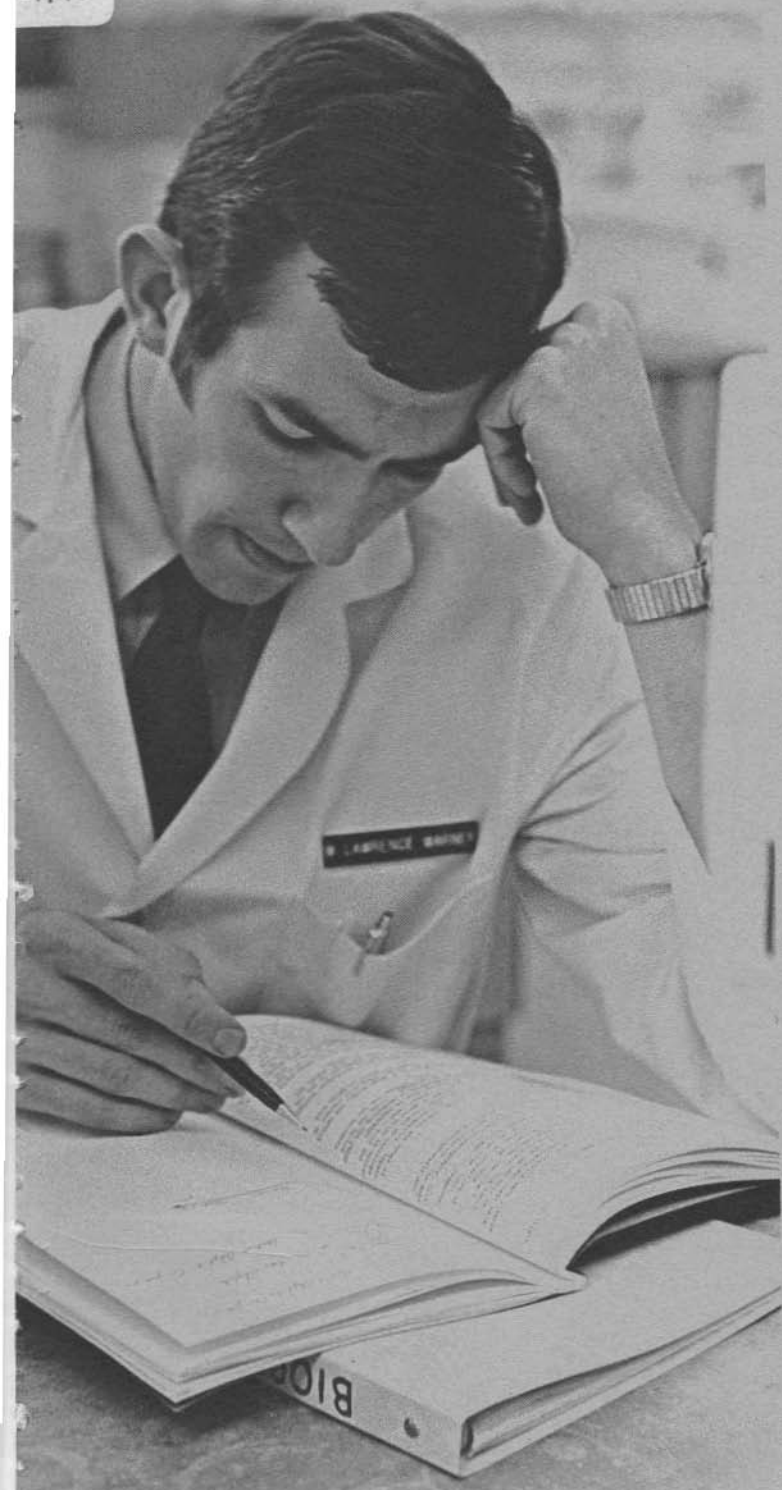


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University
of Oregon
Bulletin

UNIVERSITY
OF OREGON
MEDICAL
SCHOOL
PORTLAND

1971-72

Oregon State
System of
Higher Education

UNIVERSITY OF OREGON BULLETIN

No. 172

AUGUST 1971

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TABLE OF
CONTENTS

OREGON STATE SYSTEM OF HIGHER EDUCATION.....	4
State Board of Higher Education.....	5
State System of Higher Education Officers.....	6
OFFICERS OF ADMINISTRATION.....	7
1971-72 CALENDAR.....	8
1 GENERAL INFORMATION FOR STUDENTS.....	9
History and Physical Facilities.....	10
Accreditation.....	13
Administration.....	13
Instruction.....	13
Research.....	14
Library.....	15
Alumni Association.....	15
Student Organizations, Activities and Athletics.....	16
Housing.....	17
Health Service.....	18
Fees and Expenses.....	17
Fellowships, Scholarships, Grants-in-Aid, Awards.....	20
Loan Funds.....	23
2 ADMISSIONS AND SCHOLASTIC REGULATIONS.....	25
Admission Requirements.....	26
Processing of Applications.....	28
Scholastic Regulations.....	29
3 CURRICULUM IN MEDICINE.....	31
Course Numbering System.....	33
4 DESCRIPTION OF COURSES.....	35
Conjoint Courses—Basic Medical Science.....	36
Anatomy.....	37
Biochemistry.....	39
Experimental Biology.....	40
Medical Genetics.....	41
Medical Psychology.....	42
Microbiology.....	44
Pathology.....	45
Pharmacology.....	47
Physiology.....	48
Conjoint Courses—Clinical Science.....	50
Anesthesiology.....	50
Clinical Pathology.....	51
Dermatology.....	52
Family Practice.....	53
Medicine.....	53
Obstetrics and Gynecology.....	60
Ophthalmology.....	61
Otology, Rhinology and Laryngology.....	62
Pediatrics.....	63
Psychiatry.....	64
Public Health and Preventive Medicine.....	66
Radiologic Diagnosis.....	67
Radiation Therapy.....	68
Surgery.....	68
5 OTHER INSTRUCTIONAL PROGRAMS.....	73
Medical Technology.....	74
Graduate Studies.....	79
School of Nursing.....	80
Radiologic Technology.....	82
Cytotechnology.....	82
Hospital Dietetics.....	83
Internship and Residency Programs.....	83
Nuclear Medicine Technology.....	84
Orthoptics.....	84
Radiation Therapy Technology.....	84
Continuing Medical Education.....	85
6 MEDICAL SCHOOL FACULTY.....	87
7 ENROLLMENT AND DEGREES.....	153
CAMPUS MAP.....	iv

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1971-72
CATALOG

University of
Oregon
MEDICAL
SCHOOL

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

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Education with a Purpose

Medical care and the education of future physicians, nurses and health workers of all kinds 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, nurses 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.

The basic purpose of the University of Oregon Medical School is to teach qualified young men and women the art and science of medicine, nursing and allied health sciences and to offer graduate work in the sciences basic to medicine and nursing. 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.

The institution provides instructional and training programs in a number of health science areas. The basic charge is to offer a curriculum leading to the degree Doctor of Medicine. The institution also has responsibility for providing curricula leading to the Bachelor of Science degree in Nursing and the Master's degree in Nursing Education, Bachelor's and Master's degrees in Medical Technology, and programs leading to Master's and Doctoral degrees in the sciences basic to medicine—oftentimes conferred jointly with the Doctor of Medicine degree. Additionally, the institution offers course work in the developing allied health education programs leading to degrees or certification. Extensive training programs are conducted for interns, residents and fellows, and the Medical School sponsors ongoing programs of continuing health education for physicians, nurses, and those in the allied health sciences in Oregon and in the Northwest states.

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 by the Governor of Oregon with confirmation by the State Senate.

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Elizabeth H. (Mrs. Samuel S.) Johnson, Redmond	1974
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University of Oregon Medical School

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MEDICAL AND GRADUATE STUDENTS*

Fall Term, 1971

September 20, <i>Monday</i>	Registration
September 21, <i>Tuesday</i>	Instruction begins; last day for medical students to pay fees
September 24, <i>Friday</i>	Last day for graduate students to register and to pay fees
October 4, <i>Monday</i>	Last day to register for full credit or to change courses
November 25, <i>Thursday</i>	Thanksgiving Day, holiday
December 11, <i>Saturday</i>	Fall term ends

Winter Term, 1972

December 13, <i>Monday</i>	Instruction begins
December 14, <i>Tuesday</i>	Last day for medical students to pay fees
December 17, <i>Friday</i>	Last day for graduate students to register and to pay fees
December 22, <i>Wednesday</i>	Last day to register for full credit or to change courses
December 23, 1971, <i>Thursday</i> through January 2, 1972, <i>Sunday</i>	Christmas vacation
March 11, <i>Saturday</i>	Winter term ends

Spring Term, 1972

March 20, <i>Monday</i>	Instruction begins
March 21, <i>Tuesday</i>	Last day for medical students to pay fees
March 24, <i>Friday</i>	Last day for graduate students to register and to pay fees
April 3, <i>Monday</i>	Last day to register for full credit or to change courses
May 29, <i>Monday</i>	Memorial Day holiday
June 9, <i>Friday</i>	Commencement
June 10, <i>Saturday</i>	Spring term ends

Summer Term, 1972

June 19, <i>Monday</i>	Registration; instruction begins
June 20, <i>Tuesday</i>	Last day for medical students to pay fees
June 23, <i>Friday</i>	Last day for graduate students to register and to pay fees
July 3, <i>Monday</i>	Last day to register for full credit or to change courses
July 4, <i>Tuesday</i>	Independence Day holiday
September 4, <i>Monday</i>	Labor Day holiday
September 9, <i>Saturday</i>	Summer term ends

1

GENERAL INFORMATION FOR STUDENTS



GENERAL INFORMATION

The University of Oregon Medical School is located in Portland (population 383,000), 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; Mt. 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 nine 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 \$42,400,000 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 five 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 163,000 patient visits are recorded annually. Funds for the construction of the original 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 334 beds with facilities for general medical, surgical, and obstetrical patients. The Multnomah Hospital group includes the *Heating Plant* (1923) and the *Emma Jones Hall* (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 a 79-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 and medical graphics. 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 *Child Development and Rehabilitation Center* (1970) provides facilities for primary diagnostic treatment and rehabilitation services of mentally retarded children under the age of 21 and for the demonstration to and teaching of students of all medical, dental and allied health disciplines. The \$3,720,000 Center was financed by a State appropriation of \$981,000 and a \$2,736,000 construction grant from the U.S. Public Health Service.

The *University of Oregon Medical School Hospital* (1955), a 262-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 126 beds for general, medical, and surgical patients, 26 beds for psychiatric care, and 110 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 \$336,779 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. Animal care and housing facilities are contained in the building.

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 pro-

grams. Coordinating the residency program is the responsibility of 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. (The most recent visit of the accrediting team occurred in 1969.) 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 83). 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

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.

Instruction

Medicine is such a broad and extensive field that it is difficult for the faculty of the Medical School to teach the students in four years 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 overall education of a physician should not only make him proficient in the science and art of medicine, but should also fit him to assume effectively the civic and social responsibilities associated with his position in the community.

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

The University of Oregon Medical School provides a 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

GENERAL INFORMATION

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, nuclear medicine technology, orthoptics, radiation therapy 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 worldwide 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 underway at the Medical School are supported by gifts and grants amounting to approximately \$5,000,000 annually. These funds are made available by private individuals and industry, by foundations and societies, and by the State and Federal governments.

Currently, more than 315 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 worldwide recognition.

Library

The Medical School Library's responsibility is to provide its clientele with literature in the fields of medicine and allied sciences for the purpose of study, reference and research. It exists to perform professional medical library service for an institution concerned with medical education, research and patient care. The extent of coverage depends on the strength of the teaching departments and the demands made upon the Library by those who use it. Research coverage is available in most areas to carry on extensive investigative work at the doctoral level to fill the needs of physicians, medical educators, medical research workers, medical students, graduate students in the basic sciences, nursing faculty, student nurses, graduate nurses.

Instruction is given in the use of the indexes and in the location of material. Medical library service is offered to physicians in Oregon and the Pacific Northwest, through cooperation with the Pacific Northwest Regional Health Sciences Library at the University of Washington in Seattle. Medical books and periodicals may be borrowed from the Library. Reference service is provided. Bibliographic services include the preparation of demand searches for MEDLARS (Medical Literature Analysis and Retrieval System) searching at the National Library of Medicine for all members of the health manpower community.

The Library, containing 130,000 volumes of books, bound and unbound periodicals, and subscribing to 2,500 current periodicals, is the only public general medical library in Oregon for research and use by the health sciences community, both basic and clinical. Contributing to the Library are the Oregon Medical Association, the Oregon State Board of Medical Examiners, the Portland Academy of Medicine, and for the past five years, the Federal government, through the Medical Library Assistance Act of 1965.

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 with about 400 registrations. Alumni Association officers for 1971-72 are:

Willis J. Irvine, M.D., '48, Portland	President
Albert A. Oyama, M.D., '53, Portland	Vice President
Fred H. Bishop, M.D., '47, Longview, Washington	Vice President
Roger D. Engberg, M.D., '57, Jamestown, North Dakota	Vice President
Ronald J. Lowell, M.D., '58, San Francisco, California	Vice President
Robert L. Mueller, M.D., '48, Salem	Vice President
Ernest T. Livingstone, M.D., '51, Portland	Secretary
Richard A. Lalli, M.D., '56, 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 file of summer employment for medical students. 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 of AOA is made by the active members each spring from the junior and senior classes on the basis of scholarship achievement and character.

There is one medical fraternity for men at the University of Oregon Medical School—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 (WASAMA). 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 on student bulletin boards. Several traditional dances and fraternity get-togethers are planned each year by medical student organizations. An annual luncheon for fresh-

men is given by the Alumni Association and 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.

Women students under the age of 21 years who provide written parental permission, may reside in housing of their choice. However, students are encouraged to consider the pleasant surroundings and proximity to classrooms and laboratories, hospitals and clinics, which is afforded by living in the Women's Residence Hall. This attractive modern residence for women students is provided primarily for those women enrolled in the Medical School's medical technology and radiologic technology programs, students enrolled in the School of Nursing and for those in the dental hygiene program at the Dental School.

Health Service

The Health Service of the University of Oregon Medical School is available to meet the medical needs of students. Outpatient evaluation and treatment can be obtained at the Health Service daily. An insurance program provides coverage for hospitalization and emergency services.

Nurses and physicians (including a psychiatrist) are available during the school day. The Multnomah Hospital Emergency Department can be used for emergencies when the Health Service is closed.

Students registered for nine or more hours graduate credit or 12 or more hours medical credit pay a Health Service fee and are eligible for all services of the Health Service. Students' spouses may establish eligibility for the Health Service (including insurance coverage) upon payment of a quarterly Health Service fee. Hospital insurance may also be provided for students' children.

Detailed information is provided in the Health Service pamphlet.

GENERAL INFORMATION

*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:

Tuition	\$241.00
Health Service	33.00
Incidental Fee	11.00
Building Fee	10.00
Total	\$295.00

Medical Student, nonresidents, per term:

Tuition	\$430.00
Health Service	33.00
Incidental Fee	11.00
Building Fee	10.00
Total	\$484.00

Medical students (11 credit hours or less):

Fee per credit hour, Oregon residents, per term	\$20.00 (minimum \$40.00)
Fee per credit hour, nonresidents, per term	\$36.00 (minimum \$72.00)
Graduate students (candidates for M.S., Ph.D.), per term	\$238.00
Graduate students enrolled for 8 term hours of work or less	\$20.00 per term hour (minimum, \$40.00)
Graduate students employed as research assistants or fellows, per term	\$54.00

Deposits

¹ Deposit to reserve place in entering class (applied on tuition)	\$75.00
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 11 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

A fee of \$1.00 is charged for each additional transcript ordered at the same time.	\$ 2.00
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* The State Board of Higher Education reserves the right to make changes in the rates quoted without notice.

¹ See page 28.

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.

NONRESIDENT FEES

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 the first day of the term.	
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	\$ 885.00
Tuition and fees, full-time nonresident students	1,452.00
Breakage deposit	15.00
Microscope fee	30.00
Books and supplies	135.00
Board and room	1,200.00
Personal expenses	200.00

Fee Refunds

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

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

Regulations Governing Nonresident 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. An emancipated 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 in any institution of higher learning in the State of Oregon.

All other students are required to pay the nonresident fee, with the following

GENERAL INFORMATION

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

A student who has been classified as a nonresident *may be* considered for reclassification 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 an emancipated student whose domicile is independent of that of his parent or guardian, if the student presents convincing evidence that he has established his domicile in Oregon and that he has resided in the state for an entire year 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 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 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.

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.

Kenneth A. J. Mackenzie Memorial Scholarship. Five \$200 scholarships are awarded annually for the study of medicine, in accordance with the following plan: one \$200 scholarship is awarded each year to the outstanding premedical student at the University of Oregon in the last year of his premedical studies; if the student enters the University of Oregon Medical School and continues to maintain a high scholarship 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 above \$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 Scholarship. 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.

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 Scholarship. 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.

Henry Waldo Coe Prize. This prize, established in 1929, is awarded to a second-

GENERAL INFORMATION

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 established 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.

Louis Gerlinger, Jr. and Beatrice Lee Gerlinger Scholarship Fund. The income from a gift established in memory of the late Louis Gerlinger, Jr. by Beatrice Lee Gerlinger, is a perpetual fund used for scholarships to a deserving second-, third-, or fourth-year medical student dedicated to service to humanity. Over \$2,000 is available.

American Professional Practice Association's Raymond M. McKeown Scholarship Fund. An award of not more than \$1,000 per applicant is to be made to first-year medical students on basis of need for assistance. Funds are made available by the American Professional Practice Association in recognition of Raymond M. McKeown, M.D.

John H. Stevenson Scholarship Fund. The income from a trust fund established under the will of the late Louise B. Stevenson in memory of her husband John H. Stevenson is used to provide scholarships for medical students.

Dr. & Mrs. Joseph Fife Scholarship Fund. Established in honor and memory of Dr. Joseph Fife and his wife, Georgia Reed Fife by his nephew, Mr. William Fife, a scholarship fund of \$800 is provided for an outstanding medical student from Douglas County. It is to be awarded on the basis of scholastic achievement and financial need.

Ronald P. Neilson Memorial Fund. This fund was established in memory of Ronald P. Neilson by his wife, Mrs. Neilson. Over \$3,500 is available for scholarships to deserving medical students.

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 1971-72 scholarships will be available at the University of the academic year 1970-1971 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 books to five students at the completion of their second year.

The Vernon M. White Fund for Medical Diagnosis was established by Mrs. White in memory of her husband, Vernon M. White. This award is to be presented to the senior medical student showing the greatest talent in the field of medical diagnosis.

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 \$750 a year or to a maximum of \$1,500 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 Student Financial Aid Officer.

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 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 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.

Ralph Vernon Moore Loan Fund. This fund, a trust from the late Ralph Vernon Moore, is administered by the Trust Department of the U. S. National Bank. Loans of \$500 are made available to worthy and needy medical students in their junior or senior years.

Kim Wolfer Memorial Student Loan Fund. This fund was established by Mr. and Mrs. Martin Wolfer in memory of their son, Kim Wolfer, as a perpetual fund for medical students with a loan of \$700 per student. Administered by the UOMS Advancement Fund, it is to be used for loans to needy and worthy medical students, and is restricted to seniors through 1973-74.

Emilie Jo Pastega Simpson Memorial Student Loan Fund. This fund was established by Mr. and Mrs. Mario Pastega in memory of their daughter, Emilie Jo Pastega Simpson, as a perpetual loan fund for medical students and nursing students, administered by the UOMS Advancement Fund. The maximum loan

GENERAL INFORMATION

available is \$500 per student. Loans are restricted to residents of Oregon, and for the year 1971-72, to senior students only.

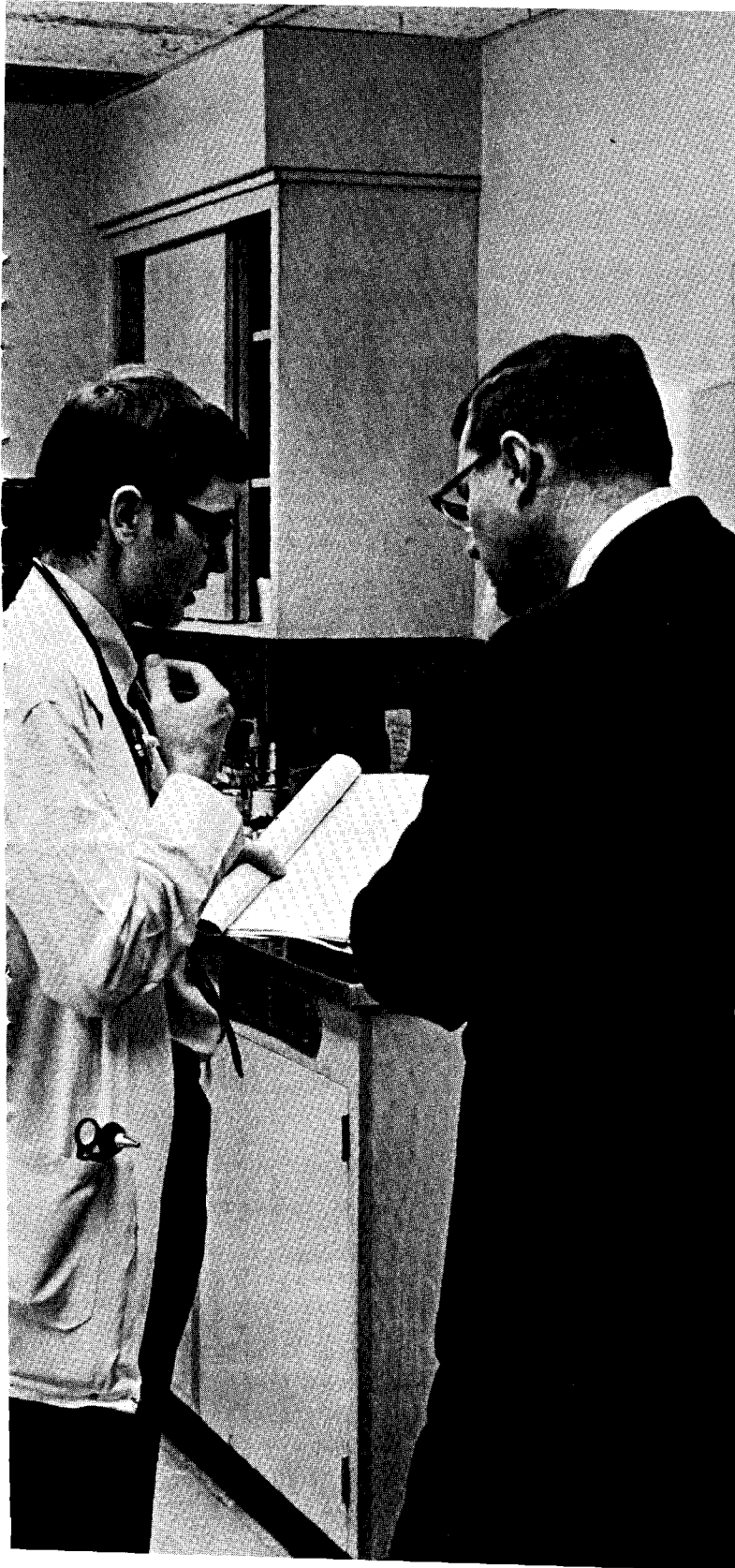
Health Professions Student Loan Program. Under the provisions of the Health Professions Educational Assistance Act of 1963, funds have been provided by the Federal government for loans to medical students. The maximum loan available is \$2,500 per year.

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 Student Financial Aid Office.

2

ADMISSIONS AND SCHOLASTIC REGULATIONS



Admission Requirements

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

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 good 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. A student whose major undergraduate interest lies outside the biological or physical sciences should have adequate scientific preparation in the fundamentals of chemistry, physics, and biology. Certainly, a student with primary interest in one of the sciences should be encouraged to pursue 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 if he takes other basic science courses or work in fields such as mathematics and the social and behavioral sciences. 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.

Admission to the Medical School is on a competitive basis and concerns two types of qualifications: (1) evidence of good character and a high motivation for medicine, (2) sufficient ability and preparation to undertake satisfactorily the study of medicine, as judged by his premedical scholastic record and scores on the Medical College Admission Test.

Applicants for admission are required to complete not less than three years of full-time work in an accredited college or university, i.e., 138 term hours (92 semester hours) exclusive of military science, before entering the Medical School. Although only three years of college are required for admission, four years are recommended.

The following subjects are prescribed as the minimum acceptable for admission:

Chemistry—a minimum of two years of college chemistry totaling 24 quarter hours or more, including 10 to 16 quarter hours of general chemistry and eight to 12 quarter hours of organic chemistry. These requirements will usually be met by courses designed for science majors. Laboratory experience should include quantitative techniques and methods. Courses in analytical chemistry, instrumental analysis, or physical chemistry are recommended for students considering special medical programs with emphasis in the basic sciences.

Biology—a minimum of nine quarter hours of general biology (or zoology) including basic genetics. Advanced courses in cellular physiology or embryology are strongly recommended. A core program may possibly complete all biology requirements in one sequence.

Physics—a minimum of 12 quarter hours to include the division of mechanics, heat and sound, light and electricity with laboratory work.

College mathematics—a minimum of 12 quarter hours. (Calculus is strongly recommended.)

General psychology—a minimum of six quarter hours.

Note: This is a requirement for the entering class of 1973, until then it is strongly recommended.

quirements for admission. Questions concerning grades of pass or satisfactory should be clarified with the Director of Admissions.

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

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

Bachelor's Degree

A student entering the University of Oregon Medical School without a Bachelor of Arts or Bachelor of Science degree must complete the work required for one of these degrees in the institution at which he received his premedical preparation, or the University of Oregon at Eugene, before entering the third year 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

Since the Medical School is now participating in the American Medical College Application Service (AMCAS), applications for admission are obtained from that organization in Washington, D.C. An application request card may be secured by writing to the Director of Admissions.

Application forms may be obtained from the Office of Admissions. Because the Committee on Admissions begins examining applications a year in advance of entrance to the Medical School, *early application is advisable*. Applications are accepted between July 1 and 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 well qualified residents of neighboring western states which do not have medical schools and which are members of the Western Interstate Commission on Higher Educa-

* 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, 12 hours of lower division mathematics, 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.

tion (WICHE). Superior applicants from other regions are also given consideration.

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. Preferential consideration for admission is given WICHE-certified applicants over non-certified WICHE applicants; the WICHE-supported applicant pays the Oregon resident tuition fee.

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 non-residents 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 health service 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 \$75 must be paid not later than two weeks following notice of acceptance in order to reserve a place in the entering class. If the student should release his place in the class, the deposit is refundable until March 1.

Special Students

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

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.

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

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

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

The UOMS uses both the A, B, C, D, E, F and the Pass/Fail grading systems, depending on the nature of the course involved. Generally, courses in which an examination is given or in which the student has a clinical assignment involving patients will be graded by the A-F system and courses in which the student's competence is not readily subject to examination or review will be graded Pass/Fail.

At the end of each school year, students will be officially notified about each course they have taken and whether they have passed or failed. The only exception to this will be when a student's letter grade is D, E, F or incomplete, and in this case, the student will be notified at the end of the term in which they have taken the course. Students may learn exact grades earned in courses graded by the A-F

ADMISSIONS AND SCHOLASTIC REGULATIONS

system and the quarter of the class in which they rank scholastically upon personal request at the Registrar's Office.

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 is 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 passing score in the Part I examination of the National Board of Medical Examiners in order to be promoted to the third year. Failure to pass the examination necessitates re-evaluation of the student by the departments in which he received a test score of below 70. 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. A list of electives that students may take during the elective periods of the curriculum is published annually and can be obtained from the Registrar.

Class Attendance

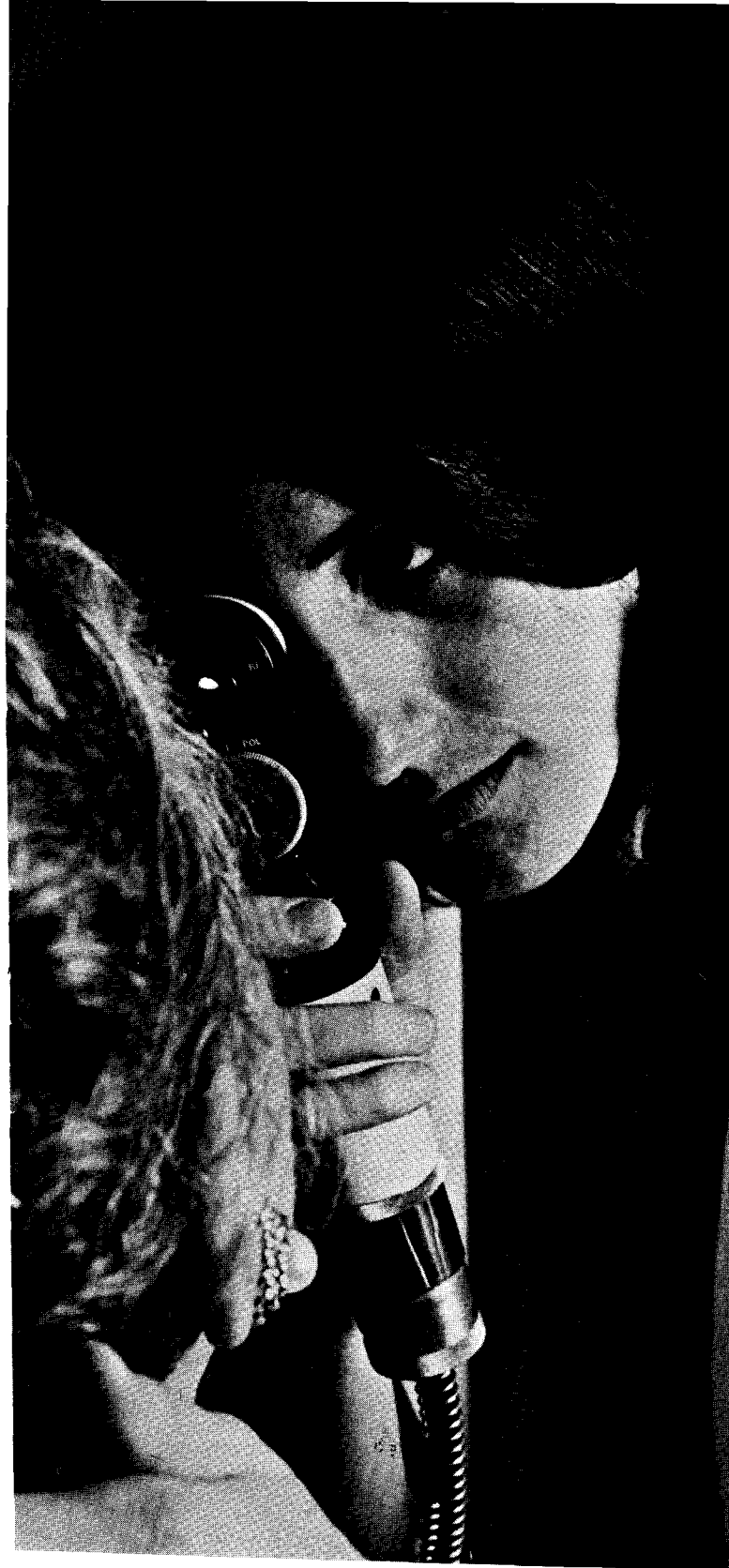
Satisfactory achievement of the educational goals and objectives of each course normally will require regular class attendance. Such a requirement applies in particular to those courses in which the direct care of patients is expected, where the learning of a skill is necessary, or some other demonstration of responsibility is expected. In these courses, attendance is required unless excused. The faculty in charge of each course will define and communicate to their students the attendance requirement in relation to the objectives of the course.

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 subjects of the regular four-year curriculum in medicine required by law.

The prescribed and recommended subjects for the three premedical years are described under *Admissions and Scholastic Regulations*. In the first, second, third, and fourth years at the Medical School there are 4,995 class hours of required work. Descriptions of courses are to be found under the several departmental headings.

Prescribed Work

	<i>Class Hours</i>	<i>Term Hours</i>
First Year		
An 410..... Anatomy	408	20
Con 410..... Cell Organization and Function	99	5
Con 411..... Medical Genetics	32	2
Con 412..... Developmental Biology	40	2
Con 413..... Introduction to Patient Evaluation	66	3
Con 414..... Immunology	35	2
MPs 410..... Medical Psychology	49	2
Pth 410..... General Pathology	66	3
BCh 410..... Basic Biochemistry	66	3
Phys 410..... Human Physiology	150	7
Psy 410..... The Human Context and Medical Practice	33	2
PH 410..... Public Health and Epidemiology	73	3
	1,117	54
Second Year		
Con 610..... Systems Pathophysiology	986	43
Mb 610..... Microbiology	90	4
Phc 610..... Pharmacology	48	2
Med 610..... Patient Evaluation	126	5
	1,250	54
Third Year		
Con 620..... Child Health	432	18
Con 621..... Neurosciences	216	9
Med 620..... Third-Year Medicine	432	18
DRad 620..... Radiographic Diagnosis	36	1½
Special Programmed Instruction	216	9
	1,332	55½
Fourth Year		
ObG 630..... Fourth-Year Obstetrics and Gynecology	216	9
Psy 630..... Psychiatry Clinical Clerkship	216	9
Sur 630..... Fourth-Year Surgery	432	18
Special Programmed Instruction	432	18
	1,296	54

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 transferred 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

Licensure to practice medicine in any state is conditioned upon the requirements of a state board of medical examiners. Licensure to practice medicine 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 examination given by 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 97204. The Board suggests that such inquiry be made no later than the second quarter of the internship year.

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 to the Basic Science Examining Committee, Oregon State Board of Higher Education, Eugene 97403.

