



University
of Oregon
Bulletin

UNIVERSITY
OF OREGON
MEDICAL
SCHOOL
PORTLAND

1967-68

Oregon State
System of
Higher Education

UNIVERSITY OF OREGON BULLETIN

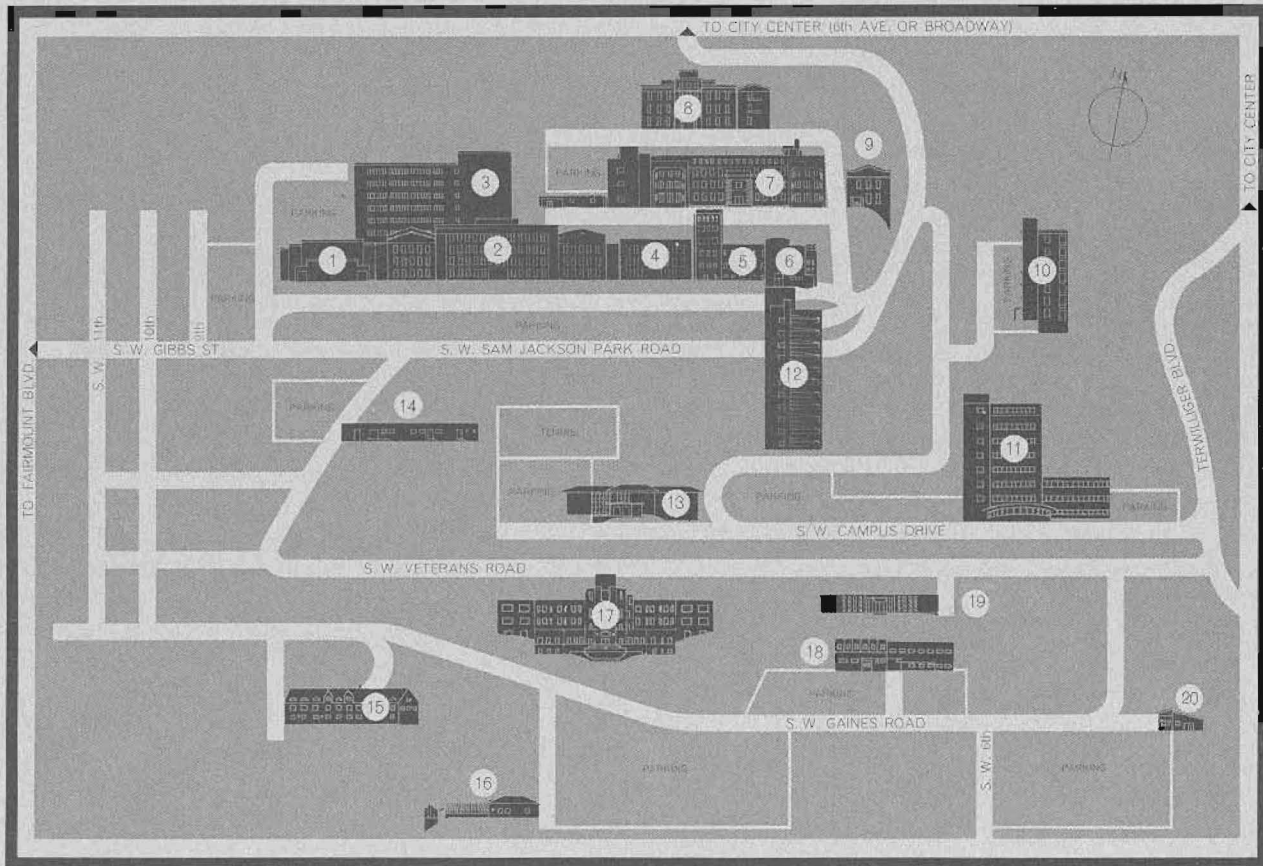
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*University of Oregon
Medical School*

3181 S.W. Sam Jackson Park
Road
Portland, Oregon 97201
Area Code: 503 Tel: 228-2181

- 1 Library and Auditorium
- 2 Medical Science building
- 3 Medical Research building
- 4 Laboratory and Administration building
- 5 Clinic Laboratories building
- 6 Outpatient Clinic
- 7 Multnomah Hospital
- 8 Emma Jones Hall (women's residence)
- 9 Katherine Hall (women's residence, laundry, maintenance and heating plant for Multnomah Hospital)
- 10 Women's Residence
- 11 University of Oregon Dental School
- 12 University of Oregon Medical School Hospital and Doernbecher Memorial Hospital for Children
- 13 Student Activities building
- 14 Physical plant building (shop, warehouse), and general services unit (printing, personnel, planning, instructions aids)
- 15 Gaines Hall
- 16 Greenhouse
- 17 University State Tuberculosis Hospital
- 18 Crippled Children's Division
- 19 Portland Center for Hearing and Speech
- 20 Portland Fire Station No. 2

