Lecturer in Pathology (1966).
B.S. (1930), Michigan State; M.A. (1932), Michigan; Ph.D. (1945), Southern California.
- †**Carl G. Ashley**, M.D., Assistant Clinical Professor of Pediatrics (1936).
B.A. (1927), M.D. (1931), Oregon.
- †**Kurt W. Aumann**, M.D., Associate Clinical Professor of Medicine (1948).
B.S. (1936), Washington State; M.A. (1940), M.D. (1942), Oregon.
- William C. Awe**, M.D., Assistant Professor of Surgery (1966).
B.S. (1955), M.D. (1958), Baylor.
- S. Gorham Babson**, M.D., Professor of Pediatrics (1941).
B.S. (1933), M.D. (1936), Oregon.
- †**Benny Lee Bachulis**, M.D., Clinical Instructor in Surgery (1968).
B.S. (1956), M.D. (1960), Ohio.
- Robert L. Bacon**, Ph.D., Professor of Anatomy (1955).
B.S. (1940), Hamilton; Ph.D. (1944), Yale.
- Delbert D. Bailey**, B.S., Instructor, Research Instrument Service (1968).
B.S. (1966), Portland State.
- †**Paul Bailey**, M.D., Clinical Professor of Otolaryngology (1929).
M.D. (1925), Oregon.
- †**Paul F. Bailey**, M.D., Assistant Clinical Professor of Ophthalmology (1958).
B.S. (1951), Oregon State; M.D. (1953), Oregon.
- ***Richard E. Bailey**, M.D., Associate Professor of Medicine (1961).
B.A. (1951), M.D. (1955), Stanford.
- Michael D. Baird**, M.D., Medical Director and Administrator of Hospitals and Clinics; Professor of Medicine (1961).
B.S. (1954), Reed; M.S., M.D., (1957), Oregon.
- †**Harvey W. Baker**, M.D., Associate Clinical Professor of Surgery (1953).
B.A. (1939), Cornell; M.D. (1943), Columbia.
- †**Russel L. Baker**, M.D., Senior Instructor in Neurology (Good Samaritan Hospital) (1968).
A.B. (1930), M.D. (1934), Oregon.
- †**Cameron C. Bangs**, M.D., Clinical Instructor in Medicine (1968).
B.S. (1960), Massachusetts; M.D. (1964), Vermont.
- Mary Elizabeth Baptist**, B.A., Senior Instructor in Clinical Pathology (Medical Technology) (1950).
B.A. (1944), Montana State University.
- †**George S. Barton**, M.D., Instructor in Neurology (Good Samaritan Hospital) (1968).
B.A. (1955), Reed; M.D. (1956), Oregon.
- †**Michael S. Baskin**, M.D., Clinical Instructor in Orthopedics (1967).
M.D. (1961), University of Washington.
- †**John W. Bassett**, M.D., Assistant Clinical Professor of Surgery (1954).
B.S. (1943), Arkansas; M.D. (1944), Tulane.

† Volunteer. ‡ Part-time.
* Leave of absence September 1, 1969 to August 31, 1970.

**MEDICAL
SCHOOL
FACULTY**

- †**Jack E. Battalia**, M.D., Clinical Instructor in Surgery (1954).
B.A. (1945), Reed; M.D. (1946), Oregon.
- †**Peter J. Batten**, M.D., Assistant Clinical Professor of 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., Associate Clinical Professor of Medicine (1954).
A.B. (1940), Whitman; M.D. (1950), Louisville.
- Rodney K. Beals**, M.D., Associate Professor of Orthopedics (1961).
B.A. (1953), Willamette; M.D. (1956), Oregon.
- †**G. Donald Beardsley**, M.D., Assistant Clinical Professor of 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., Assistant Clinical Professor of Medicine (1960).
B.S. (1949), M.D. (1952), Northwestern.
- †**Harry G. Beckwith, Jr.**, M.D., Assistant Clinical Professor of Surgery (1953).
B.A. (1938), Reed; M.D. (1942), Oregon.
- †**Robert H. Bedrossian**, M.D., Senior Clinical Instructor in Ophthalmology (1959).
A.B. (1946), Haverford; M.D. (1947), Temple; M.Sc. (1953), Pennsylvania.
- †**Charles S. Belknap**, M.D., Clinical Instructor in Medicine (1969).
B.A. (1952), Yale; M.D. (1962), Oregon.
- †**Curtis C. Bell**, Ph.D., Senior Instructor in Neurology (Good Samaritan Hospital) (1969).
B.A. (1959), Stanford; Ph.D. (1964), U.C.L.A.
- †**James B. Bell**, M.D., Clinical Instructor in Neurology (1967).
B.A. (1959), Allegheny; M.D. (1963), Cornell.
- †**Mary Bell**, A.B., Assistant Professor of Experimental Biology (Primate Center) (1964).
A.B. (1958), Brown.
- †**Thomas T. Bennett**, M.D., Associate 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.
- †**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., Associate Professor of Biochemistry and Associate Professor of Experimental Biology (1964).
B.Sc. (1952), Royal College of Technology (England); M.S. (1961), Ph.D. (1963), Oregon.
- †**Arthur W. Berg**, M.D., Associate Clinical Professor of Medicine (1953).
B.A. (1943), M.D. (1945), Oregon.

- †**Richard F. Berg**, M.D., Assistant Clinical Professor of Orthopedics (1935).
A.B. (1923), M.D. (1926), Oregon.
- †**Arthur M. Bergman**, M.D., Senior Clinical Instructor in Medicine (1948).
B.A. (1940), M.D. (1943), New York University.
- †**Stanley F. Bergquist** M.D., Clinical Instructor in Cardiopulmonary Surgery (1956).
B.S. (Med.) (1945), M.D. (1947), Illinois.
- Margaret E. Berroth**, M.D., Assistant Professor of Clinical Pathology (1966).
Abitur (1947), Griefswald Lyccum; M.D. (1954), Heidelberg.
- †**John R. Berry**, M.D., Clinical Instructor in Pediatrics (1963).
B.A. (1954), M.D. (1957), Stanford.
- †**Siegfried R. Berthelsdorf**, M.D., Associate Clinical Professor of Psychiatry (1957).
B.A. (1934), M.A., M.D. (1939), Oregon.
- †**Fred W. Bieker**, M.D., Clinical Instructor in Surgery (1966).
B.S. (1956), M.D. (1958), Illinois.
- †**John C. Bigelow**, M.D., Assistant Clinical Professor of Cardiopulmonary Surgery (1966).
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., Professor of Diagnostic Radiology (1961).
B.S. (1952), Minnesota; M.D. (1957), Columbia.
- †**Daniel K. Billmeyer**, M.D., Clinical Professor of Pediatrics (1956).
B.S. (1943), M.D. (1946), Chicago.
- †**John David Bischel**, M.D., Clinical Instructor in Psychiatry (1969).
B.S. (1960), M.D. (1962), Oregon.
- †**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., Professor of Psychiatry (1961).
B.A. (1950), Reed; M.S., M.D. (1955), Oregon.
- John A. Black**, Ph.D., Assistant Professor of Biochemistry and Medical Genetics (1968).
B.S. (1961), Ph.D. (1964), University of Glasgow.
- †**Harold Raymond Blair**, M.B., Assistant Clinical Professor of Pediatrics (1966).
M.B. (1958), Queen's University of Belfast (Ireland).
- Robert W. Blakeley**, Ph.D., Associate Professor of Speech Pathology, Pediatrics (1959).
B.A. (1951), California; M.S. (1952), Oregon; Ph.D. (1958), Michigan.
- †**John A. Blanchard**, M.D., Senior Clinical Instructor in Medicine (1954).
B.S. (1941), Montana State; 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., Assistant Clinical Professor of Medicine (1954).
B.S. (1953), Davidson; M.D. (1957), Baylor.

*MEDICAL
SCHOOL
FACULTY*

- †**Jack B. Blumberg**, M.D., Senior Clinical Instructor in Surgery (1964).
A.B. (1952), M.D. (1956), Stanford.
- ‡**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., Assistant Clinical Professor of Pediatrics (1962).
B.S. (1953), M.D. (1955), Oregon.
- †**Charles R. Boge**, M.D., Clinical Instructor in Orthopedics (1967).
B.S. (1952), Oregon State; M.D. (1956), Oregon.
- †**Orville W. Boicourt**, M.D., Senior Clinical Instructor in Medicine (1965).
B.A. (1952), M.D. (1959), Kansas.
- †**Darrell C. Bollam**, M.D., Senior Clinical Instructor in Surgery (1937).
B.S. (1927), M.D. (1928), Oregon.
- †**Richard N. Bolton**, M.D., Assistant Clinical Professor of 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.
- ‡**Douglas R. Bottomly**, M.D., Clinical Instructor in Psychiatry (1968).
B.S. (1953), Carroll; M.D. (1957), St. Louis.
- †**Jeanne Boucher-Leif**, M.D., Clinical Instructor in Neurology (1968).
B.S. (1948), Puget Sound; M.D. (1953), Women's Medical College of Pennsylvania.
- †**Christ Bouneff**, D.M.D., Assistant Clinical Professor of Dentistry (1968).
B.S. (1958), Portland State; B.S. (1962), D.M.D. (1964), Oregon; M.S. (1968), Georgetown.
- Harold Boverman**, M.D., Associate Professor of Psychiatry (Child Psychiatry) and Pediatrics (1968).
A.B. (1959), California; M.D. (1956), Chicago.
- †**Donald B. Bowman**, M.D., Clinical Instructor in Medicine (1964).
B.S. (1952), M.D. (1957), Oregon.
- Robert D. Boyd**, Ph.D., Professor, Crippled Children's Division; Professor of Medical Psychology (1964).
B.A. (1929), Linfield; M.A. (1941), Southern California; M.A. (1947), Ph.D. (1953), Michigan.
- †**Stanley A. Boyd**, M.D., Clinical Instructor in Psychiatry (1967).
A.B. (1945), Willamette; M.D. (1949), Oregon.
- †**Allen M. Boyden**, M.D., Clinical Professor of Surgery (1946).
B.A. (1929), Oregon; M.D. (1932), M.S. (1937), Michigan.
- †**Thomas J. Boyden**, M.D., Senior Clinical Instructor in Orthopedics (1953).
B.A. (1944), M.D. (1946), Oregon.
- †**Donald A. Boye**, M.D., Clinical Instructor in Psychiatry (1967).
B.S. (1957), Capital; M.D. (1960), Cincinnati.
- †**George A. Boylston**, M.D., Associate 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.

- William J. Brady, M.D.**, Clinical Instructor in Clinical Pathology and Pathology (1965).
B.S. (1953), Santa Clara; M.D. (1958), Oregon.
- James L. Bramhall, M.B.**, Associate Professor of Clinical Pathology (1962).
M.B., Ch.B. (1951), Victoria University of Manchester Medical School (England).
- Gatlin Brandon, M.P.H.**, Senior Clinical Instructor in Public Health and Preventive Medicine (1967).
B.S. (1938), Washington State; M.S. (1940), Oregon; M.P.H. (1949), Michigan.
- John O. Branford, M.D.**, Clinical Instructor in Anesthesiology (1959).
B.A. (1936), Concordia; M.D. (1946), Oregon.
- Esmond Braun, M.D.**, Clinical Instructor in Surgery (1969).
B.S. (1952), M.D. (1955), Wayne State.
- James D. Bray, M.D.**, Clinical Instructor in Psychiatry (1966).
B.A. (1954), Washburn; M.D. (1961), Kansas.
- Melvin W. Breese, M.D.**, Associate Clinical Professor of Obstetrics and Gynecology (1948).
B.S. (1936), Oregon State; M.D. (1943), Oregon.
- Robert M. Brenner, Ph.D.**, Associate Professor of Experimental Biology (Primate Center) (1964).
A.B. (1950), A.M. (1951), Ph.D. (1955), Boston.
- Wynn C. Brice, Administrative Director, Central Services, Outpatient Clinic; Associate Professor (1946).**
- Larry T. Brice, M.D.**, Clinical Instructor in Medicine (1969).
B.A. (1959), M.D. (1964), Oregon.
- Donald M. Brinton, M.D.**, Clinical Instructor in Anesthesiology (1959).
B.A. (1945), M.D. (1947), Oregon.
- John David Bristow, M.D.**, Associate Professor of Medicine (1960).
B.A. (1949), Willamette; M.D. (1953), Oregon.
- Michael T. H. Brodeur, M.D.**, Senior Clinical Instructor in Medicine (1965).
B.A. (1952), M.D.C.M. (1956), McGill.
- Rosemary E. Brodie, M.D.**, Clinical Instructor in Neurology (1968).
B.A. (1948), Reed; M.D. (1952), Northwestern.
- 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, Ph.D.**, Assistant Professor of Pathology (1961).
B.S. (1948), California; Ph.D. (1967), Oregon.
- 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.
- Ian A. Brown, M.D., Ph.D.**, Senior Clinical Instructor in Surgery (1967).
B.A. (1941), Dartmouth; M.D. (1944), McGill; Ph.D. (1953), Minnesota.
- Paul M. Brown, M.D.**, Senior Clinical Instructor in Surgery (1961).
B.S. (1945), Oregon; M.D. (1949), Harvard; M.S. (1960), Minnesota.
- Robert J. Bruckner, D.D.S.**, Clinical Professor of Dentistry (1960).
D.D.S. (1944), Maryland; M.S. (1948), Western Reserve.

**MEDICAL
SCHOOL
FACULTY**

- 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., Professor of Medical Psychology (1965).
B.A. (1951), Princeton; M.A. (1953), Ph.D. (1956), Harvard.
- George Colin Buchan**, M.D., Professor of Pathology; Head of Division of Neuropathology (1965).
M.D. (1958), McGill.
- ‡**Melissa L. Buchan**, M.D., Clinical Instructor in Medicine (1966).
A.B. (1957), Radcliffe; M.D. (1961), Pennsylvania.
- ‡**McKenzie W. Buck**, Ph.D., Assistant Professor of Otolaryngology, Speech Pathology (Portland Center for Hearing and Speech) (1966).
B.A., (1946), Denver; M.A. (1948), Ph.D. (1951), Iowa.
- Neil R. M. Buist**, M.B., Ch.B., Assistant Professor of Pediatrics and Medical Genetics and Experimental Medicine (1966).
M.B., Ch.B. (1956), University of St. Andrews (Scotland).
- †**Denis R. Burger**, Ph.D., Assistant Professor of Microbiology (Veterans Hospital) (1969).
B.A. (1965), California (Berkeley); M.S. (1968), Ph.D. (1969), Arizona.
- †**Paul R. Burgner**, M.D., Clinical Professor of Medicine (1956).
B.S. (1948), M.D. (1952), Oregon.
- Robert P. Burns**, M.D., Associate Professor of Ophthalmology (1959).
B.S. (1945), Portland; M.D. (1947), Oregon.
- †**William Y. Burton**, M.D., Clinical Professor of Diagnostic Radiology (1940).
A.B. (1931), B.S. (1933), Missouri; M.D. (1936), Washington University.
- †**John W. Bussman**, M.D., Associate 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.
- John R. Campbell**, M.D., Assistant Professor of Surgery and Pediatrics (1967).
B.A. (1954), M.D. (1958), Kansas.
- †**Mary C. Campbell**, B.A., Clinical Instructor in Medical Technology (1968).
B.A. (1944), Vassar.
- †**Nathan J. Campbell**, M.D., Senior Clinical Instructor in Surgery (1950).
M.D. (1949), Temple.
- †**Paul Campbell**, M.D., Senior Clinical Instructor in Orthopedics (1956).
B.A. (1945), M.D. (1949), Stanford; M.S. (1955), Michigan.
- Robert A. Campbell**, M.D., Associate Professor of Pediatrics (1961).
B.A. (1954), M.D. (1958), California.
- ‡**W. Leigh Campbell**, M.D., Senior Clinical Instructor in Ophthalmology (1962).
B.S. (1952), M.D. (1955), Oregon.
- Leroy O. Carlson**, M.D., Associate Professor of Pediatrics; Associate Professor Crippled Children's Division (1961).
B.S. (1940), University of Washington; M.D. (1942), Michigan.
- †**Gordon A. Caron**, M.B., Assistant Clinical Professor of Dermatology (1967).
B.A. (1953), M.A. (1956), Cambridge; M.B. (1956), University College Hospital School (London).

- Wilma L. Carson, M.D.**, Assistant Professor of Pediatrics; Assistant Professor, Crippled Children's Division (1963).
B.S. (1955), Chestnut Hill; M.D. (1959), Women's Medical College of Pennsylvania.
- ***C. Conrad Carter, M.D.**, Associate Professor of Neurology (1956).
B.A. (1946), Reed; M.D. (1948), Oregon.
- †**Raymond A. Case, Jr., M.D.**, Assistant Clinical Professor of Orthopedics (1959).
M.D. (1947), Hahnemann.
- †**Charles E. Catlow, Jr., M.D.**, Clinical Instructor in Urology (1949).
B.S. (1943), Portland; M.D. (1944), Oregon.
- †**Richard E. Cavalli, M.D.**, Clinical Instructor in Pediatrics (1968).
B.S. (1957), Portland; M.D. (1961), Oregon.
- Patricia A. Chadwick, B.S.**, Instructor in Clinical Pathology (Medical Technology) (1966).
B.S. (1950), Massachusetts.
- †**George E. Chamberlain, M.D.**, Clinical Professor of Otolaryngology (1947).
B.A. (1936), M.D. (1938), Oregon.
- †**Charles K. Chapman, M.D.**, Clinical Instructor in Pediatrics (1966).
B.S. (1952), Oregon College of Education; M.D. (1964), Oregon.
- †**Allan K. Chappell, M.D.**, Assistant Clinical Professor of Pediatrics (1964).
B.S. (1948), M.D. (1951), Oregon.
- †**Bruce R. Chenoweth, M.D.**, Assistant Clinical Professor of Dermatology (1956).
B.S. (1947), M.D. (1949), Oregon.
- †**Howard L. Cherry, M.D.**, Clinical Instructor in Orthopedics (1950).
M.D. (1943), Oregon.
- †**Clarence L. Chester, M.D.**, Assistant Clinical Professor of Pathology (1962).
B.S. (1937), M.D. (1940), Vermont.
- †**Jack L. Chitty, M.D.**, Clinical Instructor in Medicine (1966).
B.S. (1955), Bradley; M.D. (1959), Illinois.
- †**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.**, Clinical Professor of Orthopedics (1938).
B.A. (1926), Puget Sound; M.D. (1934), Oregon.
- †**McGregor L. Church, M.D.**, Clinical Instructor in Orthopedics (1966).
A.B. (1951), Stanford; M.D. (1956), Oregon.
- †**C. Louise Clancy, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1944).
B.A. (1929), Albion; M.D. (1934), Chicago.
- †**Calvin C. Clark, M.D.**, Clinical Instructor in Pediatrics (1968).
B.A. (1959), University of Washington; M.D. (1963), Tufts.
- William M. Clark, Jr., M.D.**, Professor of Pediatrics (1954).
B.A. (1946), Baker; M.D. (1949), Chicago.
- †**Winfred H. Clarke, M.D.**, Clinical Instructor in Orthopedics (1957).
B.S., M.B., M.D. (1941), Minnesota.