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 advisor and department chairman concerned.
- 500-599 Courses primarily for graduate credit towards an advanced academic degree (M.S. or Ph.D.) but which may be elected by medical students for credit towards the M.D. degree with permission of the department chairman concerned.
- 600-699 Courses primarily for the medical curriculum but which can also be applied toward an advanced academic degree (M.S. or Ph.D.) with the permission of the graduate advisor and the Graduate Council. Required

CURRICULUM IN MEDICINE

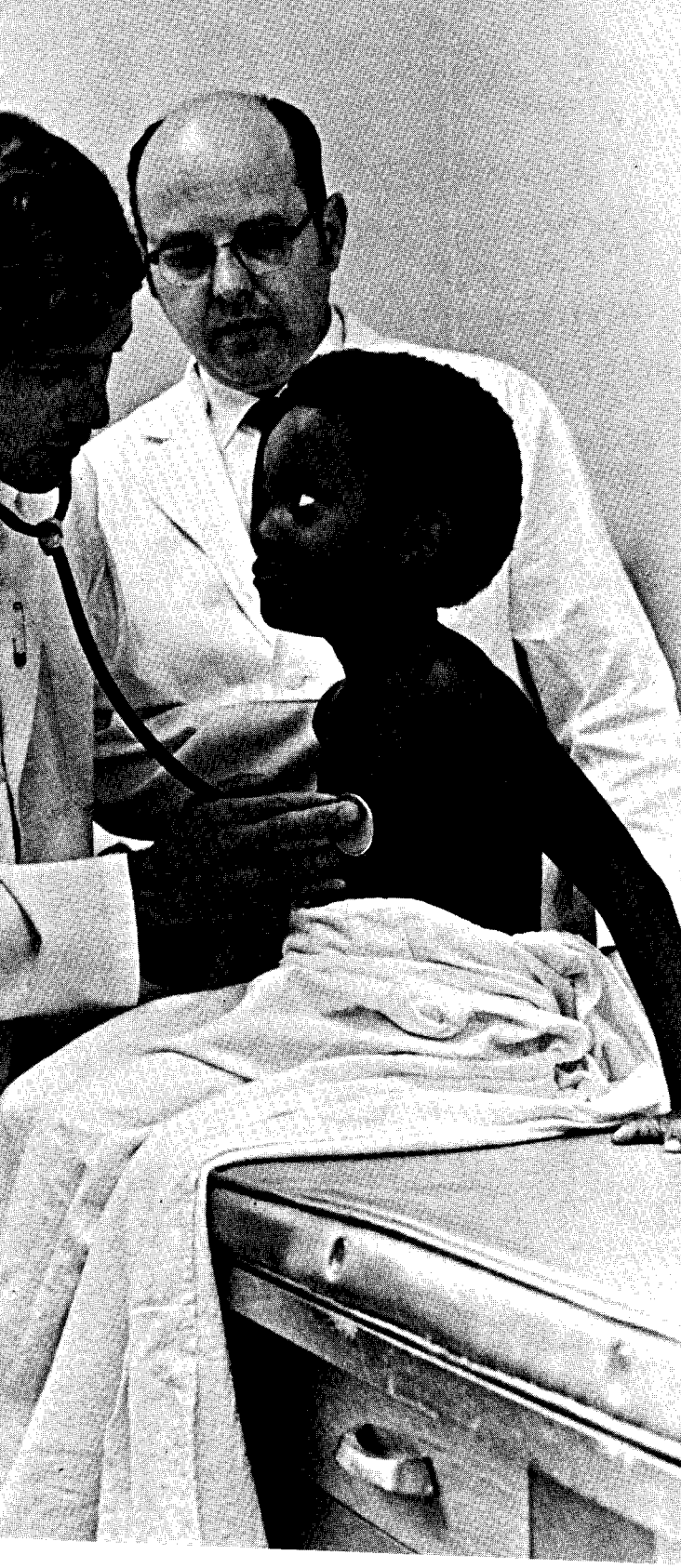
courses for second, third, and fourth years of the medical curriculum are designated by numbers 610-619, 620-629, and 630-649, respectively. Numbers 601, 605, 607, 609, and 650-699 are used for elective courses.

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 and 601	Research.
503	Thesis.
505 and 605	Reading and Conference.
507 and 607	Seminar.
609	Clinical Experience.

4

DESCRIPTION OF COURSES



Basic Sciences

CONJOINT COURSES—

BASIC MEDICAL SCIENCE

Required Courses

First Year

Con 410. **Cell Organization and Function.** 5 hours, fall and winter.

An integrated course emphasizing aspects of cellular structure, organization metabolism, and function essential to an understanding of human biology in health and disease. General and special features of cell structure; biochemical and structural properties of membranes; biological transport processes; bioenergetics; mitochondrial metabolism; functions of intracellular membranous organelles; cytoplasmic metabolism of carbohydrates, lipids, amino acids, purines, pyrimidines; nuclear functions—DNA replication and transcription protein synthesis, meiosis and mitosis; the life cycle of the cell. Lectures, laboratory and conferences. 99 hours.

Con 411. **Medical Genetics.** 2 hours winter.

Chromosomal basis of inheritance, chromosome structure and function, autosomal, X-linked and polygenic inheritance, population genetics, control of gene expression, mutation, genetic polymorphism, inborn errors of metabolism. Lectures, laboratory and conferences. 32 hours.

Con 412. **Developmental Biology.** 2 hours winter.

An introduction to current concepts of the processes involved in growth and development. The functional and chemical aspects of these processes are presented within the framework of morphologic development with emphasis on the mammalian organism whenever feasible. Lectures, quizzes and laboratory correlated and continuous with laboratory sessions in Cell Organization and Function and Medical Genetics. 40 hours.

Con 413. **Introduction to Patient Evaluation.** 4 hours spring.

A beginning course designed to introduce the student, in the setting of lectures, conferences and patient studies, to work with patients in the interview situation, and become familiar with the methods used in interviewing. The form, purpose and use of the medical history is reviewed along with considerations of the methods by which medical problems are solved. The pathophysiology and physical diagnosis of the eyes, ears, nose and throat is studied by means of lectures, practice sessions, and conferences. The differences in approach to the examination and consideration of disease in infants and children completes the course. 66 hours.

Con 414. **Immunology.** 2 hours spring.

The major goal of this course is to introduce the medical student to the required semantics and terminology of immunological theory and to teach him an immunological approach to current and future medical problems. The student will learn how to investigate immunological events as they apply to human disease syndromes. Lectures, laboratory sessions and teaching seminars. 35 hours.

Second Year

Con 610. **Systems Pathophysiology.** 42 hours.

A multidisciplinary course designed to correlate basic science with disease processes in man, and to introduce the student to clinical medicine. The material is presented in organ and system blocks; within each block, a series of selected case presentations serves to introduce and to focus attention on specific disease entities. Associated lectures, laboratory exercises, demonstrations, and conferences are designed to integrate and to correlate clinical

manifestations of disease with the physiological, biochemical, pathological, pharmacological and microbiological information that is pertinent to the system under study. Faculty members from basic science and clinical departments cooperate in presenting this course. 986 hours.

Elective Courses

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

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

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

Con 511, 512, 513. **Cell Biology.** 5 hours each term.

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.

DEPARTMENT OF ANATOMY

Robert L. Bacon, Acting Chairman of Department

Professors: **Robert L. Bacon, David L. Gunberg, Ellis B. Jump** (Dental School), **Anthony A. Pearson, William A. Stotler**

Associate Professors: **Robert Quinton-Cox** (Dental School), **Archie R. Tunturi**

Assistant Professors: **Reid S. Connell, Jr., Howard W. Davis, Robert J. Iorio**

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

Required Courses

First Year

An 410. **Anatomy.** 20 hours, fall, winter and spring.

Gross Anatomy: Regional dissection of the human body. Each pair of students dissects the lateral half of the human body. The student is furnished with a loan collection of disarticulated bones for the study of osteology. Lectures and demonstrations will include surface, developmental and radiological anatomy. 144 hours fall term, 144 hours winter term.

Applied Anatomy: A series of lectures will be devoted to the clinical significance of anatomy. These lectures will be given by the clinical staff and will be programmed to correlate with gross anatomy. 12 hours fall term, 12 hours winter term.

Histology and Organology: Lectures and demonstrations concerned with the microscopic anatomy of the tissues and organs. Student loan sets of microscopic preparations and microscopes will be available for student use. 24 hours fall term, 24 hours winter term.

Neurology and Organs of Special Senses: 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. 48 hours, spring term. Lectures, demonstrations, laboratories, quizzes. 408 hours.

Elective Courses

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

The theory and practice of preparing animal tissue and histological study.

DESCRIPTION OF COURSES

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 410, BCh 410, 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 416, BCh 410, or the equivalent. Limited to 10 students.

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

Human anatomical material dissected and certain parts of the body studied more thoroughly. Conferences and quizzes arranged with the instructor. Registration limited by available material. Prerequisite : An 410.

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

Set theory, probability theory and information theory are presented as the basis for the study of the behavior of neural networks in the auditory system and other parts of the brain. Six weeks.

An 516. **Computers in Medicine.** Any term, hours to be arranged.

After a brief description of the computer the course will analyze those requirements that a scientist or physician needs in order to make the computer part of his integral tools. An introduction to multivariate statistics, set and probability theory will be presented. Three to six hours a week, six weeks.

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.

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

An 605. **Reading and Conference.** Any term, hours to be arranged.

An 607. **Seminar.** Any term, hours to be arranged.

Noise and Its Effect on the Human Being : Acoustical characteristics of noise ; mechanism of the ear and auditory system ; destructive effect of noise on ear and tissue ; effects of noise on human communication and speech ; effects of noise on behavior. Legal aspects of noise, hearing conservation programs, Walsh-Healy Act. Three hours a week for six weeks. Fall term.

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), **Michael Litt, Howard S. Mason, Oscar W. Portman** (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), **Geoffrey V. F. Seaman**

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

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

Affiliates: **C. Keith Claycomb** (Biochemistry, Dental School), **Walter L. Gabler** (Dentistry, Dental School)

Research Associates: **Bernadine Brimhall, Marie Duerst, Albert Hanson, Charlotte Head, Takashi Iyanagi, Paul MacMahill, Jeffrey Pinto, Bohumila Rokosova, Toshihiro Tsudzuki, Marie Vanneste, Walter Vanneste**

Research Assistants: **June Boyett, Leonard Evans, Pauline Gaskill, Kathryn Johnson, James Joyce, Carrol Platz, Jr., Esther Roth, Jean Scott, Sandra Siegner**

Required Courses

First Year

BCh 410. **Basic Biochemistry** 3 hours fall.

Physical chemistry pertaining to biochemistry, particularly acid-base, buffers and equilibrium reactions. Chemistry of macromolecules and their subunits including proteins, carbohydrates, nucleic acids and lipids. Introduction to enzymology. This course is the beginning of a series of courses in which biochemical topics will be taught on an integrated basis with other basic medical science subjects. Lectures, laboratory, and seminars. 66 hours.

Second Year

Con 610. **Systems Pathophysiology** (See page 36.)

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.

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

Principles of biological energy transduction. Respiratory biochemistry, biological oxidation-reduction and oxidative phosphorylation.

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, interrelationships of metabolism and mechanisms of control.

* Leave of absence July 1, 1971 to June 30, 1972.

DESCRIPTION OF COURSES

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.

An overview of biophysical chemistry. Intermolecular interactions in liquid and liquid-crystalline phases. The thermodynamics of biological systems. Physics and chemistry of interfacial phenomena. Biophysical characterization of macromolecules. Physical behavior of cells as biocolloids including biorheology and cellular contact phenomena.

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.

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

Current concepts and theoretical foundations in selected topics of biophysical chemistry. Prerequisite: 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 relation of structure to function.

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

Biochemical mechanisms underlying selected human diseases.

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

The composition of biological membranes and the functional aspects of their composition; models of membrane structure; membrane function and mechanism of membrane transport.

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

BCh 605. **Reading and Conference.** Any term, hours to be arranged.

BCh 607. **Seminar.** Any term, hours to be arranged.

DIVISION OF EXPERIMENTAL BIOLOGY

William Montagna, Head of Division

Professor: **William Montagna**

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

Research Associates: **Hideo Nakagawa**, **Bohumila Rokosova**

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 microscopy which supports 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.

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

EB 605. **Reading and Conference.** Any term, hours to be arranged.

EB 607. **Seminar.** Any term, hours to be arranged.

DIVISION OF MEDICAL GENETICS

Robert D. Koler, Head of Division

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

Associate Professors: **Robert H. Bigley, Neil R. M. Buist, Frederick Hecht,*
Everett W. Lovrien, Gerald H. Prescott** (Dental School)

Assistant Professors: **John A. Black, Jean Macfarlane, Joe W. Templeton**

Instructor: **William J. Kimberling**

Research Associates: **Shirley Ditewig, Nancy Kennaway, Shirley Rowe, Libuse Stankova, Patricia Vanbellinghen**

Research Assistants: **Marjorie Burkitt, Joanne Gruen, Sandra Hazard, Charlotte Head, Barbara McCaw, Carol McDonald, Rosemary Milbeck, Ann Nicholas, Zelma Stocklen, Herman Wyandt**

Required Courses

First Year

See Con 411. **Medical Genetics** (page 36).

Elective Courses

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

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

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

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

MGen 605. **Reading and Conference.** Any term, hours to be arranged.

MGen 607. **Seminar.** Any term, hours to be arranged.

MGen 609. **Clinical Experience.** Any term, hours to be arranged.

* Leave of absence July 1, 1971 to June 30, 1972.

DEPARTMENT OF MEDICAL PSYCHOLOGY

Joseph D. Matarazzo, Chairman of Department

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

Associate Professors: **Bruce V. Butler, Constance Hanf, Norman Henderson, James E. Lindemann, James H. O'Brien, David S. Phillips, Leif G. Terdal**

Assistant Professors: **Gordon G. Eaton** (Primate Center), **Russell H. Jackson**

Lecturers: **Stanley Abrams, Richard Lazere, Frank B. Strange**

Postdoctoral Fellow: **Thomas S. Manaugh**

Residents: **Larry D. Trexler, Leonard T. Volenski**

Required Courses

First Year

MPs 410. **Medical Psychology.** 2 hours fall

Basic psychological and behavioral principles derived from laboratory research and their applications in clinical practice and research in medicine. Examined within the latter context are pre- and postnatal influences, early development, intellectual processes, learning and conditioning, anxiety and other motivational states, and influences associated with man as a social organism. Lectures, demonstrations, and laboratory. 49 hours.

Third Year

Con 620. **Child Health.** (See page 50.)

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.

Statistical methods for scientific research: including scales of measurement; tests of significance; correlation and regression; analysis of variance and design of experiments; distribution-free techniques; Type I error, Type II error and Power.

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. Prerequisite: MPs 511 or equivalent.

MPs 513. **Advanced Statistics.** 3 hours, term to be arranged.

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

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

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

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 experiential and physiological determinants of motivational phenomena.

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

Examined are developments in the history of psychology necessary for an understanding of some of the main currents in contemporary psychology. Prominent ideas from structuralism, functionalism, associationism, early behaviorism, gestalt psychology, psychoanalysis, and neo-behaviorism are analyzed and their relevance to modern ideas critically evaluated.

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.

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.

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

MPs 605. **Reading and Conference.** Any term, hours to be arranged.

MPs 607. **Seminar.** Any term, hours to be arranged.

MPs 609. **Clinical Experience.** Any term, hours to be arranged.

MPs 650. **Psychological Assessment in Medical Practice.** Any term, hours to be arranged.

Introduction to intellectual and personality assessment in medical practice. Theoretical foundations and uses and limitations of specific assessment procedures. Psychological tests and objective behavioral observation procedures that can be used by the physician in his office practice with implications for management.

DEPARTMENT OF MICROBIOLOGY

Arthur W. Frisch, Chairman of Department

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

Associate Professors: **Terence Joys**, **Arthur Malley** (Primate Center), **Ernest A. Meyer**, **Marvin B. Rittenberg**, **R. Bradley Sack** (Medicine)

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

Assistant Clinical Professor: **Thomas E. Frothingham**

Instructor: **Nancy B. Gerhardt**

Affiliates: **Howard Creamer** (Microbiology, Dental School), **Richard B. Parker** (Oral Biology and Microbiology, Dental School)

Required Courses

Second Year

Mb 610. Introduction Medical Microbiology. 4 hours.

An introduction to medical microbiology involving a discussion of the basic properties of microorganisms and their relation to the infective process. Lecture, laboratory and case presentation: 92 hours.

Con 610. Systems Pathophysiology (See page 36.)

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.

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

Cystochemistry 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.

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.

Mb 511. Pathogenesis. Term and hours to be arranged.

Study of selected areas of medical microbiology with emphasis on pathogenesis of infectious agents. Control of production and mode of action of virulent products: exotoxins, endotoxins, viral and Rickettsial toxins, hemolysins, leucocidins, nucleases, coagulases, kinases, etc. Inhibition of host cell macromolecular synthesis following virus infection and its relationship to

* Leave of absence, September 1, 1971 to August 31, 1972.

** Leave of absence.

cytopathic effect and viral virulence; inhibition of DNA, RNA and protein synthesis; induction to new t RNA's, activation of lysosomal enzymes; non-immune host factors involved in infection; the macrophage and its products, lysosomes and non-globulin serum components.

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 610.

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

Mb 605. Reading and Conference. Any term, hours to be arranged.

Mb 607. Seminar. Any term, hours to be arranged.

DEPARTMENT OF PATHOLOGY

Richard D. Moore, Chairman of Department

Professor Emeritus: **Frank R. Menne**

Professors: **George C. Buchan, Peter J. Dawson, Richard D. Moore, Nelson R. Niles, Benjamin V. Siegel, Vinton D. Sneedon**

Associate Professors: **Thelma N. Fisher, David Linder, Wilbur P. McNulty** (Primate Center), **James L. Palotay** (Primate Center)

Assistant Professor: **Robert E. Brooks**

Instructor: **Claire Langston**

Lecturer: **Jan E. Cordell**

Affiliates: **David Auld** (Veterans Hospital), **William J. Brady, Clarence L. Chester** (Veterans Hospital), **Terence H. Cochran, Richard T. Gourley, John W. Hoffman, Sheldon A. Jacobson, Larry Lewman, E. Colton Meek, Joseph E. Nohlgren, James R. Orendurff** (Veterans Hospital), **Albert A. Oyama, Norman H. Rickles** (Pathology, Dental School), **John C. Smith II, Grier F. Starr, Virginia Weimar** (Ophthalmology), **William B. Wescott** (Dentistry, Dental School)

Residents: **Sushma Chawla, Roger McFadden, Waldemar Schmidt**

Required Courses

First Year

Pth 410. General Pathology. 3 hours spring.

This course is designed to introduce the student to the principles and concepts of disease. Broadly characterized, it is the study of the effects of injury on cells and tissue and their subsequent reaction. The topics considered will include: cellular injury, abnormal division and differentiation, disturbances in cellular metabolism, disturbances in circulation, inflammation and neoplasia. This will prepare the student for the detailed study of the functional and structural abnormalities to be covered in the Systems Pathophysiology course during the

DESCRIPTION OF COURSES

second year. The subject material will be presented in conferences, lectures and demonstrations with reinforcement and illustration by selected laboratory experiments. 66 hours.

Second Year

Con 610. **Systems Pathophysiology** (See page 36.)

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 of 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 Problem in Experimental and Comparative Pathology**. Terms 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 601. **Research.** Any term, hours to be arranged.

Pth 605. **Reading and Conference.** Any term, hours to be arranged.

Pth 607. **Seminar.** Any term, hours to be arranged.

Pth 651. **Anatomic Pathology.** Any term, hours to be arranged.

Participation by the student in the autopsy and surgical pathology services and in related departmental conferences. Stress is placed on the correlation of the clinical and pathologic findings.

DIVISION OF NEUROPATHOLOGY

George C. Buchan, Head of Division

Professor: **George C. Buchan**

Affiliate: **Howard W. Huntington** (Good Samaritan Hospital)

DEPARTMENT OF PHARMACOLOGY

William K. Riker, Chairman of Department

Professor Emeritus: **Norman A. David**

Professors: **John D. Gabourel, Elton L. McCawley, William K. Riker**

Associate Professors: **Kaye E. Fox, Ralph T. Tanz, Herbert A. Wendel**

Assistant Professors: **Robert E. Brummett, Hall Downes, George D. Olsen**

Visiting Assistant Professor: **Sergio Guerrero**

Required Courses

Second Year

Phc 610. **Pharmacology.** 3 hours.

The course is designed to provide a firm understanding of the scientific principles of drug action and usage. It is an essential prelude to the applied, systems-oriented therapeutics to be taught in the subsequent Pathophysiology course. Major topics to be covered include: dose and time-effect relationships, selective toxicity, absorption, distribution, metabolism and elimination of drugs, pharmacogenetics, drug-drug interactions, and the clinical evaluation of drug efficacy and safety. In all the preceding topics major emphasis is placed on prototype, clinically useful drugs. Lectures, small group conferences, selected laboratory experiments and demonstrations: 48 hours.

Con 610. **Systems Pathophysiology** (See page 36.)

Elective Courses

Phc 501. **Research.** Term and hours to be arranged.

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

Phc 505. **Reading and Conference.** Term and hours to be arranged.

General Principles of Pharmacology.
Drug Metabolism.

DESCRIPTION OF COURSES

Molecular Pharmacology.
Pharmacogenetics.
Advanced Cardiovascular Pharmacology.
Neuropharmacology.
Clinical 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 derepression, 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.

Phc 601. **Research.** Term and hours to be arranged.

Phc 605. **Reading and Conference.** Term and hours to be arranged.

Phc 607. **Seminar.** Term and hours to be arranged.

DEPARTMENT OF PHYSIOLOGY

John M. Brookhart, Chairman of Department

Professors: **John M. Brookhart, Alfred J. Rampone, Benjamin B. Ross**

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

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

Research Associate: **Richard E. Talbott**

Clinical Research Associates: **J. David Bristow, Miles J. Edwards, Monte Greer, James Metcalfe, William A. Neill, George Porter, Patrick J. Reynolds** (Dental School)

Research Assistants: **Thomas J. Green, Lawrence R. Long, George Middleton**

Required Courses

First Year

Phy 410. **Human Physiology.** 7 hours, winter and spring.

Lectures, laboratory exercises and conferences devoted to mammalian physiology, with special application to the human. Consideration is 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 and laboratory. 150 hours.

Second Year

Con 610. **Systems Pathophysiology** (See page 36.)

Elective Courses

- Phy 501. **Research.** Any term, hours to be arranged.
Prerequisites : To be determined by instructor.
- Phy 505. **Reading and Conference.** Any term, hours to be arranged.
Prerequisites : To be determined by instructor.
- Phy 507. **Seminar.** Any term, hours to be arranged.
Prerequisites : To be determined by instructor.
- 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 measurement. 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 of 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 : To be determined by instructor.
- Phy 518. **Biological Transport Processes.** 4 hours, term to be arranged.
Topics include : Fick's law of diffusion ; membrane effects (diffusion of ions through an electrical field, molecular sieving, carrier-mediated diffusion, active transport, osmosis through "leaky" membranes) ; irreversible thermodynamic treatment of diffusion processes. Pertinent examples from the literature on artificial membranes, frog skin, muscle capillaries, and the renal tubule. Reading from monographs and original literature. Conference, 3 hours a week ; laboratory 6-hour periods on alternate weeks : 72 hours. Prerequisites : To be determined by instructor.
- 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 : To be determined by instructor.
- Phy 520. **Digestion and Absorption.** 3 hours.
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.
- 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 : To be determined by instructor.
- 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 : To be determined by instructor.

Clinical Sciences

CONJOINT COURSES—CLINICAL SCIENCE

Required Courses

Third Year

Con 620. **Child Health.** 18 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 the Crippled Children's Division. 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 continuity of care study which will necessitate involvement with the family, the community and social and medical agencies. Students will have experience in the newborn nurseries and the neonatal intensive care unit and will also have experience with normal children in a nursery school setting and with emotionally disturbed children.

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. 12 weeks. Lectures 60 hours; ward work, clinic, conferences, seminars, hospital rounds and demonstrations. 432 hours.

Con 621. **Neurosciences.** 9 hours.

An interdisciplinary course to prepare the student to examine and detect disorders of the eye, ear and central nervous system. The student will be exposed to case material and instruction adequate to familiarize him with the pathogenesis of major diseases in these areas and to enable him to recognize early malfunctions in the systems. The course will be taught by the neurology neurosurgery, ophthalmology, and otolaryngology sections in an integrated manner. 216 hours.

Elective Courses

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

Con 605. **Reading and Conference.** Any term, hours to be arranged.

Con 607. **Seminar.** Any term, hours to be arranged.

Con 609. **Clinical Experience.** Any term, hours to be arranged.

Con 650. **Primary Physician.** Any term, hours to be arranged.

The student will be exposed to a model of family practice utilizing existing clinic and hospital facilities.

DEPARTMENT OF ANESTHESIOLOGY

Norman A. Bergman, Chairman of Department

Professors: **Norman A. Bergman, Frederick P. Haugen**

Associate Clinical Professor: **David Gowing**

CLINICAL PATHOLOGY

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

Instructors: **Peter H. Erbguth, Homer C. Jones, Jr.** (Veterans Hospital), **Donald D. Preuss**

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

Residents: **Katharine M. Gartner, John B. Hasbrook, Milton T. Hummer, Myong-Hwan Kim, Franchot V. Love, Robert L. Miller, James H. Powell, Charles B. Reiman, Edwin H. Sasaki, Robert E. Sotta, Dan S. Yoshioka**

Lective Courses

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

nes 605. **Reading and Conference.** Any term, hours to be arranged.

nes 607. **Seminar.** Any term, hours to be arranged.

nes 609. **Clinical Experience.** Any term, hours to be arranged.

DEPARTMENT OF CLINICAL PATHOLOGY

Tyra T. Hutchens, Chairman of Department

Professors: **Clifford V. Allen** (Nuclear Medicine), **James L. Bramhall, Tyra T. Hutchens**

Clinical Professor: **Richard Thompson**

Associate Professors: **Margaret E. Berroth, James E. Haines, Martha Hamilton, Victor C. Marquardt Jr., Abdel Rashad**

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

Assistant Professors: **John P. Aitchison, Mary E. Baptist** (Medical Technology), **John D. Boyett** (Nuclear Medicine) (Veterans Hospital), **John D. Koontz, Kirtikant V. Sheth, J. Robert Swanson**

Visiting Assistant Professor: **Shinobu Tomita**

Assistant Clinical Professors: **Daniel M. Baer, William J. Brady, David S. Johnson, Eugene W. Landreth**

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

Clinical Instructors: **David J. Brown, Mary C. Campbell** (Medical Technology), **Archie Y. Hamilton, Robert E. Lawrence-Berrey**

Residents: **Robert Chamberlain** (Ph.D., Clinical Chemistry), **Erwin H. Hesselberg, Ronald N. Jones, Michael K. C. Kan, Thomas J. McNamara, Malida Pornpatkul, Christhart S. Schilbach**

Lective Courses

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

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

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

DESCRIPTION OF COURSES

- CP 520. **Advanced Nuclear Medicine Techniques.** Any term, hours to be arranged.
Conferences and demonstrations concerned with theory, methodology, and clinical interpretation of special nuclear medicine procedures.
- CP 521. **Advanced Nuclear Medicine Laboratory.** Any term, hours to be arranged.
Laboratory experience with special nuclear medicine techniques and instrumentation.
- CP 522. **Nuclear Medicine Laboratory.** Any term, hours to be arranged.
Laboratory experience with instruments used in nuclear medicine.
- CP 601. **Research.** Any term, hours to be arranged.
- CP 605. **Reading and Conference.** Any term, hours to be arranged.
- CP 607. **Seminar.** Any term, hours to be arranged.
- CP 609. **Clinical Experience.** Any term, hours to be arranged.

DEPARTMENT OF DERMATOLOGY

Walter C. Lobitz, Jr., Chairman of Department

Professor Emeritus: **Lyle B. Kingery**

Professors: **Richard L. Dobson, Funan Hu** (Primate Center), **Walter C. Lobitz, Jr., William Montagna** (Primate Center)

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

Associate Professors: **Kenji Adachi** (Primate Center), **Mary Bell** (Primate Center), **Luigi Giacometti** (Primate Center), **Paul F. Parakkal** (Primate Center)

Associate Clinical Professors: **Frank W. Crowe, Joyle Dahl, John Clifftor Massar, Troy G. Rollins, Bernard F. Ryan, John M. Shaw, Charles W. Watkins**

Assistant Professor: **Frances Storrs**

Assistant Clinical Professors: **Gordon A. Caron, Bruce R. Chenoweth, Walter G. Larsen, Donald G. Moyer, Paul S. Russell**

Clinical Instructors: **William F. Anderson, John M. Currie, Conrad A. De Lateur, David C. Frisch, William J. Hemphill, Albert E. Lerner, Don D. Martin, Bruce H. Miller, Richard A. Romaine, Ralph R. Sullivan, Richard C. Wright**

Research Assistants: **Joyce Beeman, Mary Campbell, Marlene Delay, Anthony Honeyman, Janice Johnson, Kathe Strangfeld**

Fellows: **Juan F. Honeyman, Dennis D. Knutson, Leonard Milstone, Norman W. Winkler**

Residents: **Alan C. Blagrund, David Druker, Wallace H. Knapp, Jr., Curtic Martin, Ellen B. Milstone, James E. Rasmussen, Dennis D. Russell, Leonard J. Swinyer, Daniel J. Trozak, David R. Wood**

Elective Courses

- Derm 601. **Research.** Any term, hours to be arranged.
- Derm 605. **Reading and Conference.** Any term, hours to be arranged.
- Derm 607. **Seminar.** Any term, hours to be arranged.
- Derm 609. **Clinical Experience.** Any term, hours to be arranged.

DIVISION OF FAMILY PRACTICE

Laurel Case, Head of Division

Associate Professor: **Laurel Case**

Assistant Professor: **John H. Gilberts**

Assistant Clinical Professor: **William A. Fisher**

Instructor: **Marianne Sanders**

Clinical Instructors: **William A. Bartlett, Luis G. Bianchini, Stanley A. Boyd, Donald A. Boye, June Byers, Malcolm S. Byers, Charles K. Chapman, Robert V. Crist, Dorin S. Daniels, Robert I. Daugherty, Peter DeWitt, Ronald A. Findlay, Peter S. Ford, John R. Gorman, Raymond T. Gustafson, Bernard Harpole, J. Allan Henderson, Crittenden Huston, Alfred C. Hutchinson, Willis J. Irvine, Marvin M. John, Raymond M. Johnson, Jr., Mark S. Kochevar, William C. Lawton, Charles M. Lindsay, Murdoch E. McIntyre, Glen C. Miller, Raymond E. Moore, Richard J. O'Shea, Merle Pennington, William Pynch, Dale C. Reynolds, G. Alvin Roberts, Wayne E. Roberts, Richard C. Robinson, William Ross, Charles L. Schroff, L. William Scott, John H. Skirving, Vernon L. Summers, Warren B. Thompson, Marvin J. Urman, Thomas A. Van Veen, John V. Vore, James B. Wade, Clifford S. Weare, John H. Weare, Gaylord C. Weeks, Frank G. White, Alton E. Wiebe, Allison B. Willeford, Homer Winslow, Peter T. Wolfe**

DEPARTMENT OF MEDICINE

J. David Bristow, Chairman of Department

Professors Emeriti: **D. W. E. Baird, Isidor C. Brill, Blair Holcomb, Noble Wiley Jones, Merl L. Margason, William H. Sheldon**

Professors: **Michael D. Baird, John A. Benson, Jr., J. David Bristow, C. Conrad Carter, Miles J. Edwards, Monte A. Greer, Herbert E. Grisworld, M. Roberts Grover, Jr., Hance F. Haney, Charles N. Holman, John B. Isom (Pediatrics), Donald G. Kassebaum, John W. Kendall, Jr., Robert D. Koler, Daniel H. Labby, Howard P. Lewis, Robert E. Mass (Veterans Hospital), James Metcalfe, Janet F. Morris (Veterans Hospital), Bernard Pirofsky, Leonard W. Ritzmann (Veterans Hospital), Arthur J. Seaman, James T. Speros, Janice R. Stevens**, Roy L. Swank, Joseph B. Trainer, John R. Walsh (Veterans Hospital)**

Clinical Professors: **Paul R. Burgner, Robert S. Dow, Huldrick Kammer, George B. Long, Robert D. Michel, Frank Perlman, Edward S. Rosenbaum, Philip Selling, John E. Tuhy, Franklin J. Underwood, Sheldon A. Walker**

Associate Professors Emeriti: **Aubrey M. Davis, Merle W. Moore**

Associate Professors: **Richard E. Bailey, Robert H. Bigley, Robert D. Goldman, Helmut Haas (Veterans Hospital), Gordon D. Haynie (Veterans Hospital), Frederick Hecht*, Frank E. Kloster, Marion L. Krippaehne, Wilbur L. E. Larson (Good Samaritan Hospital), Michael Litt, Manuel R. Malinow (Primate Center), Clifford S. Melnyk, William A. Neill (Veterans Hospital), George A. Porter, Marvin B. Rittenberg (Microbiology), John Gordon Roth, R. Bradley Sack, Geoffrey V. F. Seaman (Experimental Neurology), Paul Shick (Veterans Hospital), Frederic W. Smith (Veterans Hospital)**

** Leave of absence September 1, 1971 to August 31, 1972.

* Leave of absence July 1, 1971 to June 30, 1972.