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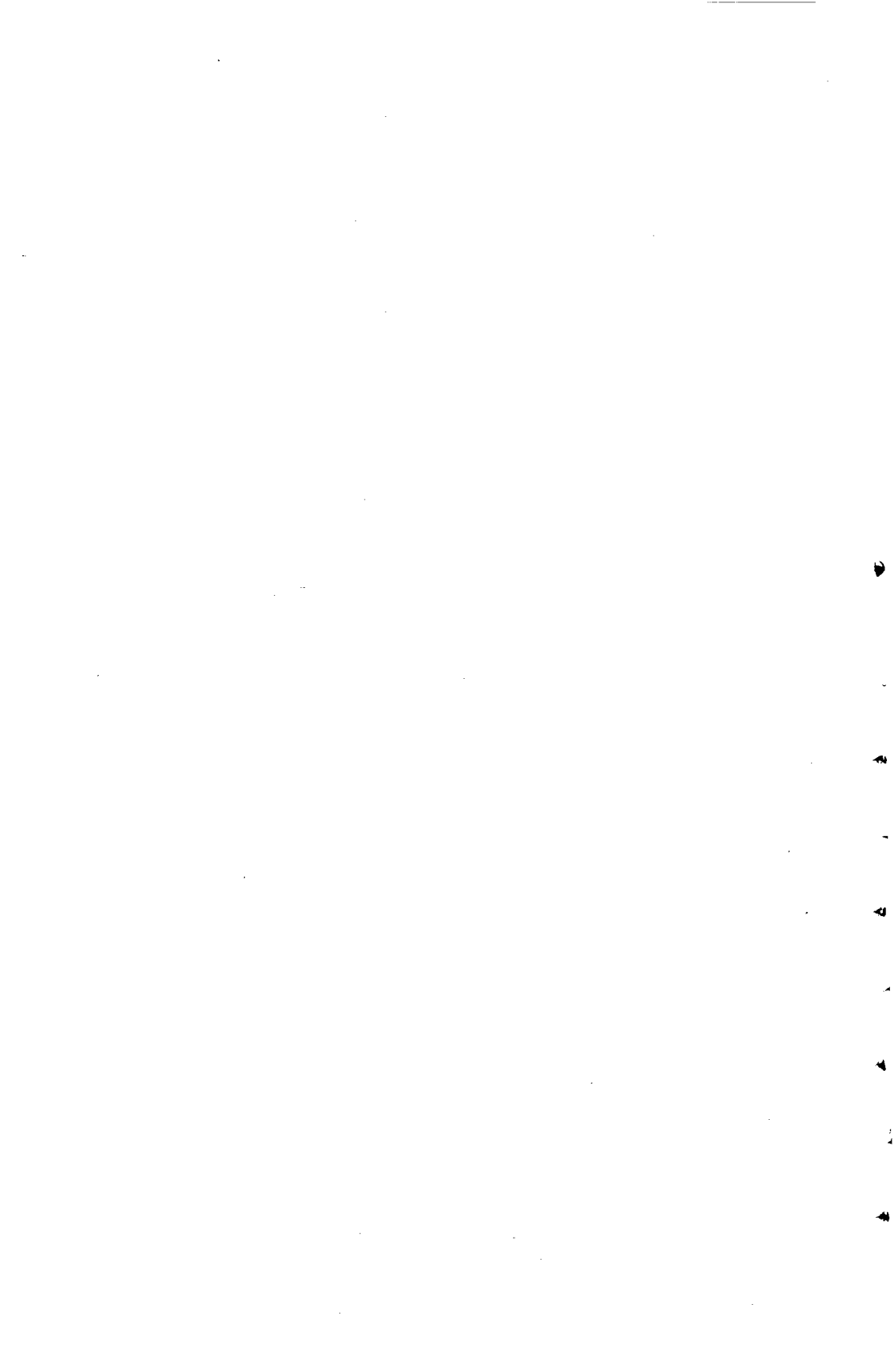
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1967-68
CATALOG

University of
Oregon
MEDICAL
SCHOOL

3181 S.W. Sam
Jackson Park Road
Portland 97201



Education with a Purpose

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

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

Since 1887, the University of Oregon Medical School has had as its primary responsibility the teaching of qualified young men and women the art and science of medicine. Its clinical facilities, in addition to serving as teaching laboratories, provide the community with needed medical services. Investigations into the causes and treatment of disease are a natural adjunct to the teaching programs and today the University of Oregon Medical School conducts a vast and important program of medical research.

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

The institution also has the added responsibilities of providing instructional programs to nursing students, medical technologists, radiologic technologists, dietetic interns, cytotechnologists, and offers a clinical affiliation in occupational therapy. In addition, a program of graduate studies leading to master of science and doctor of philosophy degrees in the sciences basic to medicine is available. Medical knowledge has and is expanding at a rapid rate, and in order to communicate this new information to practicing physicians this Medical School sponsors an extensive program of continuing medical education.

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

OREGON
STATE
SYSTEM OF
HIGHER
EDUCATION

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 College at Portland, Oregon College of Education at Monmouth, Southern Oregon College at Ashland, Eastern Oregon College at La Grande, and Oregon Technical Institute at Klamath Falls. The University of Oregon Medical School and the University of Oregon Dental School are located in Portland. The Division of Continuing Education represents all the institutions in making college level courses and special programs available to all citizens. The Division has offices in Salem 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 5175, Eugene, Oregon 97403.

State Board of Higher Education

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

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	Term Expires
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J. W. Forrester, Jr., Pendleton	1969
John W. Snider, Medford	1969
Philip A. Joss, Portland	1970
George Layman, Newberg	1970
Ralph E. Purvine, Salem	1971
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Office of State Board of Higher Education
Post Office Box 5175
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William J. Kerr, D.Sc., LL.D..... 1932-1935

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

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

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

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

University of Oregon Medical School

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

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Gwynn C. Brice, Assistant Director of Outpatient Clinic

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Caroline H. Pommarane, B.S., Registrar

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

MEDICAL AND GRADUATE STUDENTS*

Fall Term, 1967

September 18, *Monday*.....Registration
September 19, *Tuesday*.....Instruction begins; last day for
medical students to pay fees
September 22, *Friday*.....Last day for graduate students to pay fees
October 2, *Monday*.....Last day to register for full credit
or to change courses
November 23, *Thursday*.....Thanksgiving Day, holiday
December 9, *Saturday*.....Fall term ends

Winter Term, 1967-68

December 11, *Monday*.....Instruction begins
December 12, *Tuesday*.....Last day for medical students to pay fees
December 15, *Friday*.....Last day for graduate students to pay fees
December 22, *Friday*.....Last day to register for full credit
or to change courses
December 23, *Saturday* through
January 1, *Monday*.....Christmas vacation
March 9, *Saturday*.....Winter term ends