† Volunteer.

‡ Part-time.

* Leave of absence September 1, 1969 to August 31, 1970.

*MEDICAL
SCHOOL
FACULTY*

- ‡**Quentin D. Clarkson**, Ph.D., Associate Professor of Neurology (1968).
B.S. (1949), M.S. (1950), Oregon; Ph.D. (1955), Oregon State.
- †**Donald L. Cleland**, M.D., Senior Clinical Instructor in Surgery (1966).
B.A. (1954), Stanford; M.S., M.D. (1958), Oregon.
- †**John E. Cleland**, M.D., Clinical Instructor in Obstetrics and Gynecology (1966).
B.A. (1952), M.D. (1957), Oregon.
- †**John G. P. Cleland**, M.D., Senior Clinical Instructor in Surgery (1948).
M.D., C.M. (1924), M.S. (1926), McGill.
- A. J. Clemons**, Director of Facilities Planning; Professor (1950).
- †**Keith M. Clisby**, M.D., Clinical Instructor in Surgery (1947).
B.S. (1929), Oregon State; M.D. (1934), Oregon.
- †**Quinten W. Cochran**, M.D., Assistant Clinical Professor of Pediatrics (1960).
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., Senior Clinical Instructor in Orthopedics (1950).
B.S. (1930), M.D. (1934), Maryland.
- †**William Cohen**, M.D., Senior Clinical Instructor in Medicine (1946).
B.A. (1931), Reed; M.D. (1935), Oregon.
- Ralph O. Coleman, Jr.**, Ph.D., Associate Professor of Speech Pathology (1966).
B.S. (1954), Oregon State; M.S. (1960), Oregon; Ph.D. (1963), Northwestern.
- †**Emerson J. Collier**, M.D., Assistant Clinical Professor of Urology (1956).
B.S. (1941), Alaska; M.D. (1944), Oregon.
- ‡**Richard E. Collins**, M.S.W., Assistant Professor of Psychiatry (Psychiatric Social Work) (1969).
B.S. (1960), Oregon; M.S.W. (1962), University of Washington.
- †**Hugh Donald Colver**, M.D., Senior 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.
- Reid S. Connell, Jr.**, Ph.D., Assistant Professor of Anatomy and Neurology (1966).
B.S. (1959), M.S. (1962), Oregon State; Ph.D. (1967), Oregon.
- Peggy J. Copple**, M.D., Assistant Professor of Pediatrics and Neurology; Assistant Professor, Crippled Children's Division (1966).
B.S. (1956), M.D. (1959), Oregon.
- †**Ramond S. Corwin**, M.D., Clinical Instructor in Obstetrics and Gynecology (1968).
B.S. (1957), M.S. (1960), Michigan State; M.D. (1963), Bowman Gray.
- †**George W. Cottrell**, M.D., Senior Clinical Instructor in Orthopedics (1949).
B.A. (1937), Oregon State; M.D. (1939), Oregon.
- †**Robert C. Cowger**, M.D., Senior Clinical Instructor in Ophthalmology (1959).
M.D. (1944), Nebraska.
- †**Eric W. S. Craig**, M.D., Clinical Instructor in Medicine (1969).
B.S. (1957), Oregon State; M.D. (1964), Oregon.

† Volunteer.
‡ Part-time.

- †**William E. Creighton**, D.D.S., M.P.H., Clinical Instructor in Public Health and Preventive Medicine (1967).
D.D.S. (1957), Creighton; M.P.H. (1960), North Carolina.
- †**Rodney L. Crislip**, M.D., Senior Clinical Instructor in Medicine (1963).
B.A. (1953), Lehigh; M.D. (1957), Western Reserve.
- †**Leland L. Cross**, M.D., Assistant Clinical Professor of Neurology (Rehabilitation) (1967).
B.S. (1948), Illinois; M.D. (1952), Northwestern; M.P.H. (1965), U.C.L.A.
- †**Frank W. Crowe**, M.D., Associate Clinical Professor of Dermatology (1957).
B.S. (1941), Idaho; M.D. (1949), Utah.
- Lillian T. Cunningham**, M.P.H., Instructor, Crippled Children's Division (1968).
B.S. (1964), Tuskegee; M.P.H. (1966), California.
- †**Ralph Garr Cutler**, M.D., Clinical Instructor in Surgery (1968).
B.S. (1953), M.D. (1960), Utah.
- †**Joyle Dahl**, M.D., Associate Clinical Professor of Dermatology (1932).
B.A. (1926), M.D. (1930), Oregon.
- †**James E. Dahlman**, M.D., Clinical Instructor in Obstetrics and Gynecology (1968).
B.A. (1957), Albion; M.D. (1961), Michigan.
- †**Marvin L. Darsie, Jr.**, M.D., Ph.D., Assistant Professor of Anesthesiology (Veterans Hospital) (1968).
B.A. (1934), U.C.L.A.; Ph.D. (1939), Stanford; M.D. (1947), Southern California.
- †**Robert I. Daugherty**, M.D., Assistant Clinical Professor of 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 (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 (1958).
A.B. (1935), M.D. (1939), California.
- †**Harold E. Davis**, M.D., Assistant Clinical Professor of Orthopedics (1946).
B.A. (1936), M.D. (1940), Oregon.
- Howard W. Davis**, Ph.D., Assistant Professor of Anatomy (1966).
B.S. (1956), M.S. (1959), Oregon.
- †**Joe B. Davis**, M.D., Associate Clinical Professor of Orthopedics (1941).
B.A. (1930), Willamette; M.D. (1934), Oregon.
- Peter J. Dawson**, M.D., Professor of Pathology (1964).
B.A. (1949), M.B., B.Chir. (1952), M.A. (1953), Cambridge; D.C.P. (1955), London; M.D. (1960), Cambridge.
- †**Jerome H. Dayton**, M.D., Clinical Instructor in Pediatrics (1966).
B.A. (1954), St. Olaf; M.D. (1958), Minnesota.
- †**Enrique M. deCastro**, M.D., Clinical Instructor in Obstetrics and Gynecology (1961).
B.S. (1951), Loyola; M.D. (1957), Universidad Nacional Autonoma de Mexico.

† Volunteer.
‡ Part-time.

*MEDICAL
SCHOOL
FACULTY*

- †**John M. Deeney**, M.D., Assistant Clinical Professor of Psychiatry (1969).
A.B. (1956), Stanford; M.D. (1960), Oregon.
- †**Conrad A. DeLateur**, M.D., Clinical Instructor in Dermatology (1961).
B.S. (1936), Oregon State; M.D. (1940), Oregon.
- F. John de Maria**, M.D., Associate Professor of Obstetrics and Gynecology (1966).
M.D. (1952), Malta.
- †**Lionel H. deMontigny**, M.D., Clinical Instructor in Public Health and Preventive Medicine (1968).
B.S. (1959), North Dakota; M.D. (1961), Wisconsin; M.P.H. (1965), Oklahoma.
- ||**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., Assistant Professor of 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.
- †**Howard R. Dewey**, Ph.D., Senior Instructor in Neurology (Good Samaritan Hospital) (1968).
B.A. (1949), Lewis and Clark; M.S.W. (1954), University of Washington; Ph.D. (1959), Denver.
- †**Peter DeWitt**, M.D., Clinical Instructor in Surgery (1955).
B.A. (1939), Union; M.D. (1943), Cornell.
- †**Arch W. Diack**, M.D., Senior Clinical Instructor in Surgery (1937).
A.B. (1929), Dartmouth; M.D. (1933), Michigan.
- †**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.
M.D. (1953), Harvard.
- †**Harry B. Ditmore**, M.D., Clinical Instructor in Surgery (1964).
M.D. (1953), Harvard.
- Jeri L. Dobbs**, B.S., Instructor in Cardiopulmonary Surgery (1968).
B.S. (1964), Pacific.
- †**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), Chicago.
- Wilson C. Dockery**, B.S., Student Activities Director; Assistant Professor (1960).
B.S. (1937), Oregon State.
- †**John H. Donnelly**, M.D., Assistant Clinical Professor of Public Health and Preventive Medicine (1966).
S.B. (1942), M.D. (1946), Chicago; M.P.H. (1958), California.
- Charles T. Dotter**, M.D., Professor of Diagnostic Radiology; Chairman of Department (1952).
B.A. (1941), Duke; M.D. (1944), Cornell.

† Volunteer.

‡ Part-time.

|| Leave of absence.

** Leave of absence July 1, 1969 to June 30, 1970.

- †**Gordon L. Doty, M.D.**, Clinical Instructor in Medicine (1967).
B.S. (1952), Michigan State; M.D. (1956), Wayne State.
- †**Robert Preston Doughton, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1968).
B.A. (1957), M.D. (1959), Oregon.
- †**Darrel D. Douglas, B.S.**, Senior Clinical Instructor in Environmental Medicine (1965).
B.S. (1954), University of Washington.
- †**Robert S. Dow, M.D., Ph.D., D.So.**, Clinical Professor of Neurology (1939).
B.S. (1929), Linfield; M.A. (1934), M.D. (1934), Ph.D. (1935), Oregon; D.Sc. (1963), Linfield.
- Patrick J. Doyle, M.D.**, Associate Professor of Otolaryngology (1964).
B.Sc. (1947), M.D. (1949), Alberta.
- †**Richard F. Drake, M.D.**, Clinical Instructor in Medicine (1965).
B.A. (1955), Willamette; M.D. (1959), Oregon.
- †**William E. Drips, Jr., M.D.**, Clinical Instructor in Medicine (1964).
B.S. (1956), M.D. (1958), Oregon.
- Hilda E. Drum**, Associate Professor of Radiologic Technology (1954).
- ***Raphael B. Durfee, M.D.**, Professor of Obstetrics and Gynecology (1957).
B.A. (1939), M.D. (1944), Stanford.
- †**Harold P. Dygert, Jr., M.D.**, Clinical Instructor in Medicine (1956).
B.A. (1941), Rochester; M.D. (1950), Syracuse.
- †**Arthur L. Eckhardt, M.D.**, Clinical Instructor in Orthopedics (1966).
B.A. (1951), Stanford; M.D. (1957), Oregon.
- †**Zanley C. Edelson, M.D.**, Clinical Instructor in Surgery (1948).
B.A. (1935), Oregon State; M.D. (1938), Oregon.
- †**Donald Edwards, M.D.**, Clinical Instructor in Medicine (1967).
B.S. (1955), Oregon State; M.D. (1959), Oregon.
- Miles J. Edwards, M.D.**, Associate Professor of Medicine; Acting Head of Division of Chest Diseases (1964).
B.A. (1951), Willamette; M.S., M.D. (1956), Oregon.
- †**Thomas A. Edwards, M.D.**, Clinical Instructor in Orthopedics (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.
- Jerry O. Elder, M.A.**, Assistant Professor and Business Manager, Crippled Children's Division (1969).
B.A. (1961), Michigan State; M.A. (1965), Iowa.
- †**Morton G. Eleff, M.D.**, Associate Clinical Professor of 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 Orthopedics (1962).
B.A. (1942), M.D. (1943), Wisconsin.
- †**Joseph L. Emmerich, M.D.**, Assistant Clinical Professor of Pediatrics (1966).
B.S. (1957), M.D. (1959), Illinois.
- †**Walter R. Enders, M.D.**, Senior Clinical Instructor in Ophthalmology (1960).
B.A. (1945), M.D. (1947), Oregon.

† Volunteer.

* Leave of absence September 1, 1969 to May 1, 1970.

*MEDICAL
SCHOOL
FACULTY*

- Rudolph C. H. Engel**, M.D., Professor of Pediatrics (1952).
M.D. (1929), University of Bonn (Germany); M.S., M.D. (1949), Minnesota.
- †**John M. Epley**, M.D., Clinical Instructor in Otolaryngology (1965).
M.S. (1953), M.D. (1957), Oregon.
- †**Wayne G. Ericksen**, M.D., Associate Clinical Professor of Diagnostic Radiology (1950).
B.A. (1944), Stanford; M.D. (1946), Oregon.
- †**Eldon L. Erickson**, M.D., Clinical Instructor in Medicine (1966).
B.A. (1957), Willamette; M.D. (1960), 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.
- †**Jay T. Estep**, D.D.S., Clinical Instructor in Dentistry (1966).
B.S. (1940), Colorado; D.D.S. (1945), Missouri; M.S. (1960), Marquette.
- †**Joseph H. Eusterman**, M.D., Clinical Instructor in Medicine (1968).
B.A. (1952), B.S., M.D. (1957), Minnesota; M.S. (1962), Mayo.
- †**William B. Evans**, M.D., Clinical Instructor in Medicine (1966).
B.S. (1956), Long Island; M.D. (1961), Virginia.
- J. Job Faber**, Ph.D., Associate Professor of Physiology (1966).
M.B. (1960), Amsterdam; Ph.D. (1963), Western Ontario.
- †**Charles A. Fagan**, M.D., Senior Clinical Instructor in Orthopedics (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.
- †**William F. Farr**, M.D., Clinical Instructor in Ophthalmology (1968).
B.S. (1956), Willamette; M.D. (1960), Oregon.
- †**Cyrus Farrehi**, M.D., Assistant Professor of Medicine (Veterans Hospital) (1967).
M.D. (1958), University of Tehran Faculty of Medicine (Iran).
- Warren H. Fay**, Ph.D., Associate Professor of 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., Professor of Biochemistry (1955).
B.A. (1948), M.A. (1952), Ph.D. (1954), Kansas.
- †**James W. Fergus**, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1963).
B.S. (1954), M.D. (1957), Nebraska.
- †**Charles Ferguson**, M.D., Associate Clinical Professor of Urology (1961).
B.A. (1919), College of Idaho; M.A., M.D. (1922), Oregon.
- †**Leon J. Fine**, Ph.D., Associate Clinical Professor of Psychiatry (Group Processes) (1966).
B.A. (1952), Ph.D. (1967), Washington University.
- †**Hans F. Fink**, M.D., Assistant Clinical Professor of Psychiatry (1963).
M.D. (1945), Friedrich-Wilhelms, University of Berlin.

† Volunteer.
‡ Part-time.

- Dallas Finnell**, B.S., Director of Development ; Assistant Professor (1969).
B.S. (1954), Lewis and Clark.
- †**Robert E. Fischer**, M.D., Assistant Clinical Professor of Ophthalmology (1952).
B.A. (1944), Oregon State; M.D. (1946), Oregon.
- Thelma N. Fisher**, Ph.D., Associate Professor of Pathology (1966).
A.B. (1942), Missouri; M.A. (1948), Kansas; Ph.D. (1953), Southern California.
- †**H. Freeman Fitch**, M.D., Assistant Clinical Professor of Orthopedics (1958).
B.A. (1946), M.A. (1947), British Columbia; M.D. (1951), Oregon.
- Robert D. Fitzgerald**, Ph.D., Associate Professor of Medical Psychology (1962).
B.A. (1958), M.A. (1959), South Dakota; Ph.D. (1962), Indiana.
- †**Latham Flanagan**, M.D., Clinical Instructor in Surgery (1968).
M.D. (1961), Duke.
- †**John R. Flanery**, M.D., Assistant Clinical Professor of Medicine (1956).
B.S. (1948), M.D. (1952), Oregon.
- †**Donald G. Fleetwood**, D.D.S., Assistant Clinical Professor of Dentistry (1967).
D.D.S. (1959), Northwestern.
- †**J. Kenneth Fleshman**, M.D., Clinical Instructor in Pediatrics (1967).
M.D. (1958), Southern California.
- William S. Fletcher**, M.D., Associate Professor of Surgery (1960).
A.B. (1952), Dartmouth; M.D. (1955), Harvard.
- †**Max A. Forse**, M.D., Assistant Professor of Medicine (Veterans Hospital) (1964).
B.S. (1930), M.S., M.D. (1934), Würzburg (Germany).
- †**Donald E. Forster**, M.D., Assistant Clinical Professor of Medicine (1939).
A.B. (1931), Colgate; M.D. (1935), Harvard.
- †**Donald W. Fortlage**, M.D., Clinical Instructor in Pediatrics (1969).
A.B. (1959), California; M.D. (1963), Southern California.
- †**Byron L. Fortsch**, M.D., Clinical Instructor in Otolaryngology (1961).
B.A. (1953), Willamette; M.D. (1957), Oregon.
- †**Paul D. Foster**, M.D., Clinical Instructor in Surgery (1967).
B.A. (1955), M.D. (1958), Iowa.
- †**Everill W. Fowlks**, M.D., Assistant Professor of Orthopedics (Physical Therapy) (Veterans Hospital) (1966).
B.A. (1925), Utah; M.D. (1935), Colorado.
- Kaye E. Fox**, Ph.D., Assistant Professor of Pharmacology (1964).
B.S. (1954), Michigan; Ph.D. (1964), Stanford.
- †**Thomas J. Fox**, M.D., Senior Clinical Instructor in Surgery (1950).
B.S. (1937), Portland; M.D. (1941), Oregon.
- †**Richard W. Franklin**, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1955).
B.S. (1945), M.D. (1948), Oregon.
- †**Herman M. Frankel**, M.D., Clinical Instructor in Pediatrics (1968).
A.B. (1958), M.D. (1962), Columbia.
- †**Clifford A. Fratzke**, M.D., Instructor in Medicine (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.

† Volunteer.
‡ Part-time.

*MEDICAL
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†**Stanton L. Freidberg**, M.D., Clinical Instructor in Medicine (1966).
B.S. (1956), Illinois; M.D. (1960), Western Reserve.

†**Leo J. Freiermuth**, M.D., Senior 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.

†**Raymond F. Friedman**, M.D., Assistant Clinical Professor of Diagnostic Radiology (1967).
B.S. (1955), Oregon State; M.D. (1957), Oregon.

Arthur W. Frisch, M.D., Ph.D., Professor of Microbiology; 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 State.