DESCRIPTION OF COURSES

Associate Clinical Professors: Kurt W. Aumann, Samuel T. Beall, Arthur W. Berg, George A. Boylston, Charles W. Coffen, John R. Flanery, Marvin C. Goldman, Robert L. Hare, William W. Hurst, Laurence MacDaniels, Raymond A. McMahon, Norbert Medved, Thomas E. Morris, Donald E. Olson, Otto C. Page, Ralph B. Reaume, James A. Riley, Wayne R. Rogers, Leonard B. Rose, Marvin Schwartz, John L. Soelling, John W. Stephens, Donald W. Sutherland, William J. Swett, David K. Taylor, James MacD. Watson, Charles P. Wilson

Assistant Professors: Emil Bardana, Jr., Curtis C. Bell (Good Samaritan Hospital), William M. Bennett, John D. Boyett (Veterans Hospital), Reid S. Connell, Jr., David M. Cook, Howard R. Dewey (Good Samaritan Hospital), Peggy Cople Ferry, Max A. Forse (Veterans Hospital), Robert Grimm (Good Samaritan Hospital), John D. Hill (Primate Center), Curtis R. Holzgang, Howard Huntington (Good Samaritan Hospital), Robert Kim (Veterans Hospital), Edna L. Kremkau, Muriel D. Lezak (Veterans Hospital) (Medical Psychology), Henrik A. B. Lundl (Veterans Hospital), Ruth Mercer (Dietetics), Charles J. Zerzan, Jr., Lawrence S. Zivin

Assistant Clinical Professors: William S. Beck, Philip E. Blatt, Orville W. Boicourt, Michael T. H. Brodeur, Rodney L. Crislip, Leland L. Cross (Rehabilitation), Donald E. Forster, William P. Galen, David N. Gilbert, Leonard M. Goldberg, Morton J. Goodman, Robert H. Gray, Waldo E. Harris, Marcus M. Horenstein, Jay C. Hoyt, Richard H. Kosterlitz, Lewis J. Krakauer, John J. Krygier, Walter J. Kuhl, T. David Lee, Jr., Aarne J. Lindgren, Ernest T. Livingstone, Guy R. McCutchan, Roy R. Matteri, Gordon L. Maurice, Walter E. Meihoff, Byron U. Musa, John D. O'Hollaren, Richard D. O'Toole, Joseph F. Paquet, Roy A. Payne, Heyes Peterson, Robert E. Rinehart, George M. Robins, Irvin F. Rumbaugh, James R. Schimshock, William C. Scott, Herbert Semler, Wil L. Senders, Ralph E. Shambaugh, John B. Wild

Senior Instructor: Russel L. Baker (Good Samaritan Hospital)

Senior Clinical Instructors: John A. Blanchard, William Cohen, Stanton L. Freidberg, Leo J. Freiermuth, John J. Greve, Thomas M. Haun, Thomas S. Healy, Wesley R. Jacobs, Paul O. Kretschmar, Walter G. Larsen, Robert G. McKillop, James L. Mack, William R. Olson, Robert G. Pittenger, Donald N. Wysham

Instructors: George S. Barton (Good Samaritan Hospital), Theofilus de Bruin, Henry DeMots (Veterans Hospital), Clifford A. Fratzke, Jack H. Hutchinson, Delmar J. Mahler (Veterans Hospital), Laurence Mills (Good Samaritan Hospital), Donald Rushmer (Good Samaritan Hospital), Arthur F. Zbinden

Clinical Instructors: Alan W. Ames, Cameron C. Bangs, Frank J. Baumeister, J. Bruce Bell, Donald B. Bowman, Larry T. Brice, Rosemary E. Brodie, Melissa L. Buchan, A. Sonia Buist, Jack L. Chitty, Eric W. S. Craig, H. Lenox H. Dick, Richard B. Dobrow, 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, P. Rocca Garofalo, James B. Gillick, Charles K. Griffin, Paul Q. Hull, Peter B. Hutchinson, Joseph A. Intile, Eugene Kazmierski, Foste F. Keene, David D. Kliewer, John Ladd, L. William Larson, Jonathan Levine, Stephen W. Maks, Leonora B. Manzano-Dantas, Charles L. Martinson, Harry W. Masenhimer, Frank McBarron, William H. McCarthy, S. Spence Meighan, Fred C. Nachtigal, Frederick J. Oerther, Donald Roy Olson, Edwin G. Palmrose, Carl A. Peterson, Charles T. Pinney, Jerome Reich, Philip J. Reilly, Gerald R. Reimer, William E. Robertson, Donald T. Romanaggi, David R. Rullman, Perry R. Sloop, Jr., Roger G. Smith, George V. Squires, Roy Glenn Snodgrass, Trenton J. Spolar, Henry E. Storino, Esther A. Strom, Donald E. Tatum, Frank D. Thomas, Robert Thune, Hugo Uhland, David G. Van Sickle, Alber

F. C. Vervloet, Marvin J. Weinstein, W. Mark Wheeler, III, David C. Wiley, Robert D. Wilson, Gordon F. Wolfe, James V. Woodworth

Residents: **Grover C. Bagby, Jr., Henry De Mots, Mark T. Hattenhauer, William D. Jones, Donald A. Roberts, Gordon A. Wong**

Assistant Residents: **Eldon D. Anderson, Gerald L. Arthur, Howard W. Baumann, Noel Curry, Patrick P. Desmond, Jr., George M. Douglass, Donald E. Girard, Michael N. Hartnett, James M. Johnson, Emmet B. Keeffe, Benjamin W. Lei, Clifford T. Lewis, Brian T. Paaso, Richard A. Schaefer, Roger W. Steinbrenner**

Junior Assistant Residents: **Clifford J. Anderson, Susan P. Bagby, James T. Berryman, Jr., Stephen Chandler, Marvin D. Fredrickson, William E. Holden, Dennis Jensen, Edward Kuehnel, Leslie R. Naman, Ronald A. Ruhl, Jonathan P. Schechter, Charles J. Schwartz, Fred R. Sullivan, Jr., Sidney Yassinger**

DIVISION OF CARDIOLOGY

Herbert E. Griswold, Head of Division

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

Professors: **J. David Bristow, Herbert E. Griswold, Hance F. Haney, Donald G. Kassebaum, James Metcalfe*, Leonard W. Ritzmann** (Veterans Hospital)

Clinical Professor: **Franklin J. Underwood**

Associate Professor Emeritus: **Aubrey M. Davis**

Associate Professors: **Manuel R. Malinow** (Primate Center), **Frank E. Kloster, William A. Neill** (Veterans Hospital)

Associate Clinical Professors: **Charles W. Coffen, William W. Hurst, Ralph B. Reaume, James A. Riley, Wayne R. Rogers, Leonard B. Rose, Marvin Schwartz, Donald W. Sutherland, William J. Swett**

Assistant Professor: **Edna Kremkau**

Assistant Clinical Professors: **Orville W. Boicourt, Michael T. H. Brodeur, Rodney L. Crislip, William P. Galen, Leonard M. Goldberg, Waldo E. Harris, T. David Lee, Jr., Gordon L. Maurice, Irvin F. Rumbaugh, Herbert Semler, John B. Wild**

Instructor: **Jack H. Hutchinson**

Senior Clinical Instructors: **Stanton L. Freidberg, Wesley R. Jacobs, Donald N. Wysham**

Clinical Instructor: **Alan W. Ames**

Fellows: **John Burg, D. Angus Duncan, Arthur Dodek** (Veterans Hospital), **Jerold A. Hawn, Michael Hinnen, William Owens**

SECTION OF RENOLOGY

George A. Porter, Chief of Section

Associate Professors: **Gordon D. Haynie** (Veterans Hospital), **George A. Porter**

Assistant Professors: **William M. Bennett, Henrik A. B. Lundh** (Veterans Hospital)

Clinical Instructors: **Richard F. Drake, Charles L. Martinson, Frederick J. Oerther, Donald Roy Olson, Frank D. Thomas, W. Mark Wheeler, III**

*Oregon Heart Association Chair of Cardiovascular Research.

DESCRIPTION OF COURSES

DIVISION OF CHEST DISEASES

Miles J. Edwards, Head of Division

Professors: **Miles J. Edwards**, **James F. Morris** (Veterans Hospital), **James T. Speros**

Clinical Professors: **Robert D. Michel**, **John E. Tuhy**

Associate Professor: **Helmut Haas** (Veterans Hospital)

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

Assistant Professor: **Max A. Forse** (Veterans Hospital)

Senior Clinical Instructors: **John J. Greve**, **James L. Mack**

Clinical Instructors: **A. Sonia Buist**, **Charles T. Pinney**, **Jerome Reich**, **Albert Vervloet**

Research Associate: **Belle Cannon**

Research Assistant: **Joan Albertson**

Fellow: **Vitolds Vitums**

DIVISION OF DIABETES AND METABOLISM

John W. Kendall, Jr., Head of Division

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

Associate Professor: **Richard E. Bailey**

Associate Clinical Professors: **Robert L. Hare**, **Otto C. Page**, **John W. Stephens**

Assistant Clinical Professor: **Marcus M. Horenstein**

Senior Clinical Instructor: **Robert G. McKillop**

Clinical Instructor: **Eldon L. Erickson**

Research Assistant: **Dorothy Macfarlane**

DIVISION OF ENDOCRINOLOGY

Monte A. Greer, Head of Division

Professor: **Monte A. Greer**

Clinical Professor: **Huldrick Kammer**

Associate Clinical Professor: **Kurt W. Aumann**

Assistant Professor: **David M. Cook**

Assistant Clinical Professors: **Philip E. Blatt**, **Walter J. Kuhl**, **Ernest T. Livingstone**

Clinical Instructor: **Larry T. Brice**

Research Fellows: **John Allen**, **John Jacobs**

Research Assistants: **Catherine Allen**, **Rosanne Kramer**

DIVISION OF GASTROENTEROLOGY

John A. Benson, Jr., Head of Division

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

Clinical Professor: **George B. Long**

Associate Professors: **Clifford S. Melnyk**, **Paul Shick** (Veterans Hospital), **Frederic W. Smith** (Veterans Hospital)

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

Assistant Professor: **Charles J. Zerzan, Jr.**

Assistant Clinical Professors: **Lewis J. Krakauer, Walter E. Meihoff, Heyes Peterson**

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

Clinical Instructors: **Donald G. Edwards, John H. Ellison, William B. Evans, David G. Van Sickle**

Research Assistant: **Jeanne Carol DeBernardi**

DIVISION OF HEMATOLOGY

Arthur J. Seaman, Head of Division

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

Associate Professors: **Robert H. Bigley, Robert D. Goldman**

Assistant Professor: **John D. Boyett** (Veterans Hospital)

Senior Clinical Instructor: **Robert Pittenger**

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

Research Assistants: **Bonita Huebner, Charlotte Moffat**

Clinical Fellow: **Theodore A. Walters**

DIVISION OF IMMUNOLOGY AND ALLERGY

Bernard Pirofsky, Head of Division

Professor: **Bernard Pirofsky**

Clinical Professors: **Frank Perlman, Philip Selling**

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

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

Assistant Professor: **Emil J. Bardana**

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

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

Research Assistants: **Anne August, Gordon Davies, Katherine Pratt, Barbara Straub**

Fellows: **Raymond Beaulieu, Ernestine de Corrales, Lawrence M. Garges**

DIVISION OF INFECTIOUS DISEASE

R. Bradley Sack, Head of Division

Professor: **James F. Morris** (Veterans Hospital)

Associate Professor: **R. Bradley Sack**

Assistant Professors: **Michael J. Miller** (Pediatrics), **Abdel Rashad** (Clinical Pathology)

Assistant Clinical Professors: **David N. Gilbert, Richard D. O'Toole**

DESCRIPTION OF COURSES

DIVISION OF NEUROLOGY

Roy L. Swank, Head of Division

Professor Emeritus: **Merl L. Margason**

Professors: **C. Conrad Carter**, **Robert S. Dow** (Good Samaritan Hospital),
Janice R. Stevens*, **Roy L. Swank**

Associate Professors: **John B. Isom** (Pediatrics), **John Gordon Roth**, **Geoffrey V. F. Seaman** (Experimental Neurology)

Associate Clinical Professors: **Wilbur L. E. Larson** (Good Samaritan Hospital),
James MacD. Watson

Assistant Professors: **Curtis C. Bell** (Good Samaritan Hospital) **Reid S. Connell, Jr.**, **Howard R. Dewey** (Good Samaritan Hospital), **Peggy Cople Ferry** (Pediatrics), **Robert Grimm** (Good Samaritan Hospital), **Howard Huntington** (Good Samaritan Hospital), **Robert Kim** (Veterans Hospital), **Muriel D. Lezak** (Veterans Hospital) (Medical Psychology), **Lawrence S. Zivin**

Assistant Clinical Professors: **Leland L. Cross** (Rehabilitation), **James R. Schimshock**

Senior Instructor: **Russel L. Baker** (Good Samaritan Hospital)

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

Clinical Instructors: **J. Bruce Bell**, **Rosemary E. Brodie**, **H. Lenox H. Dick**, **P. Rocca Garofalo**, **Jonathan Levine**, **Philip J. Reilly**, **Gerald R. Reimer**,
Roy Glenn Snodgrass, **Henry E. Storino**

Research Associates: **Lavelle Jackson**, **Tadashi Kawasaki** (Good Samaritan Hospital), **Kathleen Prichard**

Research Assistants: **Mike Davis**, **Matthias Kimeny**

Residents: **Bhisit Bhothiadisuanukul**, **Carl Bisgard**, **Patricia Eraker**, **Sundar Lal Goel**, **Gregory Samaras**, **Mary Ellen Stanger**, **Luther Stumme**, **Rudolph Taubner**

DIVISION OF RHEUMATOLOGY

Edward E. Rosenbaum, Acting Head of Division

Clinical Professor: **Edward E. Rosenbaum**

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

Assistant Clinical Professor: **Robert E. Rinehart**

Senior Clinical Instructor: **Paul O. Kretschmar**

Clinical Instructors: **John R. Ladd**, **Perry R. Sloop, Jr.**, **Esther A. Strom**

Internal Medicine—Required Courses

Second Year

Med 610. **Patient Evaluation.** 5 hours.

Lectures, demonstrations, practice sessions and ward rounds dealing with the principles of history taking, physical examination, and the pathophysiological basis for physical signs. 126 hours.

Third Year

Med 620. **Third-Year Medicine.** 18 hours.

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

* Leave of absence September 1, 1971 to August 31, 1972.

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 taking, physical examination, and differential diagnosis. Night or weekend duty on a rotational basis may be required. The 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 and a Medicine mortality conference. Conferences 7½ hours a week for twelve weeks. Clerkships 28½ hours a week for twelve weeks. 432 hours.

Internal Medicine—Elective Courses

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

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

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

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.** Any term, hours to be arranged.

Med 607. **Seminar in Medicine.** Any term, hours to be arranged.

Med 609. **Clinical Experience.** Any term, hours to be arranged.

Med 681, 682. **Premarital and Marital Counseling in Medical Practice and the Medical Problems of Sexuality.** 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 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 694. **Fluid Electrolytes and Acid Base Regulation.** 1 hour.

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 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.

Neurology—Required Courses

Third Year

Con 621. **Neurosciences.** (See page 50.)

Elective Courses

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

Neu 605. **Reading and Conference.** Any term, hours to be arranged.

Neu 607. **Seminar.** Any term, hours to be arranged.

Neu 609. **Clinical Experience.** Any term, hours to be arranged.

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 Professors: **John G. P. Cleland, Howard C. Stearns**

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

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

Assistant Professors: **Burritt W. Newton, Miles J. Novy (Primate Center), Martin Pernoll**

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, Alfred N. Marshall, Joseph C. Mitchell, Max H. Parrott, Jesse L. Ray, William O. Thomas**

Clinical Instructors: **Bennett I. Alberts, Phillip S. Alberts, Richard Allen, John O. Bergstrom, John E. Cleland, Ronald H. Copeland, Raymond S. Corwin, James E. Dahlman, Betty Jo Davenport, Enrique M. DeCastro, Robert P. Doughton, Thomas K. Griffith, Mark R. Hanschka, George S. Hara, Curtis J. Hendricks, William W. Hicks, Jr., John C. Krauss, Ivan I. Langley, Harry A. Lee, Peter H. R. Roberts, Quinten Scherman, John W. Tarnasky, Thomas L. Thornton, Peter A. Tyerman, Glen H. Weyrich, Earl R. Williams**

Residents: **Michael M. Axman, Christopher Bice, Daniel F. Brown, Thomas E. Brugger, Kenneth A. Burry, William Y. Burton, Jr., Roger W. Carnes, Ronald E. Carver, James A. Cross, Jörg Hecker, Robert B. Jacobson, Raymond E. Kauffman, Herschel Lawson, David N. Leaf, Michael J. Morris, Bryan D. Thom**

Required Course**Fourth Year**

ObG 630. **Fourth-Year Obstetrics and Gynecology.** 9 hours, one section each term.

Fourth-year students study obstetrics and gynecology by means of hospital clerkships, attendance and participation in deliveries, and work in the gynecology clinic. Obstetrical cases in the hospital are examined and followed; there is active participation in ward rounds and teaching conferences. Each student must observe 12 deliveries, participate in at least six 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 six weeks, in sections. Gynecology Clinic, 10 hours a week for 3 weeks. Obstetrics Clinic, 10 hours a week for 3 weeks. General Clinical Conference, 2 hours a week for 6 weeks.

Elective Courses

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

ObG 605. **Reading and Conference.** Any term, hours to be arranged.

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

ObG 609. **Clinical Experience.** Any term, hours to be arranged.

ObG 650. **Fetal Neonatal Death Conference.** ½ hour, any term.

DEPARTMENT OF OPHTHALMOLOGY

Kenneth C. Swan, Chairman of Department

Professor Emeritus: **E. Merle Taylor**

Professors: **Robert P. Burns, Leonard Christensen, Kenneth C. Swan**

Clinical Professor: **Lester T. Jones**

Associate Professor: **Virginia L. Weimar**

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

Assistant Professors: **M. Lynette Feeny, Sam L. Meyer**

Assistant Clinical Professors: **Paul F. Bailey, W. Leigh Campbell, Robert C. Cowger, Walter R. Enders, Robert E. Fischer, Robert F. Haney, Robert V. Hill, Richard A. Lalli**

Senior Instructor: **Andrea B. Cibis Tongue**

Senior Clinical Instructors: **Robert H. Bedrossian, Alfred J. Kreft, Richard E. Markley, Robert N. Page, Jr., K. Nolan Tanner, Gerald A. Terman**

Clinical Instructors: **Malcolm I. Brewer, Roy J. Ellsworth, William F. Farr, John T. Flaxel, Donald R. Johnson, Alvin M. Klass, Horace C. Robison, James A. Saunders, John L. Wobig**

Residents: **William B. Baer, David A. Durfee, James Fontaine, Ralph Helzerman, Jr., David B. Jones, Earl Palmer, Lee H. Peterson, William J. Prendergast, William T. Schults, Terry Sorom, Gary M. Stewart, Richard G. Weleber**

DESCRIPTION OF COURSES

Required Course

Third Year

Con 621. **Neurosciences.** (See page 50.)

Elective Courses

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

Supervised research training in the John E. Weeks Memorial Laboratory of Ophthalmology: ocular pathology, physiology, cellular physiology, pharmacology and experimental surgery.

Eye 605. **Reading and Conference.** Any term, hours to be arranged.

Eye 607. **Seminar.** Any term, hours to be arranged.

Eye 609. **Clinical Experience.** Any term, hours to be arranged.

Intensive study of visual system and disorders. Active participation in patient care in clinic and wards. Attendance in classes and conferences for residents. Opportunity to participate in departmental research activity.

DEPARTMENT OF OTOTOLOGY, 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 Professors: **Robert E. Brummett** (Kresge Research Laboratory), **Alexander J. Schleuning**

Assistant Professors: **McKenzie W. Buck** (Speech Pathology) (Portland Center for Hearing and Speech), **Edwin C. Everts**, **Paul N. Herman** (Kresge Research Laboratory), **Warren E. Johnson** (Audiology) (Portland Center for Hearing and Speech), **Kenneth D. Smyth**, **Gordon W. Summers**, **T. Glenn Ten Eyck** (Veterans Hospital)

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

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

Clinical Instructors: **Oscar C. Chowning, Jr.**, **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: **Alfred N. Carr**, **Maurice J. Comeau**, **Gordon A. Dowsett**, **John Echevarria**, **Lawrence T. Eschleman**, **William R. Lee**, **W. Neal Manor**, **Glenn A. Milligan**, **Robert L. Moesinger**, **Brian D. Saine**, **John L. Traynor**, **Bud Allen West**

Required Course

Third Year

Con 621. **Neurosciences.** (See page 50.)

Elective Courses

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

ENT 605. **Reading and Conference.** Any term, hours to be arranged.

ENT 607. **Seminar.** Any term, hours to be arranged.

ENT 609. **Clinical Experience.** Any term, hours to be arranged.

DIVISION OF DENTISTRY

Louis G. Terkla, Head of Division

Professors: **Robert J. Bruckner, Ernest H. Hixon, John P. Jarabak, Oscar N. Lucas, Ralph G. Merrill, Duane R. Paulson, Donald R. Porter, Norman H. Rickles, Bhim S. Savara, Louis G. Terkla**

Associate Professors: **Murray H. Bartley, James S. Bennett, John S. Gullikson, J. Theodore Jastak, Richard J. Mathewson, Robert S. Parker, James V. Woodworth, LeGrande H. Woolley, Wellesley H. Wright**

Assistant Professors: **Christ Bouneff, Lee E. Emery, Jr., David G. Fleetwood, Donald F. Kelly, Allan R. Pike, Richard R. Ranney, John P. Thomas, Charles C. Thompson**

Instructor: **Frank E. McKeown**

DEPARTMENT OF PEDIATRICS

Richard W. Olmsted, Chairman of Department

Professors: **S. Gorham Babson, Harold Boverman, Robert A. Campbell, Leroy O. Carlson, William M. Clark Jr., Rudolf C. H. Engel, John B. Isom, Martin H. Lees, Herold S. Lillywhite (Speech Pathology), Robert J. Meechan, Victor D. Menashe, Richard W. Olmsted, L. Paul Rasmussen, Richard L. Sleeter**

Clinical Professors: **Daniel K. Billmeyer, John W. Bussman, Scott Goodnight, John A. May, George A. Nash, Edward Press, Edgar M. Rector, George J. Schunk, John L. Stevenson, Clemens W. Van Rooy, George F. Walliker, Jr., Alvin D. Wert**

Associate Professors: **Robert W. Blakeley (Speech Pathology), Eugene Blank, Neil R. M. Buist, Robert A. Campbell, Warren H. Fay (Speech Pathology), Peggy J. Copple Ferry, Frederick Hecht*, Everett Lovrien, David W. Macfarlane, Michael J. Miller, Christopher P. S. Williams, Norton B. Young (Audiology)**

Associate Clinical Professors: **Henry L. Boehnke, Quinten W. Cochran, Morton G. Eleff, Walter A. Goss, Joseph T. Hart, Edward L. Hendricks, Peter L. Hurst, Donald F. Kelly, Harvey D. Klevit, Arthur D. Kracke, Oliver N. Massengale, Robert A. Mendelson, Lendon H. Smith, William M. Snook, John A. Springer, Robert E. Thornfeldt, Charles Varga**

Assistant Professors: **Alberto Castro, Kathrine S. French (Anthropology), Julia Grach, Ellen Magenis, Cecille Sunderland, Walter A. Sunderland, Emily Tufts, Herbert M. Woodcock**

Assistant Clinical Professors: **Carl G. Ashley, Harold R. Blair, Allan K. Chapel, Joseph L. Emmerich, Thomas E. Frothingham, John R. Hansen, James T. Hartford, William E. Hill, Frank M. Jacobson, E. Albert Moody, L. Lee Murdoch, Jay F. O'Leary, James M. Pomeroy, Thomas L. W. Roe, David L. Sessions, Ranvir H. Sinanan, Robert E. Stanton, James P. Whittemore**

Instructors: **Mary J. Amdall, Gerda Benda, Martha L. Williams, Lawrence J. Wolf**

DESCRIPTION OF COURSES

Clinical Instructors: John R. Berry, James A. Brooks, Richard E. Cavalli, Calvin C. Clark, Jerome H. Dayton, J. Kenneth Fleshman, Donald W. Fortlage, Herman Frankel, Richard D. Frisbie, Andrew Glass, Larry J. Hall, Allen D. Harlor, Jr., Berthold Leibrecht, Werner P. Meyn, William J. Miller, James S. Noble, Thomas E. Olsen, James F. Stager, Mary S. Urry, Maximo C. Yao*, Eldon W. Younger

Residents: Steven Bidleman, Carl Eisenberg, Robert Goetz, Gary Harding, Alan Hill, William Johnson, Joseph Lambert, James McMahon, Bernard Marquardt, James Means, Thomas Porter, Betty Reiss, David Spence, Sandra Vilhauer, David Weaver

Fellows: Banoo Jhaveri, James Nusrala, James E. Musgrave, Jack Rosenberg, Yeshawant Talwalkar

Required Course

Third Year

Con 620. **Child Health.** (See page 50.)

Elective Courses

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

Ped 605. **Reading and Conference.** Any term, hours to be arranged.

Ped 607. **Seminar.** Any term, hours to be arranged.

Ped 609. **Clinical Experience.** Any term, hours to be arranged.

Ped 650. **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 651. **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 Department of Medicine, Radiologic Diagnosis, Surgery, and Pediatrics. 2 hours a week: 24 hours.

DEPARTMENT OF PSYCHIATRY

George Saslow, Chairman of Department

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

Professors: **Paul H. Blachly**, **Harold Boverman** (Child Psychiatry), **Samuel Irwin** (Pharmacology), **George Saslow**

Clinical Professor: **Herman A. Dickel**

Associate Professors: **D. Duane Denney**, **Vincent Glaudin** (Veterans Hospital) (Psychology), **Ivan B. Inger**, **Nancy Kosterlitz** (Psychiatric Social Work), **John B. Marks** (Psychology), **Alan L. Morgenstern**, **Ira B. Pauly**, **Agnar A. Straumfjord**, **Robert E. Taubman**

Associate Clinical Professors: **Thomas T. Bennett**, **Siegfried R. Berthelsdorf**, **John L. Butler**, **Robert I. Daugherty**, **Leon J. Fine** (Group Processes), **Hans F. Fink**, **Wendell H. Hutchens**, **John Lingas**, **Carl V. Morrison** (Child Psychiatry), **Guy A. Parvaresh**, **Edward M. Scott** (Psychology), **John H. Waterman**

Assistant Professors: Arlen Quan, Marcia C. Scott, John S. Tovey (Psychiatric Social Work), Donald J. Winans, Herbert Woodcock (Child Psychiatry)

Assistant Clinical Professors: Douglas R. Bottomly, James D. Bray, Edward M. Colbach, Richard E. Collins, John M. Deeney, Buell E. Goocher (Psychology), Victor Gregory, Grant B. Hughes, N. B. Jetmalani, Reid R. Kimball, William J. M. MacKenzie, Donald McKinley, Robert L. Mighell, Kenneth G. Paltrow, Richard H. Phillips, Wayne M. Pidgeon, Robert E. Ransmeier, David L. Sessions (Pediatrics), Julian R. Taplin

Instructors: Mary J. Amdall, Ervin G. Stubbs

Clinical Instructors: Patricia G. Amstadter (Child Psychiatry), Joseph W. Ball, John D. Bischel, C. Carter Boggs, Charles C. Brown, Alan Frankel, (Psychology), Velma J. Horenstein, Charles E. Johnston, George D. C. Kjaer, Robert C. Luther, Richard I. Newman (Psychology), James L. Petroske, G. Wayne Plummer, James H. Shore, Mary Anne Smith, Phillip R. Trautmann, Theodore P. Utt, Daniel V. Voiss, Ralph D. Worthy-lake

Research Associate: Peter Maher

Residents: Richard H. Angell, Timothy A. Burton, Charles G. Demitz, James W. Eastman, Nora L. Fairley, James A. Farley, Dennis G. Frisbie, Mary M. Hanley, Jerry K. Larsen, Barry M. Maletzky, Harold R. McCartor, Michael J. McCulloch, Grant D. Miller, Kent E. Neff, Joel A. Reisman, Richard J. Taggart, Jeffrey D. Thompson, Peter-Barrett Vaughey, George J. Vlahakis

Required Courses

First Year

Psy 410. **The Human Context of Medical Practice.** 2 hours, fall.

The major goal of this course is to make explicit the student's awareness of basic problems of human life that are germane to medical practice. By the use of lectures, clinical demonstrations, and discussions, a student will become aware of alternative choices in many medical decisions and the impact his own attitudes and values have in making these decisions. He will also become aware of the impact upon himself of medical attitudes and values that differ from his own. He will learn to elicit clear statements of another's attitudes and values about matters of importance to the other person. The student will learn basic communicative skills such as paraphrasing, behavior description and summarizing, that he can use in the day-to-day problems confronting a medical student. Finally, he will learn to function as a member of an inter-professional health team and with non-health groups that influence medical practice. Lectures, clinical demonstrations and discussions. 33 hours.

Third Year

Con 620. **Child Health.** (See page 50.)

Fourth Year

Psy 630. **Psychiatry Clinical Clerkshop.** 9 hours.

The clinical clerkship in psychiatry affords the opportunity to expand concepts and to obtain clinical experiences in psychiatric illness and the emotional correlates of physical disease. Systematic instruction in 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, emergency room, community health facilities, and in consultation with the pediatric, medical and surgical services. Special emphasis is placed on further development of the student's interviewing and interactional skills with patients. 216 hours.

DESCRIPTION OF COURSES

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.

Psy 609. **Clinical Experience.** Any term, hours to be arranged.

DEPARTMENT OF PUBLIC HEALTH AND PREVENTIVE MEDICINE

Harold T. Osterud, Chairman of Department

Professors: **William E. Morton, Harold T. Osterud, Julian S. Reinschmidt**

Clinical Professor: **Edward Press**

Associate Clinical Professors: **Peter J. Batten, Thomas J. Fox, Merwyn Greenlick, Arthur Oleinick, Samuel B. Osgood, Warren S. Welborn**

Assistant Professors: **Edward Goldblatt, P. John Kim**

Assistant Clinical Professors: **Hugh E. Dierker, John H. Donnelly, Rolland A. Martin, Thomas L. Meador, Forrest E. Rieke**

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, George L. Toombs, 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 Instructor: **John T. Redfield**

Research Assistants: **H. Anthony David, Dana Escheleman, Allan R. Schuff**

Required Courses

First Year

PH 410. **Public Health and Epidemiology.** 3 hours, fall and winter.

Introduction to concepts and measurements of community health status and problems; emphasis upon human ecology, epidemiology, biostatistics, and environmental sanitation. Lectures, demonstrations and seminars. 73 hours.

Third Year

Con 620. **Child Health.** (See page 50.)

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.

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

PH 605. **Reading and Conference.**

Law and Medicine: Winter term, hours to be arranged.

A course in medical law, including the basis of law, malpractice, partnerships, contracts and forensic pathology. Three hours a week, 12 weeks.

Epidemiology: Any term, hours to be arranged.

Investigation and field studies. Students choose a subject of interest in preventive medicine, public health, delivery of medical care, etc. Six or 12 weeks.

PH 607. **Seminar.** Any term, hours to be arranged.

PH 609. **Clinical Experience.**

Clinical Field Experience: Any term, hours to be arranged.

Field experience in community medicine and public health or environmental medicine. Emphasis on student's area of interest. Six or 12 weeks.

DEPARTMENT OF RADIOLOGIC DIAGNOSIS

Charles T. Dotter, Chairman of Department

Professors: **Marcia K. Bilbao, Charles T. Dotter, Louis H. Frische, Josef Rösch**

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

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

Associate Professor: **Eugene Blank**

Associate Clinical Professors: **Wayne G. Erickson, 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), **Loren W. Stille** (Veterans Hospital)

Assistant Clinical Professors: **Raymond F. Friedman, Gerald S. Green, Robert L. Mueller, David L. Wishart**

Clinical Instructors: **Richard Arkless, Seymour Haber, John B. Leary, James R. McDougall, Gregory B. Nichols, Ronald W. Phillips, William E. Purnell, Michael J. Roddy, Jon C. Sewell, Gordon A. Stoney, Donald A. Turcke, Cameron J. Wiley, Oscar K. Williams**

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

Research Assistants: **Harold J. Kidd, Robert C. Lakin**

Cardiovascular Fellows: **Ruza Antonovic, Paul C. Lakin**

Residents: **Janice M. Anderson, Richard S. Anderson, Michael J. Brown, John R. Cooper, David C. Holman, William K. Lloyd, DuWaine T. Matthews, Gordon C. Miller, Anthony G. Pappas, Natale D. Quilici, John J. Rademacher, Robert W. Rose, James Whiting, David W. Wilder**

Required Course

Third Year

DRad 620. **Radiographic Diagnosis.** 1½ hours. Fall, winter and spring.

Broad experience in the interpretation and reporting of X rays through weekly

DESCRIPTION OF COURSES

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.

Elective Courses

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

DRad 605. **Reading and Conference.** Any term, hours to be arranged.

DRad 607. **Seminar.** Any term, hours to be arranged.

DRad 609. **Clinical Experience.** Any term, hours to be arranged.

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 RADIATION THERAPY

Clifford V. Allen, Chairman of Department

Professor: **Clifford V. Allen**

Associate Professor: **James E. Haines** (Nuclear Medicine)

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

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

Assistant Clinical Professor: **John J. Galluci**

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

Residents: **Michael C. Huntington, R. Eugene Lienert, Raymond L. Penniman, Roland D. Ostlund**

Required Course

Second Year

See Con 610. **Systems Pathophysiology.** (Page 36.)

Elective Courses

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

RadT 605. **Reading and Conference.** Any term, hours to be arranged.

RadT 607. **Seminar.** Any term, hours to be arranged.

RadT 609. **Clinical Experience.** Any term, hours to be arranged.