Spring Term, 1968

March 18, *Monday*.....Instruction begins
March 19, *Tuesday*.....Last day for medical students to pay fees
March 22, *Friday*.....Last day for graduate students to pay fees
April 1, *Monday*.....Last day to register for full credit
or to change courses
May 30, *Thursday*.....Memorial Day, holiday
June 7, *Friday*.....Commencement
June 8, *Saturday*.....Spring term ends

Summer Term, 1968

June 10, *Monday*.....Registration; Instruction begins
June 14, *Friday*.....Last day for graduate students to pay fees
June 24, *Monday*.....Last day to register for full credit
or to change courses
July 4, *Thursday*.....Independence Day, holiday
August 31, *Saturday*.....Summer term ends



1

GENERAL
INFORMATION
FOR STUDENTS

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

The *Outpatient Clinic* (1931), open to patients throughout the state of Oregon who are unable to obtain medical care elsewhere, affords teaching facilities for the clinical branches of the Medical School. Approximately 200,000 patient visits are recorded annually. Funds for the construction of the building were provided through a gift of \$400,000 from the General Education Board of New York. The Outpatient Clinic had its origin in the Portland Free Dispensary founded in 1907 by the People's Institute, a private philanthropic institution. The dispensary affiliated with the Medical School in 1909 and moved to the campus in 1931.

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

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

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

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

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

The *Physical Plant Shop and Warehouse* (1953), provides shop facilities and a central warehouse for the Physical Plant Department and houses the central services unit—printing, personnel, instructional aids, and the Medical School's planning office. The building was financed by a state appropriation of \$71,000.

GENERAL INFORMATION

A \$48,000 addition to the structure was added in 1958 and a second addition to the building, costing \$200,000, was completed in June 1960.

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

The *University of Oregon Medical School Hospital* (1955), a 268-bed teaching and research hospital, was completed in the fall of 1955 at a cost of approximately \$6,300,000. Funds for the construction of the hospital were provided principally from state appropriations, supplemented by several gifts and grants. The hospital contains 127 beds for general, medical, and surgical patients, 28 beds for psychiatric care, and 113 beds for pediatrics (*Doernbecher Memorial Hospital for Children*).

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

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

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

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

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

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

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

Accreditation

The University of Oregon Medical School is one of 88 accredited schools of medicine in the United States. It is approved by the American Medical Association and by the Association of American Medical Colleges. Its residency programs

have been approved by the Council on Medical Education and Hospitals of the American Medical Association and by the respective American boards (see page 87). In addition, special programs are approved by the American Dietetic Association, the Council on Medical Education and Hospitals of the American Medical Association, and the American Registry of Radiologic Technologists.

Administration and Faculty

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

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

Instruction

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

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

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

The Medical School also offers a special five-year program of study for outstanding students leading to both the medical degree and the Master of Science degree.

GENERAL INFORMATION

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

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

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

The University of Oregon School of Nursing provides an important instructional program on the Medical School campus. Courses in medical technology and radiologic technology, and a one-year internship in dietetics also are offered. Each year the Medical School conducts an extensive postgraduate program for physicians of the states of the Pacific Northwest, British Columbia, and Alaska (see also page 87).

Research

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

In the world-wide struggle to improve the health and happiness of mankind, millions of research dollars are expended annually in the nation's medical schools. Oregon is no exception. Investigations under way at the Medical School are supported by gifts and grants amounting to approximately \$6,000,000 annually. These funds are made available by private individuals and industry, by foundations and societies, and by the state and Federal governments.

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

Library

The Medical School Library, with stacks providing shelving space for 100,000 volumes, which may be expanded to accommodate an additional 100,000 volumes,

contains more than 100,000 volumes of books and bound and unbound periodicals. Approximately 1,800 current periodicals are received. Through the privileges of interlibrary loan and microfilm service, it is possible to obtain within a few days materials not contained in this collection. The Library has a copying machine for the duplication of material in the Library collection.

The book and periodical stacks are open to the public. For the convenience of readers, individual study desks and tables are located in the stacks.

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

The Library has been enriched through many valuable gifts of books and periodicals. Members of the Women's Auxiliary of the Oregon Medical Association and other friends of the Medical School aid in assembling books and objects of medical-historical interest. The Oregon State Board of Medical Examiners, the Portland Academy of Medicine and the Multnomah County Medical Society contribute to the annual operating fund. Public acknowledgement of gifts to the Library is made annually in the Medical School's gift list.

Students are given a survey of the resources of the Library and instruction in their uses in four lectures delivered by the librarian during the first and second years of their medical course.

Medical Research Foundation

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

Alumni Association

Founded in 1913, the Alumni Association of the University of Oregon Medical School also includes graduates of the Willamette University department of medicine. The association is devoted to the interests of students and graduates and to the encouragement of scientific and professional progress among members of the medical profession generally. Its membership numbers more than 2,700. In the spring of each year, the Alumni Association sponsors a three-day scientific meeting on the Medical School campus with about 400 registrations. Alumni Association officers for 1967-1968 are:

GENERAL INFORMATION

Donald E. Olson, M.D., Ph.D., '47, Portland	President
Lendon H. Smith, M.D., '46, Portland.....	Vice President
Hugh B. Currin, M.D., '35, Klamath Falls	Vice President
G. Alan Fisher, M.D., '42, Gresham	Vice President
John Findlay Ramsay, M.D., '30, Seattle	Vice President
Bernard F. Ryan, M.D., '36, Spokane	Vice President
Kenneth J. Scales, M.D., '37, Portland	Secretary
Robert P. Burns, M.D., '47, Portland	Treasurer

Student Organizations

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

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

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

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

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

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

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

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

Social Activities and Athletics

General invitations are extended to all students to attend special lectures and meetings in the Medical School Auditorium. Notices of these events are posted on student bulletin boards. Several traditional dances and fraternity get-togethers are planned each year by medical student organizations. An annual luncheon for freshmen given by the Alumni Association and the dean's reception for new students are included in the fall social calendar; a reception for graduates following commencement ceremonies is given by the Faculty Wives' Club. And, of course all students have access to Portland's metropolitan cultural advantages.