Louis H. Frische, M.D., Professor of Diagnostic Radiology (1953).
M.D. (1949), Harvard.

†**Robert J. Fry**, M.D., Clinical Instructor in Orthopedics (1958).
B.A. (1947), Michigan; M.D. (1952), Temple.

Alice M. Shannon Fuchs, M.D., Senior Instructor in Anesthesiology (1967).
B.S. (1959), Mount St. Vincent; M.D. (1963), Maryland.

Thomas S. Fujita, M.S., Instructor in Biochemistry and Neurology (Neurochemistry) (1963).
B.A. (1956), Reed; M.S. (1959), University of Washington.

†**Malcolm E. Fuller**, M.D., Assistant Clinical Professor of 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., Assistant Professor of 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.

Anthony E. Gallo, M.D., Associate Professor of Neurosurgery (1968).
B.S. (1952), Tufts; M.D. (1956), Harvard.

†**L. Phaon Gambee**, M.D., Clinical Instructor in Orthopedics (1962).
B.S. (1951), Gonzaga; M.D. (1957), Creighton.

||†**Calvin E. Gantenbein**, M.D., Senior Clinical Instructor in Orthopedics (1936).
B.A. (1931), M.D. (1933), Oregon.

Charles E. Gardner, Ph.D., Assistant Professor of Clinical Pathology (1964).
B.S. (1951), Regis; Ph.D. (1962), Colorado.

†**J. Scott Gardner**, M.D., Clinical Professor of Urology (1945).
B.A. (1935), Utah; M.D. (1939), Cornell.

|| Leave of absence.

† Volunteer.

- Ann M. Garner**, Ph.D., Professor, Crippled Children's Division; Professor of Medical Psychology (1968).
A.B. (1936), Carleton; A.M. (1938), Radcliffe; Ph.D. (1941), Stanford.
- †**William M. Garnjobst**, M.D., Assistant Clinical Professor of Surgery (1955).
B.A. (1943), Oregon State; M.D. (1945), Oregon.
- †**Kenneth D. Gaver**, M.D., Associate Clinical Professor of Psychiatry (1966).
B.A. (1946), California; M.D. (1948), Tennessee.
- †**Howard J. Geist**, M.D., Clinical Instructor in Orthopedics (1965).
M.D. (1955), Harvard.
- Nancy B. Gerhardt**, B.S., Instructor in Microbiology (1966).
B.S. (1950), Oregon State.
- ‡**Jerry D. Giesy**, M.D., Assistant Professor of Urology (1964).
B.A. (1955), M.D. (1959), Oregon.
- †**Joseph H. Gill**, M.D., Senior Clinical Instructor in Orthopedics (1949).
B.A. (1940), Reed; M.D. (1943), Oregon.
- †**Samuel F. Gill**, M.D., Clinical Instructor in Orthopedics (1963).
B.S. 1953, Oregon State; M.D. (1955), Oregon.
- †**James B. Gillick**, M.D., Clinical Instructor in Medicine (1967).
M.D. (1959), Indiana.
- †**Vincent Glaudin**, Ph.D., Associate Professor of Psychiatry (Veterans Hospital) (1966).
B.S. (1949), Ph.D. (1954), Illinois.
- †**Eberhard Glökler**, M.D., Clinical Instructor in Neurology (1968).
M.D. (1954), Tübingen.
- †**Leonard M. Goldberg**, M.D., Assistant Clinical Professor of Medicine (1959).
B.A. (1951), Reed; M.D. (1955), Oregon.
- Edward L. Goldblatt**, M.D., Assistant Professor of Public Health and Preventive Medicine; Director, Regional Medical Program (1967).
B.S. (1957), M.D. (1960), Northwestern; M.P.H. (1964), California.
- †**Marvin C. Goldman**, M.D., Assistant Clinical Professor of Medicine (1958).
Ph.B. (1946); B.S. (1947), M.D. (1950), Chicago.
- Robert D. Goldman**, M.D., Associate Professor of Medicine (1963).
B.A. (1950), M.D. (1957), Michigan.
- †**Jeanne A. Goldstein**, Ph.D., Lecturer in Medical Psychology (1967).
B.S. (1960), Butler; M.S. (1964), Ph.D. (1967), Purdue.
- Steven G. Goldstein**, Ph.D., Assistant Professor of Medical Psychology (1968).
B.A. (1962), Fairleigh Dickinson; M.S. (1964), Ph.D. (1967), Purdue.
- †**Buell E. Goocher**, Ph.D., Assistant Clinical Professor of Psychiatry (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., Clinical Professor of Pediatrics (1940).
B.A. (1930), Wisconsin; M.D. (1932), Oregon.
- Scott H. Goodnight**, M.D., Instructor in Medicine (1969).
B.S. (1962), M.D. (1964), Oregon.

† Volunteer.
‡ Part-time.

*MEDICAL
SCHOOL
FACULTY*

- ‡**Guy W. Gorrell, M.D.**, Assistant Clinical Professor of 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.
- Richard T. Gourley, M.D.**, Associate Professor of Pathology (1967).
B.A. (1958), Reed; M.D. (1963), Oregon.
- David Gowing, M.D.**, Associate Professor of Anesthesiology and Assistant Professor of Pharmacology (1962).
A.B. (1955), Boston; M.D. (1959), Yale.
- ‡**Robert W. Goy, Ph.D.**, Professor of Medical Psychology (Primate Center) (1965).
B.S. (1947), Michigan; Ph.D. (1953), Chicago.
- Julia L. Grach, M.D.**, Instructor in Pediatrics (1967).
B.A. (1951), M.D. (1955), University of Santo Tomas (Manila, Philippines).
- Richard L. Grant, M.D.**, Assistant Professor of Psychiatry (1966).
B.A. (1955), DePauw; M.D. (1959), M.A. (1961), Chicago.
- †**Robert H. Gray, M.D.**, Senior Clinical Instructor in Medicine (1961).
B.S. (1953), M.D. (1955), Oregon.
- Gerald S. Green, M.D.**, Instructor in Diagnostic Radiology (1969).
B.S. (1960), California (Berkeley); M.D. (1963), California (San Francisco).
- ‡**Marvin Greenbaum, Ph.D.**, Associate Clinical Professor of Psychiatry (1968).
B.A. (1949), M.A. (1951), Ph.D. (1955), Syracuse.
- †**Robert B. Greene, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1949).
B.A. (1927), M.D. (1931), Oregon.
- Monte A. Greer, M.D.**, Professor of Medicine; Head of Division of Endocrinology (1956).
A.B. (1944), M.D. (1947), Stanford.
- †**Victor Gregory, M.D.**, Assistant Clinical Professor of Psychiatry (1966).
M.D. (1951), Illinois.
- ‡**Donald P. Grette, Ph.D.**, Clinical Instructor in Medicine (1966).
B.A. (1924), Willamette; M.A. (1927), Oregon; Ph.D. (1930), Pittsburgh.
- †**John J. Greve, M.D.**, Clinical Instructor in Medicine (1968).
B.A. (1958), M.D. (1962), Iowa.
- †**Ray V. Grewe, M.D.**, Clinical Instructor in Neurosurgery (1958).
B.S. (1945), University of Washington; M.D. (1947), Oregon.
- †**Thomas K. Griffith, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1968).
B.A. (1951), M.D. (1955), Iowa.
- ‡**Robert John Grimm, M.D.**, Assistant Professor of Neurology (Good Samaritan Hospital) (1969).
B.S. (1957), Antioch; M.S. (1959), M.D. (1961), Michigan.
- 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.**, Assistant Clinical Professor of Surgery (1956).
B.S., M.D. (1949), Nebraska.

- †**Harry E. Groth, M.D.**, Senior Clinical Instructor in Orthopedics (1963).
B.S. (1952), M.D. (1955), Wisconsin.
- †**J. Gordon Grout, M.D.**, Senior Clinical Instructor in Surgery (1959).
A.B. (1949), Stanford; M.D. (1954), Oregon.
- M. Roberts Grover, Jr., M.D.**, Associate Dean; Director of Continuing Education; Professor of Medicine (1958).
B.A. (1950), Bowdoin; M.D. (1954), Cornell; M.S. (1956), Oregon.
- John S. Gullikson, D.D.S.**, Associate Professor of Dentistry; Associate Professor, Crippled Children's Division (1963).
B.S. (1950), Washington State; D.D.S. (1954), University of Washington.
- David L. Gunberg, Ph.D.**, Professor of Anatomy (1955).
B.A. (1949), Redlands; M.A. (1952), Ph.D. (1954), California.
- †**Russell G. Gustavson, M.D.**, Assistant Clinical Professor of Surgery (1957).
B.A. (1950), M.D. (1952), Nebraska.
- †**Helmut Haas, M.D.**, Assistant Professor of Medicine (Veterans Hospital) (1966).
B.S. (1956), M.D. (1958), Minnesota.
- †**Clarence H. Hagmeier, M.D.**, Clinical Instructor in Anesthesiology (1967).
B.S. (1943), M.D. (1950), Pittsburgh.
- James E. Haines, M.D.**, Assistant Professor of Clinical Pathology (1966).
B.S. (1950), M.D. (1955), Stanford.
- †**Roger W. Hallin, M.D.**, Senior 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), Universidad Nacional Autonoma de Mexico.
- †**John E. Halver, Ph.D.**, Lecturer in Pathology (1966).
B.S. (1944), M.S. (1948), Washington State; Ph.D. (1953), University of Washington.
- †**Archie Y. Hamilton, M.D.**, Clinical Instructor in Clinical Pathology (1966).
B.S. (1954), M.S. (1955), Oregon State; M.D. (1960), Oregon.
- Martha L. Hamilton, M.D.**, Associate 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), Chicago.
- *†**Robert F. Haney, M.D.**, Clinical Instructor in Ophthalmology (1965).
B.S. (1955), M.D. (1958), Oregon.
- Constance Hanf, Ph.D.**, Associate Professor of Medical Psychology; Associate Professor, Crippled Children's Division (1963).
B.A. (1938), M.A. (1943), New York University; M.A. (1952), College of City of New York; Ph.D. (1961), Pennsylvania State.
- †**Mark R. Hanschka, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1969).
B.A. (1955), Amherst; M.D. (1961), Harvard.
- †**John R. Hansen, M.D.**, Assistant Clinical 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.

† Volunteer.
* On military leave.

*MEDICAL
SCHOOL
FACULTY*

- † **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 Orthopedics (1959).
B.A. (1945), Whitman; M.D. (1949), Oregon.
- † **George Thomas Harding, Jr., M.D.**, Clinical Instructor in Surgery (1966).
M.D. (1958), University of Washington.
- † **Clifford E. Hardwick, M.D.**, Associate Clinical Professor of Surgery (1947).
B.S., M.D. (1929), Oregon.
- † **Robert L. Hare, M.D.**, Assistant Clinical Professor of Medicine (1956).
B.S. (1947), M.D. (1949), Illinois; M.S. (1956), Minnesota.
- † **Allen D. Harlor, Jr., M.D.**, Clinical Instructor in Pediatrics (1966).
B.S. (1957), M.D. (1961), M.S. (1964), Ohio State.
- † **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.
- † **Waldo E. Harris, M.D.**, Clinical Instructor in Medicine (1963).
B.D. (1929), Whitman; B.S., M.D. (1941), Northwestern.
- † **Joseph T. Hart, M.D.**, Associate Clinical Professor of Pediatrics (1950).
B.S.M. (1941), M.D. (1942), Creighton.
- † **James T. Hartford, M.D.**, Assistant Clinical Professor of Pediatrics (1966).
B.A. (1951), Portland; M.D. (1961), Oregon.
- Fredric M. Harwin, M.S.**, Unit Supervisor, Medical Graphics; Instructor (1969).
B.F.A. (1965), Wayne State; M.S. (1967), Michigan.
- Virginia R. Hatch, B.A.**, Assistant Professor, Crippled Children's Division (1967).
B.A. (1926), Allegheny.
- Frederick P. Haugen, M.D.**, Professor of Anesthesiology; Head of Division (1948).
B.A. (1933), M.D. (1935), Oregon.
- † **Gerhard B. Haugen, M.D.**, Associate Clinical Professor of Psychiatry (1937).
B.A. (1932), M.D. (1935), Oregon; M.P.H. (1942), Johns Hopkins.
- † **Thomas Haun, M.D.**, Senior Clinical Instructor in Medicine (1963).
M.D. (1957), Creighton.
- † **James B. Haworth, M.D.**, Associate Clinical Professor of Diagnostic 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.
- † **John R. Hazel, M.D.**, Clinical Instructor in Orthopedics (1966).
B.A. (1953), Portland; M.D. (1958), Oregon.

- †**Thomas S. Healy, M.D.**, Senior Clinical Instructor in Medicine (1951).
B.A. (1940), M.D. (1942), Oregon.
- Frederick Hecht, M.D.**, Associate Professor of Pediatrics and Medicine; Associate Professor, Crippled Children's Division (1965).
B.A. (1952), Dartmouth; M.D. (1960), Rochester.
- Jack R. Hegrenes, M.S., M.A.**, Instructor, Crippled Children's Division (1967).
B.S. (1952), M.S. (1955), Oregon; M.A. (1960), Chicago.
- †**William J. Hemphill, M.D.**, Clinical Instructor in Dermatology (1961).
M.D. (1947), Oklahoma.
- †**Curtis J. Hendricks, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1969).
B.A. (1948), B.S. (1949), M.B. (1951), M.D. (1952), Minnesota.
- Norman Henderson, Ph.D.**, Associate Professor of Medical Psychology (1967).
B.A. (1938), Fresno State; M.A. (1948), Occidental; Ph.D. (1953), U.C.L.A.
- †**Edward L. Hendricks, M.D.**, Associate Clinical Professor of Pediatrics (1955).
B.S. (1946), Oregon State; M.S. (1948), M.D. (1949), Oregon.
- †**John D. Hensala, M.D., Ph.D.**, Assistant Clinical Professor of Psychiatry (1967).
B.S. (1954), Oregon State; Ph.D. (1959), M.D. (1960), Maryland.
- Paul N. Herman, Ph.D.**, Assistant Professor of Otolaryngology (1968).
A.B. (1952), Cornell; A.M. (1954), Alabama; Ph.D. (1965), Connecticut.
- Richard Herren, Director, Instructional Aids; Instructor (1968).**
- Barbara Hiatt, M.S., R.N.**, Administrator, Tuberculosis Hospital; Assistant Professor of Nursing (1950).
B.S., R.N. (1948), Oregon State; M.S. (1950), Oregon.
- †**William W. Hicks, Jr., M.D.**, Clinical Instructor in Obstetrics and Gynecology (1958).
M.D. (1953), Jefferson; B.S. (1954), University of Washington.
- †**James V. Higgins, M.D.**, Visiting Associate Professor of Medical Genetics (1967).
B.S. (1954), Michigan State; M.S. (1958), Ph.D. (1961), Minnesota.
- †**Curtis Lyle Hill, M.D.**, Clinical Instructor in Neurosurgery (1969).
A.M.S. (1954), Minnesota; B.A., B.S. (1961), North Dakota; M.D. (1963), Harvard.
- †**John D. Hill, D.V.M.**, Assistant Professor of Medicine (Primate Center) (1968).
B.S. (1958), D.V.M. (1960), Washington State; M.Med.Sci. (1967), Pennsylvania.
- †**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.**, Assistant Clinical Professor of Pediatrics (1962).
B.A. (1947), Maine; M.D. (1951), Tufts.
- Vincent C. Hinck, M.D.**, Professor of Diagnostic Radiology (1957).
A.B. (1948), Cornell; M.D. (1953), New York Medical College.
- †**Ernest H. Hixon, D.D.S.**, Clinical Professor of Dental and Oral Medicine (1967).
D.D.S. (1945), M.S. (1949), Iowa.
- Robert P. Hodam, M.D.**, Assistant Professor of Cardiopulmonary Surgery (1968).
A.B. (1955), B.S., M.D. (1958), Illinois.
- Clarence V. Hodges, M.D.**, Professor of Urology; Head of Division (1948).
B.S. (1937), Iowa State; M.D. (1940), Chicago.

*MEDICAL
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- †**Richard A. Hodgeson**, M.D., Clinical Instructor in Otolaryngology (1962).
B.S. (1954), Oregon State; M.D. (1956), Oregon.
- †**John W. Hoffman**, M.D., Assistant Clinical Professor of Pathology (1966).
D.M.D. (1948), M.D. (1950), Harvard.
- †**Donald H. Holden**, M.D., Clinical Instructor in Otolaryngology (1953).
A.B. (1941), Brown; M.D. (1944), Yale.
- †**Carl L. Holm**, M.D., Senior Clinical Instructor in Orthopedics (1961).
B.A. (1940), Willamette; M.D. (1943), Oregon.
- Charles N. Holman**, M.D., Dean of the Medical School; Professor of Medicine (1940).
B.A. (1931), M.D. (1936), Oregon.
- †**Monroe A. Holmes**, D.V.M., M.P.H., Senior Clinical Instructor in Public Health and Preventive Medicine (1967).
B.S. (1942), University of Washington; D.V.M. (1946), Washington State; M.P.H. (1963), California.
- Curtis Holzgang**, M.D., Assistant Professor of Medicine (1968).
B.A. (1958), M.D., M.S. (1963), Oregon.
- †**Richard J. Hopkins**, M.D., Assistant Clinical Professor of Orthopedics (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.
- †**Velma J. Horenstein**, M.D., Clinical Instructor in Psychiatry (1967).
B.A. (1946), M.D. (1953), Oregon.
- †**Irving J. Horowitz**, M.D., Assistant Clinical Professor of Radiation Therapy (1959).
B.S. (1946), M.S. (1947), M.D. (1952), Michigan.
- A. Wesley Horton**, Ph.D., Professor of Environmental Medicine and Biochemistry (1962).
B.S. (1940), M.S. (1947), Ph.D. (1948), Yale.
- †**Dale D. Hoskins**, Ph.D., Associate Professor of Biochemistry (Primate Center) (1963).
B.S. (1953), M.S. (1955), Oregon State; Ph.D. (1960), Colorado.
- †**Charles F. Howard, Jr.**, Ph.D., Assistant Professor of Biochemistry (Primate Center) (1965).
B.A. (1954), Colorado State College of Education; M.A. (1958), Colorado State; M.S. (1961), Ph.D. (1963), Wisconsin.
- †**Martin A. Howard**, M.D., Assistant Clinical Professor of Surgery (1929).
B.S. (1923), M.D. (1926), Oregon.
- †**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., Assistant Clinical Professor of Psychiatry (1963).
M.D. (1944), Temple.
- Margaret E. Hughes**, B.S., Librarian; Professor (1946).
B.S. (1937), Minnesota.
- †**Paul Q. Hull**, M.D., Clinical Instructor in Medicine (1969).
B.S. (1959), M.D. (1963), University of Washington.