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

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

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

Associate Professors: Stanley W. Jacob, Ralph D. Robertson

Associate Clinical Professors: William C. Awe, Daniel L. Dennis, William J. Garnjobst, Guy W. Gorrell, LeRoy E. Groshong, Edward E. Wayson, Werner E. Zeller

Assistant Professors: Benjamin S. Leung, John M. Porter, Don C. Wood

Assistant Clinical Professors: Richard P. Andrews, John W. Bassett, Harry G. Beckwith, Jr., Nathan J. Campbell, Donald L. Cleland, J. Gordon Grout, Russell G. Gustavson, Roger W. Hallin, Martin A. Howard, Russell L. Johnsrud, Donald R. Laird, Verner V. Lindgren, Robert W. Marcum, Joseph W. Nadal, Philip F. Parshley, Jr., Willard D. Rowland, Ambrose B. Shields, Richard D. Sloop, Philip A. Snedecor, Dan N. Stefanoff, John P. Trommald, Alvin O. Uhle, Nathaniel D. Wilson

Senior Clinical Instructors: Fred W. Bieker, Jack Blumberg, Darrell C. Bolam, Paul M. Brown, Hugh Donald Colver, Arch Diack, Latham Flanagan, Paul D. Foster, George Thomas Harding, Theodore L. Hyde, Toshio Inahara, Jack D. Jefferson, Roderick L. Johnson, Harley D. Kelley, Gary H. Leaverton, Richard H. Lindquist, Otto L. Loehden, William R. McAllister, Roland M. Mayer, James V. Meyer, David B. Miller, H. Minor Nichols, Ralph D. Odell, Robert W. Olwine, Daniel L. Reed, Walter C. Reiner, Joseph M. Roberts, Keith A. Robertson, Nathan Shlim, Eugene S. Sullivan, Linton G. Weed

Clinical Instructors: Benny Lee Bachulis, Jack E. Battalia, Frederick H. Bentley, Esmond Braun, Keith M. Clisby, Ralph Garr Cutler, Zanley C. Edelson, Lester H. Eisendorf, Richard Gingrich, Guy K. Guffee, John F. Hayes, Joseph R. Kantor, Reinhold Kanzler, Chang H. Lee, G. Prentiss Lee, R. Kent Markee, William R. Marshall, Willard L. Mathieson, Jack Naylor, James G. Owen, Robert W. Patton, Irving Puziss, Melvin M. Reeves, William M. Rosenbaum, Leland Clair Spaulding, Charles R. Starr

Instructor: Bolek Brandt-Zawadski

Residents: John H. Affleck, Richard P. Armstrong, Gerald M. Baur, Robert W. duPriest, Jr., Larry R. Eidemiller, Lloyd D. Hale, Marvin W. Harrison, Richard E. Hurst, Thomas D. Lindell, Donald B. McConnell, George C. Merhoff, Hugh S. Moseley, James E. Nolte, David C. Oehling, John R. Sandilands, Truman M. Sasaki, James P. Scarborough, Robert L. Simons, David F. Sloan, Richard L. Snider, Gary R. Snyder, David W. Strong, Joseph B. Vander Veer, Jr., Karl O. Wustrack

DIVISION OF CARDIOPULMONARY SURGERY

Albert Starr, Head of Division

Professor: **Albert Starr**

Clinical Professor: **William S. Conklin**

Associate Professor: **Richard P. Anderson**

Associate Clinical Professor: **James A. Wood**

Assistant Professors: **Lawrence I. Bonchek, Robert P. Hodam**

Assistant Clinical Professors: **John C. Bigelow, Richard D. Chapman, Lawrence M. Lowell**

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

Instructor: **Jeri L. Dobbs**

Clinical Instructors: **Stanley F. Bergquist, Fernando Leon, Richard C. Rogers**

DESCRIPTION OF COURSES

Fellows: Hector Barros, Lowell Davis, Kenneth Graham, Mathew Philip, Laurence Simpson, Tsuguhito Tanaka
Residents: Donald Bunch, Christos Lolas, Christopher T. Maloney, Adel F. Matar

DIVISION OF NEUROSURGERY

Harold D. Paxton, Head of Division

Professor: Anthony E. Gallo, Jr., Harold D. Paxton

Clinical Professor: John Raaf

Associate Professor: Makoto Sato

Associate Clinical Professor: Edward W. Davis

Assistant Clinical Professor: Edward K. Kloos

Clinical Instructors: John P. Dennis, Ray V. Grewe, Curtis L. Hill, John C. Misko, William R. Parsons, Joel L. Seres, Mian Mohammad Tahir

Residents: Henry H. Garry, Jr., Errett E. Hummel, Jr., Hirohisa Ono, Stephen Weitz

DIVISION OF ORTHOPEDICS

William E. Snell, Head of Division

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

Professors: Rodney K. Beals, William E. Snell

Clinical Professors: Eldon G. Chuinard, Joe B. Davis

Associate Professor Emeritus: Gurney A. Kimberley

Associate Clinical Professors: Lawrence Noall, Donald B. Slocum, Frank B. Smith

Assistant Professors: Philip J. Fagan (Veterans Hospital), William D. Guyer

Assistant Clinical Professors: John F. Abele, Richard F. Berg, Paul Campbell, Raymond A. Case, Jr., Harold E. Davis, H. Freeman Fitch, Howard J. Geist, Richard J. Hopkins, Laurence R. Langston

Senior Clinical Instructors: Thomas J. Boyden, Howard L. Cherry, Lawrence J. Cohen, George W. Cottrell, Charles A. Fagan, Joseph H. Gill, Samuel F. Gill, Harry E. Groth, Carl L. Holm, Orville N. Jones, Calvin H. Kiest, Jr., Robert L. Larson, Robert G. McKillop, James A. Mason, Edwin G. Robinson, Faulkner A. Short, Richard C. Zimmerman

Clinical Instructors: Michael Baskin, John B. Chester, McGregor L. Church, Winfred H. Clarke, Arthur L. Eckhardt, Thomas A. Edwards, Richard P. Embick, Thomas E. Fagan, Robert J. Fry, Louis Phaon Gambee, John Harder, John P. Hazel, Stanley L. James, Norman L. Logan, Peter A. Nathan, James D. Nelson, Robert H. Post, Robert M. Rankin, Michael R. Rask, Thad C. Stanford, John W. Thompson, Frederick W. Tiley, David S. Wisdom

Residents: James L. Baldwin, David A. Haaland, John Hayhurst, Michael S. Hmura, Thomas W. Hutchinson, Grant D. Lawton, Craig MacCloskey, Michael R. Marble, Kelsey Peterson, Robert J. Porter, Ned Schroeder, Frederick L. Surbaugh

DIVISION OF PEDIATRIC SURGERY

John R. Campbell, Head of Division

Associate Professor: **John R. Campbell**
Assistant Clinical Professor: **Timothy J. Campbell**
Senior Clinical Instructor: **Harry B. Ditmore, Jr.**
Clinical Instructor: **Paul Trautman**

DIVISION OF PHYSICAL MEDICINE AND REHABILITATION

Kenneth D. Smyth, Head of Division
Professor Emeritus: **Arthur C. Jones**
Associate Professors: **Everill W. Fowlks** (Veterans Hospital), **Kenneth D. Smyth**
Assistant Clinical Professor: **George A. Peirson**
Senior Instructor: **Philip S. King, III** (Veterans Hospital)
Clinical Instructor: **John Gerhardt**

DIVISION OF UROLOGY

Clarence V. Hodges, Head of Division
Professor: **Clarence V. Hodges**
Clinical Professors: **Charles Ferguson, J. Scott Gardner, John R. Hand, Thomas R. Montgomery**
Associate Professor: **Russell K. Lawson**
Associate Clinical Professors: **Theodore H. Lehman, Robert J. Moore, David P. Paull**
Assistant Professor: **Harper D. Pearse**
Assistant Clinical Professors: **G. Donald Beardsley, Emerson J. Collier, Jerry D. Giesy, Robert L. Kalez, Curtis A. Macfarlane, Arnold Rustin, Ivan L. Sandoz, John G. Vandenberg**
Clinical Instructors: **Charles E. Catlow, Jr., Lyall Crary, Ferenc F. Gabor, James H. Gilbaugh, Luis E. Halpert, Russell N. Sacco, Jerome C. Weeber**
Residents: **Jerald E. Albrich, John M. Barry, Arlen B. Burns, Thomas Carey, George Dechet, Walter A. Derrick, John A. Emery, Thomas W. Friedland, Eugene Fuchs, James Pappas, Ronald Rosenquist, Charles Skeeters, Gary Van Galder, David Young, Jay H. Winemiller**

General Surgery—Required Course

Fourth Year

Sur 630. **Fourth-Year Surgery.** 18 hours.

The fourth-year surgical course objectives are to graduate physicians who are grounded in the principles and practice of surgery, who can evaluate surgical information and the role of the surgical consultant, can recognize common surgical disorders, treat surgical emergencies, diagnose and prepare patients for operation, recognize and treat postoperative problems, and perform minor surgical operations. This is accomplished through three months' participation in the emergency room, hospital wards, clinics and operating room activity in General Surgery, Orthopedics, Urology and Anesthesia. Conferences, seminars, lectures, and outside reading complement patient care activities to accomplish these broad goals.

DESCRIPTION OF COURSES

General Surgery—Elective Courses

- Sur 601. **Research.** Any term, hours to be arranged.
Sur 605. **Reading and Conference.** Any term, hours to be arranged.
Sur 607. **Seminar.** Any term, hours to be arranged.
Sur 609. **Clinical Experience.** Any term, hours to be arranged.

Cardiopulmonary Surgery—Elective Courses

- CSur 601. **Research.** Any term, hours to be arranged.
CSur 605. **Reading and Conference.** Any term, hours to be arranged.
CSur 607. **Seminar.** Any term, hours to be arranged.
CSur 609. **Clinical Experience.** Any term, hours to be arranged.

Neurosurgery

Required Course

Third Year

- Con 621. **Neurosciences.** (See page 50.)

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 605. **Reading and Conference.** Any term, hours to be arranged.
NSur 607. **Seminar.** Any term, hours to be arranged.
NSur 609. **Clinical Experience.** Any term, hours to be arranged.
NSur 650. **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 605. **Reading and Conference.** Any term, hours to be arranged.
Orth 607. **Seminar.** Any term, hours to be arranged.
Orth 609. **Clinical Experience.** Any term, hours to be arranged.

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 605. **Reading and Conference.** Any term, hours to be arranged.
Ur 607. **Seminar.** Any term, hours to be arranged.
Ur 609. **Clinical Experience.** Any term, hours to be arranged.

5

OTHER INSTRUCTIONAL PROGRAMS



Medical Technology

Tyra T. Hutchens, Director

Margaret E. Berroth, Assistant Director

Mary E. Baptist, Educational Coordinator

Professors: **James L. Bramhall**, **Tyra T. Hutchens**

Associate Professors: **Margaret E. Berroth**, **James E. Haines**, **Martha L. Hamilton**, **Victor C. Marquardt, Jr.**, **Abdel L. Rashad**

Assistant Professors: **John P. Aitchison**, **Mary E. Baptist**, **John D. Koontz**, **Kirtikant V. Sheth**, **J. Robert Swanson**

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

Clinical Instructor: **Mary C. Campbell**

Assistants to the Educational Coordinator: **Betty M. Carlson**, **Dorothy B. Chambers**, **Claudia L. Darby**, **Irene Engeldinger**, **Nancy P. Fraser**, **Steven Goodstein**, **Allan R. Kimmey**, **Wallace H. Matsumura**, **Sandra Reed**, **J. William Rourke**, **Harry Seto**, **Brenda M. Wilkinson**

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 American Medical Association.

The minimum admission requirements are three years of college work (135 term hours) including: 24 term hours of biology (which must include a course in microbiology effective Fall 1972); 24 term hours of chemistry, with lectures and laboratory, which may include qualitative analysis; and one term of college mathematics. It is strongly recommended that a physics course be included in the student's college preparation. The three years of prerequisite work may be completed in any accredited college or university. Transcript evaluation by the ASCP Board of Schools of Medical Technology is no longer required for admission to the University of Oregon Medical School program.

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 ASCP Board of Registry of Medical Technologists. 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.*

Upon satisfactory completion of the twelve continuous months' study period, a certificate is issued to the student by the University of Oregon Medical School. The student is then eligible to take the National Certifying Examination given twice a year by the ASCP Board of Registry of Medical Technologists. (Begin-

* 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.

ning December 1973, a baccalaureate degree will be required for certification examination eligibility.) Upon passing the examination, the student is qualified as a Certified Medical Technologist with the American Society of Clinical Pathologists, MT(ASCP).

Applications for admission may be obtained from the Director of Admissions of the Medical School. Applications are accepted between December 1 and May 1.

Fees

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.

Students in medical technology are required to pay fees for Fall, Winter and Spring terms. Oregon residents pay \$184 a term; non-residents \$327 a term. A health coverage fee of \$33 is assessed for the summer term. Medical technology students also pay the "special fees" listed on page 28 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. Students in the Medical Technology curriculum are expected to maintain a G.P.A. of 2.00 or better during the twelve-month period. 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

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

Medical Technology—Graduate Program

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

OTHER
INSTRUCTIONAL
PROGRAMS

Calendar

Fall Term, 1971

September 7 through September 11.....Registration ; orientation
 September 8, *Wednesday*.....Last day for payment of fees
 September 13, *Monday*.....Instruction begins
 November 25, *Thursday*.....Thanksgiving Holiday
 November 27, *Saturday*.....Fall term ends

Winter Term, 1971-72

November 29, *Monday*.....Registration ; instruction begins
 November 30, *Tuesday*.....Last day for payment of fees
 December 19 through January 2, 1972.....Christmas vacation ;
 laboratory instruction continues
 February 26, *Saturday*.....Winter term ends

Spring Term, 1972

March 6, *Monday*.....Registration ; instruction begins
 March 7, *Tuesday*.....Last day for payment of fees
 May 20, *Saturday*.....Spring term ends
 September 1, *Friday*.....Certification Ceremony

Fall Term, 1972

September 5 through September 8.....Registration ; orientation
 September 11, *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

	<i>Term Hours</i>
Fall Term	
MT 410. Clinical Bacteriology	4
MT 415. Clinical Biochemistry	3
MT 417. Hematology	2
MT 420. Clinical Immunology and Serology	2
MT 422. Medical Laboratory Technique	7

	<i>Term Hours</i>
Winter Term	
MT 411. Clinical Bacteriology	3
MT 414. Nuclear Medicine	2
MT 416. Clinical Biochemistry	3
MT 418. Hematology	3
MT 423. Medical Laboratory Technique	7
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	18
Spring Term	
MT 413. Urinalysis	1
MT 419. Immunohematology	2
MT 421. Clinical Parasitology	2
MT 412. Pathophysiology and Medical Terminology	2
MT 407. Seminar	2
MT 424. Medical Laboratory Technique	8
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	17

MT 407. Seminar. 2 hours spring.

Selected topics of laboratory medicine with emphasis on laboratory instrumentation and electronics. 2 hours a week.

MT 410, 411. Clinical Bacteriology. 4 hours fall, 3 hours winter.

The microorganisms 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.

MT 412. Pathophysiology and Medical Terminology. 2 hours spring.

Lectures reviewing basic anatomy and physiology. Study of the most common disease processes in man and their correlation with laboratory findings with explanation of the correct medical terminology. Lectures, 2 hours a week.

MT 413. Urinalysis. 1 hour spring.

A study of the mechanisms of formation and identification of the normal and abnormal components of urine. Lectures, 1 hour a week.

MT 414. Nuclear Medicine. 1 hour winter.

Lectures and demonstrations concerned with the basic theory and the practical application of nuclear medicine techniques to medicine. Lectures, 2 hours a week.

MT 415, 416. Clinical Biochemistry. 3 hours fall, 3 hours winter.

The principles of biochemistry and the applications of colorimetry; gasometric analysis, and quantitative chemistry in the determination of substances in blood and body fluids. Fall: Lectures, 3 hours a week; Winter: 3 hours a week.

MT 417, 418. Hematology. 2 hours fall, 3 hours winter.

The normal function and development of blood cells, basic pathophysiology of hematologic diseases, laboratory procedures pertaining to hematology and their correlation with various disease states. Fall: Lectures, 2 hours a week; Winter: Lectures, 3 hours a week.

MT 419. Immunohematology. 2 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.

MT 420. Clinical Immunology and Serology. 2 hours fall.

Basic principles of immune response. 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 con-

OTHER INSTRUCTIONAL PROGRAMS

sideration of flocculation and complement fixation tests as they apply to the diagnosis of syphilis. Lectures, 2 hours a week.

MT 421. **Clinical Parasitology.** 2 hours spring.

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

MT 422, 423, 424. **Medical Laboratory Technique.** 7 hours fall and winter, 8 hours spring.

Theory, demonstrations and practice of medical laboratory technique pertaining to the fields of clinical bacteriology, urinalysis, hematology, clinical biochemistry, nuclear medicine, clinical parasitology, immunohematology and clinical immunology and serology. Fall and winter, 21 hours per week; spring, 24 hours per week.

Elective Courses

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

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

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

MT 520. **Advanced Nuclear Medicine Techniques.** Any term, hours to be arranged.

MT 521. **Advanced Nuclear Medicine Laboratory.** Any term, hours to be arranged.

Faculty

John P. Aitchison, Ph.D., Assistant Professor of Clinical Pathology (1969).
B.A. (1957), British Columbia; Ph.D. (1969), California.

Mary Elizabeth Baptist, B.A., Assistant Professor of Medical Technology; Educational Coordinator (1950).
B.A. (1944), Montana State University; M.T.(ASCP) (1946).

Margaret E. Berroth, M.D., Associate Professor of Clinical Pathology; Assistant Director of Educational Programs (1966).
Abitur (1947), Greifswald Lyceum; M.D. (1954), Heidelberg.

James L. Bramhall, M.B., Professor of Clinical Pathology (1962).
M.B., Ch.B. (1951), Victoria University of Manchester Medical School, England.

Mary C. Campbell, B.A., Clinical Instructor in Medical Technology (1968).
B.A. (1944), Vassar.

Patricia A. Chadwick, B.S., Instructor in Medical Technology (1966).
B.S. (1950), Massachusetts; M.T.(ASCP) (1957); S.M.(ASCP) (1967).

James E. Haines, M.D., Associate 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; Chairman of Department of Clinical Pathology (1953).
B.S. (1943); M.D. (1945), Oregon.

John D. Koontz, B.S., Assistant Professor in Clinical Pathology (1963).
B.S. (1954), Oregon; M.T.(ASCP) (1952).

Victor C. Marquardt, Jr., M.D., Associate Professor of Clinical Pathology; Assistant Director of Clinical Laboratory Services (1964).
B.A. (1953), Wesleyan; M.D. (1957), Nebraska.

- Rose M. Parker, A.R.T.**, Instructor in Medical Technology (1967).
R.T. (1959), Canada; A.R.T.(Hema.) (1964), Canada.
- Abdel L. Rashad, M.D., Ph.D.**, Associate Professor of Clinical Pathology (1969).
M.D. (1959), Cairo, Egypt; Ph.D. (1966), University of Washington.
- Kirtikant V. Sheth, M.B.B.S.**, Assistant Professor of Clinical Pathology (1971).
M.B.B.S. (1966), Bombay, India.
- J. Robert Swanson, Ph.D.**, Assistant Professor of Clinical Pathology (1969).
B.S. (1961), Colorado; Ph.D. (1965), Washington State.
- Marian S. Thomas, B.S.**, Instructor in Medical Technology (1969).
B.S. (1964), Southern Oregon; M.T.(ASCP) (1965); S.,B.B.(ASCP) (1969).
- James A. Wilkinson, B.S.**, Instructor in Medical Technology (1966).
B.S. (1962), Oregon; M.T.(ASCP) (1963).

Assistants to the Educational Coordinator

- 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.**, Laboratory Office Procedure.
B.S. (1958), Oregon; M.T.(ASCP) (1959); S.,C.(ASCP) (1966).
- Irene R. Engeldinger, B.S.**, Clinical Chemistry Technique.
B.S. (1944), Marylhurst; M.T.(ASCP) (1948).
- Nancy P. Fraser, M.S.**, Immunohematology Technique.
B.S. (1964), Wesleyan; M.S. (1969), Ohio State; M.T.(ASCP) (1965); S.,B.B.(ASCP) (1970).
- Steven Goodstein, B.A.**
B.A. (1966), San Jose State; M.T.(ASCP) (1967).
- Allan R. Kimmey, B.S.**, Clinical Chemistry Technique.
B.S. (1963), Oregon; M.T.(ASCP) (1964).
- Wallace H. Matsumura, B.A.**, Clinical Serology Technique.
B.A. (1952), Hawaii; M.T.(ASCP) (1955).
- Sandra L. Reed, B.A.**, Clinical Hematology Technique.
B.A. (1961), Main; M.T.(ASCP) (1962).
- J. William Rourke, B.S.**, Clinical Microbiology Technique.
B.S. (1967), George Fox; M.T.(ASCP) (1967).
- Harry Seto, B.S.**, Nuclear Medicine Technique.
B.S. (1955), Oregon; M.T.(ASCP) (1956); N.M.(ASCP) (1964).
- Brenda M. Wilkinson, B.S.**, Toxicology Technique.
B.S. (1960), Pacific; M.T. (ASCP) (1961).

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

OTHER INSTRUCTIONAL PROGRAMS

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 program of graduate study leading to the degree of Master of Science in Nursing Education is offered by the University of Oregon School of Nursing. See page 81.

Complete details concerning study toward the degree 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.

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 students 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 Child Development and Rehabilitation Center, and the University State Tuberculosis Hospital. The off-campus facilities that provide additional clinical experiences are: the Visiting Nurse Association; Dammasch Hospital, Wilsonville; Portland State University; the Portland Continuation Center of the Division of Continuing Education; St. Vincent Hospital and Medical Center; Clackamas, Multnomah and Marion County Health Departments; Physicians and Surgeons Hospital; Good Samaritan 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 preparations 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.

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 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 Dean, University of Oregon School of Nursing, Portland 97201.

Radiologic Technology

The Department of Radiologic Diagnosis of the University of Oregon Medical School offers a 30-month course of training for radiologic technologists in cooperation with Portland Community College. The course is approved by the Council on Medical Education and Hospitals of the American Medical Association and by the American Registry of Radiologic Technologists. Graduates of the course receive an Associate Arts degree in Applied Science, and are eligible to take the examination required by the American Registry of Radiologic Technologists for certification as Registered Radiologic Technologists.

Candidates for admission must be 18 years old and high school graduates (or the equivalent). One year of high school algebra or one term of college algebra is required. Preference is given to applicants who have demonstrated ability in science and mathematics. College courses completed are also favorably considered. An application, school transcripts, personal references and a personal interview must be completed before the applicant will be considered for admission.

Tuition (approximately \$700 for the ten terms), is payable to Portland Community College on a per-term basis. During the final 20 months of training, students receive a stipend of \$100 per month. The course in Radiologic Technology includes approximately 700 hours of classroom work and 3,000 hours of hospital clinical training. At the Medical School, clinical instruction is under the supervision of the Chief Technologist and members of the technical staff of the Department of Radiologic Diagnosis. The physician who chairs that department, and members of his medical staff also participate.

The curriculum includes courses in physics, anatomy and physiology, principles of film exposure and technique, nursing procedures pertinent to radiography, radiation protection, ethics, principles of X ray and radiation therapy, darkroom processing and chemistry, and film critique. Other subjects include those courses that complement the curriculum for the Associate Arts degree in Applied Science. Eighteen students are admitted annually in September. Applications should be submitted to the Director of the course in Radiologic Technology, Department of Radiologic Diagnosis, University of Oregon Medical School Hospitals and Clinics.

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 biology must be included. Students accepted into the program, which is conducted in the cytology laboratories of the University of Oregon Medical School, begin on September 1 of each year. No tuition is charged. The program is approved by the Council on Medical Education of the American Medical Association and Board of Schools, American Society of Clinical Pathologists.

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 \$200 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, a straight internship in pathology, and four straight medical psychology internships. 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 200 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, child psychiatry, clinical pathology, dermatology, family practice, internal medicine, medical psychology, neurological surgery, neurology, obstetrics and gynecology, ophthalmology, orthopedics, otolaryngology, pathology (anatomical), pediatrics, psychiatry, radiologic diagnosis, radiation therapy, general surgery, urology.

The following Portland hospitals cooperate with the Medical School in the residency 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.

Nuclear Medicine Technology

The department of clinical pathology offers a twelve-month traineeship in nuclear medicine technology. Prerequisites are a baccalaureate degree from an accredited college or university and certification by the ASCP Registry of Medical Technologists as a medical technologist, MT(ASCP). The nuclear medicine technology program starts early each September. No tuition is charged.

Trainees assist with performance of procedures in the nuclear medicine division of the department of clinical pathology and receive an appropriate stipend. In addition to nuclear medicine technology experience; trainees attend lectures and conferences in radiation physics, radiobiology, anatomy, and nuclear medicine. They also assist with the instruction of students in the AMA-approved medical technology program during their nuclear medicine technology laboratory rotation.

Trainees completing the traineeship are eligible to take the national nuclear medicine technology examination given by the ASCP Board of Registry of Medical Technologists and which leads to certification as a nuclear medicine technologist, NM(ASCP).

Orthoptics

The department of ophthalmology offers a one-year preceptorship in orthoptics approved by the American Orthoptic Council. Prerequisites are two years' credit from an accredited college or university and completion of the basic course in orthoptics sponsored each summer by the American Orthoptic Council. Students enter the preceptorship in September. Application should be made to the department of ophthalmology by the first of March. No tuition is charged and students are assisted in applications for scholarships.

Upon completion of the program students are qualified to take a national examination given by the American Orthoptic Council leading to certification as an orthoptist.

Orthoptists assist ophthalmologists in the evaluation and management of abnormalities in vision and binocular coordination.

Radiation Therapy Technology

The department of radiation therapy offers a one-year training program in radiation therapy technology approved by the American Medical Association in collaboration with the Subcommittee on Technologic Affairs of the American College of Radiology. The minimum admission requirement is certification as a radiologic technologist (RT) or registered nurse (RN). Applications are considered once a year and must be submitted before October 1. The program begins on October 15. No tuition is charged. Each trainee receives a stipend of \$250 per month and must furnish his own uniform and books.

lectures in radiation physics, radiobiology, anatomy, pathology, and radiation therapy.

Students completing the program are required to take the national examination given by the American Registry of Radiologic Technologists leading to certification as a radiation therapy technologist, RT(T).

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.

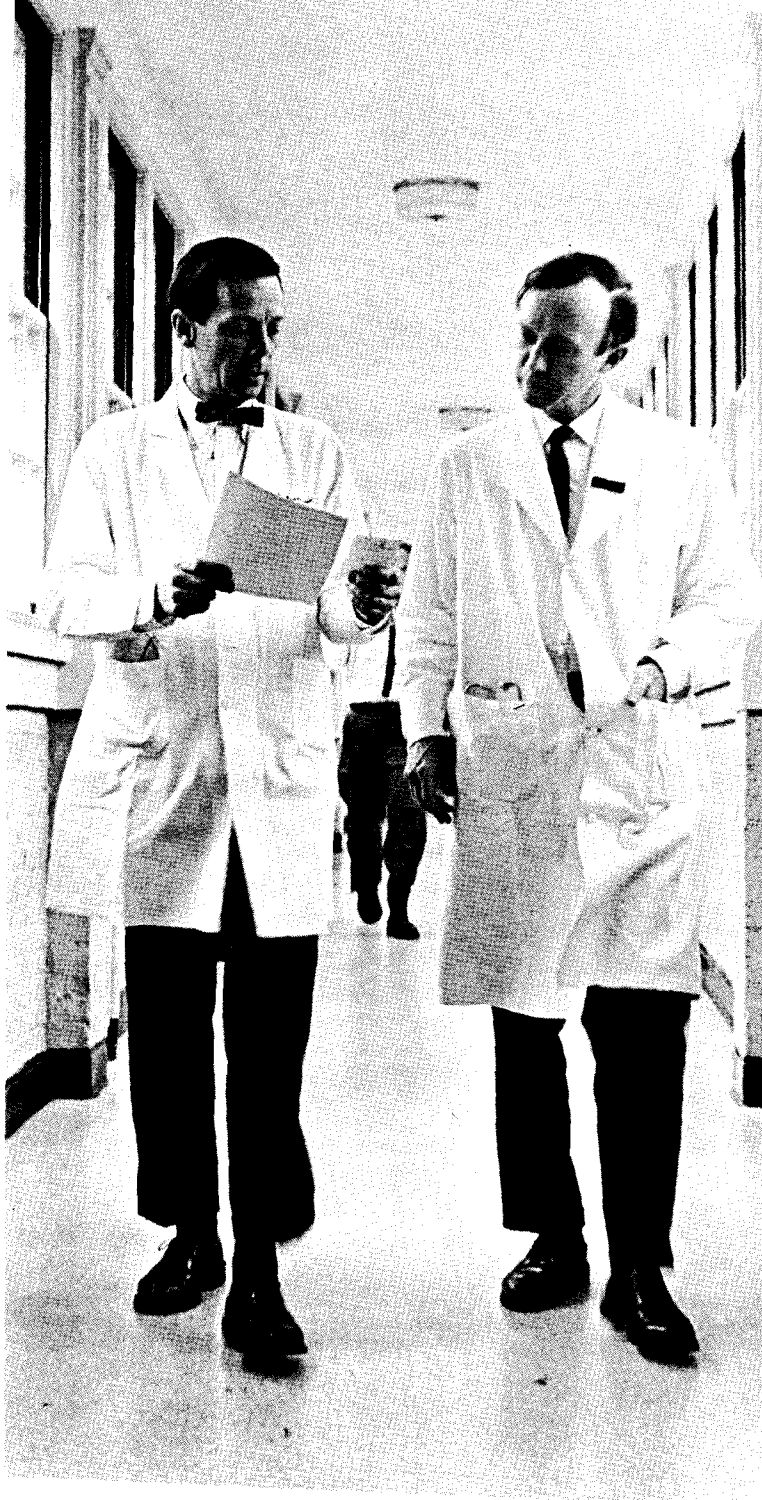
In order to help the physician achieve this last objective, the Medical School makes its teaching and clinical facilities available for continued postgraduate study. An extensive postgraduate program has been arranged, consisting of a series of short intensive courses, usually of three to five days' 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.

A 19-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.

6

MEDICAL
SCHOOL
FACULTY



Executive Faculty

Charles N. Holman, Dean of the Medical School; Joseph J. Adams, Clifford V. Allen, Robert L. Bacon, Michael D. Baird, Ralph C. Benson, Norman A. Bergman, John M. Brookhart, J. David Bristow, David D. DeWeese, Charles T. Dotter, Arthur W. Frisch, Jarvis Gould, M. Roberts Grover, Jr., Hance F. Haney, Tyra T. Hutchens, Richard T. Jones, Robert D. Koler, William W. Krippaehne, Walter C. Lobitz, Jr., Joseph D. Matarazzo, Richard D. Moore, Richard W. Olmsted, Harold T. Osterud, 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, George C. Buchan, Joseph D. Matarazzo, Robert J. Meechan, Clifford S. Melynk, Dick B. Speight (ex officio)

Animal Care—Roy L. Swank (Chairman), William S. Fletcher, Monte A. Greer, M. Ronald Parelus, Bernard Pirofsky, Alfred J. Rampone, Marvin B. Rittenberg, Allan L. Rogers, Ralph D. Tanz

Clinical Grant Review and Investigational Drug—Herbert A. Wendel (Chairman), Robert H. Bigley, Robert E. Brummett, Robert Campbell, John Doerfler, Stanley W. Jacob, Russell K. Lawson, Arlen Quan

Computer—W. A. Zimmerman (Chairman), John M. Brookhart, John B. Isom, George I. Johnston, Max Kersbergen, William J. Kimberling, Wilbur McNulty, Victor C. Marquardt, Jr., Walter A. Petersen, George A. Porter, William H. Prentice, David Phillips, Gary Rood, Archie Tunturi

Curriculum and Schedule—William W. Krippaehne (Chairman), John A. Benson, Jr., Paul H. Blachly, Howard W. Davis, John de Maria, Richard T. Jones, Ernest A. Meyer, Richard D. Moore, Harold T. Osterud, William K. Riker, Richard L. Sleeter, William E. Snell, John T. Van Bruggen, M. Roberts Grover, Jr. (ex officio), Joseph D. Matarazzo (ad hoc);
Students: Francis Kenyon, John Lobitz, Ronald J. Sharp

Educational Methods—Tyra Hutchens (Chairman), Margaret E. Berroth, Paul Blachly, Hall Downes, Georgann Chase, M. Roberts Grover, Jr., Richard Herren, Herold Lillywhite, Arthur Seaman

Honors and Awards—George C. Buchan (Chairman), Peter J. Dawson, Sam L. Meyer, Richard W. Olmsted, Martin L. Pernoll

Graduate Council—John M. Brookhart (Chairman), Robert D. Fitzgerald, David Gunberg, Terence Joys, Howard S. Mason, Richard D. Moore, May Rawlinson, Ralph D. Tanz, Joseph J. Adams (ex officio)

Instructional Aids Advisory—John R. Campbell (Chairman), Margaret Berroth, Marcella Cate, F. John de Maria, Richard Herren, Donald G. Kassebaum, Alan L. Morgenstern, Robert E. Swanson, Ralph E. Tuomi

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

Jones Lectureship—Herbert E. Griswold (Chairman), Monte A. Greer, Frank E. Kloster

Library—Walter C. Lobitz, Jr. (Chairman), Morton Goodman, Noble Wiley Jones, John W. Kendall, Jr., George H. Lage, William E. Morton, Nelson R. Niles, Evelyn Schindler, Archie R. Tunturi, Herbert M. Woodcock

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

Planning Council—**Joseph J. Adams** (Chairman), **Jean E. Boyle**, **J. David Bristow**, **John M. Brookhart**, **Robert P. Burns**, **A. J. Clemons**, **Dallas G. Finnell**, **Kaye E. Fox**, **M. Roberts Grover, Jr.**, **Tyra T. Hutchens**, **William W. Krippaehne**, **Harold T. Osterud**, **William H. Prentice**, **Richard L. Sleeter**, **Louis G. Terkla**

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

Research—**Robert D. Koler** (Chairman), **William S. Fletcher**, **Wallace Iglewski**, **John W. Kendall, Jr.**, **James Metcalfe**, **Alfred J. Rampone**, **Jack A. Vernon**, **John Doerfler** (ex officio)

Research Instrument Service—**Don C. Wood** (Chairman), **Norman A. Bergman**, **Demetrios A. Rigas**, **Benjamin B. Ross**, **John G. Roth**

Scholarships—**William A. Zimmerman** (Chairman), **Reid S. Connell, Jr.**, **Clarence V. Hodges**, **Harold D. Paxton**, **Dick B. Speight**

Student Faculty—Faculty Members: **J. David Bristow** (Chairman), **Robert L. Bacon**, **Rodney Beals**, **Anthony E. Gallo**, **M. Roberts Grover, Jr.**, **Robert J. Meechan**, **Ernest A. Meyer**, **Kenneth A. Niehans**, **William K. Riker**, **R. Mark Vetto**
Student members are elected for one- or two-year terms.