Because of enrollment limitations each year and the highly specialized and concentrated nature of medical subjects, the Medical School is unable to sponsor athletics, officially. However, 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 students are provided by the Medical School, many apartments and boarding houses are located close to the campus. An up-to-date list of vacancies in apartments and boarding houses is maintained on the Student Bulletin Board in the Administration Building.

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

Student Health Service

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

Coverage by the Health Service is available if the student is registered for 7 hours or more credit in the current term and has paid the Health Service fee. There is no provision for care of students' dependents and no provision for elective surgery. The accessory insurance for all students is designed to give relatively complete coverage in and out of the city and during vacation periods. Married students are especially advised to buy this coverage for their dependents.

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

Fees and Expenses

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

GENERAL INFORMATION

Regular Fees

Medical students, Oregon residents, per term.....	\$248.00
Medical students, nonresidents, per term.....	404.00
Graduate students (candidates for M.A., M.S., Ph.D.), per term	143.00
Graduate students enrolled for 7 term hours of work or less	\$15.50 per term hour (minimum, \$31.00)
Graduate students employed as research assistants or fellows, per term	39.00

Deposits

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

Special Fees

Registration and laboratory fee for special students registered for 7 term hours of work or less—\$21.00 per term hour (minimum \$42.00 per term)	
Auditor's fee for lectures, per term hour.....	\$ 6.00
An auditor is a person who has obtained permission to attend classes without receiving academic credit.	
Transcript fee	\$ 1.00
One transcript is issued free; a fee of \$1.00 is charged for each additional transcript.	
Evaluation fee	\$10.00
The evaluation fee is charged for the evaluation of transcripts submitted with the application for admission; not refundable.	
Late-registration fee, per day (no maximum) after an initial charge of \$5.00 for the first day	\$ 1.00
Registration day is the first day of each term; registration is not complete until the student pays his tuition and fees. The first penalty day for full-time students in medicine and medical technology is the second day after registration day. The first penalty day for graduate students is one week after registration day.	
Graduate qualifying-examination fee.....	\$1.00 to \$15.00

Microscopes

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

Estimate of Yearly Expenses

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

Tuition and fees, full-time resident students	\$ 744.00
Tuition and fees, full-time nonresident students.....	1,212.00
Breakage deposit	15.00
Microscope fee	18.00

¹ See page 29.

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

NONRESIDENT FEES

Books and supplies	135.00
Board and room	1,000.00
Personal expenses	200.00

Fee Refunds

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

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

Regulations Governing Nonresident Fees

Under the regulations of the Oregon State Board of Higher Education, a minor student whose parent or guardian is a bona fide resident of Oregon qualifies for enrollment under the resident fee; a student whose domicile is independent of his parent or guardian qualifies for enrollment under the resident fee if he presents convincing evidence that he established his domicile in Oregon six months prior to his first registration.

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

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

- (1) In the case of a minor, if his parent or guardian has moved to Oregon and has established a bona fide residence in the state, or
- (2) In the case of a student whose domicile is independent of that of his parent or guardian, if the student presents convincing evidence that he has established his domicile in Oregon and that he has resided in the state for at least twelve consecutive months immediately prior to the term for which reclassification is sought, and that he has no intention of moving out of the state after completion of his school work.

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

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

Part-Time Employment

The academic responsibilities in medical school are such that it is usually impossible for a student to undertake outside employment during the school year without

GENERAL INFORMATION

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

Fellowships, Scholarships, Grants-in-Aid, Awards

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

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

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

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

Dr. Laurence Selling Research Fund. The Selling Research Fund was established in 1957 through a gift of approximately \$200,000 from an anonymous donor. For several years part of the income has been used for student research scholarships. Students are recommended for the award by a committee of the faculty, and the awards are based on scholastic ability and research promise. Awards are limited to students participating in the five-year program. (See page 83, Five-Year Program.)

Kenneth A. J. Mackenzie Memorial Scholarships. Five \$200 scholarships are awarded annually for the study of medicine, in accordance with the following plan: one \$200 scholarship is awarded each year to the outstanding premedical student at the University of Oregon in the last year of his premedical studies; if the student enters the University of Oregon Medical School and continues to maintain a high scholastic record the scholarship is renewable for each of his four years of medical training; if the student does not maintain a high scholastic record at the Medical School, his scholarship is transferred to the outstanding member of

his Medical School class who has taken his premedical work at the University of Oregon. The scholarships are a memorial to Dr. Kenneth A. J. Mackenzie, former dean of the Medical School; they are endowed through a bequest from the late Mrs. Mildred Anna Williams.

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

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

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

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

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

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

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

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

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

Rich Scholarship Fund. This scholarship fund was established through a bequest under the will of Miss Georgia Rich. The fund will be used over a period of approximately three years for scholarships to deserving medical students.

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

Walter J. Rosenfeld Scholarship Fund. This is a perpetual fund established under the will of Walter J. Rosenfeld of Portland. The income from such fund is used annually for two scholarships to selected 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 1967-68 scholarships will be available at the University of Oregon Medical School for students in the first- and second-year classes.

Annual awards to outstanding medical students are made by the following organizations: Lange Medical Publications, Merck and Co., Inc., The Upjohn Co., Roche Laboratories, The C. V. Mosby Co. Publications, and the American Academy of Dental Medicine. The awards are either monetary or take the form of a wrist watch, books or magazine subscriptions.