- †**Arthur F. Hunter, M.D.**, Associate Clinical Professor of Diagnostic Radiology (1946).
A.B. (1930), Denver; M.D. (1933), Colorado.
- Leslie W. Hunter, M.S.W.**, Director, Medical Social Service Department; Professor (1965).
M.A. (1944), Royal Hungarian Peter Pazmany University (Budapest); M.S.W. (1956), Southern California.
- ‡**Howard W. Huntington, M.D.**, Assistant Professor of Neurology (Good Samaritan Hospital) (1968).
B.A. (1957), St. Olaf; M.D. (1961), University of Washington.
- †**Peter L. Hurst, M.D.**, Associate Clinical Professor of Pediatrics (1956).
B.S. (1950), Antioch; M.D. (1950), Washington University.
- †**William W. Hurst, M.D.**, Associate Clinical Professor of Medicine (1952).
B.S. (1942), Idaho State; B.M. (1945), M.D. (1946), Northwestern.
- †**Crittenden Huston, M.D.**, Clinical Instructor in Psychiatry (1967).
B.A. (1949), Linfield; M.D. (1953), Oregon.
- Tyra T. Hutchens, M.D.**, Professor of Clinical Pathology and Radiation Therapy (Radioisotopes); Chairman of Department of Clinical Pathology (1953).
B.S. (1943), M.D. (1945), Oregon.
- †**Wendell H. Hutchens, M.D.**, Associate Clinical Professor of Psychiatry (1967).
B.S. (1928), Pacific College (George Fox); A.B. (1929), M.D. (1932), Oregon.
- Jack H. Hutchinson, B.A.**, Instructor in Medicine (1961).
B.A. (1949), Lewis and Clark.
- †**Theodore L. Hyde, M.D.**, Senior Clinical Instructor in Surgery (1964).
B.S. (1925), Minnesota; M.D. (1927), Harvard.
- †**Milton D. Hyman, M.D.**, Associate Clinical Professor of Radiation Therapy (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 Radiation Therapy (1944).
B.S. (1932), M.D. (1938), New York University.
- Barbara Iglewski, Ph.D.**, Assistant Professor of Microbiology (1968).
B.S. (1960), Allegheny; M.S. (1962), Ph.D. (1964), Pennsylvania State.
- Wallace Iglewski, Ph.D.**, Assistant Professor of Microbiology (1968).
B.A. (1961), Western Reserve; B.S. (1963), Ph.D. (1965), Pennsylvania State.
- †**James Donald Imbrie, M.D.**, Clinical Instructor in Otolaryngology (1967).
B.S. (1957), M.D. (1959), Oregon.
- †**Toshio Inahara, M.D.**, Senior 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.
- Russell Jackson, Ph.D.**, Assistant Professor of Medical Psychology (1968).
B.S. (1963), M.S. (1964), Brigham Young; Ph.D. (1968), Ohio State.
- William W. Jackson, B.S.**, Assistant Professor, 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.

**MEDICAL
SCHOOL
FACULTY**

- †**Wesley R. Jacobs**, M.D., Clinical Instructor in Medicine (1967).
M.S., M.D. (1960), Oregon.
- †**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 State.
- †**Stanley L. James**, M.D., Clinical Instructor in Orthopedics (1967).
B.A. (1953), M.D. (1962), Iowa.
- †**John Paul Jarabak**, D.D.S., Associate Clinical Professor of Dentistry (1960).
D.D.S. (1939), Indiana.
- †**J. Theodore Jastak**, D.D.S., Ph.D., Associate Clinical Professor of Dentistry (1969).
D.D.S. (1962), Seton Hall; Ph.D. (1967), Rochester.
- †**Rocquelyn M. Jastak**, M.D., Clinical Instructor in Medicine (1969).
B.A. (1958), Marywood; M.D. (1962), New Jersey.
- †**Jack D. Jefferson**, M.D., Clinical Instructor in Surgery (1967).
B.A. (1958), M.D. (1962), Missouri.
- Robert A. Jellum**, B.S., Budget Officer; Assistant Professor (1966).
B.S. (1950), Linfield.
- †**Naraindas B. Jetmalani**, D.P.M., Assistant Clinical Professor of Psychiatry (1964).
D.P.M. (1953), Netherne Hospital, Surrey (England).
- David William Johnson**, M.D., Associate Professor of Public Health and Preventive Medicine (1968).
B.S. (1950), Washington State; M.D. (1961), Oregon.
- †**Donald R. Johnson**, M.D., Clinical Instructor in Ophthalmology (1965).
B.A. (1951), Minnesota; A.M. (1952), Harvard; M.D. (1961), Stanford.
- †**Roderick L. Johnson**, M.D., Senior Clinical Instructor in Surgery (1960).
B.S. (1948), M.D. (1951), University of Washington.
- †**Warren E. Johnson**, M.A., Assistant Professor of Otolaryngology (Audiology) (Portland Center for Hearing and Speech) (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; Assistant Professor (1961).
B.S. (1955), Johns Hopkins.
- Russell L. Jolley**, Ph.D., Instructor in Biochemistry (1968).
B.S. (1943), Texas A&M; M.S. (1954), Ph.D. (1958), Oregon State.
- †**Arthur C. Jones**, M.D., Clinical Professor of Orthopedics (Physical Medicine) (1929).
B.A. (1921), Pacific University; M.A. (1925), M.D. (1926), Oregon.
- †**Homer C. Jones, Jr.**, M.D., Instructor in Anesthesiology (Veterans Hospital) (1969).
B.S. (1949), Southern Methodist; M.D. (1952), Southwestern.
- †**Lester T. Jones**, M.D., Clinical Professor of Otolaryngology and Ophthalmology (1924).
B.A. (1918), Pacific University; M.D. (1921), M.A. (1923), Oregon.

- †**Orville N. Jones**, M.D., Senior Clinical Instructor in Orthopedics (1947).
B.A. (1931), Reed; M.D., C.M. (1937), McGill.
- Richard T. Jones**, M.D., Ph.D., Professor of Biochemistry; Chairman of Department (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.
- †**Wallace D. Joslyn**, Ph.D., Lecturer in Medical Psychology (Primate Center) (1968).
B.A. (1961), Virginia; M.S. (1965), Ph.D. (1967), Wisconsin.
- Terence M. Joys**, Ph.D., Associate Professor of Microbiology (1965).
B.Sc. (1957), Leeds (England); Ph.D. (1961), Lister Institute of University of London.
- Richard C. Juberg**, M.D., Ph.D., Associate Professor of Medical Genetics, and Pediatrics; Associate Professor, Crippled Children's Division (1969).
B.A. (1952), Carleton; M.D. (1956), M.S. (1963), Ph.D. (1966), Michigan.
- Melvin P. Judkins**, M.D., Professor of Diagnostic Radiology (1966).
B.S. (1945), La Sierra; M.D. (1947), Loma Linda.
- Doris Julian**, M.N., Assistant Professor, Crippled Children's Division (1969).
R.N. (1947), Hastings; B.S. (1951), M.N. (1966), University of Washington.
- †**Ellis B. Jump**, D.M.D., Ph.D., Professor of Anatomy (Dental School) (1969).
B.A. (1932), Dartmouth; D.M.D. (1936), Harvard; Ph.D. (1944), Chicago.
- Robert S. Justice**, D.S.W., Associate Professor, Crippled Children's Division (1969).
B.A. (1949), Puget Sound; M.S.W. (1953), University of Washington; D.S.W. (1968), Southern California.
- David Kabat**, Ph.D., Assistant Professor of Biochemistry (1969).
Sc.B. (1962), Brown; Ph.D. (1967), California Institute of Technology.
- †**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.
- †**Joseph R. Kantor**, M.D., Clinical Instructor in Surgery (1967).
B.S.Med. (1958), Creighton; M.D. (1958), Nebraska.
- †**Reinhold Kanzler**, M.D., Clinical Instructor in Surgery (1958).
B.S. (1934), M.S. (1937), M.D. (1938), Oregon.
- Donald G. Kassebaum**, M.D., Associate Professor of Medicine (1962).
B.A. (1955), Reed; M.D. (1956), Oregon.
- †**Foster F. Keene**, M.D., Clinical Instructor in Medicine (1968).
B.A. (1955), M.D. (1959), Stanford.
- †**John P. Keizer**, M.D., Associate Clinical Professor of Ophthalmology (1953).
B.A. (1934), M.D. (1937), Oregon.
- †**Harley D. Kelley**, M.D., Clinical Instructor in Surgery (1965).
B.A. (1955), Pacific; M.D. (1959), Oregon.
- Robert E. Kellum**, M.D., Associate Professor of Dermatology (1965).
B.A. (1952), M.D. (1955), Colorado.

*MEDICAL
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- †**Donald F. Kelly, M.D.**, Assistant Clinical Professor of Dentistry; Associate Clinical Professor of Pediatrics (1959).
B.S. (1949), Portland; M.D. (1954), Oregon.
- John W. Kendall, Jr., M.D.**, Associate Professor of Medicine (1962).
B.A. (1952), Yale; M.D. (1956), University of Washington.
- Max F. Kersbergen, M.A.**, Administrator, Outpatient Clinic, Assistant Professor (1969).
B.S. (1958), M.A. (1963), Iowa.
- †**Ilmar O. Kiesel, M.D.**, Assistant Professor of Diagnostic Radiology (Veterans Hospital) (1969).
M.D. (1938), M.S. (1942), Tartu (Estonia).
- ‡**Calvin H. Kiest, Jr., M.D.**, Senior Clinical Instructor in Orthopedics (1960).
B.S. (1951), Oregon State; M.D. (1955), Oregon.
- †**Robert Kim, M.D.**, Assistant Professor of Neurology (Veterans Hospital) (1969).
B.S. (1966), Union; M.D. (1961), Rochester.
- †**Reid R. Kimball, M.D.**, Assistant Clinical Professor of Psychiatry (1967).
B.S. (1949), Brigham Young; M.D. (1951), Utah.
- †**A. Gurney Kimberley, M.D., D.Sc.**, Assistant Clinical Professor of Orthopedics (1937).
B.S. (1929), M.D. (1930), Oregon; D.Sc. (Med.) (1937), Columbia.
- Harry R. King, M.D.**, Assistant Professor of Cardiopulmonary Surgery (1969).
B.A. (1957), M.D. (1961), Northwestern.
- †**Philip S. King, III, M.D.**, Clinical Instructor in Orthopedics (1968).
B.A. (1949), Omaha; M.D. (1952), Nebraska.
- †**Frederick A. J. Kingery, M.D.**, Clinical Professor of Dermatology (1959).
B.S. (1949), Yale; M.D. (1953), New York University.
- †**Gerald E. Kinzel, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1946).
B.A. (1933), M.D. (1936), Oregon.
- †**George W. Kittinger, Ph.D.**, Professor of Biochemistry (Primate Center) (1965).
B.S. (1948), M.S. (1950), Northwestern; Ph.D. (1953), Oregon.
- †**George C. D. Kjaer, M.D.**, Clinical Instructor in Psychiatry (1966).
B.A. (1955), M.D. (1959), University of Washington.
- †**Alvin Klass, M.D.**, Clinical Instructor in Ophthalmology (1968).
B.S. (1960), Portland State; M.D. (1963), Oregon.
- Roger L. Klein, M.D.**, Assistant Professor of Anesthesiology (1969).
B.S. (1956), South Dakota; M.D. (1956), Loyola.
- †**Harvey D. Klevit, M.D.**, Associate Clinical Professor of Pediatrics (1964).
A.B. (1952), M.D. (1956), Temple.
- †**David D. Klierer, M.D.**, Clinical Instructor in Medicine (1968).
B.S. (1939), Wheaton; M.D. (1951), Harvard.
- †**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.**, Assistant Professor of Medicine (1965).
B.S. (1955), Iowa State; M.D. (1958), Iowa.
- Delbert M. Kole, M.D.**, Assistant Professor of Psychiatry (1968).
B.S. (1958), Washington State; M.S., M.D. (1962), Oregon.

† Volunteer.
‡ Part-time.

- Robert D. Koler**, M.D., Professor of Medicine; Head of Division of Medical Genetics and Experimental Medicine (1953).
B.A. (1945), M.D. (1947), Oregon.
- John D. Koontz**, B.S., Senior Instructor in Clinical Pathology (Medical Technology) (1963).
B.S. (1954) Oregon.
- †**Edward L. Korn**, M.D., Clinical Instructor in Otolaryngology (1968).
B.A. (1957), Ohio Wesleyan; M.D. (1961), Ohio State.
- ***Nancy Kosterlitz**, M.A., Associate Professor of Psychiatric Social Work, Psychiatry (1962).
B.A. (1945), M.A. (1950), Chicago.
- †**Richard H. Kosterlitz**, M.D., Senior Clinical Instructor in Medicine (1958).
B.S., M.D. (1949), Illinois.
- †**Arthur D. Kracke**, M.D., Assistant Clinical Professor of Pediatrics (1963).
B.A. (1955), North Dakota; M.D. (1958), McGill.
- †**Lewis J. Krakauer**, M.D., Assistant Clinical Professor of Medicine (1956).
A.B. (1947), Williams; M.D. (1951), Harvard.
- †**Alfred J. Kreft**, M.D., Senior Clinical Instructor in Ophthalmology (1951).
B.S. (1933), M.D. (1936), Illinois.
- †**Paul O. Kretschmar**, M.D., Senior Clinical Instructor in Medicine (1961).
B.S. (1952), South Dakota; M.D. (1954), Illinois.
- Marion L. Krippaehne**, M.D., Associate 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., Assistant Clinical Professor of 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.
- 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., Senior Clinical Instructor in Ophthalmology (1963).
B.S. (1954), Oregon State; M.D. (1956), 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), Portland; M.D. (1956), Oregon.

† Volunteer.

* Leave of absence September 1, 1969 to August 31, 1970.

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- †**Ivan I. Langley**, M.D., Clinical Instructor in Obstetrics and Gynecology (1967).
B.A. (1940), Oregon State; M.D. (1943), Oregon.
- ‡**Laurence R. Langston**, M.D., Senior Clinical Instructor in Orthopedics (1956).
B.A. (1947), M.D. (1951), Oregon.
- †**Albert E. Larnar**, 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.
- †**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 Orthopedics (1962).
B.A. (1949), Montana State University; M.D. (1953), George Washington; M.S. (Orth. Surg.) (1960), Minnesota.
- †**Wilbur L. E. Larson**, M.D., Assistant Professor of Neurology (Good Samaritan Hospital) (1968).
B.A. (1942), M.D. (1945), Oregon.
- Russell K. Lawson**, M.D., Assistant Professor of Urology (1968).
B.S. (1962), M.D. (1963), Oregon.
- †**Gary H. Leaverton**, M.D., Senior 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.
- †**Harry A. Lee**, M.D., Clinical Instructor in Obstetrics and Gynecology (1967).
B.S. (1953), M.D. (1961), Colorado.
- †**J. Robert Lee**, M.D., Associate Clinical Professor of Radiation Therapy (1955).
B.A. (1944), Willamette; M.D. (1946), Oregon.
- †**T. David Lee, Jr.**, M.D., Clinical Instructor in Medicine (1965).
A.B. (1954), Dartmouth; M.D. (1957), Harvard.
- Martin H. Lees**, M.D., Associate Professor of Pediatrics (1963).
M.D. (1955), London University.
- †**Theodore H. Lehman**, M.D., Associate Clinical Professor of Urology (1958).
B.A. (1948), M.A. (1949), M.D. (1953), Nebraska.
- †**Fernando Leon**, M.D., Clinical Instructor in Cardiopulmonary Surgery (1968).
B.S. (1948), M.D. (1955), University of Mexico.
- Richard L. Lessel**, M.P.H., Senior 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., Dr. Laurence Selling Professor of Medicine; Chairman of Department (1932).
B.S. (1924), Oregon State; M.D. (1930), Oregon.
- †**Muriel D. Lezak**, Ph.D., Assistant Professor of Neurology (Veterans Hospital) (1968).
Ph.B. (1947), A.M. (1949), Chicago; Ph.D. (1960), Portland.
- 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; Associate Professor, Crippled Children's Division (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.

‡ Part-time.
† Volunteer.