Student Health Advisory—**Anthony E. Gallo** (Chairman), **Curtis Holzgang**, **Burritt W. Newton**, **Julian S. Reinschmidt**, **Winifred Tyler**, **Christopher P. S. Williams**. Student members: **Patricia Berns**, **Claudia Hostetler**, **William Marsh**, **Ray Nicola**, **Stephen Thomas**

Dean's Advisory Committee for the Veterans Hospital—**Charles N. Holman** (Chairman), **Jarvis Gould** (Vice chairman and Secretary), **Clifford V. Allen**, **Norman A. Bergman**, **J. David Bristow**, **David D. DeWeese**, **Charles T. Dotter**, **Tyra T. Hutchens**, **Robert D. Koler**, **William W. Krippaehne**, **Walter C. Lobitz, Jr.**, **Richard D. Moore**, **George Saslow**, **Kenneth C. Swan**, **Louis G. Terkla**

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.

Norman A. David, M.D., Professor Emeritus of Pharmacology.

A.B. (1925), M.D. (1931), California.

Aubrey M. Davis, M.D., Associate Professor Emeritus of Medicine.

B.A. (1927), Stanford; M.D. (1929), Oregon.

MEDICAL
SCHOOL
FACULTY

- Henry H. Dixon, Sr., M.D.**, Professor Emeritus of Psychiatry.
M.D. (1928), Washington University.
- Bertha B. Hallam, B.A.**, Professor Emeritus, Library.
B.A. (1931), Oregon.
- Blair Holcomb, M.D.**, Professor Emeritus of Medicine.
M.D. (1919), Rush (University of Chicago).
- Arthur C. Jones, M.D.**, Professor Emeritus of Physical Medicine and Rehabilitation.
B.A. (1921), Pacific University; M.A. (1925), M.D. (1926), Oregon.
- Noble Wiley Jones, M.D.**, Professor Emeritus of Medicine.
A.B. (1895), Stanford; M.D. (1901), Rush (University of Chicago).
- A. Gurney Kimberly, M.D.**, Associate Professor Emeritus of Orthopedics.
B.S. (1929), M.D. (1930), Oregon; D.Sc. (1937), Columbia.
- Lyle B. Kingery, M.D.**, Professor Emeritus of Medicine.
B.S. (1912), M.D. (1916), Michigan.
- 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.
- William H. Sheldon, M.D., Ph.D.**, Professor Emeritus of Medicine.
B.A. (1919), Brown; M.A. (1923), Colorado; Ph.D. (1925), M.D. (1933), Chicago.
- 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.
- †**Kenji Adachi, M.D., Ph.D.**, Associate Professor of Dermatology (Primate Center) (1969).
M.D. (1956), Yokahama; Ph.D. (1964), Tokyo.
- †**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.

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

† Volunteer.

- † **Bennett Alberts, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1969).
M.D. (1960), Nebraska.
- † **Phillip S. Alberts, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1964).
B.A. (1953), M.D. (1958), Nebraska.
- William G. Albrecht, D.D.S.**, Instructor, Crippled Children's Division (1971).
D.D.S. (1967), St. Louis.
- Clifford V. Allen, M.D.**, Professor of Clinical Pathology (Radioisotopes) and Radiology (Therapy); Chairman, Department of Radiation Therapy (1955).
M.D. (1933), Iowa.
- † **Richard Allen, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1970).
B.A. (1958), Oregon; M.A. (1961), U.C.L.A.; M.D. (1965), New York Medical College.
- Mary J. Amdall, M.S.**, Instructor in Psychiatry and Pediatrics (1970).
B.S.N. (1968), South Dakota State; M.S. (1970), Maryland.
- † **Alan W. Ames, M.D.**, Clinical Instructor in Medicine (1968).
B.A. (1956), Stanford; M.D. (1960), Yale.
- † **Patricia G. Amstader, M.D.**, Clinical Instructor in Psychiatry (Child Psychiatry) (1969).
B.A. (1959), Occidental; M.D. (1963), Northwestern.
- † **Richard P. Anderson, M.D.**, Associate Professor of Cardiopulmonary Surgery (Veterans Hospital) (1970).
B.S. (1956), M.D. (1959), University of Washington.
- † **William F. Anderson, M.D.**, Clinical Instructor in Dermatology (1970).
B.A. (1956), Pacific Lutheran; M.D. (1960), University of Washington.
- † **Richard P. Andrews, M.D.**, Assistant Clinical Professor of Surgery (1963).
B.S. (1949), Dension; M.D. (1953), Harvard.
- † **Richard Arkless, M.D.**, Clinical Instructor in Radiology (Diagnosis) (1970).
B.A. (1957), Kenyon; M.D. (1962), Pennsylvania.
- † **Carl G. Ashley, M.D.**, Assistant Clinical Professor of Pediatrics (1936).
B.A. (1927), M.D. (1931), Oregon.
- † **David Auld, M.D.**, Affiliate in Pathology (Veterans Hospital) (1971).
B.A. (1946), Swarthmore, M.D. (1948), Maryland; M.S. (1956), Colorado.
- † **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.**, Associate Clinical 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; Acting Chairman of Department (1955).
B.S. (1940), Hamilton; Ph.D. (1944), Yale.
- † **Daniel M. Baer, M.D.**, Assistant Clinical Professor of Clinical Pathology (1970).
B.A. (1953), Oberlin; M.D. (1957), New York Medical College.

† Volunteer.
‡ Part-time.

MEDICAL
SCHOOL
FACULTY

- †**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.**, 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.
- †**Joseph W. Ball, M.D.**, Clinical Instructor in Psychiatry (1970).
B.S. (1954), Santa Clara; M.D. (1958), Oregon.
- †**Cameron C. Bangs, M.D.**, Clinical Instructor in Medicine (1968).
B.S. (1960), Massachusetts; M.D. (1964), Vermont.
- Mary Elizabeth Baptist, B.A.**, Assistant Professor of Clinical Pathology (Medical Technology) (1950).
B.A. (1944), Montana State.
- Emil J. Bardana, Jr., M.D.**, Assistant Professor of Medicine (1967).
B.S. (1957), Georgetown; M.D., C.M. (1961), McGill.
- †**William A. Bartlett, M.D.**, Clinical Instructor in Family Practice (1971).
B.A. (1955), M.D. (1958), Colorado.
- †**Murray H. Bartley, D.M.D., Ph.D.**, Associate Professor of Dentistry (1970).
D.M.D. (1958), Oregon; Ph.D. (1968), Utah.
- †**David M. Barton, M.D.**, Clinical Instructor in Continuing Medical Education (1970).
A.B. (1953), B.S. (1954), M.D. (1956), Illinois.
- †**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.
- †**Jack E. Battalia, M.D.**, Clinical Instructor in Surgery (1954).
B.A. (1945), Reed; M.D. (1946), Oregon.
- †**Peter J. Batten, M.D.**, Associate 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.
- †**Frank J. Baumeister, Jr., M.D.**, Clinical Instructor in Medicine (1970).
M.D. (1961), Miami.
- †**Samuel T. Beall, M.D.**, Associate Clinical Professor of Medicine (1954).
A.B. (1940), Whitman; M.D. (1950), Louisville.
- Rodney K. Beals, M.D.**, Professor of Orthopedics (1961).
B.A. (1953), Willamette; M.D. (1956), Oregon.

† Volunteer.

‡ Part-time.

- †**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., Associate 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., Assistant Professor of 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**, Ph.D., Associate Professor of Experimental Biology and Dermatology (Primate Center) (1964).
A.B. (1958), Brown; Ph.D. (1965), Yale.
- Gerda Benda**, M.D., Instructor in Pediatrics (1971).
M.D. (1962), Tübingen.
- †**James S. Bennett**, D.M.D., Associate Professor of Dentistry (1970).
B.A. (1952), Reed; D.M.D. (1958), M.S. (1961), Oregon.
- †**Thomas T. Bennett**, M.D., Associate Clinical Professor of Psychiatry (1963).
B.S. (1950), M.D. (1952), Oregon.
- William M. Bennett**, M.D., Assistant Professor of Medicine (1970).
B.S. (1960), M.D. (1963), Northwestern.
- 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 (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.
- Norman A. Bergman**, M.D., Professor of Anesthesiology; Chairman of Department (1970).
B.A. (1949), Reed; M.D. (1951), Oregon.

† Volunteer.

* Leave of absence, July 1, 1971 to June 30, 1972.

- †**Stanley F. Bergquist**, M.D., Clinical Instructor in Cardiopulmonary Surgery (1956).
B.S. (Med) (1945), M.D. (1947), Illinois.
- †**John O. Bergstrom**, M.D., Clinical Instructor in Obstetrics and Gynecology (1970).
B.A. (1960), Willamette; M.D. (1964), Oregon.
- Margaret E. Berroth**, M.D., Associate Professor of Clinical Pathology; Assistant Director of Educational Programs, Clinical Pathology (1966).
Abitur (1947), Greifswald Lyceum; 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.
- †**Luis G. Bianchini**, M.D., Clinical Instructor in Family Practice (1971).
B.S. (1954), M.D. (1958), Kansas.
- †**Fred W. Bieker**, M.D., Senior 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 Radiology (Diagnosis) (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 in 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.
- Eugene Blank**, M.D., Associate Professor of Radiology (Diagnosis) and Pediatrics (1970).
B.A. (1948), M.D. (1954), Johns Hopkins.
- †**Roderick C. Blatchford**, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1938).
A.B. (1927), Willamette; M.D. (1933), Oregon.

† Volunteer.

- †**Philip E. Blatt**, M.D., Assistant Clinical Professor of Medicine (1954).
B.S. (1953), Davidson; M.D. (1957), Baylor.
- †**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., Associate Clinical Professor of Pediatrics (1962).
B.S. (1953), M.D. (1955), Oregon.
- †**C. Carter Boggs**, M.D., Clinical Instructor in Psychiatry (1970).
B.S. (1960), M.D. (1965), Oregon.
- †**Orville W. Boicourt**, M.D., Assistant Clinical Professor of 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.
- Lawrence I. Bonchek**, M.D., Assistant Professor of Cardiopulmonary Surgery (1971).
A.B. (1959), Yeshiva; M.D. (1963), Einstein.
- †**Douglas R. Bottomly**, M.D., Assistant Clinical Professor of Psychiatry (1968).
B.S. (1953), Carroll; M.D. (1957), St. Louis.
- †**Christ Bouneff**, D.M.D., Assistant 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., 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. (1938), Linfield; M.A. (1941), Southern California; M.A. (1947), Ph.D. (1953), Michigan.
- †**Stanley A. Boyd**, M.D., Clinical Instructor in Family Practice (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 Family Practice (1967).
B.S. (1957), Capital; M.D. (1960) Cincinnati.
- †**John Boyett**, M.D., Assistant Professor of Clinical Pathology (Nuclear Medicine) and Medicine (Veterans Hospital) (1970).
B.A. (1954), Davidson; M.D. (1958), North Carolina.

† Volunteer.

‡ Part-time.

MEDICAL
SCHOOL
FACULTY

- †**George A. Boylston, M.D.**, Associate Clinical Professor of Medicine (1946).
B.S. (1936), M.S. (1937), M.D. (1939), Northwestern.
- †**William J. Brady, M.D.**, Assistant Clinical Professor of Clinical Pathology and
Affiliate in Pathology (1965).
B.S. (1953), Santa Clara; M.D. (1958), Oregon.
- ‡**James L. Bramhall, M.B.**, 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 Pre-
ventive 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.
- Bolek Brant-Zawadski, M.D.**, Instructor in Surgery (1971).
B.A. (1961), Hunter; M.D. (1965), Rochester.
- †**Esmond Braun, M.D.**, Clinical Instructor in Surgery (1969).
B.S. (1952), M.D. (1955), Wayne State.
- †**James D. Bray, M.D.**, Assistant Clinical Professor of Psychiatry (1966).
B.A. (1954), Washburn; M.D. (1961), Kansas.
- †**Melvin W. Breese, M.D.**, Associate Clinical Professor of Obstetrics and Gyne-
cology (1948).
B.S. (1936), Oregon State; M.D. (1943), Oregon.
- †**Joseph P. Brennan, M.D.**, Clinical Instructor in Continuing Medical Education
(1970).
B.S. (1918), Wisconsin; M.D. (1921), Rush (University of Chicago).
- †**Robert M. Brenner, Ph.D.**, Associate Professor of Experimental Biology (Pri-
mate Center) (1964).
A.B. (1950), A.M. (1951), Ph.D. (1955), Boston.
- †**Malcolm I. Brewer, M.D.**, Clinical Instructor in Ophthalmology (1970).
B.A. (1960), Colorado; M.D. (1964), St. Louis.
- Gwynn C. Brice**, Administrative Director, Central Services, Hospitals and Clin-
ics; 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.**, Professor of Medicine; Chairman of Department
(1960).
B.A. (1949), Willamette; M.D. (1953), Oregon.
- †**Michael T. H. Brodeur, M.D.**, Assistant Clinical Professor of 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.
- †**James A. Brooks, M.D.**, Clinical Instructor in Pediatrics (1970).
B.S. (1959), M.D. (1963), Oregon.
- Robert E. Brooks, Ph.D.**, Assistant Professor of Pathology (1961).
B.S. (1948), California; Ph.D. (1967), Oregon.

† Volunteer.

‡ Part-time.

- †**Charles C. Brown**, M.D., Clinical Instructor in Psychiatry (1965).
B.S. (1954), Gonzaga; M.D. (1958), Jefferson.
- †**David J. Brown**, M.D., Clinical Instructor in Clinical Pathology (1963).
B.A. (1952), M.D. (1956), Oregon.
- †**Paul M. Brown**, M.D., Senior Clinical Instructor in Surgery (1961).
B.S. (1945), Oregon; M.D. (1949), Harvard; M.S. (1960), Minnesota.
- †**Robert J. Bruckner**, D.D.S., Professor of Dentistry (1960).
D.D.S. (1944), Maryland; M.S. (1948), Western Reserve.
- Robert E. Brummett**, Ph.D., Associate Professor of Otolaryngology and Assistant Professor of 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.
- L. Gerald Buchan**, Ed.D., Assistant Professor, Crippled Children's Division (1970).
A.B. (1958), Kansas State (Fort Hay); M.S. (1960), Kansas State (Pittsburg); Ed.D. (1964), Tulsa.
- ‡**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.
- †**A. Sonia Buist**, M.B., Ch.B., Clinical Instructor in Medicine (1971).
M.B., Ch.B. (1964), St. Andrews (Scotland).
- Neil R. M. Buist**, M.B., Ch.B., Associate Professor of Pediatrics and Medical Genetics (1966).
M.B., Ch.B. (1956), 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., Professor of Ophthalmology (1959).
B.S. (1945), Portland; M.D. (1947), Oregon.
- †**William Y. Burton**, M.D., Clinical Professor of Radiology (Diagnosis) (1940).
A.B. (1931), B.S. (1933), Missouri; M.D. (1936), Washington University.
- †**John W. Bussman**, M.D., Clinical Professor of Pediatrics (1954).
B.S. (1946), M.B. (1947), M.D. (1948), Minnesota.
- ‡**Bruce V. Butler**, M.D., Associate 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.
- †**June Byers**, M.D., Clinical Instructor in Family Practice and Continuing Medical Education (1971).
B.A. (1944), Vassar; M.D. (1948), Temple.

† Volunteer.

‡ Part-time.

MEDICAL
SCHOOL
FACULTY

- †**Malcolm S. Byers, M.D.**, Clinical Instructor in Family Practice (1971).
B.A. (1944), M.D. (1947), Nebraska.
- John R. Campbell, M.D.**, Associate Professor of Pediatric Surgery; Head of Division (1967).
B.A. (1954), M.D. (1958), Kansas.
- †**Mary C. Campbell, B.A.**, Clinical Instructor in Clinical Pathology (Medical Technology) (1968).
B.A. (1944), Vassar.
- †**Nathan J. Campbell, M.D.**, Assistant Clinical Professor of Surgery (1950).
M.D. (1949), Temple.
- †**Paul Campbell, M.D.**, Assistant Clinical Professor of Orthopedics (1956).
B.A. (1945), M.D. (1949), Stanford; M.S. (1955), Michigan.
- Robert A. Campbell, M.D.**, Professor of Pediatrics (1961).
B.A. (1954), M.D. (1958), California.
- †**Timothy J. Campbell, M.D.**, Assistant Clinical Professor of Surgery (1971).
B.A. (1960), Willamette; M.D. (1964), Oregon.
- †**W. Leigh Campbell, M.D.**, Assistant Clinical Professor of Ophthalmology (1962).
B.S. (1952), M.D. (1955), Oregon.
- Leroy O. Carlson, M.D.**, Professor of Pediatrics; 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).
- C. Conrad Carter, M.D.**, Professor of Neurology (1956).
B.A. (1946), Reed; M.D. (1948), Oregon.
- Laurel Case, M.D.**, Associate Professor of Family Practice; Head of Division (1969).
M.D. (1949), Kansas.
- †**Raymond A. Case, Jr., M.D.**, Assistant Clinical Professor of Orthopedics (1959).
M.D. (1947), Hahnemann.
- †**Alberto Castro, Ph.D.**, Assistant Professor of Pediatrics (1970).
B.S. (1958), Houston; M.T. (1958), Baylor; Ph.D. (1962), El Salvador.
- †**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 Family Practice (1966).
B.S. (1952), Oregon College of Education; M.D. (1964), Oregon.
- †**Richard D. Chapman, M.D.**, Assistant Clinical Professor of Cardiopulmonary Surgery (1971).
B.A. (1957), Carleton; M.D. (1961), Cornell.

† Volunteer.

‡ Part-time.

- †**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., Senior Clinical Instructor in Orthopedics (1950).
M.D. (1943), Oregon.
- †**Clarence L. Chester**, M.D., Affiliate in Pathology (1962).
B.S. (1937), M.D. (1940), Vermont.
- †**John B. Chester, Jr.**, M.D., Clinical Instructor in Orthopedics (1969).
B.A. (1952), Austin; M.D. (1957), Texas (Dallas).
- †**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., 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.
- †**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.
- †**C. Keith Claycomb**, Ph.D., Affiliate in Biochemistry (Biochemistry, Dental School) (1971).
B.S. (1954), Wittenberg; Ph.D. (1967), Ohio State.
- †**Donald L. Cleland**, M.D., Assistant Clinical Professor of 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., Clinical Professor of Obstetrics and Gynecology (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., Associate Clinical Professor of Pediatrics (1960).
B.A. (1940), Reed; M.D. (1943), Oregon.
- †**Terence H. Cochran**, M.D., Affiliate in Pathology (1960).
B.S. (1939), Oregon State; M.D. (1941), Oregon.
- †**Charles W. Coffen**, M.D., Associate 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.

† Volunteer.

‡ Part-time.

MEDICAL
SCHOOL
FACULTY

- †**William Cohen, M.D.**, Senior Clinical Instructor in Medicine (1946).
B.A. (1931), Reed; M.D. (1935), Oregon.
- †**Edward M. Colbach, M.D.**, Assistant Clinical Professor of Psychiatry (1970).
B.S. (1962), Loyola; M.D. (1964), Northwestern.
- Ralph O. Coleman, Jr., Ph.D.**, Associate Professor of Speech Pathology, Crippled Children's Division (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 Clinical 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. (1939), M.S. (1962), Oregon State; Ph.D. (1967), Oregon.
- David M. Cook, M.D.**, Assistant Professor of Medicine (1971).
B.S. (1959), Notre Dame; M.D. (1963), St. Louis.
- ‡**Ronald H. Copeland, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1970).
B.A. (1959), M.D. (1963), Colorado.
- †**Jack Copperman, M.D.**, Clinical Instructor in Anesthesiology (1971).
B.A. (1961), M.D. (1965), University of Florida.
- Jan E. Cordell, Lecturer in Pathology (1971).**
- †**Raymond 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.**, Assistant Clinical Professor of 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.
- †**Lyall Crary, M.D.**, Clinical Instructor in Urology (1970).
M.D. (1959), Yale.
- †**Howard R. Creamer, Ph.D.**, Affiliate in Microbiology (Microbiology, Dental School) (1971).
B.Sc. (1954), Ph.D. (1967), Ohio State.
- ‡**William E. Creighton, D.D.S.**, 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.**, Assistant Clinical Professor of Medicine (1963).
B.A. (1953), Lehigh; M.D. (1957), Western Reserve.
- †**Robert V. Crist, M.D.**, Clinical Instructor in Family Practice (1971).
B.A. (1958), M.D. (1961), Indiana.

† Volunteer.

‡ Part-time.

FACULTY

- †**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., Assistant Professor, Crippled Children's Division (1968).
B.S. (1964), Tuskegee; M.P.H. (1966), California.
- †**John M. Currie**, M.D., Clinical Instructor in Dermatology (1970).
B.S. (1959), Northeastern (Oklahoma); M.D. (1963), Oklahoma.
- †**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.
- †**Dorin S. Daniels**, M.D., Clinical Instructor in Family Practice (1971).
B.S. (1950), Wisconsin; M.D. (1956), Chicago.
- †**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., Associate Clinical Professor of Psychiatry and Clinical Instructor in Family Practice (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.
- †**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), Ph.D. (1969), Oregon.
- †**Joe B. Davis**, M.D., 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.
- †**Theofilus de Bruin**, M.D., Instructor in Medicine (1971).
B.A. (1961), M.D. (1965), U.C.L.A.
- †**Enrique M. deCastro**, M.D., Clinical Instructor in Obstetrics and Gynecology (1961).
B.S. (1951), Loyola; M.D. (1957), Universidad Nacional Autonoma de Mexico.
- †**John M. Deeney**, M.D., Assistant Clinical Professor of Psychiatry (1969).
A.B. (1956), Stanford; M.D. (1960), Oregon.

† Volunteer.

‡ Part-time.

MEDICAL
SCHOOL
FACULTY

- †**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.
- †**Henry DeMots**, M.D., Instructor in Medicine (Veterans Hospital) (1971).
B.S. (1962), Calvin; M.D. (1966), Northwestern.
- D. Duane Denney**, M.D., Associate Professor of Psychiatry (1962).
B.A. (1953), Willamette; M.S., M.D. (1957), Oregon.
- †**Daniel L. Dennis**, M.D., Associate Clinical 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.
- †**Peter DeWitt**, M.D., Clinical Instructor in Family Practice (1955).
B.A. (1939), Union; M.D. (1943), Cornell.
- †**Howard R. Dewey**, Ph.D., Assistant Professor of Neurology (Good Samaritan Hospital) (1968).
B.A. (1949), Lewis and Clark; M.S.W. (1954), University of Washington; Ph.D. (1959), Denver.
- †**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., Clinical Instructor in Neurology (1950).
A.B. (1941), Pennsylvania; M.D. (1944), Jefferson.
- †**Herman A. Dickel**, M.D., Clinical Professor of Psychiatry (1942).
B.A. (1933), Montana State; M.B. (1937), M.D. (1938), Northwestern.
- †**Hugh E. Dierker**, M.D., Assistant Clinical Professor of Public Health and Preventive Medicine (1971).
B.S. (1935), M.D. (1937), Creighton.
- †**Harry B. Ditmore**, M.D., Senior Clinical Instructor in Pediatric Surgery (1964).
M.D. (1953), Harvard.
- Jeri L. Dobbs**, B.S., Instructor in Cardiopulmonary Surgery (1968).
B.S. (1964), Pacific University.
- †**Richard B. Dobrow**, M.D., Clinical Instructor in Medicine (1969).
A.B. (1958), M.D. (1962), Harvard.
- †**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 Building Director; Assistant Professor (1960).
B.S. (1937), Oregon State.

† Volunteer.

- †**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 Radiology (Diagnosis); Chairman of Department (1952).
B.A. (1941), Duke; M.D. (1944), Cornell.
- †**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.Sc., Professor of Neurology (Good Samaritan Hospital) (1939).
B.S. (1929), Linfield; M.A. (1934), M.D. (1934), Ph.D. (1935), Oregon; D.Sc. (1963), Linfield.
- Hall Downes**, M.D., Ph.D., Assistant Professor of Pharmacology (1969).
B.A. (1955), M.D. (1959), Harvard; Ph.D. (1969), Utah.
- †**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**, 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.
- ‡**Gordon G. Eaton**, M.D., Assistant Professor of Medical Psychology (1971).
B.A. (1964), Victoria; Ph.D. (1970), California (Berkeley).
- †**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., Professor of Medicine; 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.

† Volunteer.

‡ Part-time.

- †**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.
- †**Roy J. Ellsworth**, M.D., Clinical Instructor in Ophthalmology (1970).
B.A. (1953), M.D. (1957), Oregon.
- †**Richard P. Embick**, M.D., Clinical Instructor in Orthopedics (1962).
B.A. (1942), M.D. (1943), Wisconsin.
- †**Lee E. Emery, Jr.**, D.M.D., Assistant Professor of Dentistry (1969).
D.M.D. (1963), Oregon.
- †**Joseph L. Emmerich**, M.D., Assistant Clinical Professor of Pediatrics (1966).
B.S. (1957), M.D. (1959), Illinois.
- †**Walter R. Enders**, M.D., Assistant Clinical Professor of Ophthalmology (1960).
B.A. (1945), M.D. (1947), Oregon.
- Rudolph C. H. Engel**, M.D., Professor of Pediatrics (1952).
M.D. (1929), University of Bonn (Germany); M.S., M.D. (1949), Minnesota.
- Peter A. Erbguth**, M.D., Instructor in Anesthesiology (1970).
M.D. (1964), Würzburg.
- †**Wayne G. Ericksen**, M.D., Associate Clinical Professor of Radiology (Diagnosis) (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.
- †**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.
- Edwin C. Everts**, M.D., Assistant Professor of Otolaryngology (1970).
B.A. (1958), Willamette; M.D. (1962), Oregon.
- 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.
- †**Philip John Fagan**, M.D., Assistant Professor of Orthopedics (Veterans Hospital) (1970).
M.D. (1942), Creighton.
- †**Thomas E. Fagan**, M.D., Clinical Instructor in Orthopedics (1969).
B.A. (1957), St. Mary's (California); M.D. (1961), 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.

† Volunteer.

‡ Part-time.

- 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.
- M. Lynette Feeney**, Ph.D., Assistant Professor of Ophthalmology (1970).
A.B. (1953), Mt. St. Joseph; M.A. (1964), Ph.D. (1968), University of California (San Francisco).
- 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., Clinical Professor of Urology (1961).
B.A. (1919), College of Idaho; M.A., M.D. (1922), Oregon.
- Peggy Copple Ferry**, M.D., Associate Professor of Pediatrics and Assistant Professor, Neurology; Associate Professor, Crippled Children's Division (1966).
B.S. (1956), M.D. (1959), Oregon.
- Ruby Fields**, M.S., Instructor, Crippled Children's Division (1969).
B.A. (1948), Western State (Colorado); M.S. (1969), Portland State.
- †**Ronald A. Findlay**, M.D., Clinical Instructor in Family Practice (1971).
B.A. (1950), Reed; M.D. (1952), 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., Associate Clinical Professor of Psychiatry (1963).
M.D. (1945), Friedrich Wilhelms, University of Berlin.
- Dallas G. 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.
- †**William A. Fisher**, M.D., Assistant Clinical Professor of Family Practice (1970).
B.S. (1948), M.D. (1949), Oregon.
- †**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., Professor of Medical Psychology (1962).
B.A. (1958), M.A. (1959), South Dakota; Ph.D. (1962), Indiana.
- ‡**Latham Flanagan**, M.D., Senior Clinical Instructor in Surgery (1968).
M.D. (1961), Duke.
- †**John R. Flanery**, M.D., Associate Clinical Professor of Medicine (1956).
B.S. (1948), M.D. (1952), Oregon.
- †**John T. Flaxel**, M.D., Clinical Instructor in Ophthalmology (1969).
B.A. (1958), M.D., M.S. (1963), Oregon.

† Volunteer.

‡ Part-time.

MEDICAL
SCHOOL
FACULTY

- †**Donald G. Fleetwood**, D.D.S., Assistant 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., Professor of Surgery (1960).
A.B. (1952), Dartmouth; M.D. (1955), Harvard.
- †**Lynd L. Folts**, M.D., Clinical Instructor in Pediatrics (1961).
B.S. (1937), University of Washington; M.D. (1943), Oregon.
- †**Peter S. Ford**, M.D., Clinical Instructor in Family Practice (1971).
B.Sc. (1945), Pacific University; M.D. (1951), Oregon.
- †**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., Senior Clinical Instructor in Surgery (1967).
B.A. (1955), M.D. (1958), Iowa.
- †**Everill W. Fowlks**, M.D., Associate Professor of Physical Medicine and Rehabilitation (Veterans Hospital) (1966).
B.A. (1925), Utah; M.D. (1935), Colorado.
- Kaye E. Fox**, Ph.D., Associate Professor of Pharmacology (1964).
B.S. (1954), Michigan; Ph.D. (1964), Stanford.
- †**Thomas J. Fox**, M.D., J.D., Associate Clinical Professor of Public Health and Preventive Medicine (1950).
B.S. (1937), Portland; M.D. (1941), Oregon; M.S. (1950), Tulane; J.D. (1967), Northwestern School of Law.
- †**Alan Frankel**, Ph.D., Clinical Instructor in Psychiatry (Psychology) (1970).
A.B. (1954), Brooklyn; Ph.D. (1964), Texas.
- †**Herman M. Frankel**, M.D., Clinical Instructor in Pediatrics (1968).
A.B. (1958), M.D. (1962), Columbia.
- †**Richard W. Franklin**, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1955).
B.S. (1945), M.D. (1948), Oregon.
- 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.
- †**Stanton L. Freidberg**, M.D., Senior 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 Radiology (Diagnosis) (1967).
B.S. (1955), Oregon State; M.D. (1957), Oregon.
- †**Richard D. Frisbie**, M.D., Clinical Instructor in Pediatrics (1971).
B.S. (1953), M.D. (1956), Nebraska.
- 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 Radiology (Diagnosis) (1953).
M.D. (1949), Harvard.
- †**Thomas E. Frothingham**, M.D., Assistant Clinical Professor of Microbiology and Pediatrics (1969).
M.D. (1951), Harvard.
- †**Robert J. Fry**, M.D., Clinical Instructor in Orthopedics (1958).
B.A. (1947), Michigan; M.D. (1952), Temple.
- 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.
- †**Walter L. Gabler**, D.D.S., Ph.D., Affiliate in Biochemistry (Dentistry, Dental School) (1970).
D.D.S. (1956), Ph.D. (1964), Northwestern.
- †**Ferenc F. Gabor**, M.D., Clinical Instructor in Urology (1970).
M.D. (1954), Pecs (Hungary).
- John D. Gabourel**, Ph.D., Professor of Pharmacology (1964).
B.S. (1950), California; M.S. (1951), San Francisco; Ph.D. (1957), Rochester.
- †**William P. Galen**, M.D., Assistant Clinical Professor of Medicine (1953).
B.S. (1946), M.D. (1948), Oregon.
- Anthony E. Gallo**, M.D., Professor of Neurosurgery (1968).
B.S. (1952), Tufts; M.D. (1956), Harvard.
- †**John J. Galluci**, M.D., Assistant Clinical Professor of Radiology (Therapy) (1970).
B.S. (1956), Seattle University; M.D. (1959), Marquette.
- †**L. Phaon Gambee**, M.D., Clinical Instructor in Orthopedics (1962).
B.S. (1951), Gonzaga; M.D. (1957), Creighton.
- †**J. Scott Gardner**, M.D., Clinical Professor of Urology (1945).
B.A. (1935), Utah; M.D. (1939), Cornell.
- 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., Associate Clinical Professor of Surgery (1955).
B.A. (1943), Oregon State; M.D. (1945), Oregon.
- †**P. Rocca Garofalo** M.D., Ph.D., Clinical Instructor in Neurology (1970).
A.B. (1951), Barnard; M.S. (1953), Ph.D. (1958), M.D. (1960), Oregon.
- †**Howard J. Geist**, M.D., Assistant Clinical Professor of Orthopedics (1965).
M.D. (1955), Harvard.
- †**John Gerhardt**, M.D., Clinical Instructor in Physical Medicine and Rehabilitation (1971).
M.D. (1948), Karl Franzen (Austria).
- Nancy B. Gerhardt**, M.S., Instructor in Microbiology (1966).
B.S. (1950), Oregon State; M.S. (1971), Oregon.
- †**Luigi Giacometti**, Ph.D., Associate Professor of Dermatology (Primate Center) (1969).
M.Sc. (1962), Ph.D. (1964), Brown.
- ‡**Jerry D. Giesy**, M.D., Assistant Clinical Professor of Urology (1964).
B.A. (1955), M.D. (1959), Oregon.
- †**James H. Gilbaugh, Jr.**, M.D., Clinical Instructor in Urology (1970).
M.S., M.D. (1963), Oregon.
- †**David N. Gilbert**, M.D., Assistant Clinical Professor of Medicine (1971).
B.S. (1963), M.D. (1964), Oregon.
- John H. Gilberts**, M.D., Assistant Professor of Family Practice (1971).
B.A. (1959), University of Washington; M.D. (1963), Kansas.
- †**Joseph H. Gill**, M.D., Senior Clinical Instructor in Orthopedics (1949).
B.A. (1940), Reed; M.D. (1943), Oregon.
- †**Samuel F. Gill**, M.D., Senior 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.
- †**Richard Gingrich**, M.D., Clinical Instructor in Surgery (1970).
B.A. (1952), Walla Walla; M.D. (1956), Loma Linda.
- †**Andrew Glass**, M.D., Clinical Instructor in Pediatrics (1971).
M.D. (1965), Pennsylvania.
- †**Vincent Glaudin**, Ph.D., Associate Professor of Psychiatry (Veterans Hospital) (1966).
B.S. (1949), Ph.D. (1954), Illinois.
- †**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 (1967).
B.S. (1957), M.D. (1960), Northwestern; M.P.H. (1964), California.
- †**Marvin C. Goldman**, M.D., Associate 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.
- †**Buell E. Goocher**, Ph.D., Assistant Clinical Professor of Psychiatry (Psychology) (1964).
B.S. (1958), Wisconsin; M.A. (1961), Ph.D. (1963), Southern Illinois.