Loan Funds

The Medical School has loan funds available for students. In general, loans fall into two classifications—emergency and long-term loans. Long-term loans are generally limited to \$500 a year or to a maximum of \$1,000 to any one student. Emergency funds are available for small, short-term loans. Interest rates vary with the fund used and application should be made to the Medical School Business Office.

Ben Selling Loan Fund. This fund, a bequest from the late Mr. Ben Selling, is administered by the Trust Department of the First National Bank of Oregon.

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

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

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

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

LOAN FUNDS

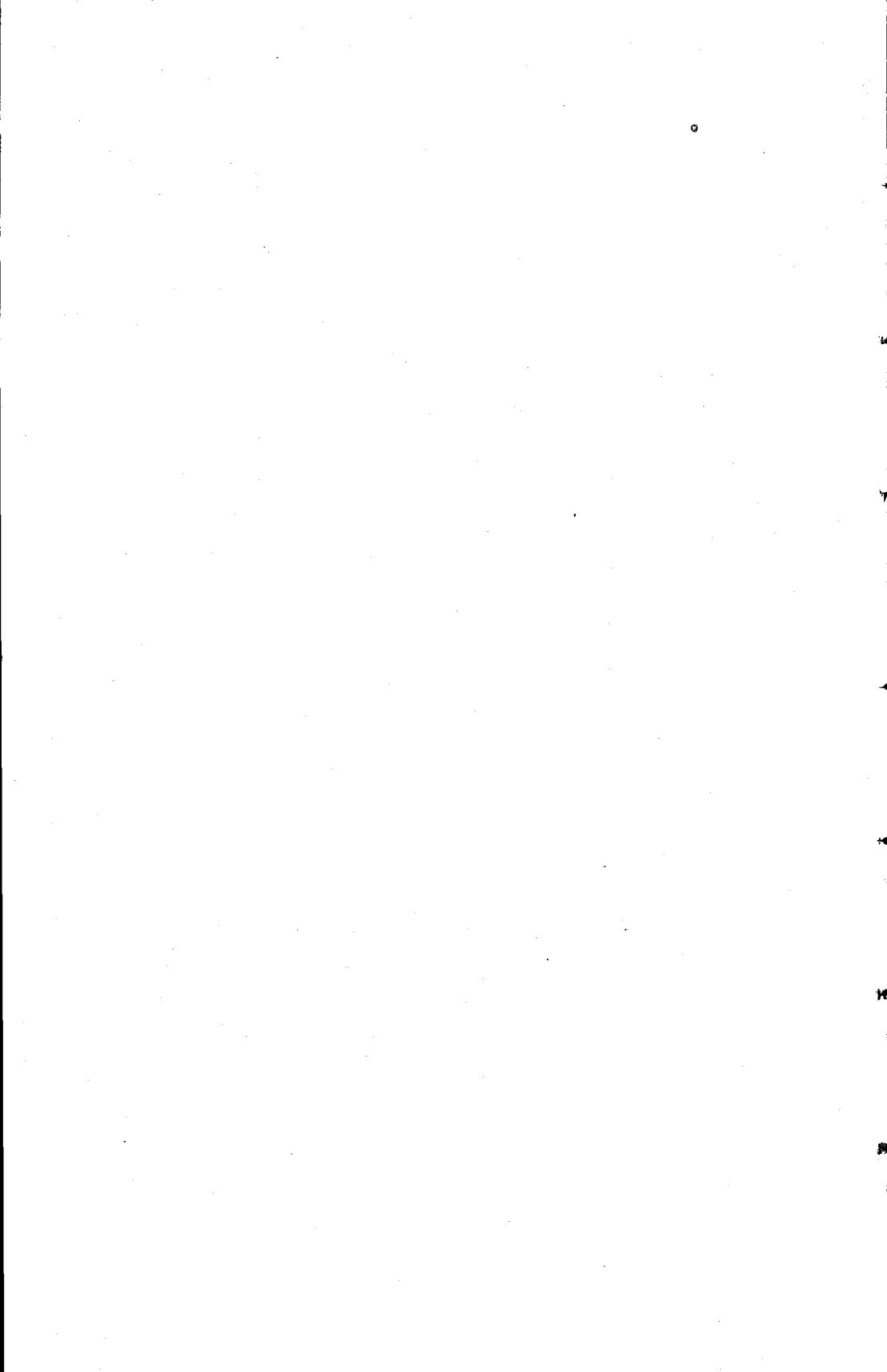
Dr. Francis Ortschild Memorial Fund. This loan fund, approximately \$65,000, was established in 1960 through a bequest under the will of Viola Ortschild of Portland. It is to be used for loans to needy and worthy medical students.

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

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

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

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



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ADMISSION AND SCHOLASTIC REGULATION



Admission Requirements

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

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

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

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

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

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

	Term Hours
Chemistry	24
General inorganic, which may include qualitative analysis	12
Quantitative analysis, emphasis on volumetric analysis	4
Organic (with laboratory)	8

ADMISSION REQUIREMENTS

Biology	15
General biology or zoology	9
Selections from genetics, embryology or general or cellular physiology (in this order of preference).....	6
Physics (with laboratory)	12
*Mathematics	12**
*English	9
Electives	66
Total Prescribed Credits	138

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

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

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

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

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

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

Medical College Admission Test

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

Applicants should take the test during the calendar year immediately preceding the year of their admission to the Medical School. The test is given twice each

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

** The increase from the previous requirement of 6 term hours of mathematics to 12 term hours will become effective for the class entering in September, 1969.

ADMISSIONS AND SCHOLASTIC REGULATIONS

year—in the early fall and mid-spring. Information as to exact time and place of the test and registration deadlines can be obtained from college premedical advisers.

Bachelor's Degree

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

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

Application Procedure

Application forms may be obtained from the Medical School Registrar, and all credentials should be sent to the Registrar. 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 residents of neighboring western states which do not have medical schools and which are members of the Western Interstate Commission on Higher Education (WICHE). Occasionally exceptional applicants from other regions are admitted.