- Dennis L. Lindgren**, B.A., Director of Computer Services; Instructor (1969).
B.A. (1962), Cascade.
- Verner V. Lindgren**, M.D., Senior 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., Senior Clinical Instructor in Surgery (1958).
B.S. (1946), South Dakota; M.D. (1947), Louisville.
- Louis Lino**, Ph.D., Assistant Professor of Neurology, Neurochemistry (1958).
Ph.D. (1935), Faculty of Natural Sciences, Pisa (Italy).
- Adam W. Lis**, Ph.D., Associate Professor of Obstetrics and Gynecology (1965).
B.S. (1949), Arkansas; B.A. (1954), Ph.D. (1960), California.
- Elaine W. Lis**, Ph.D., Associate Professor of Nutrition, Crippled Children's Division (1967).
B.A. (1945), Mills; Ph.D. (1960), California.
- Michael Litt**, Ph.D., Associate Professor of Biochemistry and Experimental Medicine (1967).
B.A. (1954), Oberlin; Ph.D. (1958), Harvard.
- 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.
- Mary Ann A. Lockwood**, B.A., Director of Publications; Assistant Professor (1965).
B.A. (1964), University of Washington.
- Otto L. Loehden**, M.D., Clinical Instructor in Surgery (1969).
B.S. (1956), M.D. (1958), Oregon.
- Norman D. Logan**, M.D., Clinical Instructor in Orthopedics (1962).
B.A. (1951), Oregon State; M.D. (1955), Oregon.
- 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., Associate Clinical Professor of Diagnostic Radiology (1951).
B.A. (1940), Reed; M.D. (1943), Oregon.
- Everett W. Lovrien**, M.D., Assistant Professor of Pediatrics and Medicine; Assistant Professor, Crippled Children's Division (1966).
B.A. (1955), M.D. (1959), Minnesota.
- Donald C. Lowe**, B.S., Program Planning Coordinator; Instructor (1967).
B.S. (1954), Lewis and Clark.
- Lawrence M. Lowell**, M.D., Assistant Clinical Professor of Cardiopulmonary Surgery (1950).
B.S. (1933), Washington State; M.D. (1936), Oregon.
- Oscar N. Lucas**, Ph.D., Associate Clinical Professor of Dentistry (1968).
D.D.S. (1957), Buenos Aires; Ph.D. (1965) Saskatchewan.
- Henrik A. B. Lundh**, M.D., Instructor in Medicine (Veterans Hospital) (1965).
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- ***Charles Lawrence Lutcher**, M.D., Instructor in Medicine (1966).
A.B. (1957), Whitman; M.D. (1961), Washington University.
- †**Robert C. Luther**, M.D., Clinical Instructor in Psychiatry (1967).
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- †**Thomas A. Lynch**, M.D., Assistant Professor of Diagnostic Radiology (Veterans Hospital) (1969).
M.D. (1950), University of Washington.
- †**Mary Jane D. Dubinski Lytle**, M.D., Clinical Instructor in Psychiatry (1965).
B.A. (1951), Marylhurst; M.D. (1961), Oregon.
- †**William R. McAllister**, M.D., Clinical Instructor in Surgery (1967).
B.S. (1959), M.D. (1962), Northwestern.
- ****Glynn E. McArn**, Ph.D., Assistant Professor of Pathology (1968).
B.A. (1954), M.S. (1961), M.P.H. (1964), Michigan; Ph.D. (1968), Oregon.
- Elton L. McCawley**, Ph.D., Professor of Pharmacology (1949).
A.B. (1938), M.S. (1939), Ph.D. (1942), California.
- David McClure**, Ph.D., Assistant Professor of Environmental Medicine (1968).
B.S. (1958), Washington State; Ph.D. (1963), University of Washington.
- †**Guy R. McCutchan**, M.D., Assistant Clinical Professor of Medicine (1939).
B.S. (1929), Grand Island; M.D. (1931), Nebraska.
- †**James R. McDougall**, M.D., Clinical Instructor in Diagnostic Radiology (1968).
B.Sc. (1944), Manitoba; M.D. (1949), Laval.
- †**Robert G. McKillop**, M.D., Senior Clinical Instructor in Medicine and Clinical Instructor in Orthopedics (1964).
B.A. (1949), Augustana; B.S. (1954), South Dakota; M.D. (1956), Northwestern.
- †**Donald McKinley**, M.D., Assistant Clinical Professor of Psychiatry (1958).
B.A. (1940), Reed; M.D. (1942), Oregon.
- †**Matthew McKirdie**, M.D., Clinical Professor of Surgery (1940).
B.S. (1929), 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. McMahan**, M.D., Associate Clinical Professor of 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.
- †**Matthew B. Maberry**, D.V.M., Clinical Instructor in Animal Care (1966).
B.S. (1946), D.V.M. (1947), Washington State.
- †**Laurence K. MacDaniels**, M.D., Associate 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 Professor of Pediatrics; Assistant Professor, Crippled Children's Division (1956).
B.S. (1948), M.S., M.D. (1951), Illinois.

† Volunteer.
‡ Part-time.

* Military leave.
** Leave of absence.

- †**Jean P. Macfarlane**, M.D., Clinical Instructor in Medical Genetics; Clinical Instructor, Crippled Children's Division (1969).
B.A. (1942), Mount Holyoke; M.D. (1948), Rochester.
- †**James L. Mack**, M.D., Clinical Instructor in Medicine (1967).
B.S. (1959), Portland; M.D. (1961), St. Louis.
- †**William J. M. MacKenzie**, M.B., Ch.B., Assistant Clinical Professor of Psychiatry (1966).
M.B., Ch.B. (1946), Glasgow.
- †**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., Associate Professor of Microbiology (Primate Center) (1964).
B.A. (1953), B.S. (1957), San Francisco State; Ph.D. (1961), Oregon State.
- †**Leonora B. Manzano-Dantas**, M.D., Clinical Instructor in Medicine (1969).
M.D. (1963), University of the East (Philippines).
- †**Robert W. Marcum**, M.D., Assistant Clinical Professor of Surgery (1951).
B.S. (1934), Pacific; 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., Senior Clinical Instructor in Ophthalmology (1953).
B.A. (1938), Denver; M.D. (1942), Colorado.
- John B. Marks**, Ph.D., Associate Professor of Psychiatry (Clinical Psychology) (1968).
S.B. (1938), Chicago; M.S. (1940), Wisconsin; Ph.D. (1952), California.
- Victor C. Marquardt, Jr.**, M.D., Associate 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.
- Nancy R. Marshall**, Ph.D., Assistant Professor of Speech Pathology, Crippled Children's Division (1966).
B.S. (1958), Portland State; M.Ed. (1959), Portland; Ph.D. (1967), Oregon.
- †**Don Denman Martin**, M.D., Clinical Instructor in Dermatology (1969).
B.A. (1958), Texas Christian; M.D. (1962), Baylor.
- †**Marian M. Martin**, M.P.H., Senior Clinical Instructor in Public Health and Preventive Medicine (1967).
B.A. (1941), Reed; M.P.H. (1958), California.
- †**Harry W. Masenhimer, Jr.**, M.D., Clinical Instructor in Medicine (1960).
B.A. (1949), Princeton; M.D. (1953), Johns Hopkins.
- †**Herbert E. Mason**, M.D., Instructor in Medicine (Veterans Hospital) (1969).
B.A. (1937), Reed; M.D. (1939), Oregon.
- ***Howard S. Mason**, Ph.D., Professor of Biochemistry (1952).
B.S. (1935), M.S. (1936), Ph.D. (1939), Massachusetts Institute of Technology.

† Volunteer.

‡ Part-time.

* Leave of absence September 1, 1969 to August 31, 1970.

*MEDICAL
SCHOOL
FACULTY*

- †**James A. Mason**, M.D., Senior Clinical Instructor in Orthopedics (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., Associate Clinical Professor of 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., Professor of Medical Psychology (1957).
B.A. (1948), Brown; M.S. (1952), Ph.D. (1955), Washington University.
- Richard J. Mathewson**, D.D.S., Assistant Professor, Crippled Children's Division (1968).
B.A. (1961), Central Michigan; D.D.S. (1959), Michigan.
- †**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.
- ‡**Robert H. Mattson**, D.Ed., Professor, Crippled Children's Division (1967).
B.A. (1949), Montana; M.A. (1950), Iowa; D.Ed. (1959), Oregon.
- †**Gordon L. Maurice**, M.D., Assistant Clinical Professor of Medicine (1949).
B.S. (1940), Washington State; M.D. (1943), Oregon.
- †**John Arthur May**, M.D., Associate Clinical Professor of Pediatrics (1948).
B.A. (1939), University of Washington; M.D. (1943), Oregon.
- †**Roland M. Mayer**, M.D., Clinical Instructor in Surgery (1967).
B.S. (1944), South Dakota; M.D. (1946), Northwestern.
- ‡**Thomas L. Meador**, M.D., Assistant Clinical Professor of 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., Assistant Clinical Professor of 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., 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).
- †**Walter E. Meihoff**, M.D., Clinical Assistant in Medicine (1967).
B.S. (1956), M.D. (1959), Oregon.
- Clifford S. Melnyk**, M.D., Assistant Professor of Medicine (1967).
M.D. (1959), British Columbia.

† Volunteer.

‡ Part-time.

FACULTY

- Victor D. Menashe, M.D.**, Professor and Assistant Director of Crippled Children's Division, Associate Professor of Pediatrics (1958).
B.S. (1951), M.D. (1953), Oregon.
- Robert A. Mendelson, M.D.**, Assistant Clinical Professor of 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.
- Ralph G. Merrill, M.Sc.D.**, Associate Clinical Professor of Dentistry (1968).
D.D.S. (1959), University of Washington; M.Sc.D. (1963), Boston.
- 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.**, Associate Professor of Microbiology (1958).
A.B. (1949), California; M.S. (1953), Purdue; Sc.D. (1958), Johns Hopkins.
- James V. Meyer, M.D.**, Clinical Instructor in Surgery (1965).
B.A. (1948), M.D. (1953), Texas.
- Sam L. Meyer, M.D.**, Assistant Professor of Ophthalmology (1968).
B.S. (1957), Portland State; M.D., M.S. (1961), Oregon.
- Werner P. Meyn, M.D.**, Clinical Instructor in Pediatrics (1967).
A.B. (1939), Augustana; B.S. (1941), Missouri; M.D. (1943), St. Louis.
- Robert D. Michel, M.D.**, Associate Professor of Medicine (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), Iowa.
- David B. Miller, Jr., M.D.**, Senior Clinical Instructor in Surgery (1959).
B.A. (1949), Dartmouth; M.D. (1953), New York University.
- Michael J. Miller, M.D.**, Assistant Professor of Pediatrics (1967).
B.S. (1955), Santa Clara; M.D. (1960), Oregon.
- Robert S. Miller, M.D.**, Associate Clinical Professor of Diagnostic Radiology (1960).
B.A. (1951), Willamette; M.D. (1955), Oregon.
- Laurence W. Mills, B.S.**, Instructor in Research Instrument Service (Good Samaritan Hospital) (1968).
B.S. (1958), Oregon.
- Victor Milstein, Ph.D.**, Assistant Professor of Neurology (1966).
B.A. (1951), Brooklyn; M.A. (1952), City College of New York; Ph.D. (1959), Oregon.
- John C. Misko, M.D.**, Clinical Instructor in Neurosurgery (1969).
B.S. (1954), M.D. (1958), Oregon.
- Joseph C. Mitchell, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1958).
B.A. (1951), M.D. (1952), Oregon.
- 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.

*MEDICAL
SCHOOL
FACULTY*

- †**E. Albert Moody**, M.D., Clinical Instructor in Pediatrics (1966).
A.B. (1939), California; M.D. (1943), Rochester.
- †**David W. Moore**, M.D., Clinical Instructor in Obstetrics and Gynecology (1953).
M.D. (1947), Western Reserve.
- †**Raymond E. Moore**, M.D., Clinical Instructor in Psychiatry and Orthopedics (Physical Medicine) (1958).
B.A. (1951), Reed; M.D. (1953), Oregon.
- Richard D. Moore**, M.D., Professor of Pathology; Chairman of Department (1969).
M.D. (1947), Western Reserve.
- †**Robert J. Moore**, M.D., Associate Clinical Professor of Urology (1960).
B.A. (1951), M.D. (1955), Oregon.
- Clarence L. Morgan**, M.D., Assistant Professor of Pediatrics (1967).
B.S. (1954), Tufts; M.D. (1958), Harvard.
- Alan L. Morgenstern**, M.D., Associate Professor of 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.
- Robert Morris**, B.S., Instructor, Research Instrument Service (1968).
B.S. (1964), Portland State.
- †**Thomas E. Morris, Jr.**, M.D., Assistant Clinical Professor of Medicine (1960).
B.A. (1938), Pacific; M.D. (1952), Oregon.
- †**Carl V. Morrison**, M.D., Associate Clinical Professor of Psychiatry (1947).
M.D. (1933), Iowa.
- William E. Morton**, M.D., Dr. P.H., Associate Professor of Public Health and Preventive Medicine (1967).
B.S. (1952), Puget Sound; M.D. (1955), University of Washington; M.P.H. (1960), Dr.P.H. (1962), Michigan.
- †**Donald G. Moyer**, M.D., Assistant Clinical Professor of Dermatology (1967).
B.S. (1952), M.D. (1955), Minnesota.
- †**Robert L. Mueller**, M.D., Assistant Clinical Professor of Diagnostic Radiology (1968).
B.S. (1946), M.D. (1948), Oregon.
- †**L. Lee Murdoch**, M.D., Clinical Instructor in Pediatrics (1967).
B.A. (1957), Doane; M.D. (1960), Nebraska.
- †**John J. Murphy**, M.D., Senior Clinical Instructor in Medicine (1948).
B.A. (1938), Carroll; M.D. (1942), Michigan.
- †**Paul B. Myers**, M.D., Assistant Clinical Professor of Otolaryngology (1950).
B.A. (1944), Oregon State; M.D. (1946), Oregon.
- †**Fred C. Nachtigal**, M.D., Clinical Instructor in Medicine (1969).
B.A. (1949), B.S. (1953), M.D. (1953), Minnesota.
- †**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., Associate Clinical Professor of Pediatrics (1954).
B.S. (1945), M.D. (1948), Oregon.
- †**Jack Naylor**, M.D., Clinical Instructor in Surgery (1965).
B.A. (1951), Reed; M.S. (1952), Illinois Institute of Technology; M.D. (1957), Oregon.

- William A. Neill, M.D.**, Associate 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; M.D. (1938), Oregon.
- C. Donald Nelson, Ph.D.**, Assistant Professor, Crippled Children's Division (1966).
B.S. (1953), M.S. (1957), Utah; Ph.D. (1965), University of Washington.
- †**Gunnar E. C. Nelson, M.D.**, Associate Clinical Professor of Obstetrics and Gynecology (1937).
Ph.G. (1923), B.S. (1925), Washington State; M.D. (1933), Oregon.
- †**Marilyn A. Nelson, M.D.**, Assistant Clinical Professor of Pediatrics (1963).
B.S. (1956), Lewis and Clark; M.D. (1959), Oregon.
- Burritt W. Newton, M.D.**, Assistant Professor of Obstetrics and Gynecology (1968).
B.A. (1957), Ohio State; M.D. (1961), Western Reserve.
- †**Gregory B. Nichols, M.D.**, Clinical Instructor in Diagnostic Radiology (1950).
M.D. (1943), Creighton.
- †**H. Minor Nichols, M.D.**, Senior Clinical Instructor in Surgery (1940).
Ph.B. (1930), Yale; M.D. (1934), Oregon; M.S. (1937), Pennsylvania.
- Kenneth A. Niehans, B.A.**, Director of Public Affairs; Assistant Professor (1963).
B.A. (1957), Oregon.
- Nelson R. Niles, M.D.**, Professor of Pathology (1952).
M.D. (1947), Cornell.
- †**Lawrence Noall, M.D.**, Associate Clinical Professor of Orthopedics (1941).
B.A. (1931), B.M. (1934), Utah; M.D. (1936), Northwestern.
- †**James S. Noble, M.D.**, Clinical Instructor in Pediatrics (1968).
B.A. (1959), M.S., M.D. (1962), Oregon.
- †**Joseph E. Nohlgren, M.D.**, Associate Clinical Professor of Pathology (1949).
B.S. (1935), South Dakota State; M.D. (1943), Oregon.
- James H. O'Brien, Ph.D.**, Assistant Professor of Medical Psychology (1968).
B.A. (1959), M.A. (1963), Ph.D. (1966), Michigan.
- †**Ralph D. Odell, M.D.**, Clinical Instructor in Surgery (1968).
B.S. (1940), Northwestern; M.A. (1941), Michigan; B.A. (1943), M.D. (1947), Oregon.
- Evelyn L. Oginsky, Ph.D.**, Professor of Microbiology (1957).
B.A. (1938), Cornell; M.S. (1939), Chicago; Ph.D. (1946), Maryland.
- †**John D. O'Hollaren, M.D.**, Assistant Clinical Professor of Medicine (1959).
B.S. (1945), M.D. (1947), Oregon.
- †**Jay F. O'Leary, M.D.**, Clinical Instructor in Pediatrics (1967).
A.B. (1954), Harvard; M.D. (1958), University of Washington.
- Richard W. Olmsted, M.D.**, Professor of Pediatrics; Chairman of Department (1962).
B.A. (1941), Dartmouth; M.D. (1944), Harvard.
- †**Thomas E. Olsen, M.D.**, Clinical Instructor in Pediatrics (1969).
B.S. (1960), Lewis and Clark; M.D. (1964), Oregon.
- †**Donald E. Olson, M.D., Ph.D.**, Assistant Clinical Professor of Medicine (1955).
B.A. (1943), Reed; M.S., M.D. (1947), Ph.D. (1948), Oregon.
- †**Donald Roy Olson, M.D.**, Clinical Instructor in Medicine (1969).
B.A. (1959), Carroll; M.D. (1963), Oregon.

† Volunteer.

*MEDICAL
SCHOOL
FACULTY*

- †**William R. Olson**, M.D., Clinical Instructor in Medicine (1961).
B.S. (1950), M.D. (1954), Creighton.
- †**Robert W. Olwine**, M.D., Clinical Instructor in Surgery (1968).
A.B. (1953), Hamilton; M.D. (1957), Virginia.
- †**James R. Orendurff**, M.D., Assistant Professor of Pathology (Veterans Hospital) (1964).
B.A. (1950), M.A. (1954), M.D. (1959), Oregon.
- †**Samuel Osborn**, M.D., Clinical Instructor in Orthopedics (1958).
B.S. (1942), Michigan State; M.D. (1945), Michigan.
- †**Samuel B. Osgood**, M.D., Associate Clinical Professor of 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; Chairman of Department (1961).
B.S. (1944), Randolph Macon; M.D. (1947), Medical College of Virginia; M.P.H. (1951), North Carolina.
- †**Arthur L. Ovregaard**, M.D., Associate Clinical Professor of Diagnostic Radiology (1954).
B.A. (1944), College of Idaho; M.D. (1948), Oregon.
- †**Albert A. Oyama**, M.D., Assistant Clinical Professor of Pathology and Clinical Pathology (1959).
B.S. (1951), M.D. (1953), Oregon.
- †**Otto C. Page**, M.D., Associate Clinical Professor of Medicine (1952).
B.S. (1941), M.D. (1944), Boston.
- †**Robert N. Page, Jr.**, M.D., Clinical Instructor in Ophthalmology (1967).
B.A. (1955), M.D. (1959), Virginia.
- †**Marion E. Palmer**, M.D., Clinical Instructor in Anesthesiology (1950).
B.S. (1938), Stanford; M.D. (1944), Washington University.
- †**Edwin G. Palmrose**, M.D., Clinical Instructor in Medicine (1969).
B.S. (1942), M.D. (1944), Oregon.
- †**James L. Palotay**, D.V.M., Associate Clinical Professor of Pathology (1968).
D.V.M. (1950), Kansas State; M.S. (1958), Colorado State.
- †**Kenneth G. Paltrow**, M.D., Clinical Instructor in Psychiatry (1967).
B.A. (1954), Cornell; M.D. (1958), New York Medical College.
- †**Richard P. Panian**, M.D., Clinical Instructor in Otolaryngology (1965).
B.S. (1952), Oregon State; M.D. (1960), Oregon.
- †**Richard O. Panzer**, M.D., Clinical Instructor in Psychiatry (1968).
B.S. (1959), Oregon State; M.D. (1962), 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; Assistant Professor (1962).
B.B.A. (1953), Oregon; M.Sc. (1954), New York University; LL.B. (1962), Northwestern College of Law.
- †**Richard B. Parker**, Ph.D., Associate Professor of Microbiology (Dental School) (1969).
B.S. (1950), M.S. (1952), Ph.D. (1956), Oregon State.
- †**Robert S. Parker**, D.M.D., Associate Clinical Professor of Dentistry (1966).
D.M.D. (1939), Oregon.