† Volunteer.
‡ Part-time.

- †**Morton J. Goodman**, M.D., Assistant Clinical Professor of Medicine (1935).
B.A. (1926), M.D. (1929), Oregon.
- †**Scott Goodnight**, M.D., Clinical Professor of Pediatrics (1940).
B.A. (1930), Wisconsin; M.D. (1932), Oregon.
- †**John R. Gorman**, M.D., Clinical Instructor in Family Practice (1971).
B.S. (1950), Kansas State; M.D. (1954), Kansas.
- †**Guy W. Gorrell**, M.D., Associate Clinical Professor of Surgery (1961).
B.S. (1950), M.D. (1953), Oregon.
- †**Walter A. Goss**, M.D., Associate 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; Professor of Medicine (1948).
B.A. (1939), M.D. (1941), Oregon.
- †**Richard T. Gourley**, M.D., Affiliate in Pathology (1967).
B.A. (1958), Reed; M.D. (1963), Oregon.
- †**David Gowing**, M.D., Associate Clinical Professor of Anesthesiology (1962).
A.B. (1955), Boston; M.D. (1959), Yale.
- Julia L. Grach**, M.D., Assistant Professor of Pediatrics (1967).
B.A. (1951), M.D. (1955), University of Santo Thomas (Manila, Philippines).
- †**Robert H. Gray**, M.D., Assistant Clinical Professor of Medicine (1961).
B.S. (1953), M.D. (1955), Oregon.
- †**Gerald S. Green**, M.D., Assistant Clinical Professor in Radiology (Diagnosis) (1969).
B.S. (1960), California (Berkeley); M.D. (1963), California (San Francisco).
- †**Merwyn Greenlick**, Ph.D., Associate Clinical Professor of Public Health and Preventive Medicine (1970).
B.S. (1957), M.S. (1961), Wayne State; Ph.D. (1967), Michigan.
- 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.
- †**John J. Greve**, M.D., Senior 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.
- †**Charles K. Griffin**, M.D., Clinical Instructor in Medicine (1971).
B.A. (1961), California (Berkeley); M.D. (1966), George Washington.
- †**Joseph W. Griffith**, B.A., Instructor, Research Instrument Service (1969).
B.A. (1948), Reed.
- †**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.

† Volunteer.
‡ Part-time.

- †**LeRoy E. Groshong**, M.D., Associate 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., Assistant Clinical Professor of Surgery (1959).
A.B. (1949), Stanford; M.D. (1954), Oregon.
- M. Roberts Grover, Jr.**, M.D., Associate Dean; Director of Continuing Medical Education; Professor of Medicine (1958).
B.A. (1950), Bowdoin; M.D. (1954), Cornell; M.S. (1956), Oregon.
- Sergio Guerrero**, D.D.S., Visiting Assistant Professor of Pharmacology (1970).
D.D.S. (1955), Chile.
- †**Guy K. Guffee**, M.D., Clinical Instructor in Surgery (1970).
B.A. (1958), Texas; M.D. (1962), Texas (Galveston).
- 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.
- William D. Guyer**, M.D., Assistant Professor of Orthopedics; Assistant Professor, Crippled Children's Division (1971).
B.S. (1948), Oregon State; M.D. (1953), Oregon.
- †**Raymond T. Gustafson**, M.D., Clinical Instructor in Family Practice (1971).
B.S. (1952), M.D. (1955), Wisconsin.
- †**Russell G. Gustavson**, M.D., Assistant Clinical Professor of Surgery (1957).
B.A. (1950), M.D. (1952), Nebraska.
- †**Helmut Haas**, M.D., Associate Professor of Medicine (Veterans Hospital) (1966).
B.S. (1956), M.D. (1958), Minnesota.
- †**Seymour Haber**, M.D., Clinical Instructor in Radiology (Diagnosis) (1970).
A.B. (1949), Park; M.D. (1954), State University of New York.
- †**Clarence H. Hagmeier**, M.D., Clinical Instructor in Anesthesiology (1967).
B.S. (1943), M.D. (1950), Pittsburgh.
- James E. Haines**, M.D., Associate Professor of Clinical Pathology and Radiation Therapy (Nuclear Medicine) (1966).
B.S. (1950), M.D. (1955), Stanford.
- B. John Hale**, M.S.W., M.P.H., Instructor, Crippled Children's Division (1970).
B.S. (1964), Weber State; M.S.W. (1966), Utah; M.P.H. (1970), California (Berkeley).
- †**Larry J. Hall**, M.D., Clinical Instructor in Pediatrics (1970).
B.A. (1962), M.D. (1963), Oregon.
- †**Roger W. Hallin**, M.D., Assistant Clinical Professor of 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.
- †**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 (Medical Technology) (1957).
B.S. (1945), Texas Wesleyan; M.D. (1952), Texas.

† Volunteer.

- †**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 (1936).
B.A. (1926), M.A. (1928), Ph.D. (1934), Wisconsin; M.D. (1934), Chicago.
- †**Robert F. Haney, M.D.**, Assistant Clinical Professor of 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.
- †**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.**, Senior Clinical Instructor in Surgery (1966).
M.D. (1958), University of Washington.
- †**Robert L. Hare, M.D.**, Associate 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 Family Practice (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.**, Assistant Clinical Professor of Medicine (1963).
B.D. (1929), Whitman; B.S., M.D. (1941), Northwestern.
- †**William D. Harrison, M.D.**, Clinical Instructor in Continuing Medical Education (1970).
B.S. (1945), Willamette; M.D. (1949), Oregon.
- †**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.

MEDICAL
SCHOOL
FACULTY

- Frederick P. Haugen** M.D., Professor of Anesthesiology (1948).
B.A. (1933), M.D. (1935), Oregon.
- †**Thomas Haun**, M.D., Senior Clinical Instructor in Medicine (1963).
M.D. (1957), Creighton.
- †**John F. Hayes**, M.D., Clinical Instructor in Surgery (1955).
B.A. (1945), Oregon State; M.D. (1947), Oregon.
- †**Gordon D. Haynie**, M.D., Associate 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**, Ph.D., Assistant Professor, Crippled Children's Division (1967).
B.S. (1952), M.S. (1955), Oregon; M.A. (1960), Ph.D. (1970), 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.
- †**J. Allan Henderson**, M.D., Clinical Instructor in Family Practice and Continuing Medical Education (1971).
B.S. (1950), University of Washington; M.D. (1953), Oregon.
- †**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.
- 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; Associate 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.
- †**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.

† Part-time.

† Volunteer.

* Leave of absence July 1, 1971 to June 30, 1972.

- †**William E. Hill**, M.D., Assistant Clinical Professor of Pediatrics (1962).
B.A. (1947), Maine; M.D. (1951), Tufts.
- †**Ernest H. Hixon**, D.D.S., Professor of Dentistry (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.
- †**Richard A. Hodgson**, M.D., Clinical Instructor in Otolaryngology (1962).
B.S. (1954), Oregon State; M.D. (1956), Oregon.
- †**John W. Hoffman**, D.M.D., M.D., Affiliate in 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 R. Holzgang**, M.D., Assistant Professor of Medicine; Director of Education, Medicine Outpatient Professional Services (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., Associate Clinical Professor of Radiology (Therapy) (1959).
B.S. (1946), M.S. (1947), M.D. (1952), Michigan.
- A. Wesley Horton**, Ph.D., Professor of Environmental Medicine and Biochemistry; Acting Head, Division of Environmental Medicine (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; 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.

MEDICAL
SCHOOL
FACULTY

- †**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 Radiology (Diagnosis) (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 and Affiliate in Neuropathology (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 Family Practice (1967).
B.A. (1949), Linfield; M.D. (1953), Oregon.
- Tyra T. Hutchens**, M.D., Professor of Clinical Pathology; Chairman of Department (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.
- John J. Hutchins**, M.H.A., Assistant to the Administrator, Medical School Hospital; Instructor (1970).
B.S. (1967), Oregon State; M.H.A. (1970), U.C.L.A.
- Jack H. Hutchinson**, B.A., Instructor in Medicine (1961).
B.A. (1949), Lewis and Clark.
- †**Alfred C. Hutchinson**, M.D., Clinical Instructor in Family Practice (1970).
M.D. (1943), Oregon.
- †**Peter B. Hutchinson**, M.D., Clinical Instructor in Medicine (1970).
B.A. (1959), Johns Hopkins; M.D. (1963), McGill.
- †**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 Radiology (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 Radiology (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.

† Volunteer.

‡ Part-time.

FACULTY

- 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.
- van Inger, Ph.D.**, Associate Professor of Psychiatry (1970).
A.B. (1960), Ph.D. (1965), Washington University.
- Joseph A. Intile, M.D.**, Clinical Instructor in Medicine (1968).
B.S. (1953), City College of New York; M.D. (1957), New York Medical College.
- Robert J. Iorio, Ph.D.**, Assistant Professor of Anatomy (1971).
A.B. (1963), Brown; Ph.D. (1968), S.U.N.Y. (Syracuse).
- Willis J. Irvine, M.D.**, Clinical Instructor in Family Practice (1970).
M.D. (1948), Oregon.
- Samuel Irwin, Ph.D.**, Professor of Pharmacology in Psychiatry (1964).
B.A. (1948), Rutgers; Ph.D. (1954), Michigan.
- John B. Isom, M.D.**, Professor of Neurology and Pediatrics (1963).
B.A. (1950), M.D. (1954), Vanderbilt.
- Russell Jackson, Ph.D.**, Assistant Professor of Medical Psychology; Assistant Professor, Crippled Children's Division (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.
- Wesley R. Jacobs, M.D.**, Senior Clinical Instructor in Medicine (1967).
M.S., M.D. (1960), Oregon.
- Frank M. Jacobson, M.D.**, Assistant Clinical Professor of Pediatrics (1962).
M.D. (1951), Oregon.
- Sheldon A. Jacobson, M.D.**, Affiliate in 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.**, Professor of Dentistry (1960).
D.D.S. (1938), Indiana.
- J. Theodore Jastak, D.D.S., Ph.D.**, Associate Professor of Dentistry (1969).
D.D.S. (1962), Seton Hall; Ph.D. (1967), Rochester.
- Jack D. Jefferson, M.D.**, Senior 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).

MEDICAL
SCHOOL
FACULTY

- †**Marvin M. John, M.D.**, Clinical Instructor in Family Practice (1971).
B.A. (1951), M.D. (1954), Oregon.
- †**David S. Johnson, M.D.**, Assistant Clinical Professor of Clinical Pathology (1970).
M.D. (1948), Washington University.
- †**Donald R. Johnson, M.D.**, Clinical Instructor in Ophthalmology (1965).
B.A. (1951), Minnesota; A.M. (1952), Harvard; M.D. (1961), Stanford.
- Florence E. Johnson, M.A., A.M.**, Serials Librarian; Assistant Professor (1970).
B.A. (1939), M.A. (1952), Toronto; A.M. (1964), Chicago.
- †**Raymond M. Johnson, Jr., M.D.**, Clinical Instructor in Family Practice (1971).
B.S. (1955), M.D. (1957), Oregon.
- †**Roderick L. Johnson, M.D.**, Senior Clinical Instructor in Surgery (1960).
B.S. (1948), M.D. (1951), University of Washington.
- †**Warren E. Johnson, Ph.D.**, Assistant Professor of Otolaryngology (Audiology) (Portland Center for Hearing and Speech) (1962).
A.B. (1949), Wabash; M.A. (1950), Northwestern; Ph.D. (1970), Oregon.
- †**Russell L. Johnsrud, M.D.**, Assistant Clinical Professor of Surgery (1936).
B.A. (1930), M.D. (1933), Oregon.
- †**Charles E. Johnston, M.D.**, Clinical Instructor in Psychiatry (1970).
B.A. (1955), Duke; M.D. (1962), Medical College of Virginia.
- 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.
- †**Homer C. Jones, Jr., M.D.**, Instructor in Anesthesiology (Veterans Hospital) (1969).
B.S. (1949), Southern Methodist; M.D. (1952), Texas (Dallas).
- †**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.
- Terence M. Joys, Ph.D.**, Associate Professor of Microbiology (1965).
B.Sc. (1957), Leeds (England); Ph.D. (1961), Lister Institute of University of London.
- 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.
- 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.**, Assistant Clinical Professor of 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.
- 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.**, Professor of Medicine (1962).
B.A. (1955), Reed; M.D. (1956), Oregon.
- †**Eugene A. Kazmierski, M.D.**, Clinical Instructor in Medicine (1971).
M.D. (1963), Warsaw (Poland).
- †**Foster F. Keene, M.D.**, Clinical Instructor in Medicine (1968).
B.A. (1955), M.D. (1959), Stanford.
- †**Shiela M. Keil, M.L.**, Acquisitions Librarian, Instructor (1971).
B.A. (1968), Puget Sound; M.L. (1969), University of Washington.
- †**John P. Keizer, M.D.**, Associate Clinical Professor of Ophthalmology (1953).
B.A. (1934), M.D. (1937), Oregon.
- †**Harley D. Kelley, M.D.**, Senior Clinical Instructor in Surgery (1965).
B.A. (1955), Pacific; M.D. (1959), Oregon.
- †**Donald F. Kelly, M.D.**, Assistant Professor of Dentistry; Associate Clinical Professor of Pediatrics (1959).
B.S. (1949), Portland; M.D. (1954), Oregon.
- John W. Kendall, Jr., M.D.**, Professor Medicine; Head, Division of Diabetes and Metabolism (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.
- Jack L. Keyes, Ph.D.**, Assistant Professor of Physiology (1971).
B.A. (1963), Linfield; Ph.D. (1970), Oregon.
- †**Ilmar O. Kiesel, M.D.**, Assistant Professor of Radiology (Diagnosis) (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.
- P. John Kim, Ph.D.**, Assistant Professor of Biostatistics (Public Health and Preventive Medicine) (1971).
B.S. (1963), Ohio; M.A. (1965), California (Berkeley); Ph.D. (1969), U.C.L.A.
- †**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.
- William J. Kimberling, Ph.D.**, Instructor in Medical Genetics (1970).
A.B. (1962), Ph.D. (1967), Indiana.
- †**Philip S. King, III, M.D.**, Senior Instructor in Physical Medicine and Rehabilitation (Veterans Hospital) (1968).
B.A. (1949), Omaha; M.D. (1952), Nebraska.

* Volunteer.
† Part-time.

MEDICAL
SCHOOL
FACULTY

- †**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 D. C. 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. Kliewer, 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.**, Associate Professor of Medicine (1965).
B.S. (1955), Iowa State; M.D. (1958), Iowa.
- †**Mark S. Kochevar, M.D.**, Clinical Instructor in Family Practice (1971).
B.S. (1952), M.D. (1955), Colorado.
- Robert D. Koler, M.D.**, Professor of Medicine; Head of Division of Medical Genetics (1953).
B.A. (1945), M.D. (1947), Oregon.
- John D. Koontz, B.S.**, Assistant Professor of Clinical Pathology (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 Psychiatry (Psychiatric Social Work) (1962).
B.A. (1945), M.A. (1950), Chicago.
- †**Richard H. Kosterlitz, M.D.**, Assistant Clinical Professor of Medicine (1958).
B.S., M.D. (1949), Illinois.
- †**Arthur D. Kracke, M.D.**, Associate 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.
- †**John C. Krauss, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1970).
B.A. (1959), Hope; M.D. (1963), Wayne State.
- †**Alfred J. Kreft, M.D.**, Senior Clinical Instructor in Ophthalmology (1951).
B.S. (1933), M.D. (1936), Illinois.
- Edna Louise Kremkau, M.D.**, Assistant Professor of Medicine (1970).
B.A. (1963), M.D. (1965), Oregon.
- †**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 (1947).
B.A. (1935), Reed; M.D. (1939), Oregon.
- † **John R. Ladd, M.D.**, Clinical Instructor in Medicine (1969).
M.D. (1962), Michigan.
- † **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.**, Assistant Clinical Professor of 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.
- † **Ivan I. Langley, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1967).
B.A. (1940), Oregon State; M.D. (1943), Oregon.
- Claire Langston, M.D.**, Instructor in Pathology (1971).
B.A. (1963), Oberlin; M.D. (1967), Jefferson.
- † **Laurence R. Langston, M.D.**, Assistant Clinical Professor of Orthopedics (1956).
B.A. (1947), M.D. (1951), Oregon.
- † **Albert E. Larner, 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.
- † **Walter G. Larsen, M.D.**, Assistant Clinical Professor of Dermatology (1970).
B.S. (1956), California; M.D. (1960), Southern California.
- † **L. William Larson, M.D.**, Clinical Instructor in Medicine (1959).
B.S. (1949), M.D. (1951), Minnesota.
- † **Robert L. Larson, M.D.**, Senior Clinical Instructor in Orthopedics (1962).
B.A. (1949), Montana State University; M.D. (1953), George Washington; M.S. (1960), Minnesota.
- † **Wilbur L. E. Larson, M.D.**, Associate Professor of Neurology (Good Samaritan Hospital) (1968).
B.A. (1942), M.D. (1945), Oregon.

† Volunteer.

‡ Part-time.

MEDICAL
SCHOOL
FACULTY

- †**Robert E. Lawrence-Berrey**, M.D., Clinical Instructor in Clinical Pathology (1970).
B.A. (1956), Whitman; M.D. (1962), University of Washington.
- Russell K. Lawson**, M.D., Associate Professor of Urology (1968).
B.S. (1962), M.D. (1963), Oregon.
- †**William C. Lawton**, M.D., Clinical Instructor in Family Practice (1971).
B.A. (1958), Montana; M.D. (1962), Utah.
- †**Richard Lazere**, Ph.D., Lecturer in Medical Psychology (1970).
B.S. (1963), State University of Iowa; M.A. (1964), Long Island; Ph.D. (1969), Waterloo.
- †**John B. Leary**, M.D., Clinical Instructor in Radiology (Diagnosis) (1970).
B.S. (1961), M.S. (1961), Minnesota.
- †**Gary H. Leaverton**, M.D., Senior Clinical Instructor in Surgery (1962).
B.S. (1953), M.D. (1955), Oregon.
- †**Chang H. Lee**, M.D., Clinical Instructor in Surgery (1971).
B.S. (1953), Oregon State; M.D. (1957), 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 Radiology (Therapy) (1955).
B.A. (1944), Willamette; M.D. (1946), Oregon.
- †**T. David Lee, Jr.**, M.D., Assistant Clinical Professor of Medicine (1965).
A.B. (1954), Dartmouth; M.D. (1957), Harvard.
- Martin H. Lees**, M.D., 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.
- †**Berthold Leibrecht**, M.D., Clinical Instructor in Pediatrics (1970).
M.D. (1961), L.M. University (Germany).
- †**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.
- Benjamin S. Leung**, Ph.D., Assistant Professor of Surgery (1971).
B.S. (1963), Seattle Pacific; Ph.D. (1969), Colorado State.
- †**Jonathan Levine**, M.D., Clinical Instructor in Neurology (1969).
B.A. (1958), M.D. (1962), Columbia.
- †**Larry V. Lewman**, M.D., Affiliate in Pathology (1971).
B.A. (1963), Kansas State; M.D. (1967), Kansas.
- Howard P. Lewis**, M.D., Dr. Laurence Selling Professor of Medicine (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.
- David Linder**, M.D., Associate Professor of Pathology (1970).
M.D. (1951), Rochester.
- †**Aarne J. Lindgren**, M.D., Assistant Clinical Professor of Medicine (1948).
B.S. (1936), M.S., M.D. (1942), Oregon.
- †**Verner V. Lindgren**, M.D., Assistant Clinical Professor of 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.
- †**Charles M. Lindsay**, M.D., Clinical Instructor in Family Practice and Continuing Medical Education (1971).
M.D. (1950), Utah.
- John Lingas**, M.D., Associate Professor of Psychiatry (1970).
B.Sc. (1954), M.D. (1959), Alberta.
- 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., Professor of Biochemistry and Medical Genetics (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; Chairman of Department (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; Associate Professor (1965).
B.A. (1964), University of Washington.
- †**Otto L. Loehden**, M.D., Senior Clinical Instructor in Surgery (1969).
B.S. (1956), M.D., (1958), Oregon.
- Catherine A. Loessel**, M.P.H., Instructor, Crippled Children's Division (1971).
B.S.N. (1967), Michigan; M.P.H. (1970), Hawaii.
- †**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 (1943).
B.A. (1934), Montana State University; M.D. (1939), Northwestern.
- †**John Wayne Loomis**, M.D., Associate Clinical Professor of Radiology (Diagnosis) (1951).
B.A. (1940), Reed; M.D. (1943), Oregon.

† Volunteer.

‡ Part-time.

MEDICAL
SCHOOL
FACULTY

- Harold M. Louis**, D.D.S., Assistant Professor, Crippled Children's Division (1970).
D.D.S. (1957), Northwestern.
- Everett W. Lovrien**, M.D., Associate Professor of Pediatrics and Medicine; Professor, Crippled Children's Division (1966).
B.A. (1955), M.D. (1959), Minnesota.
- †**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., Professor of Dentistry (1968).
D.D.S. (1957), Buenos Aires; Ph.D. (1965), Saskatchewan.
- †**Henrik A. B. Lundh**, M.D., Assistant Professor of Medicine (Veterans Hospital) (1965).
M.D. (1957), University of Washington.
- †**Robert C. Luther**, M.D., Clinical Instructor in Psychiatry (1967).
A.B. (1955), Whitman; M.D. (1959), Oregon.
- †**William R. McAllister**, M.D., Senior Clinical Instructor in Surgery (1967).
B.S. (1959), M.D. (1962), Northwestern.
- †**Frank D. McBarron**, M.D., Clinical Instructor in Medicine (1969).
B.S. (1955), Seattle University; M.D. (1959), Creighton.
- †**William H. McCarthy**, M.D., Clinical Instructor in Medicine (1970).
B.S. (1956), Gonzaga; M.D. (1959), Creighton.
- Elton L. McCawley**, Ph.D., Professor of Pharmacology (1949).
A.B. (1938), M.S. (1939), Ph.D. (1942), California.
- †**David McClure**, Ph.D., Assistant Clinical 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 (1969).
B.S. (1929), Grand Island; M.D. (1931), Nebraska.
- †**James R. McDougall**, M.D., Clinical Instructor in Radiology (Diagnosis) (1968).
B.Sc. (1944), Manitoba; M.D. (1949), Laval.
- †**George D. McGeary**, M.D., Clinical Instructor in Continuing Medical Education (1970).
B.S. (1942), M.B. (1944), M.D. (1945), Minnesota.
- †**Murdoch E. McIntyre**, M.D., Clinical Instructor in Family Practice (1971).
B.A. (1945), M.D. (1947), Oregon.
- †**Frank E. McKeown**, D.M.D., Instructor in Dentistry (1971).
B.A. (1957), University of Washington; B.S. (1966), D.M.D. (1969), Oregon.
- †**Robert G. McKillop**, M.D., Senior Clinical Instructor in Medicine and 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).
- †**Richard H. McLaren**, M.D., Clinical Instructor in Continuing Medical Education (1970).
M.D. (1954), Oregon.

- ‡**Edward N. McLean**, M.D., Associate 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 V. Macfarlane**, M.D., Associate Professor of Pediatrics; Associate Professor, Crippled Children's Division (1956).
B.S. (1948), M.S., M.D. (1951), Illinois.
- Jean P. Macfarlane**, M.D., Assistant Professor of Medical Genetics; Assistant Professor, Crippled Children's Division (1969).
B.A. (1942), Mount Holyoke; M.D. (1948), Rochester.
- ‡**James L. Mack**, M.D., Senior 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.
- R. Ellen Magenis**, M.D., Assistant Professor, Crippled Children's Division; Assistant Professor of Pediatrics (1970).
A.B. (1946), M.D. (1952), Indiana.
- ‡**Delmar J. Mahler**, Ph.D., Instructor in Medicine (Veterans Hospital) (1971).
B.S. (1949), M.S. (1951), Ph.D. (1958), Nebraska.
- ‡**Stephen W. Maks**, M.D., Clinical Instructor in Medicine (1959).
B.S. (1950), Portland; M.D. (1953), Creighton.
- ‡**Manuel R. Malinow**, M.D., Associate Professor of Medicine (Primate Center) (1963).
B.S. (1938), Colegio Nacional de Buenos Aires; M.D. (1944), Buenos Aires Medical School.
- ‡**Arthur Malley**, Ph.D., 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 University; M.D. (1940), 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 (Psychology) (1968).
S.B. (1938), Chicago; M.S. (1940), Wisconsin; Ph.D. (1952), California.

‡ Part-time.

† Volunteer.

- Victor C. Marquardt, Jr., M.D.**, Associate Professor of Clinical Pathology Medical Technology) (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.
- †**Robert C. Marshall, Ph.D.**, Assistant Clinical Professor of Speech Pathology (1969).
B.A. (1961), California (Santa Barbara); M.S. (1965), Oregon; Ph.D. (1969), Oklahoma.
- †**William R. Marshall, M.D.**, Clinical Instructor in Surgery (1970).
B.S. (1954), M.D. (1958), Alabama.
- †**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.
- †**Rolland A. Martin, M.D.**, Assistant Clinical Professor of Public Health and Preventive Medicine (1971).
B.S. (1947), Nebraska; M.D. (1949), Oregon.
- †**Charles L. Martinson, M.D.**, Clinical Instructor in Medicine (1969).
B.S. (1961), M.D. (1963), Oregon.
- †**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.
- †**James A. Mason, M.D.**, Senior Clinical Instructor in Orthopedics (1948).
B.S. (1930), M.D. (1932), Nebraska.
- †**Robert E. Mass, M.D.**, Professor of Medicine (Veterans Hospital) (1957).
B.A. (1948), M.D. (1951), Oregon.
- †**John Clifton Massar, M.D.**, Associate 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.**, Associate Professor of Dentistry (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).

† Volunteer.

- †**Roy R. Matteri**, M.D., Assistant Clinical Professor of Medicine (1946).
B.S. (1940), M.D. (1942), Creighton.
- †**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., Clinical Professor of Pediatrics (1948).
B.A. (1939), University of Washington; M.D. (1943), Oregon.
- †**Roland M. Mayer**, M.D., Senior 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., Associate Clinical Professor of Medicine (1956).
B.S. (1946), M.D. (1948), Creighton.
- Robert J. Meechan**, M.D., Professor of Pediatrics (1956).
B.A. (1951), Oregon State; M.S., M.D. (1953), Oregon.
- †**Edward Colton Meek, Jr.**, M.D., Affiliate in 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.
- †**Walter E. Meihoff**, M.D., Assistant Clinical Professor of Medicine (1967).
B.S. (1956), M.D. (1959), Oregon.
- Clifford S. Melnyk**, M.D., Associate Professor of Medicine (1967).
M.D. (1959), British Columbia.
- Victor D. Menashe**, M.D., Professor and Associate Director of Crippled Children's Division, Professor of Pediatrics (1958).
B.S. (1951), M.D. (1953), Oregon.
- †**Robert A. Mendelson**, M.D., Associate Clinical Professor of Pediatrics (1964).
B.A. (1955), Reed; M.D. (1959), Oregon.
- ‡**Ruth L. Mercer** M.A., Assistant Professor of Dietetics (1958).
B.A. (1941), Kansas; M.A. (1948), Columbia.
- †**Ralph G. Merrill**, M.Sc.D., Professor of Dentistry (1968).
D.D.S. (1959), University of Washington; M.Sc.D. (1963), Boston.
- James E. Merritt**, M.S.W., Instructor, Crippled Children's Division (1970).
B.A. (1949), M.S.W. (1951), University of Washington.
- 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., Senior Clinical Instructor in Surgery (1965).
B.A. (1948), M.D. (1953), Texas.
- Sam L. Meyer** M.D., Assistant Professor of Ophthalmology (1968).
B.A. (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.

† Volunteer.

‡ Part-time.

MEDICAL
SCHOOL
FACULTY

- †**Robert D. Michel**, M.D., Clinical 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.
- †**Bruce H. Miller**, M.D., Clinical Instructor in Dermatology (1970).
B.A. (1959), Amherst; M.D. (1963), S.U.N.Y. (Downstate).
- †**Glenn C. Miller**, M.D., Clinical Instructor in Family Practice (1971).
B.A. (1949), Oregon State; M.D. (1953), Washington University.
- Michael J. Miller**, M.D., Associate Professor of Pediatrics (1967).
B.S. (1955), Santa Clara; M.D. (1960), Oregon.
- †**Robert S. Miller**, M.D., Associate Clinical Professor of Radiology (Diagnosis) (1960).
B.A. (1951), Willamette; M.D. (1955), Oregon.
- †**William J. Miller**, M.D., Clinical Instructor in Pediatrics (1970).
B.S. (1940), Washburn; M.D. (1943), Washington University.
- †**Laurence W. Mills**, B.S., Instructor in Research Instrument Service (Good Samaritan Hospital) (1968).
B.S. (1958), 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 and Dermatology; Head of Division of Experimental Biology (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.
- †**E. Albert Moody**, M.D., Assistant Clinical Professor of Pediatrics (1966).
A.B. (1939), California; M.D. (1943), Rochester.
- †**Raymond E. Moore**, M.D., Clinical Instructor in Family Practice (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.
- Alan L. Morgenstern**, M.D., Associate Professor of Psychiatry (1965).
B.A. (1954), Cornell; M.D. (1959), Duke.
- †**James F. Morris**, M.D., 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., Associate Clinical Professor of Medicine (1960).
B.A. (1938), Pacific University; M.D. (1952), Oregon.

† Volunteer.
‡ Part-time.

- ‡**Carl V. Morrison**, M.D., Associate Clinical Professor of Psychiatry (Child Psychiatry) (1947).
M.D. (1933), Iowa.
- William E. Morton**, M.D., Dr. P.H., 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 Radiology (Diagnosis) (1968).
B.S. (1946), M.D. (1948), Oregon.
- †**L. Lee Murdoch**, M.D., Assistant Clinical Professor of Pediatrics (1967).
B.A. (1957), Doane; M.D. (1960), Nebraska.
- †**Byron U. Musa**, M.D., Assistant Clinical Professor of Medicine (1971).
B.S. (1954), Oregon State; M.D. (1956), Oregon.
- †**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., Clinical Professor of Pediatrics (1954).
B.S. (1945), M.D. (1948), Oregon.
- †**Peter A. Nathan**, M.D., Clinical Instructor in Orthopedics (1970).
B.A. (1957), University College of Arts & Science (New York); B.M.S. (1959), M.D. (1963), Geneva.
- †**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 (Veterans Hospital) (1963).
B.A. (1951), Amherst; M.D. (1955), Cornell.
- †**Duncan R. Neilson**, M.D., Associate Clinical Professor of Obstetrics and Gynecology (1946).
A.B. (1934), Pacific University; M.D. (1938), Oregon.
- 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.
- †**James D. Nelson**, M.D., Clinical Instructor in Orthopedics (1969).
B.A. (1958), Drake; M.D. (1962), State University of Iowa.
- †**Richard I. Newman**, Ph.D., Clinical Instructor in Psychiatry (Psychology) (1971).
B.A. (1966), California State; M.S. (1968), Ph.D. (1971), Washington State.
- Burritt W. Newton**, M.D., Assistant Professor of Obstetrics and Gynecology (1968).
B.A. (1957), Ohio State; M.D. (1961), Western Reserve.

‡ Part-time.

† Volunteer.

MEDICAL
SCHOOL
FACULTY

- †**Gregory B. Nichols, M.D.**, Clinical Instructor in Radiology (Diagnosis) (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; Associate 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 E. Noble, M.D.**, Clinical Instructor in Pediatrics (1968).
B.A. (1959), M.S., M.D. (1962), Oregon.
- †**Joseph E. Nohlgren, M.D.**, Affiliate in Pathology (1949).
B.S. (1935), South Dakota; M.D. (1943), Oregon.
- ‡**Miles J. Novy, M.D.**, Assistant Professor of Obstetrics and Gynecology (1970).
B.A. (1954), Yale; M.D. (1963), Harvard.
- James H. O'Brien, Ph.D.**, Associate Professor of Medical Psychology (1968).
B.A. (1959), M.A. (1963), Ph.D. (1966), Michigan.
- †**Ralph D. Odell, M.D.**, Senior Clinical Instructor in Surgery (1968).
B.S. (1940), Northwestern; M.A. (1941), Michigan; B.A. (1943), M.D. (1947), Oregon.
- †**Frederick J. Oerther, M.D.**, Clinical Instructor in Medicine (1971).
B.A. (1958), Michigan; M.D. (1963), Wayne State.
- ***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.**, Assistant Clinical Professor of Pediatrics (1967).
A.B. (1954), Harvard; M.D. (1958), University of Washington.
- †**Arthur Oleinick, M.D.**, Associate Professor of Public Health and Preventive Medicine (1971).
A.B. (1957), M.P.H. (1959), Michigan; M.D. (1962), Johns Hopkins.
- Richard W. Olmsted, M.D.**, Professor of Pediatrics; Chairman of Department (1962).
B.A. (1941), Dartmouth; M.D. (1944), Harvard.
- George D. Olsen, M.D.**, Assistant Professor of Pharmacology (1970).
A.B. (1962), B.M.S. (1964), Dartmouth; M.D. (1966), 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.**, Associate 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.
- †**William R. Olson, M.D.**, Senior Clinical Instructor in Medicine (1961).
B.S. (1950), M.D. (1954), Creighton.

† Volunteer.

‡ Part-time.

* Leave of absence, September 1, 1971 to August 31, 1972.