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

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

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

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

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

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

APPLICATION PROCEDURE

Two unmounted recent glossy photographs size $2\frac{1}{4} \times 2\frac{1}{4}$ " of the applicant in conventional dress, front view.

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

After the initial screening, well-qualified applicants will be required to submit a physical examination sheet, completed by the student's physician.

Processing of Applications

Evaluation of Credentials

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

Personal Interview

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

Physical Examination

Just as the Medical School's Committee on Admissions may refuse admission to a student on the basis of academic record, it also may reject an applicant on the grounds of lack of physical or mental suitability. Applicants who appear well qualified on the basis of the initial screening by the committee are required to submit reports of complete examinations by their own physicians, which are reviewed by the student health physician before 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. Acknowledgement of notification of acceptance should be made promptly in writing by the successful applicant.

Acceptance of Appointment

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

*ADMISSIONS
AND
SCHOLASTIC
REGULATIONS*

Special (Non-degree) Students

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

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

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

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

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

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

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

Advanced Standing

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

Registration Procedure

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

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

Scholastic Regulations

Grading System and Grades

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

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

Promotion

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

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

Specific problems are referred to the Review Board for subsequent action. The Review Board, composed of chairmen of departments, considers primarily requests from students arising from actions taken by the Preclinical and Clinical Promotion Boards.

Elective Courses

Elective courses are offered in both clinical and basic science departments. Registration for elective courses must be arranged at the Registrar's Office during the first week of the term in which the course is given.

If the student withdraws from an elective course for any reason, this must be done at the Registrar's Office within two weeks after the beginning of the course. Otherwise he will be held responsible for the course and the grade will be incorporated into his record.

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Dismissal

The faculty has the right to sever, at any time, the connection with the Medical School of any student who is considered to be physically, morally, or mentally unfit for a career in medicine. A student may be dropped upon the recommendation of a Promotion Board.

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

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

The prescribed and recommended subjects for the three premedical years are described under *Admissions and Scholastic Regulations*. In the first, second, third, and fourth years at the Medical School there are 5,436 class hours of required work. Descriptions of courses are to be found under the several departmental headings.

Prescribed Work

First Year

	Aggregate Class Hours			Term Total Hours
	Lecture	Lab.	Clinic	
An 411, 412, 413 ....Gross and Developmental Anatomy....	108	360	.... 468	19
An 415 .....Histology and Organology....	36	108	.... 144	6
An 511 .....Neurology and Organs of Special Senses	24	72	.... 96	4
BCh 411, 412 .....General Medical Biochemistry	96	180	.... 276	13
Med Ps 411, 412 ....Introduction to Medical Psychology	48	....	.... 48	4
Phy 411 .....Human Physiology	60	108	.... 168	8
PH 411 .....Statistical Methods as Applied to Medicine	12	36	.... 48	2
	384	864	.... 1,248	56

Second Year

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

Third Year

Pth 655 .....Surgical Pathology .....	....	36	.... 36	1½
Med 630 .....Third-Year Medicine	72	....	372 444	21½
DM 650 .....Dental Facial Growth and Oral Pathology	12	....	.... 12	1
Derm 615, 616 .....Lect. and Demon. in Dermatology	24	....	.... 24	2

**PRESCRIBED
COURSES**

	(Aggregate Class Hours)			Term		
	Lecture	Lab.	Clinic Total Hours			
Obs-Gyn 630 Third-Year Obstetrics and Gynecology	48	....	156	204	10½
Eye 615 Eye	12	....	....	12	1
Ent 615 Ear, Nose and Throat	12	....	....	12	1
Ped 630 Third-Year Pediatrics	36	....	192	228	11
Psy 615 Child Psychiatry	12	....	....	12	1
Psy 630 Clinical Clerkship .....	....	36	....	36	1½
PH 511 Principles of Public Health	36	....	....	36	3
Rad 615 Radiographic Diagnosis	36	....	....	36	3
Sur 630 Third-Year Surgery	60	....	366	426	20½
	360		72	1,086	1,518	78½

Fourth Year

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

Recapitulation

	(Aggregate Class Hours)			Term	
	Lecture	Lab.	Clinic Total Hours		
First year	384	864	....	1,248	56
Second year	516	636	72	1,224	64
Third year	360	72	1,086	1,518	78½
Fourth year	132	....	1,314	1,446	66½
	1,392	1,572	2,472	5,436	265

Prescribed Work by Departments

	Aggregate Class hours
Anatomy	708
Biochemistry	276
Medical Psychology	48
Microbiology	216
Pathology	360
Pharmacology	168

CURRICULUM IN MEDICINE

Physiology	288
Clinical Pathology	120
Medicine	1,008
Obstetrics & Gynecology	438
Ophthalmology	96
Otolaryngology	84
Pediatrics	444
Psychiatry	168
Public Health	156
Radiology	36
Surgery	822
Total hours	5,436

Requirements for the Degree of Doctor of Medicine

A candidate for the degree of Doctor of Medicine must complete satisfactorily the curriculum and all other requirements prescribed by the faculty of the Medical School. Members of the senior class are required to pass the Part II examination of the National Board of Medical Examiners which is given in April. Any student failing to pass this examination will be referred to the Review Board of the Medical School for reevaluation of his status. All candidates for degrees are required to be present at the Commencement Exercises to receive their diplomas in person. The Doctor of Medicine degree is conferred by the University of Oregon upon the recommendation of the faculty of the Medical School.

Licensure

Admission to the practice of medicine in any state is conditioned upon the requirements of a state board of medical examiners. Admission to practice in the state of Oregon is dependent upon the candidate's having an M.D. degree, completing a one-year straight or rotating internship, and passing the basic science and licensing examinations. For candidates who are already licensed to practice in another state, the licensing examination may be waived by reciprocity with that state, if such a reciprocal agreement is in force. In some instances completion of the basic science requirements may be arranged by reciprocity also.