- Rose Marie Parker**, Instructor in Clinical Pathology (Medical Technology) (1967).
- † **Philip F. Parshley, Jr., M.D.**, Assistant Clinical Professor of Surgery (1964).
A.B. (1953), Dartmouth; M.D. (1956), Harvard.
- † **John W. Partridge, M.D.**, Senior Clinical Instructor in Medicine (1957).
B.S. (1943), M.D. (1945), Chicago.
- † **Guy A. Pavaresh, M.D.**, Associate Clinical Professor of Psychiatry (1965).
M.D. (1956), Tehran (Iran).
- † **Robert W. Patton, M.D.**, Clinical Instructor in Surgery (1951).
B.S. (1936), St. Martin's; M.D. (1942), Creighton.
- † **David P. Paul, M.D.**, Assistant Clinical Professor of Urology (1953).
B.A. (1942), Antioch; M.D. (1945), Western Reserve.
- † **Duane R. Paulson, D.D.S.**, Clinical Professor of Dentistry (1957).
B.S. (1949), Puget Sound; D.D.S. (1954), Northwestern.
- Ira B. Pauly, M.D.**, Associate Professor of Psychiatry (1962).
B.A. (1954), M.D. (1958), U.C.L.A.
- Harold D. Paxton, M.D.**, Professor of Neurosurgery; Head of Division (1956).
M.D. (1948), Johns Hopkins.
- † **Roy A. Payne, M.D.**, Assistant Clinical Professor of Medicine (1960).
B.S. (1953), 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.
- † **George A. Peirson, M.D.**, Clinical Instructor in Orthopedics (Physical Medicine) (1966).
B.A. (1945), Oregon State; M.D. (1947), Oregon.
- † **Anne M. Perley, M.A.**, Assistant Professor of Biochemistry (Primate Center) (1951).
B.A. (1927), Grinnell; M.A. (1929), Nebraska.
- † **Frank Perlman, M.D.**, Clinical Professor of Medicine (1935).
B.S. (1931), M.D. (1933), Wisconsin.
- † **Bruce A. Peters, M.D.**, Clinical Instructor in Anesthesiology (1968).
B.S. (1957), Oregon State; M.D. (1961), Oregon.
- Walter A. Petersen, M.S.**, Assistant Professor of Physiology (1968).
B.S. (1957), California Institute of Technology; M.S. (1968), Portland State.
- Clare G. Peterson, M.D.**, Professor of Surgery (1944).
B.A. (1939), M.D. (1943), M.S. (1945), Oregon.
- † **Heyes Peterson, M.D.**, Assistant Clinical Professor of Medicine (1947).
B.S. (1934), University of Washington; M.D. (1938), 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.
- † **Ronald W. Philips, M.D.**, Clinical Instructor in Diagnostic Radiology (1966).
B.S. (1950), Pepperdine; M.D. (1955), College of Medical Evangelists (Loma Linda).

*MEDICAL
SCHOOL
FACULTY*

- David S. Phillips**, Ph.D., Associate Professor of Medical Psychology (1963).
A.B. (1958), Wabash; M.S. (1960), Ph.D. (1962), Purdue.
- Jeanne S. Phillips**, Ph.D., Associate Professor of Psychiatry (1957).
A.B. (1951), Ph.D. (1957), Washington University.
- † **Richard H. Phillips**, M.D., Assistant Clinical Professor of Psychiatry (1964).
B.S. (1959), Portland State; M.D. (1960), Oregon.
- ‡ **Charles H. Phoenix**, Ph.D., Professor of Medical Psychology (Primate Center) (1965).
B.A. (1945), Connecticut; M.A. (1950), Ph.D. (1954), Boston.
- † **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., Professor of Medicine; Head of Division of Immunology, Allergy, and Infectious Diseases (1956).
A.B. (1946), M.D. (1950), New York University.
- † **Robert G. Pittenger**, M.D., Senior Clinical Instructor in Medicine (1957).
B.S. (1948), M.D. (1950), Oregon.
- † **James M. Pomeroy**, M.D., Assistant Clinical Professor of Pediatrics (1966).
B.S. (1936), M.D. (1941), Louisiana State.
- Caroline H. Pommarane**, B.S., Registrar; Associate Professor (1943).
B.S. (1928), Nebraska.
- † **John Karl Poppe**, M.D., Senior Clinical Instructor in Cardiopulmonary Surgery (1946).
A.B. (1933), Hamilton; M.D. (1937), Rochester.
- † **Donald R. Porter**, D.D.S., Clinical Professor of Dental and Oral Medicine (1953).
D.D.S. (1951), M.S. (1953), Michigan.
- George A. Porter**, M.D., Associate 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.
- † **Robert H. Post**, M.D., Clinical Instructor in Orthopedics (1968).
A.B. (1956), Princeton; M.D. (1960), Cornell.
- † **Edward Press**, M.D., Clinical Professor of Pediatrics and Public Health and Preventive Medicine (1968).
B.A. (1934), Ohio; M.D. (1937), New York University; M.P.H. (1947), Harvard.
- † **Gerald H. Prescott**, D.D.S., Assistant Clinical Professor of Medical Genetics and Experimental Medicine (1968).
B.S. (1959), College of Idaho; D.D.S. (1964), Washington University; M.S. (1966), Indiana.
- † **William E. Purnell**, M.D., Clinical Instructor in Diagnostic Radiology (1966).
M.D. (1948), Boston.
- † **Irving Puziss**, M.D., Clinical Instructor in Surgery (1956).
B.S. (1946), M.D. (1948), Oregon.
- † **William J. Pynch**, M.D., Clinical Instructor in Psychiatry (1967).
B.A. (1947), British Columbia; M.D. (1951), Oregon.

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- †**Robert Quinton-Cox**, Ph.D., Assistant Professor of Anatomy (Dental School) (1968).
 F.I.M.L.T. (1954), Sir John Mass (London); I.N.T.B.Sc. (1956), Woolwich Poly (London); Ph.D. (1963), Emory.
- 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 (1937).
 B.A. (1926), M.D. (1930), Stanford; M.S. (1935), Ph.D. (1941), Minnesota.
- †**James Richard Raines**, M.D., Associate Clinical Professor of Diagnostic 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 Pathology (Cytotechnology) (1959).
 B.S. (1951), Portland.
- †**Robert M. Rankin**, M.D., Clinical Instructor in Orthopedics (1954).
 B.A. (1944), Reed; M.D. (1946), Oregon.
- †**Robert E. Ransmeier**, M.D., Ph.D., Assistant Clinical Professor of Psychiatry (1965).
 B.S. (1945), M.Sc. (1949), Ph.D. (1953), Chicago; M.D. (1957), Colorado.
- Abdel L. Rashad**, M.D., Ph.D., Assistant Professor of Clinical Pathology (1969).
 M.D. (1959), Cairo; M.S., Ph.D. (1966), University of Washington.
- †**Michael R. Rask**, M.D., Clinical Instructor in Orthopedics (1965).
 B.S. (1952), Oregon State; M.D. (1955), Oregon.
- L. Paul Rasmussen**, M.D., Professor of Pediatrics; Professor, Crippled Children's Division (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., Assistant Clinical Professor of Medicine (1959).
 M.D. (1953), Washington University.
- †**Edgar M. Rector**, M.D., Associate Clinical Professor of Pediatrics (1946).
 S.B. (1937), Haverford; M.D. (1941), Harvard.
- †**John T. Redfield**, M.D., Clinical Instructor in Environmental Medicine (1967).
 B.A. (1954), M.D. (1957), Wisconsin; M.S. (1965), Ohio State.
- †**Daniel L. Reed**, M.D., Clinical Instructor in Surgery (1964).
 B.S. (1952), Michigan State; M.D. (1956), Michigan.
- †**Melvin M. Reeves**, M.D., Clinical Instructor in Surgery and Pharmacology (1957).
 B.S. (1943), Hamline; B.M. (1946), M.D. (1947), M.S. (1957), Minnesota.
- †**Philip J. Reilly**, M.D., Clinical Instructor in Neurology (1959).
 B.S. (1949), St. Thomas; M.D. (1953), Marquette.
- †**Gerald R. Reimer**, M.D., Clinical Instructor in Neurology (1967).
 B.S. (1963), Oklahoma State; M.D. (1963), Oklahoma.

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- †**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).
- †**John A. Resko**, Ph.D., Assistant Professor of Physiology (Primate Center) (1965).
B.A. (1955), St. Charles Seminary; M.S. (1960), Marquette; Ph.D. (1963), Illinois.
- ‡**Patrick J. Reynolds**, B.S., Instructor in Physiology (1969).
B.S. (1961), Gonzaga.
- †**Norman H. Rickles**, D.D.S., Professor of Pathology and Dentistry (Dental School) (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).
- William K. Riker**, M.D., Professor of Pharmacology; Chairman of Department (1969).
B.A. (1949), Columbia; M.D. (1953), Cornell.
- †**James A. Riley**, M.D., Assistant Clinical Professor of Medicine (1949).
B.A. (1941), Oregon State; M.D. (1943), Oregon.
- †**Robert E. Rinehart**, M.D., Senior Clinical Instructor in Medicine (1953).
B.S. (1937), Oregon State; M.S., M.D. (1942), Oregon.
- Marvin B. Rittenberg**, Ph.D., Associate Professor of Microbiology and Medicine (1966).
B.A. (1954), M.A. (1959), Ph.D. (1961), California.
- †**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., Senior Clinical Instructor in Surgery (1936).
B.A. (1929), M.D. (1932), Oregon.
- †**Peter H. R. Roberts**, M.D., Clinical Instructor in Obstetrics and Gynecology (1968).
B.S. (1959), Oregon State; M.D. (1962), Oregon.
- †**Keith A. Robertson**, M.D., Senior Clinical Instructor in Surgery (1966).
B.S. (1956), M.D. (1960), Oregon.
- Ralph D. Robertson**, M.D., Assistant Professor of 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., Senior Clinical Instructor in Orthopedics (1950).
M.D. (1930) Northwestern.
- †**Paul J. Robinson**, M.D., Clinical Instructor in Ophthalmology (1962).
B.A. (1951), Southern California; M.D. (1955), Yale.
- Nancy A. Rodich**, M.L.S., Acquisitions Librarian; Instructor (1968).
B.A. (1953), M.L.S. (1968), Oregon.
- †**Thomas L. W. Roe**, M.D., Assistant Clinical Professor of Pediatrics (1967).
B.S. (1959), Oregon State; M.D. (1961), Oregon.
- Allan L. Rogers**, B.S., Director of Animal Care Program; Assistant Professor (1961).
B.S. (1944), Connecticut.

- †**Wayne R. Rogers**, M.D., Assistant Clinical Professor of Medicine (1956).
M.D. (1947), Tennessee.
- †**Troy G. Rollins**, M.D., Assistant Clinical Professor of Dermatology (1966).
B.S. (1945), M.S. (1946), M.D. (1948), Minnesota.
- †**Donald V. Romanaggi**, M.D., Clinical Instructor in Medicine (1966).
B.S. (1956), Portland; M.D. (1960), Loyola.
- Gary J. Rood**, M.A., Administrator, Medical School Hospital; Assistant Professor (1967).
B.S. (1961), Walla Walla; M.A. (1964), Iowa.
- †**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., Associate Clinical Professor of Medicine (1956).
A.B. (1939), New York University; M.D. (1943), Georgetown.
- †**Edward E. Rosenbaum**, M.D., Clinical Professor of Medicine; Acting Head of Division of Rheumatology (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.
- Heather G. Rosenwinkel**, M.A., Reference Librarian; Assistant Professor (1965).
B.A. (1959), Bishop's University (Ontario); M.A. (1966), Minnesota.
- Benjamin B. Ross**, Ph.D., Professor of Physiology (1954).
B.S. (1949), Union; Ph.D. (1954), Rochester.
- John Clarence Roth**, M.D., Professor of Anesthesiology and Associate Professor of Pharmacology (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., Senior Clinical Instructor in Surgery (1947).
A.B. (1936), M.D. (1940), Washington University.
- †**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.
- ‡**Donald S. Rushmer**, Ph.D., Instructor in Neurology (Good Samaritan Hospital) (1969).
B.S. (1965), Antioch; Ph.D. (1969), Rochester.
- †**Paul S. Russell**, M.D., Clinical Instructor in Dermatology (1969).
B.A. (1956), M.D. (1957), Texas.
- †**Arnold Rustin**, M.D., Assistant Clinical Professor of Urology (1954).
M.D. (1950), Iowa.
- †**Bernard F. Ryan**, M.D., Assistant Clinical Professor of Dermatology (1960).
B.A. (1934), M.D. (1936), Oregon; M.S. (1945), Minnesota.
- †**Russell N. Sacco**, M.D., Clinical Instructor in Urology (1968).
B.S. (1957), M.D. (1960), Wisconsin.

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- †**Ivan L. Sandoz**, M.D., Clinical Instructor in Urology (1964).
B.Sc. (1953), M.D. (1957), Ohio State.
- George Saslow**, M.D., Ph.D., Professor of Psychiatry; Chairman of Department
Sc.B. (1926), Ph.D. (1931), New York University; M.D. (1940), Harvard.
- Makoto Sato**, M.D., Ph.D., Associate Professor of Neurosurgery (1965).
M.D. (1954), Ph.D. (1959), Iwate Medical College (Japan).
- †**George R. Satterwhite**, M.D., Associate Clinical Professor of Diagnostic Radiology (1959).
B.S. (1950), Seattle University; M.D. (1953), St. Louis.
- †**George C. Saunders**, M.D., Senior Clinical Instructor in Otolaryngology (1933).
B.S. (1923), Virginia; M.D. (1927), Washington University.
- †**James A. Saunders**, M.D., Clinical Instructor in Ophthalmology (1967).
B.S. (1957), Portland State; M.D. (1960), Oregon.
- †**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**, D.M.D., Clinical Professor of Dentistry (1950).
B.D.S. (1946), De Montmorency College of Dentistry, Lahne (India); L.D.S., R.C.S. (1947), Royal Dental Hospital, London; 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.
- †**Quinten Scherman**, M.D., Clinical Instructor in Obstetrics and Gynecology (1953).
B.A. (1942), M.A. (1943), South Dakota; M.D. (1945), Oregon.
- ||†**James R. Schimshock**, M.D., Instructor in Neurology (1968).
B.A. (1957), M.D. (1961), Minnesota.
- Alexander J. Schleuning**, M.D., Assistant Professor of Otolaryngology (1967).
B.A. (1956), Stanford; M.D. (1960), Oregon.
- †**Alfred J. Schroeder**, M.D., Clinical Instructor in Otolaryngology (1967).
B.A. (1951), Michigan State; M.D. (1957), Michigan.
- †**George J. Schunk**, M.D., Associate Clinical Professor of Pediatrics (1954).
A.B. (1943), Jamestown; B.S. (1944), North Dakota; M.D. (1946), Illinois.
- †**Marvin Schwartz**, M.D., Associate Clinical Professor of Medicine (1945).
A.B. (1935), M.D. (1939), M.S. (1945), Wayne State.
- †**Edward M. Scott**, Ph.D., Assistant Clinical Professor of Psychiatry (1968).
B.A. (1946), Notre Dame; M.S. (1951), Ph.D. (1953), Portland.
- †**William C. Scott**, M.D., Assistant Clinical Professor of Medicine (1946).
B.S. (1935), College of Idaho; B.M. (1939), M.D. (1940), Northwestern.
- Dayton R. Seabaugh, Jr.**, M.D., Assistant Professor of Urology (1969).
B.A. (1960), M.D. (1964), Missouri.
- Stephen W. J. Seager**, M.V.B., Instructor in Animal Care (1968).
B.A. (1964), M.V.B. (1966), Trinity College (Dublin).
- Arthur J. Seaman**, M.D., Professor of Medicine; Head, Division of Hematology (1948).
B.A. (1939), M.D. (1942), Cincinnati.
- Geoffrey V. F. Seaman**, Ph.D., Associate Professor of Biochemistry and Neurology (Neurochemistry) (1966).
B.Sc. (1955), Royal College of Science (London); Ph.D. (1959), Cambridge.

† Volunteer.

|| Leave of absence.

- ‡**Philip Selling**, M.D., Clinical Professor of Medicine (1946).
B.A. (1935), Reed; M.D. (1939), Oregon.
- †**Herbert J. Semler**, M.D., Assistant Clinical Professor of Medicine (1960).
B.S. (1949), University of Washington; M.S., M.D. (1953), Oregon.
- †**Will L. Senders**, M.D., Senior Clinical Instructor in Medicine (1957).
B.S. (1947), Willamette; M.D. (1950), Oregon.
- †**Joel L. Seres**, M.D., Clinical Instructor in Neurosurgery (1968).
B.S. (1954), Delaware; M.D. (1958), Jefferson.
- †**David L. Sessions**, M.D., Assistant Clinical Professor of Pediatrics; Clinical Instructor in Psychiatry (1964).
A.B. (1954), Princeton; M.D. (1958), Washington University.
- Harry Shaich**, M.S., Assistant Professor of Radiation Therapy (1962).
B.E.E. (1948), Cornell; M.S. (1958), State College, New York; M.S. (1962), Columbia.
- †**Ralph E. Shambaugh**, M.D., Assistant Clinical Professor of Medicine (1960).
M.D. (1948), Nebraska.
- †**James G. Shanklin**, M.D., Clinical Professor of Psychiatry (1952).
M.D. (1939), Indiana.
- Leonard E. Shapland**, B.A., Student Financial Aid Officer; Instructor (1968).
B.A. (1947), Linfield.
- †**John M. Shaw**, M.D., Assistant Clinical Professor of Dermatology (1959).
M.D. (1949), Michigan.
- ‡**William H. Sheldon**, M.D., Ph.D., Clinical Professor of Medicine (1951).
B.A. (1919), Brown; M.A. (1923), Colorado; Ph.D. (1925), M.D. (1933), Chicago.
- †**Ambrose B. Shields**, M.D., Senior Clinical Instructor in Surgery (1966).
B.S. (1938), M.D. (1940), Kansas.
- †**Fred C. Shipp**, M.D., Associate Clinical Professor of Diagnostic 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., Senior Clinical Instructor in Orthopedics (1945).
B.A. (1932), M.D. (1936), Oregon.
- †**A. Clair Siddall**, M.P.H., Assistant Clinical Professor of Environmental Medicine (1962).
A.B. (1949), Oberlin; M.P.H. (1953), Michigan.
- Benjamin V. Siegel**, Ph.D., Professor of Pathology (1961).
B.S. (1943), Georgia; M.A. (1937), Columbia; Ph.D. (1950), Stanford.
- †**Ranvir H. Sinanan**, M.B., Clinical Instructor in Pediatrics (1967).
M.B., B.Ch. (1960), Queen's, Belfast.
- Gretchen N. Skalbeck**, Ph.D., Assistant Professor of Speech Pathology and Audiology, Crippled Children's Division (1968).
B.S. (1952), Minnesota; M.A. (1955), Ph.D. (1963), University of Washington.
- Richard L. Sleeter**, M.D., Assistant Dean; Director of Crippled Children's Division, Professor; Professor of Pediatrics (1953).
B.A. (1940), Oregon; M.D. (1943), Washington University.
- †**Donald B. Slocum**, M.D., Assistant Clinical Professor of Orthopedics (1956).
B.S. (1932), Stanford; M.D. (1935), Oregon; M.S. (1939), Tennessee.