- †**Robert W. Olwine**, M.D., Senior Clinical Instructor in Surgery (1968).
A.B. (1953), Hamilton; M.D. (1957), Virginia.
- †**James R. Orendurff**, M.D., Affiliate in Pathology (Veterans Hospital) (1964).
B.A. (1950), M.A. (1954), M.D. (1959), Oregon.
- †**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.
- †**Richard J. O'Shea**, M.D., Clinical Instructor in Family Practice (1971).
B.S. (1945), Oregon State; M.D. (1947), Oregon.
- 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.
- †**Richard D. O'Toole**, M.D., Assistant Clinical Professor of Medicine (1971).
B.A. (1956), Williams; M.D. (1963), Cornell.
- †**Arthur L. Ovregaard**, M.D., Associate Clinical Professor of Radiology (Diagnosis) (1954).
B.A. (1944), College of Idaho; M.D. (1948), Oregon.
- †**James G. Owen**, M.D., Clinical Instructor in Surgery (1971).
B.S. (1940), Monmouth; M.D. (1943), Washington University.
- †**Albert A. Oyama**, M.D., Associate Clinical Professor Clinical Pathology; Affiliate in 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., Senior 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 Professor of Pathology (Primate Center) (1968).
D.V.M. (1950), Kansas State; M.S. (1958), Colorado State.
- †**Kenneth G. Paltrow**, M.D., Assistant Clinical Professor of 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.
- †**Joseph F. Paquet**, M.D., Assistant Clinical Professor of Medicine (1944).
M.D. (1940), Duke.
- †**Paul F. Parakkal**, Ph.D., Associate Professor of Dermatology (Primate Center) (1969).
B.Sc. (1952), Kerala (India); M.Sc. (1958), McGill; Ph.D. (1962), Brown.
- M. R. Parelus**, M.Sc., LL.B., Business Manager; Associate 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., Affiliate in Microbiology (Oral Biology and Microbiology, Dental School) (1969).
B.S. (1950), M.S. (1952), Ph.D. (1956), Oregon State.

† Volunteer.

‡ Part-time.

MEDICAL
SCHOOL
FACULTY

- †**Robert S. Parker**, D.M.D., Associate Professor of Dentistry (1966).
D.M.D. (1939), Oregon.
- Rose Marie Parker**, Instructor in Clinical Pathology (Medical Technology) (1967).
- †**Max H. Parrott**, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1949).
B.S. (1938), Oregon State; M.D. (1940), Oregon; M.S. (1949), Michigan.
- †**Philip F. Parshley, Jr.**, M.D., Assistant Clinical Professor of Surgery (1964).
A.B. (1953), Dartmouth; M.D. (1956), Harvard.
- †**William R. Parsons**, M.D., Clinical Instructor in Neurosurgery (1970).
B.A. (1956), Vanderbilt; M.D. (1960), Baylor.
- †**Guy A. Parvaresh**, 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. Paull**, M.D., Associate Clinical Professor of Urology (1953).
B.A. (1942), Antioch; M.D. (1945), Western Reserve.
- †**Duane R. Paulson**, D.D.S., 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.
- Harper D. Pearse**, M.D., Assistant Professor of Urology (1971).
B.S. (1960), M.D. (1963), Utah.
- Anthony A. Pearson**, Ph.D., Professor of Anatomy (1946).
B.S. (1928), Furman; M.A. (1930), Ph.D. (1933), Michigan.
- †**George A. Peirson**, M.D., Assistant Clinical Professor of Physical Medicine and Rehabilitation (1966).
B.A. (1945), Oregon State; M.D. (1947), Oregon.
- †**Merle Pennington**, M.D., Clinical Instructor in Family Practice (1970).
M.D. (1944), Oregon.
- Martin L. Pernoll**, M.D., Assistant Professor of Obstetrics and Gynecology (1970).
B.S. (1962), Oregon; M.D. (1963), Texas (Galveston).
- †**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; Director of Computer Center (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 Radiology (Diagnosis) (1966).
B.S. (1950), Pepperdine; M.D. (1955), College of Medical Evangelists (Loma Linda).
- David S. Phillips**, Ph.D., Associate Professor of Medical Psychology (1963).
A.B. (1958), Wabash; M.S. (1960), Ph.D. (1962), Purdue.
- †**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.
- †**Allan R. Pike**, D.D.S., M.S., Assistant Clinical Professor of Dentistry (1969).
D.D.S. (1962), Marquette; M.S. (1969), 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 and Allergy (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.
- †**G. Wayne Plummer**, B.D., Clinical Instructor in Psychiatry (1970).
B.M. (1949), Westminster Choir College; B.D. (1952), Princeton.
- †**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., Professor of Dentistry (1953).
D.D.S. (1951), M.S. (1953), Michigan.
- George A. Porter**, M.D., Associate Professor of Medicine; Chief, Section of Renology (1964).
B.S. (1953), Oregon State; M.S., M.D. (1957), Oregon.
- John M. Porter**, M.D., Assistant Professor of Surgery (1971).
M.D. (1963), Duke.
- †**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.
- William H. Prentice**, Director of Program Planning; Assistant Professor (1970).

† Volunteer.

† Part-time.

MEDICAL
SCHOOL
FACULTY

- †**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.**, Associate Professor of Medical Genetics (Dental School) (1968).
B.S. (1959), College of Idaho; D.D.S. (1964), Washington University; M.S. (1966), Indiana.
- Donald D. Preuss, M.D.**, Instructor in Anesthesiology (1971).
M.D. (1963), Iowa.
- †**William E. Purnell, M.D.**, Clinical Instructor in Radiology (Diagnosis) (1966).
M.D. (1948), Boston.
- †**Irving Puziss, M.D.**, Clinical Instructor in Surgery (1956).
B.S. (1946), M.D. (1948), Oregon.
- †**William J. Pyrch, M.D.**, Clinical Instructor in Family Practice (1967).
B.A. (1947), British Columbia; M.D. (1951), Oregon.
- Arlen Quan, M.D.**, Assistant Professor of Psychiatry (1964).
B.A. (1955), Reed; M.D. (1957), Oregon.
- †**Robert Quinton-Cox, Ph.D.**, Associate 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.
- †**John Raaf, M.D., Ph.D.**, Clinical Professor of Neurosurgery (1937).
B.A. (1926), M.D. (1930), Stanford; M.S. (1935), Ph.D. (1941), Minnesota.
- †**James Richard Raines, M.D.**, Associate Clinical Professor of Radiology (Diagnosis) (1947).
B.A. (1933), M.D. (1935), Oklahoma.
- Alfred J. Rampone, Ph.D.**, Professor of Physiology (1955).
B.A. (1947), M.A. (1950), British Columbia; Ph.D. (1954), Northwestern.
- †**Robert M. Rankin, M.D.**, Clinical Instructor in Orthopedics (1954).
B.A. (1944), Reed; M.D. (1946), Oregon.
- †**Richard R. Ranney, D.D.S.**, Assistant Professor of Dentistry (1970).
D.D.S. (1963), Iowa; M.S. (1969), Rochester.
- †**Robert E. Ransmeier, M.D., Ph.D.**, Assistant Clinical Professor of Psychiatry (1965).
B.S. (1946), M.Sc. (1949), Ph.D. (1953), Chicago; M.D. (1957), Colorado.
- Abdel L. Rashad, M.D., Ph.D.**, Associate 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.

† Volunteer.

‡ Part-time.

- †**Ralph B. Reaume**, M.D., Associate Clinical Professor of Medicine (1959).
M.D. (1953), Washington University.
- †**Edgar M. Rector**, M.D., 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.
- †**Charles E. Reed**, M.D., Clinical Instructor in Continuing Medical Education (1970).
M.D. (1961), Southern California.
- †**Daniel L. Reed**, M.D., Senior Clinical Instructor in Surgery (1964).
B.S. (1952), Michigan State; M.D. (1956), Michigan.
- †**Melvin M. Reeves**, M.D., Clinical Instructor in Surgery (1957).
B.S. (1943), Hamline; B.M. (1946), M.D. (1947), M.S. (1957), Minnesota.
- †**Jerome M. Reich**, M.D., Clinical Instructor in Medicine (1970).
A.B. (1958), New York University; M.D. (1962), S.U.N.Y. (Syracuse).
- †**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.
- †**Walter C. Reiner**, M.D., Senior Clinical Instructor in Surgery (1948).
B.S. (1930), Montana State University; M.D. (1934), College of Medical Evangelists (Loma Linda).
- Julian S. Reinschmidt**, M.D., Professor of Public Health and Preventive Medicine; Coordinator, Oregon Regional Medical Program (1970).
B.A. (1950), M.D. (1953), Vanderbilt.
- ‡**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.
- †**Dale C. Reynolds**, M.D., Clinical Instructor in Family Practice (1971).
B.S. (1948), Michigan; M.D. (1952), Nebraska.
- †**Norman H. Rickles**, D.D.S., Professor of Dentistry and Affiliate in Pathology (Dental School) (1957).
D.D.S. (1947), Washington University; M.S. (1951), California.
- †**Forrest E. Rieke**, M.D., Assistant Clinical Professor of Public Health and Preventive Medicine (1971).
B.A. (1937), Oregon State; M.D. (1939), Oregon.
- Demetrios A. Rigas**, Ph.D., Professor of Biochemistry and Medical Genetics (1953).
Ch.E. (1941), Ph.D. (1943), National University of Engineering Science, Athens.
- 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., Associate Clinical Professor of Medicine (1949).
B.A. (1941), Oregon State; M.D. (1943), Oregon.
- †**Robert E. Rinehart**, M.D., Assistant Clinical Professor of 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.

† Volunteer.

‡ Part-time.

MEDICAL
SCHOOL
FACULTY

- †**Leonard W. Ritzmann**, M.D., Professor of Medicine (Veterans Hospital) (1954).
B.A. (1942), Valparaiso; M.D. (1945), Washington University.
- †**G. Alvin Roberts**, M.D., Clinical Instructor in Family Practice (1971).
A.B. (1940), College of Idaho; M.D. (1945), St. Louis.
- †**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.
- †**Wayne E. Roberts**, M.D., Clinical Instructor in Family Practice (1971).
M.D. (1951), Washington University.
- †**Keith A. Robertson**, M.D., Senior Clinical Instructor in Surgery (1966).
B.S. (1956), M.D. (1960), Oregon.
- Ralph D. Robertson**, M.D., Associate Professor of Surgery (1964).
A.B. (1954), M.D. (1957), Harvard.
- †**William E. Robertson**, M.D., Clinical Instructor in Medicine (1969).
B.S. (1960), Gonzaga; M.D. (1964), St. Louis University.
- †**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.
- †**Richard C. Robinson**, M.D., Clinical Instructor in Family Practice (1971).
B.S. (1942), B.A. (1942), M.D. (1944), Chicago.
- †**Horace C. Robison**, M.D., Clinical Instructor in Ophthalmology (1970).
B.S. (1960), Washington Lee; M.D. (1964), Virginia.
- †**Michael J. Roddy**, M.D., Clinical Instructor in Radiology (Diagnosis) (1970).
M.D. (1957), Creighton.
- Nancy A. Rodich**, M.L.S., Catalog Librarian; Assistant Professor (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; Associate Professor (1961).
B.S. (1944), Connecticut.
- †**Richard C. Rogers**, M.D., Clinical Instructor in Cardiopulmonary Surgery (1970).
B.A. (1956), M.D. (1960), Harvard.
- †**Wayne R. Rogers**, M.D., Associate Clinical Professor of Medicine (1956).
M.D. (1947), Tennessee.
- †**Troy G. Rollins**, M.D., Associate Clinical Professor of Dermatology (1966).
B.S. (1945), M.S. (1946), M.D. (1948), Minnesota.
- †**Richard A. Romaine**, M.D., Clinical Instructor in Dermatology (1970).
B.S. (1957), M.D. (1960), Oregon.
- †**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.

- Josef Rösch, M.D.**, Professor of Radiology (Diagnosis) (1970).
M.U.Dr. (1950), Dr. M.Sei. (1965), Charles (Prague).
- †**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.
- †**William Ross, M.D.**, Clinical Instructor in Family Practice (1971).
B.S. (1951), Willamette; M.D. (1955), Oregon.
- John Gordon Roth, M.D.**, Associate Professor of Neurology (1958).
A.B. (1947), Wichita; M.D. (1950), Kansas.
- †**Willard D. Rowland, M.D.**, Assistant Clinical Professor of 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.**, Assistant Clinical Professor of 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.**, Assistant Clinical Professor of 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.**, Associate 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.
- R. Bradley Sack, M.D., Sc.D.**, Associate Professor of Medicine; Associate Professor of Microbiology; Head, Division of Infectious Diseases (1970).
B.S. (1956), Lewis and Clark; M.S., M.D. (1960), Oregon; Sc.D. (1968), Johns Hopkins.
- Marianne Sanders, M.D.**, Instructor in Family Practice (1970).
B.S. (1966), M.D. (1970), Oregon.

† Volunteer.

‡ Part-time.

MEDICAL
SCHOOL
FACULTY

- †**Ivan L. Sandoz, M.D.**, Assistant Clinical Professor of Urology (1964).
B.Sc. (1953), M.D. (1957), Ohio State.
- George Saslow, M.D., Ph.D.**, Professor of Psychiatry; Chairman of Department (1957).
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 Radiology (Diagnosis) (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.**, 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. (1952), M.A. (1943), South Dakota; M.D. (1945) Oregon.
- †**John F. Schilke, M.D.**, Clinical Instructor in Pediatrics (1970).
B.A. (1961), M.D. (1965), Yale.
- †**James R. Schimshock, M.D.**, Assistant Clinical Professor of Neurology (1968).
B.A. (1957), M.D. (1961), Minnesota.
- Alexander J. Schleuning, M.D.**, Associate 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.
- †**Charles L. Schroff, M.D.**, Clinical Instructor in Family Practice (1971).
A.B. (1954), M.D. (1957), Kansas.
- †**George J. Schunk, M.D.**, 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.**, Associate Professor of Psychiatry (1968).
B.A. (1946), Notre Dame; M.S. (1951), Ph.D. (1953), Portland.
- †**L. William Scott, M.D.**, Clinical Instructor in Continuing Medical Education (1971).
B.A. (1943), Oregon State; M.D. (1947), Oregon.
- Marcia C. Scott, M.D.**, Assistant Professor of Psychiatry (1971).
B.A. (1952), M.D. (1956), U.C.L.A.
- †**William C. Scott, M.D.**, Assistant Clinical Professor of Medicine (1946).
B.S. (1935), College of Idaho; B.M. (1939), M.D. (1940), Northwestern.
- 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 of 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.
- †**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.**, Assistant Clinical Professor of 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 Psychiatry and Pediatrics (1964).
A.B. (1954), Princeton; M.D. (1958), Washington University.
- †**Jon C. Sewell, M.D.**, Clinical Instructor in Radiology (Diagnosis) (1969).
M.D. (1963), Arkansas.
- Harry Shaich, M.S.**, Assistant Professor of Radiology (Therapy) (Radiation Physics) (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.
- †**John M. Shaw, M.D.**, Associate Clinical Professor of Dermatology (1959).
M.D. (1949), Michigan.
- Kirtikant V. Sheth, M.D.**, Assistant Professor of Clinical Pathology (1971).
M.B.B.S. (1964), Seth Medical College (India).
- †**Paul E. Shick, M.D.**, Associate Professor of Medicine (Veterans Hospital) (1969).
B.A. (1943), Texas Technological; M.D. (1946), Tulane.
- †**Ambrose B. Shields, M.D.**, Assistant Clinical Professor of Surgery (1966).
B.S. (1938), M.D. (1940), Kansas.
- †**Fred C. Shipp, M.D.**, Associate Clinical Professor of Radiology (Diagnosis) (1954).
A.B. (1942), Ohio Wesleyan; M.D. (1945), Western Reserve.
- †**Nathan Shlim, M.D.**, Senior Clinical Instructor in Surgery (1956).
B.A. (1937), Wisconsin; M.D. (1941), Rush (University of Chicago).
- †**James H. Shore, M.D.**, Clinical Instructor in Psychiatry (1970).
M.D. (1965), Duke.
- †**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.**, Assistant Clinical Professor of Pediatrics (1967).
M.B., B.Ch. (1960), Queen's (Belfast).

† Part-time.
‡ Volunteer.

- Gretchen N. Skalbeck**, Ph.D., Associate Professor of Speech Pathology and Audiology, Crippled Children's Division (1968).
B.S. (1952), Minnesota; M.A. (1955), Ph.D. (1963), University of Washington.
- †**John H. Skirving**, M.D., Clinical Instructor in Family Practice (1971).
B.S. (1940), Oregon; M.D. (1943), Creighton.
- Richard L. Sleeter**, M.D.; Assistant Dean; Director of Crippled Children's Division, Professor; Professor of Pediatrics (1953).
B.S. (1940), Oregon; M.D. (1943), Washington University.
- †**Donald B. Slocum**, M.D., Associate Clinical Professor of Orthopedics (1956).
B.S. (1932), Stanford; M.D. (1935), Oregon; M.S. (1939), Tennessee.
- †**Perry R. Sloop, Jr.**, M.D., Clinical Instructor in Medicine (1970).
B.S. (1959), M.D., M.S. (1962), Oregon.
- †**Richard D. Sloop**, M.D., Assistant Clinical Professor of 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. (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., Affiliate in Pathology (1960).
B.S. (1950), Oklahoma; M.D. (1954), Johns Hopkins.
- †**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.
- †**Roger G. Smith**, M.D., Clinical Instructor in Medicine (1969).
A.B. (1953), Brown; M.D. (1964), Tufts.
- Kenneth D. Smyth**, M.D., Associate Professor of Physical Medicine and Rehabilitation, Head of Division; Assistant Professor of Otolaryngology (1967).
B.A. (1947), College of Idaho; M.D. (1953), Oregon.
- †**Philip A. Snedecor**, M.D., Assistant Clinical Professor of Surgery (1958).
A.B. (1949), Stanford; M.D. (1953), Oregon.
- Vinton D. Sneed**, M.D., 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., Associate 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.
- Dick B. Speight**, A.B., of Admissions and Student Financial Aid Officer; Assistant Professor (1969).
A.B. (1956), Central Michigan.
- †**Trenton J. Spolar**, M.D., Clinical Instructor in Medicine (1970).
B.S. (1960), Notre Dame; M.D. (1966), Illinois.
- †**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.
- †**James F. Stager**, M.D., Clinical Instructor in Pediatrics (1969).
B.S. (1958), Toledo; M.D. (1952), Northwestern.
- †**Thad C. Stanford**, M.D., Clinical Instructor in Orthopedics (1965).
A.B. (1945), M.D. (1958), Michigan.
- †**Robert E. Stanton**, M.D., Assistant Clinical Professor of 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., Affiliate in 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., Assistant Clinical Professor of Surgery (1951).
B.A. (1930), M.D. (1934), D.M.D (1942), Oregon.
- †**John W. Stephens**, M.D., Associate Clinical Professor of Medicine (1953).
B.S. (1939), M.D. (1944), Alberta.
- ***Janice R. Stevens**, M.D., Professor of Neurology (1955).
B.A. (1944), Reed; M.D. (1949), Boston University.
- †**John L. Stevenson, Jr.**, M.D., Clinical Professor of Pediatrics (1957).
A.B. (1950), Stanford; M.D. (1954), Oregon.
- †**Loren W. Stille**, M.D., Assistant Professor of Radiology (Diagnosis) (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.

† Volunteer.

‡ Part-time.

* Leave of absence September 1, 1971 to August 31, 1972.

- †**Gordon A. Stoney**, M.D., Clinical Instructor in Radiology (Diagnosis) (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., Assistant Professor of 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.
- †**Kurt R. Straube**, M.D., Associate Clinical Professor of Radiology (Diagnosis) (1960).
M.D. (1952), Vienna.
- Agnar A. Straumfjord**, M.D., Associate Professor of Psychiatry; Director, 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.
- Ervin G. Stubbs**, M.D., Instructor, Crippled Children's Division; Instructor in Psychiatry (1971).
B.A. (1960), M.D. (1964), Iowa.
- †**Eugene S. Sullivan**, M.D., Senior 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.
- Gordon W. Summers**, D.M.D., M.D., Assistant Professor of Otolaryngology (1971).
B.S. (1959), D.M.D. (1961), M.D. (1965), Oregon.
- †**Vernon L. Summers**, M.D., Clinical Instructor in Family Practice (1970).
B.A. (1945), Willamette; M.D. (1948), Oregon.
- Cecile O. Sunderland**, M.D., Assistant Professor of Pediatrics (1970).
B.A. (1955), American International; M.D. (1962), S.U.N.Y. (Syracuse).
- Walter A. Sunderland**, M.D., Assistant Professor of Pediatrics (1970).
B.A. (1953), Champlain; M.D. (1957), S.U.N.Y. (Syracuse).
- †**Donald W. Sutherland**, M.D., Associate 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.

† Volunteer.

- †**William R. Sweetman**, M.D., Senior Clinical Instructor in Cardiopulmonary Surgery (1953).
B.A. (1940), M.D. (1943), Yale.
- †**William J. Swett**, M.D., Associate Clinical Professor of Medicine (1938).
B.A. (1928), Reed; M.D. (1932), Oregon.
- †**Mian M. Tahir**, M.B.B.S., Clinical Instructor in Neurosurgery (1971).
F.Sc. (1948), Punjab; M.B.B.S. (1955), Dow (Pakistan).
- †**Thomas E. Talbot**, M.D., Associate 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.
- †**Julian R. Taplin**, Ph.D., Assistant Clinical Professor of Psychiatry (Psychology) (1971).
B.S. (1958), Oregon State; M.A. (1965), Ph.D. (1967), Oregon.
- †**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., Associate 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., Associate 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., Associate Professor of Medical Psychology; Associate Professor, Crippled Children's Division (1965).
B.A. (1959), Taylor; M.A. (1961), Ph.D. (1965), Michigan State.
- †**Louis G. Terkla**, D.M.D., Professor of Dentistry, Head of Division (1967).
D.M.D. (1952), Oregon.
- †**Gerald A. Terman**, M.D., Senior Clinical Instructor in Ophthalmology (1963).
B.A. (1951), Chicago; M.D. (1957), Northwestern.
- †**Frank D. Thomas**, M.D., Clinical Instructor in Medicine (1969).
B.S. (1959), Utah; M.D. (1965), Missouri.
- †**John P. Thomas**, D.D.S., M.S., Assistant Professor of Dentistry (1969).
D.D.S. (1962), M.S. (1967), Iowa.
- Marian S. Thomas**, B.S., Instructor in Clinical Pathology (Medical Technology) (1969).
B.S. (1965), Southern Oregon.

MEDICAL
SCHOOL
FACULTY

- †**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.
- †**Charles C. Thompson**, D.M.D., Assistant Professor of Dentistry (1970).
B.A. (1957), St. Martin's; D.M.D. (1962), Oregon; M.S.D. (1968), Emory.
- †**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.
- †**Warren B. Thompson**, M.D., Clinical Instructor in Family Practice (1971).
B.A. (1943), M.D. (1945), Oregon.
- †**Robert E. Thornfeldt**, M.D., Associate 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., Clinical Instructor in Medicine (1969).
M.D. (1958), Zagreb (Yugoslavia).
- †**Frederick W. Tiley**, M.D., Clinical Instructor in Orthopedics (1971).
B.A. (1959), Princeton; M.D. (1963), Columbia.
- Wilbert R. Todd**, Ph.D., Professor of Biochemistry (1936).
B.S. (1928), Ph.D. (1933), Wisconsin.
- †**Shinobu Tomita**, M.D., Visiting Assistant Professor of Clinical Pathology (1970).
M.D. (1951), Kyoto.
- Andrea B. Cibis Tongue**, M.D., Senior Instructor in Ophthalmology (1970).
B.A. (1962), M.D. (1966), Washington University.
- †**George L. Toombs**, B.S., Clinical Instructor in Public Health and Preventive Medicine (1970).
B.S. (1952), Lewis and Clark.
- John S. Tovey**, M.S.W., Assistant Professor of Psychiatric Social Work (1964).
B.S. (1955), Portland; M.S.W. (1959), St. Louis.
- Joseph B. Trainer**, M.D., Associate Professor of Physiology and Professor of Medicine (1949).
B.S. (1939), M.S. (1941), University of Washington; M.D. (1946), Oregon.
- †**Paul Trautman**, M.D., Clinical Instructor in Pediatric Surgery (1965).
B.S. (1941), Yale; M.D. (1944), Tulane.
- ‡**Phillip R. Trautmann**, M.D., Clinical Instructor in Psychiatry (1971).
B.S. (1957), M.D. (1961), Wisconsin.
- †**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 Radiology (Diagnosis) (1966).
B.S. (1922), D.Sc. (Hon.) (1950), Franklin College.
- Emily Tufts**, M.D., Assistant Professor of Pediatrics (1965).
B.A. (1946), North Carolina; M.D. (1950), M.S. (1953), Temple.

† Volunteer.
‡ Part-time.

- †**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.A. (1939), Reed; M.S. (1943), Ph.D., M.D. (1944), Oregon.
- †**Donald A. Turcke**, M.D., Clinical Instructor in Radiology (Diagnosis) (1970).
B.A. (1958), Washington and Jefferson; M.D. (1962), Temple.
- †**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., Assistant Clinical Professor of Surgery (1955).
B.S. (1945), Portland; M.D. (1947), Northwestern.
- †**Franklin J. Underwood**, M.D., Clinical Professor of Medicine (1937).
M.D. (1933), Harvard.
- †**Marvin J. Urman**, M.D., Clinical Instructor in Family Practice (1971).
B.S. (1947), University of Portland; M.D. (1951), Oregon.
- †**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., Clinical Professor of Pediatrics (1958).
M.D. (1948), St. Louis.
- †**David G. Van Sickle**, M.D., Clinical Instructor in Medicine (1971).
A.B. (1957), Colgate; M.D. (1966), George Washington.
- †**Thomas A. Van Veen**, M.D., Clinical Instructor in Family Practice (1971).
B.S. (1961), University of Portland; M.D. (1963), Oregon.
- †**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 Radiology (Therapy) (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. Vervloet**, M.D., Clinical 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.

† Volunteer.

* Leave of absence.

‡ Part-time.

FACULTY
SCHOOL
FACULTY

- †**Daniel Voiss**, M.D., Clinical Instructor in Psychiatry (1965).
B.S. (1955), M.S., M.D. (1957), Oregon.
- †**John V. Vore**, M.D., Clinical Instructor in Family Practice (1971).
M.D. (1959), Indiana.
- †**James B. Wade**, M.D., Clinical Instructor in Family Practice (1971).
B.A. (1953), Reed; M.D. (1957), University of Washington.
- †**Carl Wagner**, D.M.D., Clinical Instructor in Anesthesiology (1971).
D.M.D. (1929), 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., 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 Radiology (Diagnosis) (1964).
B.A. (1948), Falschule (Berlin); M.D. (1956), Freie Universität (Berlin).
- †**Gerald L. Warnock**, M.D., Associate Clinical Professor of Radiology (Diagnosis) (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., Associate 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.
- †**Clifford S. Weare**, M.D., Clinical Instructor in Family Practice (1971).
B.S. (1941), M.D. (1943), Nebraska.
- †**John H. Weare**, M.D., Clinical Instructor in Family Practice (1971).
B.S. (1941), M.D. (1943), Nebraska.
- †**Jerome C. Weeber**, M.D., Clinical Instructor in Urology (1966).
B.A. (1955), M.D. (1958), Iowa.
- †**Linton G. Weed**, M.D., Clinical Instructor in Surgery (1965).
B.S. (1951), M.D. (1954), Wisconsin.
- †**Gaylord C. Weeks**, M.D., Clinical Instructor in Family Practice (1971).
B.A. (1954), Willamette; M.D. (1959), Oregon.
- Virginia L. Weimar**, Ph.D., Associate Professor of Ophthalmology and Affiliate in Pathology (1962).
B.S. (1944), M.S. (1947), Oregon State; Ph.D. (1951), Pennsylvania.

† Volunteer.

‡ Part-time.

- †**Darrell T. Weinman**, M.D., Clinical Instructor, Crippled Children's Division (1969).
B.A. (1957), B.S., M.D. (1960), Minnesota; M.S. (1965), Mayo.
- †**Marvin J. Weinstein**, M.D., Clinical Instructor in Medicine (1970).
B.A. (1951), Reed; M.D. (1955), Oregon.
- 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.
- †**Warren S. Welborn**, M.D., J.D., Associate Clinical Professor of Public Health and Preventive Medicine (1970).
B.A. (1949), M.D. (1953), Oregon; J.D. (1968), Northwestern School of Law.
- 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 W. Wescott**, D.M.D., Affiliate in Pathology (Dentistry, Dental School) (1966).
D.M.D. (1951), M.S. (1962), Oregon.
- †**Glenn Weyhrich**, M.D., Clinical Instructor in Obstetrics and Gynecology (1970).
M.D. (1965), Chicago.
- †**W. Mark Wheeler, III**, M.D., Clinical Instructor in Medicine (1971).
A.B. (1960), Princeton; M.D. (1964), Washington University.
- †**Frank G. White**, M.D., Clinical Instructor in Family Practice (1971).
B.A. (1947), Omaha; M.D. (1951), Nebraska.
- †**James P. Whittemore**, M.D., Assistant Clinical Professor of Pediatrics (1948).
A.B. (1942), Holy Cross; M.D. (1945), Harvard.
- †**Alton R. Wiebe**, M.D., Clinical Instructor in Family Practice (1971).
B.S. (1955), M.D. (1957), Oregon.
- 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 Radiology (Diagnosis) (1965).
B.S. (1955), M.D. (1957), Oregon.
- †**David C. Wiley**, M.D., Clinical Instructor in Medicine (1971).
B.S. (1947), Pacific; M.D. (1951), Oregon.
- James A. Wilkinson**, B.S., Instructor in Clinical Pathology (Medical Technology) (1966).
B.S. (1963), Oregon.
- †**Allison B. Willeford**, M.D., Clinical Instructor in Family Practice (1971).
B.S. (1947), North Texas; M.D. (1951), Baylor.
- Christopher P. S. Williams**, M.D., Associate Professor, Crippled Children's Division; Associate Professor of Pediatrics (1968).
B.A. (1953), M.D. (1958), Oregon.
- †**Earl R. Williams**, M.D., Clinical Instructor in Obstetrics and Gynecology (1970).
M.D. (1963), Wayne State University.
- †**Martha Williams**, M.D., Instructor in Pediatrics (1970).
A.B. (1959), Smith; M.D. (1963), Columbia.

† Volunteer.

‡ Part-time.

MEDICAL
SCHOOL
FACULTY

- †**Oscar K. Williams**, M.D., Clinical Instructor in Radiology (Diagnosis) (1968).
B.S. (1939), Oregon; M.D. (1946), St. Louis.
- †**Charles P. Wilson**, M.D., Associate Clinical Professor of Medicine (1929).
A.B. (1920), Reed; M.D. (1924), Johns Hopkins.
- †**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.
- Donald J. Winans**, M.A., Assistant Professor of Psychiatry (1971).
B.S. (1960), Wisconsin State; M.A. (1962), Indiana.
- †**Homer Winslow**, M.D., Clinical Instructor in Continuing Medical Education (1970).
B.S. (1957), M.D. (1960), Oregon.
- †**David S. Wisdom**, M.D., Clinical Instructor in Orthopedic Surgery (1971).
B.S. (1961), Tulane; M.D. (1965), Louisiana State.
- †**Robert A. Wise**, M.D., Clinical Professor of Surgery (1947).
B.A. (1922), M.D. (1925), Columbia.
- David L. Wishart**, M.D., Assistant Clinical Professor of Radiology (Diagnosis) (1970).
B.A. (1958), Harvard; M.D. (1961), Oregon.
- †**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.
- †**John Lee Wobig**, M.D., Clinical Instructor in Ophthalmology (1970).
B.S. (1961), Lewis and Clark; M.D. (1964), Oregon.
- †**Gordon F. Wolfe**, M.D., Clinical Instructor in Medicine (1959).
B.S. (1942), M.D. (1954), Illinois.
- †**Peter T. Wolfe**, M.D., Clinical Instructor in Family Practice (1971).
B.S. (1946), Oregon State; M.D. (1951), Oregon.
- Lawrence J. Wolff**, M.D., Instructor in Pediatrics (1971).
B.A. (1960), Northwestern; M.D. (1964), Missouri.
- Don C. Wood**, Ph.D., Assistant Professor for Research (Surgery) (1970).
B.S. (1947), M.S. (1948), Brigham Young; Ph.D. (1952), Cornell.
- †**James A. Wood**, M.D., Associate 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.
- †**James V. Woodworth**, M.D., Clinical Instructor in Medicine; Associate Professor of Dentistry (1952).
A.B. (1944), Whitman; M.D. (1946), Oregon.
- †**LeGrande H. Woolley**, D.D.S., Associate Professor of 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.

† Volunteer.

‡ Part-time.

FACULTY

- †**Richard C. Wright**, M.D., Clinical Instructor in Dermatology (1969).
B.S. (1958), M.D. (1963), Oregon.
- †**Wellesley H. Wright**, D.D.S., M.S.D., Associate Professor of Dentistry (1969).
B.A. (1962), D.D.S. (1959), University of Washington; M.S.D. (1963), Baylor.
- †**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.
- †**Ernest A. Yeck**, M.D., Clinical Instructor in Continuing Medical Education (1970).
B.S. (1947), M.D. (1951), Nebraska.
- 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.
- Arthur F. Zbinden**, M.D., Instructor in Medicine (1971).
B.S. (1963), Portland State; M.D. (1967), Oregon.
- ‡**Robert W. Zeller**, M.D., Associate Clinical Professor of Ophthalmology (1951).
M.D. (1944), Loyola.
- †**Werner E. Zeller**, M.D., Associate 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., Senior 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.

* Leave of absence.

‡ Part-time.