Further information about licensure requirements may be obtained from the Oregon State Board of Medical Examiners, 609 Failing Building, Portland.

Students are urged to take the Oregon basic science examination at the end of their sophomore year. This examination is given by the Basic Science Examining Committee of the Oregon State Board of Higher Education and is required for licensure in Oregon. Information concerning this examination may be obtained by writing the Basic Science Examining Committee, Oregon State Board of Higher Education, Eugene.

Course Numbering System

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

*COURSE
NUMBERING
SYSTEM*

to which graduate students may be admitted on approval of the graduate adviser and department chairman concerned.

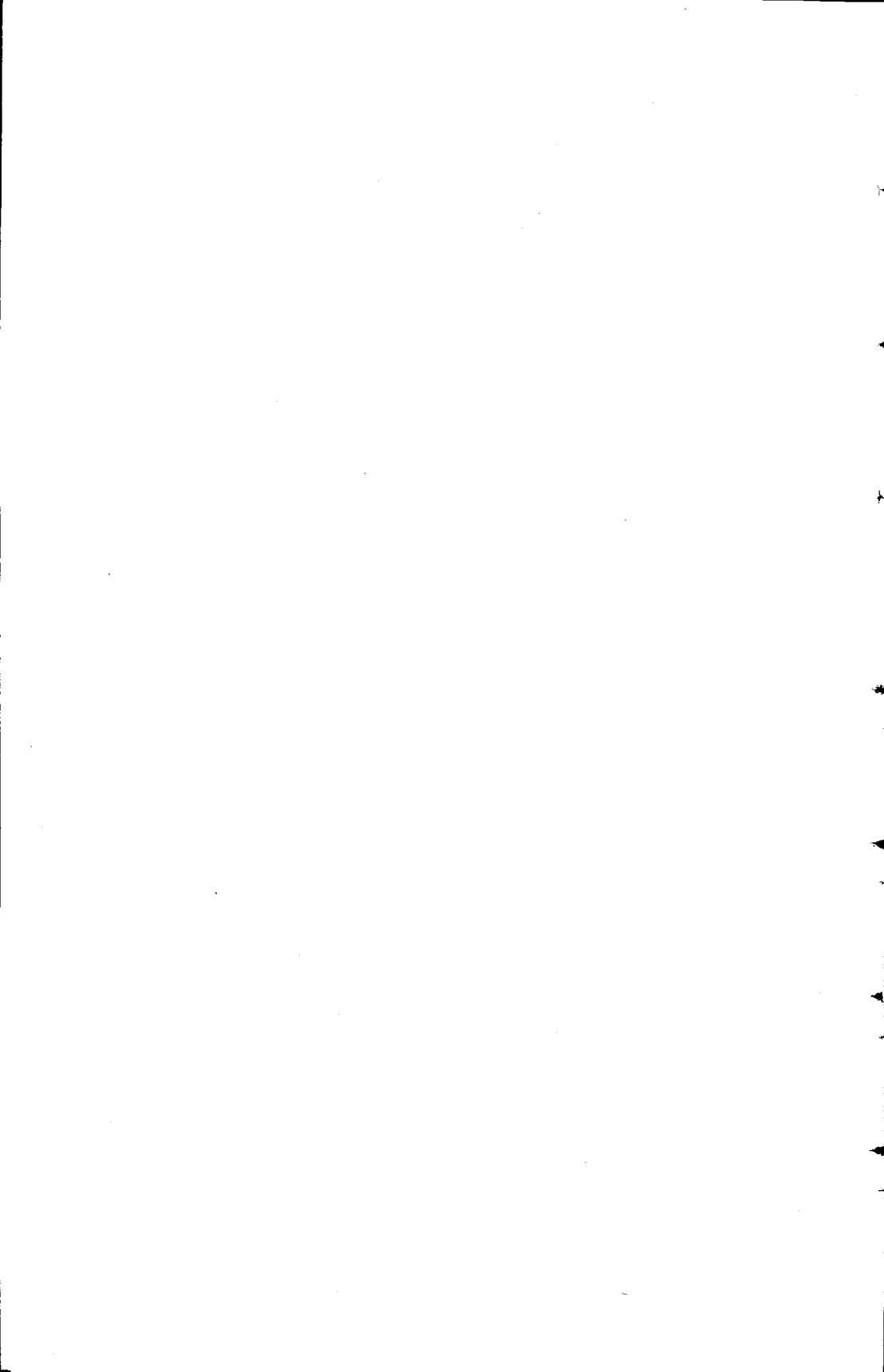
500-599. Courses primarily for students in basic medical science, but to which graduate students may be admitted on approval of graduate adviser and department chairman concerned.

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

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

501. Research
503. Thesis

505. Reading and Conference
507. Seminar





4

DESCRIPTION OF COURSES

DESCRIPTION
OF COURSES

Basic Sciences

CONJOINT COURSE—BASIC MEDICAL SCIENCE

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

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

DEPARTMENT OF ANATOMY

Anthony A. Pearson, Chairman of Department

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

Associate Professor: **Archie R. Tunturi**

Assistant Professor: **Richard B. Lyons***

Instructors: **Reid S. Connell, Jr., Howard W. Davis**

Research Assistants: **Birgitta Lamb, M. Barbara Leighton, Kay Macpherson, Harriet McGraw, Jean Malen, Ronald W. Sauter, Dolores M. Wahl**

Required Courses

First Year

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

Regional dissection of the human body. Each pair of students dissects the lateral half of a body. The student is furnished with a loan collection of disarticulated bones for the study of osteology. Demonstrations include surface and radiological anatomy. Lectures, demonstrations, and laboratories include the reproductive cycle, fertilization, normal and abnormal human embryological development. Fall: lectures, demonstrations, and quizzes, 3 hours a week; laboratory, 12 hours a week. Winter: lectures, demonstrations, and quizzes, 4 hours a week; laboratory 15 hours a week. Spring: lectures, demonstrations, and quizzes, 2 hours a week; laboratory, 3 hours a week. 468 hours.