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- †**Richard D. Sloop**, M.D., Senior Clinical Instructor in Surgery (1965).
B.S. (1954), Oregon State; M.D., M.S. (1956), Oregon.
- Catherine A. Smith**, Ph.D., Professor of Otolaryngology (1969).
A.B. (1935), M.S. (1948), Ph.D. (1951), Washington University.
- †**Frank B. Smith**, M.D., Associate Clinical Professor of Orthopedics (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.
- **Gerald M. Smith**, Ed.D., Associate Professor, Crippled Children's Division (1969).
B.S. (1953), M.S. (1959), Oregon; Ed.D. (1964), Colorado State.
- †**John C. Smith, II**, 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., Associate 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.
- Kenneth D. Smyth**, M.D., Assistant Professor of Orthopedics in Physical Medicine; Assistant Professor of Otolaryngology (1967).
B.A. (1947), College of Idaho; M.D. (1953), Oregon.
- †**Philip A. Snedecor**, M.D., Senior 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 Orthopedics; 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., Associate 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., Senior Clinical Instructor in Cardiopulmonary Surgery (1958).
B.S. (1944), Missouri School of Mines; M.D. (1951), St. Louis.
- †**Leland Clair Spaulding**, M.D., Clinical Instructor in Surgery (1969).
B.A. (1952), Walla Walla; M.D. (1956), Loma Linda.
- †**James T. Speros**, M.D., Professor of Medicine (1940).
B.A. (1931), M.D. (1934), Oregon; M.P.H. (1941), Johns Hopkins.
- †**Edward W. Speth**, Ph.D., Clinical Instructor in Psychiatry (Psychology) (1968).
B.S. (1949), M.S. (1952), Ph.D. (1953), Pittsburgh.
- Dick B. Speight**, A.B., Assistant Registrar; Instructor (1969).
A.B. (1956), Central Michigan.

† Volunteer.
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- †**John H. Springer, M.D.**, Associate Clinical Professor of Pediatrics (1961).
B.S. (1953), 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.
- †**Thad C. Stanford, M.D.**, Clinical Instructor in Orthopedics (1965).
A.B. (1945), M.D. (1958), Michigan.
- †**Robert E. Stanton, M.D.**, Clinical Instructor in Pediatrics (1966).
B.A. (1954), M.D. (1957), California.
- Albert Starr, M.D.**, Professor of Cardiopulmonary Surgery; Head of Division (1957).
B.A. (1946), M.D. (1949), Columbia.
- †**Charles R. Starr, M.D.**, Clinical Instructor in Surgery (1968).
B.S. (1953), M.D. (1956), Wisconsin.
- †**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.**, Senior Clinical Instructor in Surgery (1951).
B.A. (1930), M.D. (1934), D.M.D. (1942), Oregon.
- Edward S. Sterling, D.D.S.**, Assistant Professor, Crippled Children's Division (1969).
B.S. (1963), D.D.S. (1965), Illinois.
- †**John W. Stephens, M.D.**, Associate Clinical Professor of Medicine (1953).
B.S. (1939), M.D. (1944), Alberta.
- Janice R. Stevens, M.D.**, Associate Professor of Neurology (1955).
B.A. (1944), Reed; M.D. (1949), Boston University.
- †**Bill Lee Stevenson, Ph.D.**, Clinical Instructor in Environmental Medicine (1968).
B.S. (1957), Texas Wesleyan; M.S. (1965), Ph. D. (1968), Oklahoma.
- †**John L. Stevenson, Jr., M.D.**, Associate Clinical Professor of Pediatrics (1957).
A.B. (1950), Stanford; M.D. (1954), Oregon.
- †**Loren W. Stille, M.D.**, Assistant Professor of Diagnostic Radiology (Veterans Hospital) (1969).
B.S. (1943), M.D. (1945), Wisconsin.
- †**Charles S. Stitt, D.D.S.**, Senior Clinical Instructor in Public Health and Preventive Medicine (1968).
B.S. (1948), Bethany; D.D.S. (1952), Pittsburgh; M.P.H. (1962), California.
- †**Gordon A. Stoney, M.D.**, Clinical Instructor in Diagnostic Radiology (1965).
B.S. (1952), M.D. (1955), Cincinnati.
- †**Henry E. Storino, M.D.**, Clinical Instructor in Neurology (1966).
B.S. (1949), Washington State; M.D. (1953), Creighton.
- Frances Judy Storrs, M.D.**, Instructor in Dermatology (1969).
B.A. (1960), Carleton; M.D. (1964), Cornell.
- William A. Stotler, Ph.D.**, Professor of Anatomy (1946).
A.B. (1935), Westminster; M.S. (1937), St. Louis; Ph.D. (1942), Cornell.
- †**Frank B. Strange, Ph.D.**, Lecturer in Medical Psychology (1968).
A.B. (1949), M.A. (1950), University of Portland; Ph.D. (1953), Washington University.

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- †**Kurt R. Straube, M.D.**, Associate Clinical Professor of Diagnostic Radiology (1960).
M.D. (1952), Vienna.
- Agnar A. Straumfjord, M.D.**, Associate Professor of Psychiatry; Director, Student Health Service (1966).
B.A. (1950), Willamette; M.S., M.D. (1955), Oregon.
- †**Esther A. Strom, M.D.**, Clinical Instructor in Medicine (1968).
B.S. (1959), M.D. (1961), Oregon.
- †**Eugene S. Sullivan, M.D.**, Clinical Instructor in Surgery (1959).
B.S. (1950), M.D. (1953), Wisconsin.
- †**Ralph R. Sullivan, M.D.**, Associate 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.
- †**Donald W. Sutherland, M.D.**, Assistant Clinical Professor of 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.
- 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.
- J. Robert Swanson, Ph.D.**, Assistant Professor of Clinical Pathology (1969).
B.S. (1961), Colorado State; Ph.D. (1965), Washington State.
- Robert E. Swanson, Ph.D.**, Associate Professor of Physiology (1961).
B.A. (1949), Ph.D. (1953), Minnesota.
- †**William R. Sweetman, M.D.**, Senior Clinical Instructor in Cardiopulmonary Surgery (1953).
B.A. (1940), M.D. (1943), Yale.
- †**William J. Swett, M.D.**, Assistant Clinical Professor of Medicine (1938).
B.A. (1928), Reed; M.D. (1932), Oregon.
- †**Thomas E. Talbot, M.D.**, Assistant Clinical Professor of Ophthalmology (1953).
B.S. (1942), Oregon State; M.D. (1945), Oregon.
- †**K. Nolan Tanner, M.D., Ph.D.**, Senior Clinical Instructor in Ophthalmology (1964).
B.A. (1943), Reed; Ph.D. (1950), Rochester; M.D. (1960), Oregon.
- Ralph D. Tanz, Ph.D.**, Associate Professor of Pharmacology (1969).
B.A. (1948), Rochester; Ph.D. (1958), Colorado.
- †**John W. Tarnasky, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1968).
B.S. (1958), Portland State; M.D. (1961), Oregon.
- †**Donald E. Tatum, M.D.**, Clinical Instructor in Medicine (1966).
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.
- Joe W. Templeton, Ph.D.**, Assistant Professor of Medical Genetics (1968).
B.S. (1964), Abilene Christian; Ph.D. (1968), Oregon State.

- †**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., Assistant Professor of Medical Psychology; Assistant Professor, Crippled Children's Division (1965).
B.A. (1959), Taylor; M.A. (1961), Ph.D. (1965), Michigan State.
- †**Louis G. Terkla**, D.M.D., Clinical Professor of Dentistry, Head of Division (1967).
D.M.D. (1952), Oregon.
- †**Gerald A. Terman**, M.D., Clinical Instructor in Ophthalmology (1963).
B.A. (1951), Chicago; M.D. (1957), Northwestern.
- Marian S. Thomas**, B.S., Instructor in Medical Technology (1969).
B.S. (1965), Southern Oregon; M.T. (A.S.C.P.) (1965).
- †**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., Assistant Professor of Anesthesiology (1963).
B.S. (1956), Lewis and Clark; M.D. (1959), Oregon.
- †**John W. Thompson**, M.D., Clinical Instructor in Orthopedics (1967).
B.A. (1955), Reed; M.D. (1959), Oregon.
- †**Richard Thompson**, M.D., Clinical Professor of Clinical Pathology (1968).
A.B. (1920), Oregon; M.D. (1924), Columbia.
- †**Robert E. Thornfeldt**, M.D., Assistant Clinical Professor of Pediatrics (1963).
B.S. (1942), Washington State; M.D. (1945), Northwestern.
- †**Thomas L. Thornton**, M.D., Clinical Instructor in Obstetrics and Gynecology (1968).
B.S. (1958), M.D. (1961), Oregon.
- †**Robert Thune**, M.D., Instructor in Medicine (Tuberculosis Hospital) (1969).
M.D. (1958), Zagreb (Yugoslavia).
- †**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., Assistant Professor of Psychiatric Social Work (1964).
B.S. (1955), Portland; M.S.W. (1959), St. Louis.
- †**William E. Tracy**, D.D.S., Assistant Clinical Professor of Dentistry and Pediatrics (1966).
D.D.S. (1956), Tennessee.
- 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.
- †**John P. Trommald**, M.D., Assistant Clinical Professor of Surgery (1939).
B.S. (1929), Yale; M.D. (1933), Harvard.
- †**E. Dale Trout**, D.Sc., Clinical Professor of Diagnostic Radiology (1966).
B.S. (1922), D.Sc. (Hon.) (1950), Franklin College.

*MEDICAL
SCHOOL
FACULTY*

- Emily Tufts, M.D.**, Assistant Professor of Pediatrics (1965).
B.A. (1946), North Carolina; M.D. (1950), M.S. (1954), Temple.
- †**John E. Tuhy, M.D.**, 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.S. (1945), Reed; M.S. (1943), Ph.D., M.D. (1944), Oregon.
- †**Peter Tyerman, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1969).
B.A. (1957), Oregon; M.D. (1961), George Washington
- †**Hugo Uhland, M.D.**, Clinical Instructor in Medicine (1966).
B.A. (1958), Omaha; M.D. (1961), Nebraska.
- †**Alvin O. Uhle, M.D.**, Senior Clinical Instructor in Surgery (1955).
B.S. (1945), Portland; M.D. (1947), Northwestern.
- †**Franklin J. Underwood, M.D.**, Clinical Professor of Medicine (1937).
M.D. (1933), Harvard.
- †**Mary S. Urry, M.B., Ch.B.**, Clinical Instructor in Pediatrics (1969).
M.B., Ch.B. (1960), Manchester (England).
- †**Theodore P. Utt, M.D.**, Clinical Instructor in Psychiatry (1969).
B.A. (1947), Pacific Union; M.D. (1953), Loma Linda.
- 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.
- †**Clemens W. Van Rooy, M.D.**, Associate Clinical Professor of Pediatrics (1958).
M.D. (1948), St. Louis.
- †**Charles Varga, M.D.**, Associate Clinical Professor of Pediatrics (1956).
B.S. (1939), Rutgers; M.D. (1944), New York Medical College.
- Lyle Veazie, Ph.D.**, Professor of Microbiology, Parasitology (1942).
B.A. (1928), M.A. (1930), Ph.D. (1947), Oregon.
- William R. Vermeere, B.S.**, Instructor in Radiation Biology (1969).
B.S. (1965), B.S. (1966), Oregon State.
- Jack A. Vernon, Ph.D.**, Professor of Otolaryngology and Medical Psychology (1966).
A.B. (1948), M.A. (1950), Ph.D. (1952), Virginia.
- Albert F. C. Vervoet, M.D.**, Instructor in Medicine (1967).
M.D. (1961), Leiden (The Netherlands).
- †**R. Mark Vetto, M.D.**, 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.
- †**James Wade, M.Ed.**, Clinical Instructor in Psychiatry (1967).
B.A. (1951), U.C.L.A.; M.Ed. (1966), Oregon.
- Marie K. Wagner, B.S.**, Circulation Librarian; Assistant Professor (1954).
B.S. (1940), State Teachers College at West Chester.
- †**Sheldon A. Walker, M.D.**, Clinical Professor of Dermatology (1955).
M.D. (1942), Iowa.

- †**George F. Walliker, Jr., M.D.**, Associate Clinical Professor of Pediatrics (1949).
A.B. (1938), Nebraska; B.S. (1940), Portland; M.D. (1944), Tennessee.
- ‡**John R. Walsh, M.D.**, Professor of Medicine (Veterans Hospital) (1960).
B.S. (1943), M.D. (1945), M.Sc.Med. (1951), Creighton.
- Charles L. Waltemath, M.D.**, Assistant Professor of Anesthesiology (1968).
B.A. (1956), M.D. (1960), Missouri.
- †**Hans G. Wandel, M.D.**, Associate Clinical Professor of Diagnostic Radiology (1964).
B.A. (1948), Falkschule, Berlin; M.D. (1956), Freie Universitaet, Berlin.
- †**Gerald L. Warnock, M.D.**, Associate Clinical Professor of Diagnostic Radiology (1964).
B.A. (1954), Reed; M.D. (1958), Oregon.
- †**John H. Waterman, M.D.**, Associate Clinical Professor of Psychiatry (1967).
A.B. (1944), Park; B.Sc. (1929), M.D. (1933), Nebraska.
- †**Charles W. Watkins, M.D.**, Assistant Clinical Professor of Dermatology (1958).
B.A. (1948), Montana State University; M.D. (1951), St. Louis; M.S. (1958), Minnesota.
- ‡**James MacD. Watson, M.D.**, Associate Clinical Professor of Neurology (1966).
B.S. (1946), Idaho; M.D. (1949), Chicago.
- †**Edward E. Wayson, M.D.**, Associate Clinical Professor of Surgery (1952).
A.B. (1939), Dartmouth; M.D. (1943), Michigan.
- †**Jerome C. Weeber, M.D.**, Clinical Instructor in Urology (1966).
B.A. (1955), M.D. (1958), Iowa.
- †**Linton G. Weed, M.D.**, Senior Clinical Instructor in Surgery (1965).
B.S. (1951), M.D. (1954), Wisconsin.
- Virginia L. Weimar, Ph.D.**, Associate Professor of Ophthalmology and Pathology (1962).
B.S. (1944), M.S. (1947), Oregon State; Ph.D. (1951), Pennsylvania.
- Curtis E. Weiss, Ph.D.**, Assistant Professor of Speech Pathology, Crippled Children's Division (1968).
B.S. (1958), Dickinson; M.Ed. (1962), Oregon; Ph.D. (1968), Missouri.
- Herbert A. Wendel, M.D.**, Associate Professor of Pharmacology (1969).
Physikum (1935), Heidelberg; Med. Nat'l. Exam. (1939), Berlin.
- †**Alvin D. Wert, M.D.**, Clinical Professor of Pediatrics (1946).
A.B. (1937), Colgate; M.D. (1941), Minnesota.
- †**William B. Wescott, D.M.D.**, Professor of Pathology (Dental School) (1966).
D.M.D. (1951), M.S. (1962), Oregon.
- †**Gerald F. Whitlock, M.D.**, Assistant Clinical Professor of 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.**, Professor of Medical Psychology (1958).
B.A. (1948), M.A. (1952), Kansas; Ph.D. (1956), Portland.
- †**John B. Wild, M.D.**, Assistant Clinical Professor of Medicine (1963).
M.B., B.S. (1946), St. Mary's Hospital, London; M.D. (1949), London.
- †**Cameron J. Wiley, M.D.**, Clinical Instructor in Diagnostic Radiology (1965).
B.S. (1955), M.D. (1957), Oregon.

† Volunteer.
‡ Part time.

*MEDICAL
SCHOOL
FACULTY*

- †**James W. Wiley, M.D.**, Clinical Instructor in Surgery (1948).
M.D. (1933), Oregon.
- James A. Wilkinson, B.S.**, Instructor in Clinical Pathology (Medical Technology) (1966).
B.S. (1963), Oregon.
- Christopher P. S. Williams, M.D.**, Associate Professor, Crippled Children's Division; Associate Professor of Pediatrics (1968).
B.A. (1953), M.D. (1958), Oregon.
- †**Oscar K. Williams, M.D.**, Clinical Instructor in Diagnostic Radiology (1968).
B.S. (1939), Oregon; M.D. (1946), St. Louis.
- †**Charles P. Wilson, M.D.**, Assistant Clinical Professor of Medicine (1929).
A.B. (1920), Reed; M.D. (1924), Johns Hopkins.
- †**Frank M. Wilson, D.M.D.**, Associate Clinical Professor of Dentistry (1969).
B.S. (1950), Oregon State; D.M.D. (1955), Oregon.
- †**Nathaniel D. Wilson, M.D.**, Assistant Clinical Professor of Surgery (1953).
B.S. (1936), Wheaton; B.M. (1940), M.D. (1941), Northwestern.
- †**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.
- †**Robert A. Wise, M.D.**, Clinical Professor of Surgery (1947).
B.A. (1922), M.D. (1925), Columbia.
- †**David M. Witter, D.D.S.**, Clinical Instructor in Public Health and Preventive Medicine (1967).
D.D.S. (1934), Nebraska; M.P.H. (1951), Michigan.
- †**Gordon F. Wolfe, M.D.**, Clinical Instructor in Medicine (1959).
B.S. (1942), M.D. (1954), Illinois.
- †**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.
- Herbert M. Woodcock, M.D.**, Assistant Professor of Child Psychiatry and Pediatrics (1969).
B.S. (1943), Idaho; M.D. (1945), Oregon.
- Florence E. Woodworth, B.S.**, Instructor in Pathology (Cytology) (1967).
B.S. (1957), Oregon.
- †**James V. Woodworth, M.D.**, Clinical Instructor in Medicine; Associate Clinical Professor of Dentistry (1952).
A.B. (1944), Whitman; M.D. (1946), Oregon.
- †**LeGrande H. Woolley, D.D.S.**, Senior Clinical Instructor in Dentistry (1966).
D.D.S. (1958), Missouri; M.S. (1966), Oregon.
- †**Ralph D. Worthylake, M.D.**, Clinical Instructor in Psychiatry (1967).
M.D. (1949), Oregon.
- †**Wellesley H. Wright, D.D.S., M.S.D.**, Associate Clinical Professor of Dentistry (1969).
B.A. (1962), D.D.S. (1959), University of Washington; M.S.D. (1963), Baylor.