*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.
Norman Bergman, M.D., Chief of Anesthesiology Service.
J. David Bristow, M.D., Chief of Medical Service, Medical School Hospital.
John R. Campbell, M.D., Chief of Pediatric Surgery Service.
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 Radiological Diagnosis Service.
Miles J. Edwards, M.D., Chief of Chest Diseases Service.
Monte A. Greer, M.D., Chief of Endocrinology Service.
Herbert E. Griswold, M.D., Chief of Cardiology Service.
Clarence V. Hodges, M.D., Chief of Urological Service.
Curtis R. Holzgang, M.D., Director of Education, Medical Outpatient Services.
Tyra T. Hutchens, M.D., Chief of Clinical Pathological Service.
Donald Kassebaum, M.D., Chief of Medical Service, Multnomah Hospital.
William W. Krippaehne, M.D., Chief of Surgical Service.
John W. Kendall, Jr., M.D., Chief of Metabolic Diseases Service.
Walter C. Lobitz, Jr., M.D., Chief of Dermatological Service.
Victor C. Marquardt, Jr., M.D., Assistant Director of Clinical Laboratory Service.
Joseph D. Matarazzo, Ph.D., Chief of Medical Psychological Service.
Ralph G. Merrill, M.Sc. D., Chief of Dental 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 and Allergy Service.
Edward E. Rosenbaum, M.D., Acting Chief of Rheumatology Service.
R. Bradley Sack, M.D., Chief of Infectious Diseases Service.
George Saslow, M.D., Chief of Psychiatric Service.
Arthur J. Seaman, M.D., Chief of Hematology Service.
Kenneth D. Smyth, M.D., Chief of Physical Medicine Service.
William E. Snell, M.D., Chief of Orthopedic 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 Correspondence Supervisor.
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.
John J. Hutchins, M.H.A., Assistant to the Administrator.
B. Lee Killam, M.S., R.N., Director of Nursing Service.
Marian Allen, R.N., Assistant Night Coordinator.

Esther Appleman, R.N., Nursing Coordinator, Adult Area.
Evelyn Barton, R.N., Night Coordinator.
Norma Kraftherfer, R.N., Assistant Night Coordinator.
Marian Page, R.N., Coordinator, Adult Area.
Sarah Peterson, R.N., Psychiatric Coordinator.
Viola Robinson, B.S., R.N., Coordinator, Pediatric Area.
Sylvia Sather, B.S., R.N., Assistant Director of Nursing Service.
Janet Teaff, R.N., Assistant Evening Coordinator.
Barbara Joan Weaver, R.N., Evening Coordinator.
Betty Weible, B.S., R.N., Nursing Personnel Coordinator.
Emily Malaimare, Recreation Therapist.
Regina Mockmore, B.S., R.N., Admitting Supervisor.
Jean Rosendahl, R.N., Inhalation Therapy Supervisor.
Glen F. Criteser, Laundry Manager.
Maxine Freeman, Executive Housekeeper.
John Hughes, Food Service Manager.
Dean Mayfield, Storekeeper.
Marvin Stephens, Patients' Business Manager.
Tecla Thiman, Director, Physical Therapy.
Janet Vroman, Director, Occupational Therapy.

General Outpatient Service

Max F. Kersbergen, 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.
Patsy Marble, Supervisor, Medical Correspondence.

Multnomah Hospital

Jarvis Gould, M.D., Administrator and Associate Medical Director.
Max Kersbergen, M.A., Assistant Administrator.
Gale Rankin, B.S., R.N., Director of Nursing Service.
Ardys Hokeness, B.S., R.N., Assistant Director, Nursing Service.
June Lerma, M.S., R.N., Assistant Director, Nursing Service.
Barbara Browne, M.N., R.N., Supervisor.
Dorothy Vossen, B.S., R.N., Supervisor.
Thelma Waddill, R.N., Surgical Supervisor.
Jane Duncan, B.S., R.N., Supervisor.
Ruby Kelly, R.N., Supervisor.
Rosemary Kennedy, R.N., Supervisor.
Elnor Uphoff, B.S., R.N., Supervisor.
John R. Halley, Director, Engineering Department.
Frances E. Morse, Office Manager.
Ramona McAfee Bennett, B.S., R.N., Housekeeper and Laundry Manager.
Ruth Mercer, M.A., Dietitian, Assistant Professor of 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.
Theofilus de Bruin, M.D., Physician.
Clifford A. Fratzke, M.D., Physician.
Helen Krieg, B.S., R.N., Director of Nursing Service.
Nina Ellenburg, R.N., Assistant Director of Nursing Service.
Mary Howard, R.N., Evening Supervisor.
Eunice Bynon, R.N., Night Supervisor.

MEDICAL
SCHOOL
FACULTY

Leona Vanderhoof, R.N., Supervisor.
Katherine Howard, B.S., R.N., Inservice Education Director.
Ruth Harris, B.S., Dietitian.
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 ; Professor of Pediatrics.
L. Paul Rasmussen, M.D., Professor ; Professor of Pediatrics.
Robert Boyd, Ph.D., Professor ; Professor of Medical Psychology.
Leroy O. Carlson, M.D., Professor ; Associate Professor of Pediatrics.
Ann M. Garner, Ph.D., Professor ; Professor of Medical Psychology.
Herold S. Lillywhite, Ph.D., Professor of Speech Pathology.
William E. Snell, M.D., Professor and Head of Division of Orthopedics.
Rodney K. Beals, M.D., Associate Professor of Orthopedics.
Robert W. Blakeley, Ph.D., Associate Professor of Speech Pathology.
C. Conrad Carter, M.D., Associate Professor of Neurology.
Ralph O. Coleman, Jr., Ph.D., Associate Professor of Speech Pathology.
Peggy Cople Ferry, M.D., Associate Professor ; Associate Professor of Pediatrics and Neurology.
John S. Gullikson, D.D.S., Associate Professor ; Associate Professor of Dentistry.
Constance Hanf, Ph.D., Associate Professor ; Associate Professor of Medical Psychology.
***Frederick Hecht**, M.D., Associate Professor ; Associate Professor of Medicine.
James E. Lindemann, Ph.D., Associate Professor ; Associate Professor of Medical Psychology.
Elaine W. Lis, Ph.D., Associate Professor, Nutrition.
Everett W. Lovrien, M.D., Associate Professor ; Associate Professor of Pediatrics.
David W. Macfarlane, M.D., Associate Professor ; Associate Professor of Pediatrics.
Gretchen N. Skalbeck, Ph.D., Associate Professor of Speech Pathology and Audiology.
Gerald Smith, Ed.D., Associate Professor.
Kenneth Smyth, M.D., Associate Professor of Orthopedics in Physical Medicine and Rehabilitation, Head of Division ; Assistant Professor of Otolaryngology.
Leif G. Terdal, Ph.D., Associate Professor ; Associate Professor of Medical Psychology.
Christopher P. S. Williams, M.D., Associate Professor ; Associate Professor of Pediatrics.
Norton B. Young, Ph.D., Associate Professor of Speech Pathology and Audiology ; Associate Professor of Pediatrics.
L. Gerald Buchan, Ed.D., Assistant Professor.
Lillian T. Cunningham, M.P.H., Assistant Professor, Nutrition.
Jerry O. Elder, M.A., Assistant Professor, Business Manager.
William D. Guyer, M.D., Assistant Professor ; Assistant Professor of Orthopedics.
Jack R. Hegrenes, M.S., M.A., Assistant Professor.
Russell H. Jackson, Ph.D., Assistant Professor ; Assistant Professor of Medical Psychology.
Doris Julian, M.N., Assistant Professor ; Assistant Professor of Nursing Education.
Harold M. Louis, D.D.S., Assistant Professor.
Jean Macfarlane, M.D., Assistant Professor.
R. Ellen Magenis, M.D., Assistant Professor.
Nancy R. Marshall, Ph.D., Assistant Professor of Speech Pathology.
C. Donald Nelson, Ph.D., Assistant Professor of Speech Pathology.
Curtis E. Weiss, Ph.D., Assistant Professor of Speech Pathology.

Laurence R. Langston, M.D., Senior Clinical Instructor in Orthopedics.
William G. Albrecht, D.D.S., Instructor.
Lillian Cunningham, M.P.H., Instructor.
Ruby Fields, M.S., R.P.T., Instructor.
John Hale, M.S.W., M.P.H., Instructor.
Catherine A. Loessel, M.P.H., Instructor.
James E. Merritt, M.S.W., Instructor.
Ervin G. Stubbs, M.D., Instructor ; Instructor in Psychiatry.
Dorothy M. Prinzing, M.S., R.N., R.P.T., Nursing Consultant.
Ruth W. Spoerli, M.S.S., A.C.S.W., Medical Social Consultant.
Merry Meek, Research Assistant.

Cerebral Palsy Project (Collaborating Faculty Members)

S. Gorham Babson, M.D., Professor of Pediatrics.
Ralph C. Benson, M.D., Professor of Obstetrics and Gynecology, Chairman of Department.
William M. Clark, Jr., M.D., Professor of Pediatrics.
Rudolf C. H. Engel, M.D., Professor of Pediatrics.
Richard W. Olmsted, M.D., Professor of Pediatrics, Chairman of Department.
Richard L. Sleeter, M.D., Professor of Pediatrics, Director of Crippled Children's Division.
Norman B. Henderson, Ph.D., Associate Professor of Medical Psychology.
Warren H. Fay, Ph.D., Associate Professor of Speech Pathology, Pediatrics.
Emily Tufts, M.D., Assistant Professor of Pediatrics.
Richard L. Lessel, M.P.H., Senior Instructor in Public Health and Preventive Medicine.
Merry Meek, Research Assistant.

Oregon Regional Primate Research Center

William Montagna, Ph.D., Director ; Chairman of Cutaneous Biology.
Charles H. Phoenix, Ph.D., Assistant Director ; Chairman of Reproductive Physiology and Behavior.
Arthur O. Toyooka, B.A., Associate Director for Business Affairs.
Edward S. West, Ph.D., Assistant to the Director.
Wolf H. Fahrenbach, Ph.D., Chairman of Electron Microscopy.
Theodore I. Grand, Ph.D., Chairman of Anthropology.
George W. Kittinger, Ph.D., Chairman of Biochemistry.
Manuel Rene Malinow, M.D., Chairman of Cardiovascular Physiology.
Arthur Malley, Ph.D., Chairman of Immunology.
Wilbur P. McNulty, Jr., M.D., Chairman of Pathology.
Miles J. Novy, M.D., Chairman of Perinatal Physiology.
Oscar W. Portman, M.D., Chairman of Primate Nutrition.

Veterans Administration Hospital

James R. Harrison, Director.
Kenneth R. Morris, Assistant Director.
Paul E. Shick, M.D., Chief of Staff.
John D. Boyett, M.D., Chief of Nuclear Medicine.
James L. Bramhall, M.B., Ch.B., Chief of Clinical Pathology.
Everill W. Fowlks, M.D., Chief of Physical Medicine and Rehabilitation.
Vincent Glaudin, Ph.D., Chief of Psychology.
Robert S. Marshall, Ph.D., Chief of Speech Pathology and Audiology.
Herbert E. Mason, M.D., Chief of Outpatient Admitting.
Ruby M. Nagler, R.N., Chief of Nursing Service.
James R. Orendurff, M.D., Chief of Anatomic Pathology.
Robert S. Parker, D.M.D., Chief of Dental Service.
Loren W. Stille, M.D., Chief of Radiology.
R. Mark Vetto, M.D., Chief of Surgical Service.
John R. Walsh, M.D., Chief of Medical Service.

7

ENROLLMENT AND DEGREES



Degrees Conferred June 11, 1971

Doctor of Medicine

GRADUATE	INTERNSHIP
Carl E. Albertson.....	Madigan General Hospital, Tacoma, Washington
Daniel F. Amato.....	University of Oregon Medical School Hospitals and Clinics, Portland, Oregon
David D. Anderson.....	University of Oregon Medical School Hospitals and Clinics, Portland, Oregon
Gill E. Anderson.....	University of Oregon Medical School Hospitals and Clinics, Portland, Oregon
David A. Andrews.....	Mary Imogene Bassett Hospital, Cooperstown, New York
John G. Aronen.....	Naval Hospital, Camp Pendleton, California
M. Steven Barber.....	Naval Hospital, San Diego, California
Robert D. Basta.....	Highland General Hospital, Oakland, California
Roy E. Benward.....	Brooke General Hospital, San Antonio, Texas
Robert P. Bevan.....	Good Samaritan Hospital, Phoenix, Arizona
Jonathan E. Bishop.....	San Bernardino County General Hospital, San Bernardino, California
Kenton C. Bodily.....	St. Paul-Ramsey Hospital, St. Paul, Minnesota
Randall W. Boyer.....	Presbyterian Hospital, Denver, Colorado
Stephen L. Brenneke.....	Marquette Affiliated Hospitals, Milwaukee, Wisconsin
Edwin C. Cadman.....	Stanford University Affiliated Hospitals, Stanford, California
Gary B. Calandra.....	
Michael S. Carlson.....	General Hospital, Ventura County, Ventura, California
A. Bruce Cattle, Jr.....	Santa Barbara Cottage-General Hospital, Santa Barbara, California
William F. Chapman.....	Santa Clara Valley Medical Center, San Jose, California
Jerry A. Chase.....	Fitzsimmons General Hospital, Denver, Colorado
William B. Clark.....	Albany Medical Center Hospital Albany, New York
Ann T. Corcoran.....	Los Angeles County-USC Medical Center, Los Angeles, California
Gregory E. Craner.....	Beaumont General Hospital, El Paso, Texas
Larry D. Crook.....	St. Vincent's Hospital, New York, New York
John M. Custis.....	Baylor University Medical Center, Dallas, Texas
George G. Degner.....	Hartford Hospital, Hartford, Connecticut
Ronald V. DeMars.....	Ben Taub General Hospital, Houston, Texas
Carrie C. Dully.....	Los Angeles County, Harbor General Hospital, Torrance, California
Thomas S. Duncan.....	Public Health Service, San Francisco, California
John T. Ebert.....	Providence Hospital, Portland, Oregon
Kermit C. Edwards.....	Seton Psychiatric Institute, Baltimore, Maryland
Stephen A. Eraker.....	Emanuel Hospital, Portland, Oregon
Lyle J. Fagnan.....	Hartford Hospital, Hartford, Connecticut
Gerald W. Fischer.....	Madigan General Hospital, Tacoma, Washington
H. Storm Floten.....	Bellevue Hospital, New York University, New York, New York
Sheryl P. Gardner.....	Los Angeles County, Harbor General Hospital, Torrance, California

John E. Gordon.....	Lankenau Hospital, Philadelphia, Pennsylvania
Larry B. Gridley.....	San Bernardino County General Hospital, San Bernardino, California
Kay A. Haglund.....	Emanuel Hospital, Portland, Oregon
James D. Harper.....	St. Joseph Hospital, Denver, Colorado
Larry D. Helvey.....	University of Colorado Affiliated Hospitals, Denver, Colorado
Howard S. Henjyoji.....	Long Beach Memorial Hospital, Long Beach, California
A. Kay Huffaker.....	Tripler General Hospital, Honolulu, Hawaii
Gary L. Ingram.....	St. Joseph's Hospital, Phoenix, Arizona
Wallace K. Kurihara.....	Madigan General Hospital, Tacoma, Washington
Richard M. Laubaugh.....	Blodgett Memorial Hospital, Grand Rapids, Michigan
Stephen E. Lazarus.....	San Bernardino County General Hospital, San Bernardino, California
Frank K. Lord.....	Mercy Hospital, San Diego, California
Bruce P. Machaffie.....	Valley Medical Center, Fresno, California
Dennis O. Mayer.....	Marquette Affiliated Hospitals, Milwaukee, Wisconsin
John Meyer.....	Naval Hospital, Chelsea, Massachusetts
Thomas S. Miller.....	Marquette Affiliated Hospitals, Milwaukee, Wisconsin
Rodney L. Mirich.....	San Bernardino County General Hospital, San Bernardino, California
Thomas F. Neal.....	Madigan General Hospital, Tacoma, Washington
Robert L. Nelson.....	Bronx Municipal Hospital Center, New York, New York
G. Michael Nichols.....	Sacramento Medical Center, Sacramento, California
Michael C. Norman.....	Los Angeles County-USC Medical Center, Los Angeles, California
Lane O. Oslund.....	San Bernardino County General Hospital, San Bernardino, California
Paul Pennington.....	Hennepin County General Hospital, Minneapolis, Minnesota
Peter A. Peruzzo.....	San Bernardino County General Hospital, San Bernardino, California
William T. Rasor.....	Hartford Hospital, Hartford, Connecticut
Diane C. Williams Renholds.....	Highland General Hospital, Oakland, California
Douglas F. Renholds.....	Letterman General Hospital, San Francisco, California
Douglas N. Runckel.....	Walter Reed General Hospital, Washington, D.C.
Gary K. Schreiner.....	Good Samaritan Hospital, Phoenix, Arizona
John L. Sheridan.....	Tripler General Hospital, Honolulu, Hawaii
John R. Sinnhuber.....	Valley Medical Center, Fresno, California
Peter B. Slabaugh.....	Highland General Hospital, Oakland, California
Mason A. Smith.....	Naval Hospital, Bethesda, Maryland
Selwyn M. Spray.....	St. Joseph's Hospital, Denver, Colorado
James B. Steward.....	Santa Clara Valley Medical Center, San Jose, California
John R. Stoianoff.....	Naval Hospital, Portsmouth, Virginia
Alan J. Stransky.....	Walter Reed General Hospital, Washington, D.C.
James M. Sulkosky.....	Tripler General Hospital, Honolulu, Hawaii
Stephen J. Thomas, Jr.....	San Francisco General Hospital, San Francisco, California
Michael J. Thompson.....	Deaconess Hospital, Spokane, Washington
Terry B. Tri.....	Letterman General Hospital, San Francisco, California
Donald E. Walker.....	University of Oregon Medical School Hospitals and Clinics, Portland, Oregon
Paul D. Wardlaw.....	Kansas City General Hospital, Kansas City, Missouri
Thomas A. Warlick.....	San Bernardino County General Hospital, San Bernardino, California
Keith R. Weeks.....	Presbyterian-University of Pennsylvania Medical Center, Philadelphia, Pennsylvania
Roy M. White, Jr.....	Tripler General Hospital, Honolulu, Hawaii

ENROLLMENT AND DEGREES

Michael D. Wicks San Bernardino County General Hospital,
San Bernardino, California
Howard L. Worcester Los Angeles County, Harbor General Hospital,
Torrance, California
Richard C. Wutrich McKay-Dee Hospital, Ogden, Utah

Doctor of Philosophy

Donald Elliott Brooks	Hubert Arnold Leonard	James Andrew Thliveris
Wesley Wayne Bullock	Lynne C. Manaugh	Richard A. Walloch
Kurien Chacko	Thomas Scott Manaugh	William Judson Weaver
Henry Michael Danciger	Peter C. Sakellaris	Billie J. Wilson
Daniel Morgan Ford	Karmen LaVer Bingham Schmidt	

Master of Science

Donald Franklin Austin	Daila S. Gridley	Robert Leon Nelson
Nancy Buren Gerhardt	Brenda Lee Lonsbury	Charles Alan Paris
Martha L. Gorman	Curtin Mitchell	Cody Keith Wasner

Enrollment 1970-1971

Medical Students

First Year Class

Jimmie L. Ashcraft	Pamela A. Fuqua	Randall G. Lorenz
William R. Berryman	Gary L. Gambill	Gregory B. Lorts
Carl G. Bontrager	Gregory L. Gent	James E. Maras
John R. Braddock	Catherine M. Gorchels	J. Michael Matthews
James S. Brown	E. Reed Gurney	Shirley S. Mayer
John D. Caffaratti	Lee D. Hall	John P. McGahan
Daniel F. Cammack	Steven F. Hamman	Michael P. Metke
Ralph A. Carter	John T. Hanlon	Joseph P. Meurer, Jr.
Cathleen L. Caton	Vern W. Harpole	John S. Miller
Truman G. Cleaver	Sidney B. Harr	Dennis G. Minister
Michael J. Coughlin	Larry A. Heinonen	Larry J. Nagel
Paul N. Creighton	Cline G. Hickok	Cheryl R. Neal
Mark F. Deatherage	Bruce Y. Ito	Raymond C. Norgaard
Karen J. Drlica	Kirk D. Jacobson	Kenneth L. Orwick
George M. Edwards	Kraig W. Jacobson	Larry A. Park
Christen E. Eidal	John C. Knudson	James F. Parosa
David H. Elliott	James R. Kopp	Madison W. Patrick
Thomas R. Evans	Alex Kutas	David W. Perlman
Cary E. Feibleman	John A. Lasater	Donald A. Peterson
Darrell L. Fort	Gordon E. Lee	Kent H. Pressman
William L. Frenzel	Robert D. Lindgren	Robert R. Rankin
Linda D. Frison	John R. Lobitz	Robin I. Reece
Charles J. Fritz, Jr.	Gary D. Lord	J. Warren Reid, Jr.

Dwayne L. Rice
 Dean P. Rinard
 Rex D. Rolfe
 Craig T. Romney
 Terry A. Rustin
 Gary B. Sahlstrom
 Edward J. Sale
 S. Michael Sasser
 Donald J. Schiller
 Steven J. Schilperoord

James R. Schmidgall
 Craig J. Schmidt
 Charles P. Schneider
 David C. Seeley
 Miles K. Seeley
 John C. Shaw
 P. Thomas Slominski
 Stuart B. Smith
 Stephen R. Stewart
 James M. Sutton

Richard M. Viken
 William L. Warner
 Cody K. Wasner
 David W. Watson
 Bonnie H. Weiner
 Andrew P. Weir
 Robert A. Yood
 J. Lawrence Zagata

Second Year Class

Paul A. Allen
 Kenneth R. Ampel
 Douglas B. Anderson
 Robert R. Anderson
 George T. Barker
 Stacy C. Berube
 Susan G. Birkemeier
 Gerald F. Bishop
 William G. Bissell
 Donald L. Blanchard
 David E. Blumfield
 Michel A. Boileau
 Calvin D. Brennehan
 Doyle H. Brown
 Wayne N. Burton
 Perry E. Camp
 Robert E. Cedergreen
 David H. Cutsforth
 Frederick M. David
 Michael J. Donley
 Jon L. Dresser
 Robert E. Fleer
 Phillip R. Gilbertson
 Timothy C. Gleeson
 Thomas G. Gospodnetich
 Ronald D. Grewenow
 David R. Grube
 Howard F. Harrison
 H. Thomas Harvey, Jr.

Richard S. Hawkins
 Bernard W. Hill
 Thomas H. Hodge
 John W. Jendrzewski
 Peter S. Kapernick
 Robin Q. Kenny
 Victor J. Kiesling, Jr.
 John A. Kitzhaber
 Alan W. Larson
 Donald D. Lasselle
 Hubert A. Leonard
 John V. Ligon
 Sam Lin
 Arthur H. Livermore
 John B. Lyman
 Dennis A. Mackey
 Michael J. Markham
 H. Stuart Markwell
 Joel M. Matta
 Jean E. McCusker
 Nicholas K. Mecklem
 John P. Merrick
 Frank H. Moore
 Laurie J. Moore
 Glenn W. Morgan
 Ray M. Nicola
 Paul G. Norris
 Ronald I. Oldroyd
 Michael S. Olsen

Barry D. Olson
 Eric G. Olson
 Dennis M. Pavlinac
 Donald R. Peters
 Ernest C. Peterson
 Benjamin Podemski
 David W. Porter
 Joseph H. Rapp
 Edward W. Robert
 Thomas J. Rosenbaum
 Marilyn L. Rudin
 M. Craig Sandberg
 Ronald J. Sharp
 Guy D. Silva
 Stephen M. Skolnick
 Stephen J. Snyder
 Danny C. Sparks
 Key H. Stage
 Kenneth M. Sunamoto
 Daniel W. Thompson
 Paul B. Thompson
 Blaine E. Tolby
 Barry M. Trowbridge
 James R. Tysell
 Fred L. Underwood
 Grant C. Van Houten
 Mary E. Weare
 James L. Wilson

Third Year Class

Mark B. Adams
 Nancy D. Adams
 James S. Allen
 Richard L. Alley
 Steven G. Atcheson
 Rodney D. Bell
 Marvin L. Benson
 Bruce H. Blank
 R. Steven Brisbois
 Thomas L. Bristol

John H. Brookhart
 Ralph L. Burk, Jr.
 George T. Cameron
 Lawrence V. Cheldelin
 Glen J. Church
 Edward F. Clarke
 John M. Cornwell
 Steven J. Cox
 Leslie T. Dillow
 Gerald D. Ebner

Terry H. Edwards
 Gary S. Ellibe
 Mary Glenn Fowler
 Keith H. Griffin
 John E. Hamm
 Keith W. Harless
 Kenneth C. Haycraft
 Michael D. Herring
 Ronald L. Hofeldt
 John T. Hoggard, III

ENROLLMENT AND DEGREES

Donald C. Houghton
Robert K. Huston
Karen K. Ireland
Ann Jensen
David C. Jonasson
Robert W. Jordan
Richard S. Joslin
Michael J. Kaempf
John P. Kearney
Kip L. Kemple
C. Francis Kenyon
John L. Kimbrough
Richard P. Knudson
Bryan H. Laycoe
James A. Lea
Douglas W. Lieuallen
Robert W. Lipke
Daniel K. Lowe
Judd K. Lunn
William G. Marsh
Michael T. McCleskey
Frank W. McCullar
Ronald K. McGee

Thomas D. McKim
Michael E. Merrick
Michael J. Metcalf
Philip D. Miller
Robert G. Moore
D. Curtis Mumford, Jr.
Michael A. Mundell
Martin W. Muth
Robert L. Myers
Stanley K. Neal
Harry C. Newman
E. Mark Nichols
Robert A. Nimmo
David L. Noall
Dana L. Nofziger
Ralph C. Oler
Mark W. Olson
Jeremy K. Ota
James H. Petersen
Wendell E. Petty
Richard B. Phipps
Donald A. W. Piper
Robert R. Poole

Jock T. Pribnow
James E. Price
Thomas L. Ray
Harry H. Rinehart
James R. Robbins
Regina B. Ross
John F. Schenk
Don J. Schmitt
David H. Schoening
Kit D. Smith
Donald W. Sproat
Dennis L. Stone
Donald D. Storey
Richard T. Takao
Cheryl L. Taubman
Larry D. Tice
William C. Vogelpohl
Frederick T. Waller
Needham E. Ward
William W. Weare
Paul L. Wilson
R. Wayne Wood
Alexander L. Worobey

Fourth Year Class

Carl E. Alberton
Daniel F. Amato
David D. Anderson
Gill E. Anderson
David A. Andrews
John G. Aronen
M. Steven Barber
Robert D. Basta
Roy E. Benward
Robert P. Bevan
Jonathan E. Bishop
Kenton C. Bodily
Randall W. Boyer
Stephen L. Brenneke
Edwin C. Cadman
Gary B. Calandra
Michael S. Carlson
A. Bruce Cattle, Jr.
William F. Chapman
Jerry A. Chase
William B. Clark
Ann T. Corcoran
Gregory E. Craner
Larry D. Crook
John M. Custis
George G. Degner
Ronald V. DeMars
Carrie C. Dully
Thomas S. Duncan

John T. Ebert
Kermit C. Edwards
Stephen A. Eraker
Lyle J. Fagnan
Gerald W. Fischer
H. Storm Floten
Sheryl P. Gardner
John E. Gordon
Larry B. Gridley
Kay A. Haglund
James D. Harper
Larry D. Helvey
Howard S. Henjyoji
A. Kay Huffaker
Gary L. Ingram
Wallace K. Kurihara
Richard M. Laubaugh
Stephen E. Lazarus
Frank K. Lord
Bruce P. Machaffie
Dennis O. Mayer
John Meyer
Thomas S. Miller
Rodney L. Mirich
Dan Morris
Thomas F. Neal
Robert L. Nelson
G. Michael Nichols
Michael C. Norman

Lane O. Oslund
Paul Pennington
Peter A. Peruzzo
William T. Rasor
Diane C. Williams
Renholds
Douglas F. Renholds
Douglas N. Runckel
Gary K. Schreiner
John L. Sheridan
John R. Sinnhuber
Peter B. Slabaugh
Mason A. Smith
Selwyn M. Spray
James B. Steward
John R. Stoianoff
Alan J. Stransky
James M. Sulkosky
Stephen J. Thomas, Jr.
Michael J. Thompson
Terry B. Tri
Donald E. Walker
Paul D. Wardlaw
Thomas A. Warlick
Keith R. Weeks
Roy M. White, Jr.
Michael D. Wicks
Howard L. Worcester
Richard C. Wuthrich

Graduate Students

Jack Alhadeff	Richard Harkins	Dwain Reed
Lawrence Bitte	David Hess	Patrick Reynolds
Michael Bowers	John Jennings	Francis Roberts
Esmond Braun	Glenn Knitter	Lee Robertson
Donald Brooks	Robert Knox	Peter Sakellaris
William Brunnhoezl	Judy Korany	Karmen Schmidt
Wesley Bullock	Alphonse Krystosek	John Scott
William Buss	Ernest Lane	Jefferson Slimp
Richard Carlsen	Brenda Lonsbury	Judith Smith
William Corry	Lynne Manaugh	Norman Smith
John Czaja	Thomas Manaugh	Robert L. Smith
Henry Danciger	Walter Manigault	Virginia Spangler
Stephen Edney	Glen Martin	Peter Stenzel
Kent Erickson	Curtin Mitchell	Forrest Streb
Sally Fairchild	Stanley Murphy	James Thliveris
Daniel Ford	Haide Nezam-Tehrani	Thomas Vedvick
Bruce Fowler	Mavis Nickels	Robert Velander
Nancy Gerhardt	Steven Packham	Garrett Wada
Richard Gillette	Charles Paris	Richard Walloch
Martha Gorman	Richard Pope	William Weaver
Daniel Gray	Arnold Poutala	Billie Wilson
Daila Gridley	James Rademacher	

Non-Degree Students

Donald Bair	Suzanne Hughes	Stewart Selikowitz
Robert Burnside	Lawrence Irish	Robert R. Smith
Dean Christensen	Stuart Isler	James Suit
Lynn Elwell	Richard Morris	Lynn Thompson
Leonard Evans	Joan Olson	John Turner
Carole Gygi	Ethel Polonoff	Mary Van Volkinburg
Henry Dennis	Claude Quinio	Greig Warner
Harold Goya		

Medical Technology Students

Melva Alberty	Theresa Foxx	Renee Munly
Andrea Anderson	Paul Fung	Karen O'Neill
Bonnie Anderson	Tamarie Hall	Betty Jo Peacock
Janice Carter	Janice Hunt	Patricia Regan
Jacquelin Cary	Marilyn Kay	Terry Sawzak
Kit Chan	Nadine Kilian	Lynda Sills
Jeanne Clark	Marsha Lastinger	Vickie Spurgeon
Judy Cooley	Susan Lawrence	Joyce Steinbock
Beryl Crooks	Nerissa Lee	Ming Suen
Panvadee Dolruedej	Ruth Litt	Diane Taylor
Nancy Eubanks	Ellen Liu	Charles Thornhill
Marsha Faulkner	Marilyn Martin	Margaret Vermillion
Janice Fink	Judith McCoy	Sandra Wright
Linda Fowler		

ENROLLMENT
AND DEGREES

Summary of Enrollment 1970-1971

	Men	Women	Total
First Year	88	9	97
Second Year	82	5	87
Third Year	92	7	99
Fourth Year	81	5	86
Total Regular Students	343	26	369
Graduate Students	52	13	65
Special Students	17	5	22
Medical Technology Students	4	36	40
Total	416	80	496

INDEX

Acceptance of appointment	28	Housing	17
Accreditation	13	Immunology and Allergy	57
Administration	13	Infectious Disease	58
Administrative officers	7	Instruction	13
Admission requirements	26, 74	Internships	83
Advanced standing	29	Library	15
Alumni Association	15	Licensure	33
Anatomy	37	Loan funds	23
Anesthesiology	50	Medical College Admission Test	27
Application procedure	27	Medical Genetics	41
Athletics	16	Medical Psychology	42
Awards	20	Medical technology	74
Bachelor's degree	27	Medicine	53
Basic Sciences	36	Microbiology	44
Biochemistry	39	Nuclear medicine technology	84
Calendar	8, 76	Neurology	58
Campus map	iv	Neuropathology	47
Cardiology	55	Neurosurgery	70
Cardiopulmonary Surgery	69	Nonresident fee	19
Chest Diseases	56	Nursing	80
Class attendance	30	Obstetrics and Gynecology	60
Clinical Pathology	51	Ophthalmology	61
Clinical Sciences	50	Oregon State System of Higher Education	4, 5, 6
Combined M.D.-M.S. program	80	Orthopedics	70
Combined M.D.-Ph.D. program	80	Orthoptics	84
Conjoint courses—Basic Medical Science	36	Otology, Rhinology, Laryngology	62
Conjoint courses—Clinical Science	50	Pathology	45
Continuing medical education	85	Pediatric Surgery	70
Course numbering system	33	Pediatrics	63
Curriculum in medicine	31	Personal interview	28
Cytotechnology	82	Pharmacology	47
Degree requirements, medicine	33	Physical examination	28
Degrees conferred 1971	154	Physical facilities	10
Dentistry	63	Physical Medicine and Rehabilitation	71
Description of courses	35	Physiology	48
Dermatology	52	Postgraduate education	85
Diabetes and Metabolism	56	Premedical requirements	26
Dismissal	30	Prescribed courses, medicine	32
Elective courses	30	Promotion	30
Emeritus faculty	89	Psychiatry	64
Employment	20	Public Health and Preventive Medicine	66
Endocrinology	56	Radiation Therapy	68
Enrollment	160	Radiation therapy technology	84
Environmental Medicine	66	Radiologic Diagnosis	67
Evaluation of credentials	28	Radiologic Technology	82
Executive faculty	88	Registration	29
Experimental Biology	40	Renology	55
Faculty	90	Requirements, Doctor of Medicine degree	33
Faculty committees	88	Requirements, graduate degree	79
Family Practice	53	Research	14
Fees and expenses	17	Residency programs	83
Fellowships	20	Rheumatology	58
Five-year program	80	Scholarships	20
Gastroenterology	56	Scholastic regulations	29
General information	9	Social activities	16
Grading system and grades	29	Special students	29
Graduate Studies	79	Student organizations	16
Grants-in-aid	20	Surgery	68
Health Service	18	Urology	71
Hematology	57	Veterans information	20
High school preparation	26		
History	10		
Hospital Dietetics	83		