† Volunteer.
‡ Part time.

FACULTY

- †**Donald M. Wysham, M.D.**, Senior Clinical Instructor in Medicine (1969).
B.A. (1949), Princeton; M.D. (1953), Harvard.
- *†**Maximo C. Yao, M.D.**, Clinical Instructor in Pediatric Neurology (1968).
B.S. (1960), M.D. (1960), Philippines.
- Norton B. Young, Ph.D.**, Associate Professor of Speech Pathology and Audiology, Crippled Children's Division; Associate Professor of Pediatrics (Audiology) (1960).
B.S. (1950), M.A. (1953), University of Washington; Ph.D. (1957), Purdue.
- †**Eldon W. Younger, M.D.**, Clinical Instructor in Pediatrics (1967).
B.S. (1960), Oregon State; M.D. (1962), Oregon.
- ‡**Robert W. Zeller, M.D.**, Associate 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.
- Charles J. Zerzan, Jr., M.D.**, Assistant Professor of Medicine (1968).
B.A. (1948), Willamette; M.D. (1951), Marquette.
- †**Richard C. Zimmerman, M.D.**, Clinical Instructor in Orthopedics (1964).
B.S. (1955), M.D. (1957), Oregon.
- William A. Zimmerman, B.S.**, Associate Dean for Business Affairs; Professor (1945).
B.S. (1939), Oregon.
- Lawrence S. Zivin, M.D.**, Assistant Professor of Neurology (1969).
A.B. (1956), A.M. (1958), M.D. (1962), Harvard.

† Volunteer.

‡ Part-time.

* Leave of absence.

*University of Oregon Medical School
Hospitals and Clinics*

Charles N. Holman, M.D., Dean
Michael D. Baird, M.D., Medical Director and Administrator
Jarvis Gould, M.D., Associate Medical Director and Associate Administrator
Gary J. Rood, M.A., Administrator, Medical School Hospital.
Max F. Kersbergen, M.A., Administrator, Outpatient Clinic.
Gwynn C. Brice, Administrative Director, Central Services, Hospitals and Clinics.
Clifford V. Allen, M.D., Chief of Radiation Therapy Service.
John A. Benson, Jr., M.D., Chief of Gastroenterology Service.
Ralph C. Benson, M.D., Chief of Obstetrical and Gynecological Service.
J. David Bristow, M.D., Chief of Medical Service, Medical School Hospital.
William S. Conklin, M.D., Chief of Thoracic Surgical Service.
David D. DeWeese, M.D., Chief of Otolaryngological Service.
Charles T. Dotter, M.D., Chief of Diagnostic Radiological Service.
Miles J. Edwards, M.D., Acting Chief of Chest Diseases 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.
Donald Kassebaum, M.D., Chief of Medical Service, Multnomah Hospital.
Robert D. Koler, M.D., Chief of Hematology Service.
William W. Krippaehne, M.D., Chief of Surgical Service.
Daniel H. Labby, M.D., Chief of Metabolic Diseases Service.
Walter C. Lobitz, Jr., M.D., Chief of Dermatological Service.
Ralph G. Merrill, M.Sc.D., Chief of Dental Service.
Joseph D. Matarazzo, Ph.D., Chief of Medical Psychological Service.
Richard D. Moore, M.D., Chief of Pathological Service.
Richard W. Olmsted, M.D., Chief of Pediatric Service.
Bernard Pirofsky, M.D., Chief of Immunology, Allergy, and Infectious Diseases Service.
Edward E. Rosenbaum, M.D., Acting Chief of Rheumatology Service.
George Saslow, M.D., Chief of Psychiatric Service.
Kenneth D. Smyth, M.D., Chief of Physical Medicine.
William E. Snell, M.D., Chief of Orthopedics 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., Director of Medical Social Service.
Hilda E. Drum, R.T., Chief Radiologic Technologist.
Patsy Marble, Medical Reports Supervisor.
Susan Morrow, B.A., Chief Occupational Therapist.
Karen Creason, R.R.T., Chief Record Librarian.
E. H. Empereur, B.S., Chief Pharmacist.

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

Gary J. Rood, M.A., Administrator.
B. Lee Killam, M.S., R.N., Director of Nursing Service.
Marian Allen, R.N., Assistant Night Supervisor.
Esther Appleman, R.N., Nursing Instructor, Staff Development.
Evelyn Barton, R.N., Night Supervisor.
Jean Coverstone, B.S., R.N., Medical-Surgical Supervisor.
Joanna Mally, B.S., R.N., Nursing Instructor, Staff Development.
Marian Page, R.N., Evening Supervisor.

Sarah Peterson, R.N., Psychiatric Supervisor.
 Viola Robinson, B.S., R.N., Nursing Instructor, Staff Development.
 Sylvia Sather, B.S., R.N., Operating Room Supervisor.
 Rose Schmidt, B.S., R.N., Medical-Surgical Supervisor.
 Janet Teaff, R.N., Assistant Supervisor.
 Barbara Joan Weaver, R.N., Assistant Evening Supervisor.
 Betty Weible, B.S., R.N., Pediatric Supervisor.
 Emily Malaimare, Recreational Therapist.
 Janice Berg, B.S., R.N., Adult Public Health Nurse Coordinator.
 Mary Erlandson, B.S., R.N., Pediatric Public Health Nurse Coordinator.
 Regina Mockmore, B.S., R.N., Admitting Supervisor.
 Jean Rosendahl, R.N., Inhalation Therapy Supervisor.
 Glen F. Criteser, Laundry Manager.
 Maxine Freeman, Executive Housekeeper.
 William F. Hinsz, Food Service Manager.
 Madeline Myers, Accounting Office Supervisor.
 Charles Svoboda, Storekeeper.

General Outpatient Service

Max F. Kerbsbergen, M.A., Administrator.
 Marjorie R. Merrick, B.S., Chief Admitting Officer.
 Patricia Hunsaker, B.S., R.N., P.H.N., Director of Nursing Service.
 Nancy W. Beshear, B.S., Dietitian.

Multnomah Hospital

Jarvis Gould, M.D., Administrator and Associate Medical Director.
 Michael D. Baird, M.D., Assistant Administrator and Medical Director.
 Gale Rankin, B.S., R.N., Director of Nursing Service.
 Margaret Fox, R.N., Assistant Director, Nursing Service.
 Barbara Browne, M.N., R.N., Supervisor.
 Jean Caldwell, B.S., R.N., Supervisor.
 Ardys Hokeness, B.S., R.N., Supervisor.
 June Lerma, M.S., R.N., Assistant Director of Inservice Education.
 Emma H. McWilliams, R.N., Supervisor.
 Alice Sharf, R.N., Surgical Supervisor.
 Dorothy Vossen, B.S., R.N., Supervisor.
 William E. Bennett, Maintenance Supervisor.
 Frances E. Morse, Office Manager.
 Ramona McAfee Bennett, B.S., R.N., Housekeeper.
 Ruth Mercer, M.A., Dietitian, Head Clinical Instructor in Dietetics.
 Eugene Buel, Respiratory Equipment Technician.
 Hugh Tonsfeldt, Ph.G., Pharmacist.

University State Tuberculosis Hospital

Barbara Hiatt, M.S., R.N., 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.
 Robert Thune, M.D., Physician.
 Helen Krieg, B.S., R.N., Director of Nursing Service.
 Nina Ellenburg, R.N., Assistant Director of Nursing Service.
 Nellie Nollman, R.N., Evening Supervisor.
 Eunice Bynon, R.N., Night Supervisor.
 Leona Vanderhoof, R.N., Supervisor.
 Margaret Hamley, B.S., R.N., Inservice Education Director.
 Ruth Harris, B.S., Dietician.
 Wilbur Brockway, Housekeeper.

Crippled Children's Division

- Richard L. Sleeter**, M.D., Assistant Dean; Director and Professor; Professor of Pediatrics.
- Victor D. Menashe**, M.D., Associate Director, Professor; Associate Professor of Pediatrics.
- L. Paul Rasmussen**, M.D., Professor; Professor of Pediatrics.
- Robert Boyd**, Ph.D., Professor; Professor of Medical Psychology.
- Ann M. Garner**, Ph.D., Professor; Professor of Medical Psychology.
- Herold S. Lillywhite**, Ph.D., Professor of Speech Pathology.
- Robert H. Mattson**, D.Ed., Professor; Chairman, Department of Special Education, University of Oregon.
- William E. Snell**, M.D., Professor of Orthopedics.
- Rodney K. Beals**, M.D., Associate Professor of Orthopedics.
- Robert W. Blakeley**, Ph.D., Associate Professor of Speech Pathology.
- Leroy O. Carlson**, M.D., Associate Professor; Associate Professor of Pediatrics.
- C. Conrad Carter**, M.D., Associate Professor of Neurology.
- Ralph O. Coleman, Jr.**, Ph.D., Associate Professor of Speech Pathology.
- John S. Gullikson**, D.D.S., Associate Professor; Associate Professor of Dental and Oral Medicine.
- Constance Hanf**, Ph.D., Associate Professor; Associate Professor of Medical Psychology.
- Frederick Hecht**, M.D., Associate Professor; Associate Professor of Medicine
- Elaine W. Lis**, Ph.D., Associate Professor, Nutrition.
- Norton B. Young**, Ph.D., Associate Professor of Speech Pathology and Audiology.
- Christopher P. S. Williams**, M.D., Associate Professor; Associate Professor of Pediatrics.
- Wilma L. Carson**, M.D., Assistant Professor; Assistant Professor of Pediatrics.
- Peggy Copple**, M.D., Assistant Professor; Assistant Professor of Pediatrics; Assistant Professor of Neurology.
- Jerry O. Elder**, M.A., Assistant Professor, Business Manager.
- Virginia Hatch**, B.S., Assistant Professor, Occupational Therapy.
- Everett W. Lovrien**, M.D., Assistant Professor; Assistant Professor of Pediatrics.
- David W. Macfarlane**, M.D., Assistant Professor; Assistant Professor of Pediatrics.
- Nancy R. Marshall**, Ph.D., Assistant Professor of Speech Pathology.
- Richard J. Mathewson**, D.D.S., Assistant Professor.
- Clarence L. Morgan**, M.D., Assistant Professor of Pediatrics.
- C. Donald Nelson**, Ph.D., Assistant Professor of Speech Pathology.
- Gretchen N. Skalbeck**, Ph.D., Assistant Professor of Speech Pathology and Audiology.
- Kenneth Smyth**, M.D., Assistant Professor of Orthopedics in Physical Medicine and Rehabilitation.
- Leif G. Terdal**, Ph.D., Assistant Professor; Assistant Professor of Medical Psychology.
- Curtis E. Weiss**, Ph.D., Assistant Professor of Speech Pathology.
- Laurence R. Langston**, M.D., Senior Clinical Instructor in Orthopedics.
- Lillian P. Cunningham**, M.P.H., Instructor, Nutrition.
- Jack R. Hegrenes**, M.A., Instructor.
- Ruth W. Spoerli**, M.S.S., A.C.S.W., Medical Social Consultant.
- Ruby Fields**, R.P.T., Physical Therapist.
- Dorothy M. Prinzing**, M.S., R.N., R.P.T., Nursing Consultant.

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.

FACULTY

Norman B. Henderson, Ph.D., Associate Professor of Medical Psychology.
John B. Isom, M.D., Associate Professor of Pediatrics.
L. Paul Rasmussen, M.D., Associate Professor of Pediatrics.
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Kathrine S. French, Ph.D., Assistant Professor of Anthropology, Pediatrics.
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Medicine.
Terry Chaney, Research Assistant.
Barbara Goffeney, M.A., Research Assistant in Psychology.
Agnes Kaji, Research Assistant.
Betty Sayler, R.N., Research Assistant.



7

ENROLLMENT AND DEGREES



ENROLLMENT
AND DEGREES

Degrees Conferred June 13, 1969

Doctor of Medicine

GRADUATE	INTERNSHIP
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Terrell L. Clarke.....	Tripler General Hospital, Honolulu, Hawaii
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Master of Science

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David L. von Weiss
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Lawrence Bitte
J. Michael Bowers
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 Karmen Schmidt
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 Judith Smith
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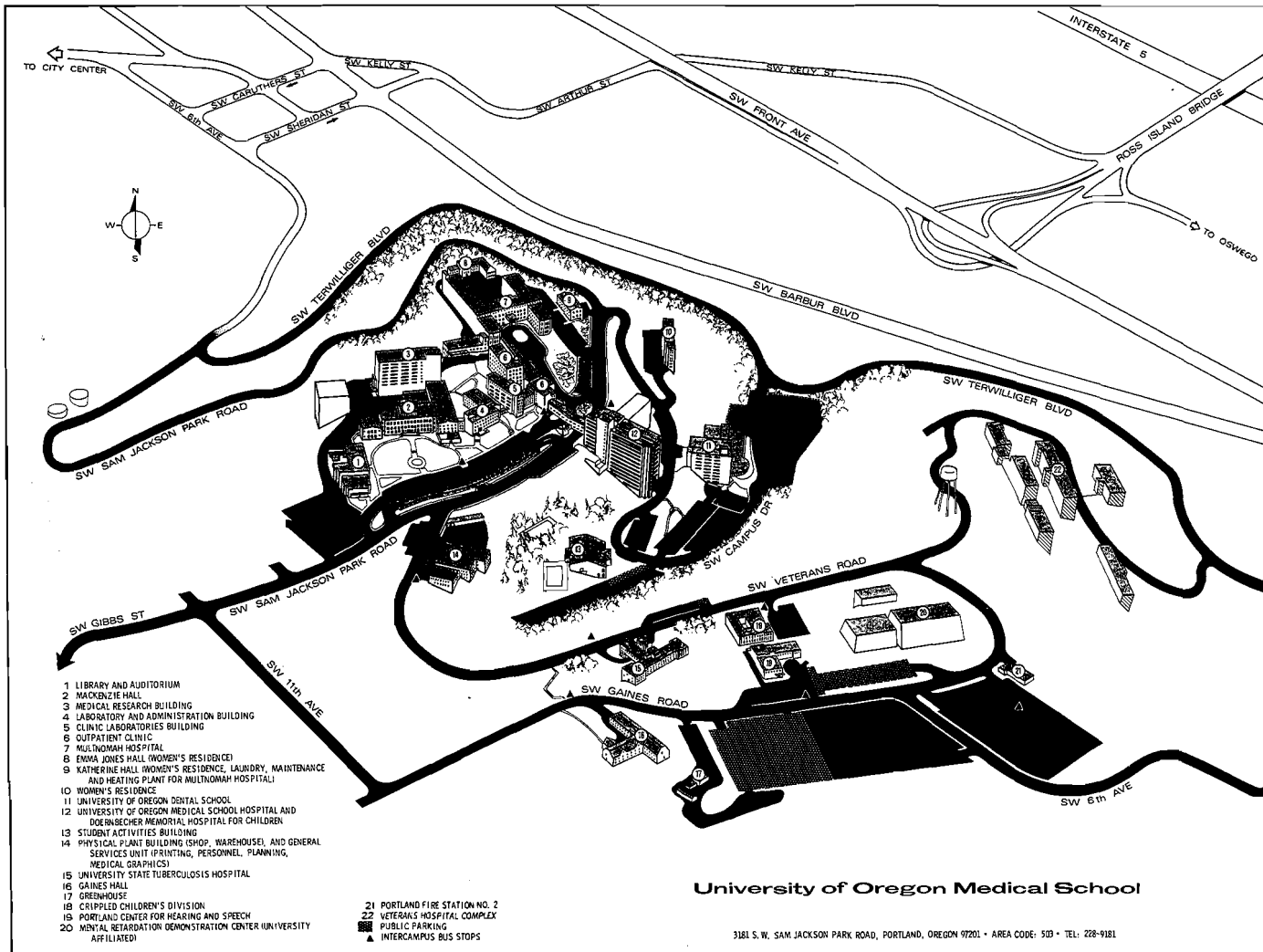
ENROLLMENT
AND DEGREES

Summary of Enrollment, 1968-69

	Men	Women	Total
First year	84	8	92
Second year	88	5	93
Third year	75	6	81
Fourth year	79	6	85
Total regular students	326	25	351
Graduate students	72	18	90
Special students and auditors	16	3	19
Medical technology students	4	44	48
Total	418	90	508

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TO CITY CENTER



INTERSTATE 5
ROSS ISLAND BRIDGE
TO OSWEGO

- 1 LIBRARY AND AUDITORIUM
- 2 MACDONALD HALL
- 3 MEDICAL RESEARCH BUILDING
- 4 LABORATORY AND ADMINISTRATION BUILDING
- 5 CLINIC LABORATORIES BUILDING
- 6 OUTPATIENT CLINIC
- 7 MULTNOMAH HOSPITAL
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- 9 KATHERINE HALL (WOMEN'S RESIDENCE, LAUNDRY, MAINTENANCE AND HEATING PLANT FOR MULTNOMAH HOSPITAL)
- 10 WOMEN'S RESIDENCE
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- 20 MENTAL RETRIABILATION DEMONSTRATION CENTER (UNIVERSITY AFFILIATED)

- 21 PORTLAND FIRE STATION NO. 2
- 22 VETERANS HOSPITAL COMPLEX
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University of Oregon Medical School

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