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

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

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

Study of the structure and functions of the organs of special senses and of

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

Elective Courses

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

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

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

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

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

Journal Club.

History of Medicine.

An 512. **Analytical Embryology.** 4 hours spring.

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

An 513. **Analytical Histology.** 4 hours spring.

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

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

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

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

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

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

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

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

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

DEPARTMENT OF BIOCHEMISTRY

Richard T. Jones, Chairman of Department

Professor Emeritus: Edward S. West

Professors: A. Wesley Horton, Richard T. Jones, George W. Kittinger (Primate Center), **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), **Antonio E. Colas, Jack H. Fellman, Michael Litt**

Assistant Professors: J. Peter Bentley, Rose Mary Bocek (Primate Center), **Marvin C. Hines, Dale D. Hoskins** (Primate Center), **Charles F. Howard, Jr.** (Primate Center), **Anne M. Perley** (Primate Center), **Geoffrey V. F. Seaman**

Instructor: Thomas Fujita

Research Associates: Caroline Ayers, Bernadine Brimhall, Marie Duerst, K. Ganapathy, Russell Jolly, Paul MacMahill, Susan Oldham

Research Assistants: Lee Henry, Lester Laestuen, Lois Jane Penttila, Emil Schneider, Jean Scott

Required Courses

First Year

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

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

Elective Courses

BCh 501. **Biochemistry Research.** Any term, hours to be arranged.

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

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

BCh 511. **Biological Information Transfer.** 2 hours.

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

BCh 512. **Biological Energy Transformations.** 2 hours.

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

BCh 513. **Advanced Intermediary Metabolism.** 2 hours.

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

BCh 514. **Enzymology.** 3 hours.

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

BCh 515. Biophysical Chemistry of Macromolecules. 2 hours.

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

BCh 516. Biochemical Techniques and Instrumentation. 4 hours.

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

DIVISION OF EXPERIMENTAL BIOLOGY

William Montagna, Head of Division

Professor: **William Montagna**

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

Assistant Professor: **J. Peter Bentley**

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

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

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

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

DEPARTMENT OF MEDICAL PSYCHOLOGY

Joseph D. Matarazzo, Chairman of Department

Professors: **Robert D. Boyd**, **F. Robert Brush**, **Robert W. Goy** (Primate Center), **Frederick H. Kanfer**, **Joseph D. Matarazzo**, **Charles H. Phoenix** (Primate Center), **George Saslow** (Psychiatry), **Richard F. Thompson**, **Arthur N. Wiens**

DESCRIPTION OF COURSES

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

Associate Professors: **Robert D. Fitzgerald, Vincent Glaudin** (Veterans Hospital), **Norman B. Henderson, James E. Lindemann, Ruth G. Matarazzo, David S. Phillips, Jeanne S. Phillips**

Assistant Professors: **Bruce K. Alexander** (Primate Center), **Bruce V. Butler, Constance Hanf, Leif G. Terdal**

Clinical Instructors: **Buell E. Goocher, Martin S. Levine**

Residents: **Eugene W. Brockopp, Richard M. Eisler**

Required Courses

First Year

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

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

Elective Courses

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

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

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

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

Med Ps 511. **Statistics.** 2 hours fall.

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

Med Ps 512. **Research Design.** 3 hours winter.

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

Med Ps 513. **Advanced Statistics.** 3 hours spring.

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

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

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

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

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

Med Ps 516. Motivation. 3 hours winter.

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

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

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

Med Ps 518. Physiological Psychology. 3 hours winter.

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

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

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

Med Ps 520. Individual Differences. 3 hours summer.

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

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

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

DEPARTMENT OF MICROBIOLOGY

Arthur W. Frisch, Chairman of Department

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

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

Instructor: **Nancy B. Gerhardt**

Research Assistants: **Patricia Roduner, Jean Troutd, Susan Turner**

Required Courses**Second Year****Mb 413, 414. Medical Microbiology and Immunology.** 5 hours each term, fall and winter.

The material covered includes basic bacteriology, immunology, and pathogenic microbiology. Bacterial, viral rickettsial, and fungal disease presented dur-

DESCRIPTION OF COURSES

ing the first 18 weeks. The last six weeks are devoted to the study of protozoan and helminthic parasites of man. Lectures and recitations, 3 hours a week; laboratory, 6 hours a week. 216 hours.

Elective Courses

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

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

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

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

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

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

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

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

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

Mb 513. **Advanced Microbiology and Immunology.** Term and hours to be arranged.

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

DEPARTMENT OF PATHOLOGY

Sefton R. Wellings, Chairman of Department

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

Professors: **Robert A. Cooper, Jr., Peter J. Dawson, Nelson R. Niles, Benjamin V. Siegel, Sefton R. Wellings**

Clinical Professor: **Vinton D. Sneed**

Associate Professors: **George C. Buchan, Thelma N. Fisher, Adam Lis, Wilbur P. McNulty** (Primate Center)

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

Assistant Professors: **Patricia C. Baker, Robert E. Brooks, Richard T. Gourley, Cesar A. Maruffo** (Primate Center), **James R. Orendurff** (Veterans Hospital)

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

Senior Clinical Instructor: **Norman H. Rickles**

Instructors: **Virginia L. Jentoft, James deWitt Rankin** (Cytology), **Ethredge F. Williams** (Cytology)

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

Residents: **Thomas J. McNamara, Frank H. Watson**

Required Courses

Second Year

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

Fall: General principles of disease; study of prepared slides supplemented by experiments and study of selected autopsies by all students; fresh and museum specimens; Kodachrome slides and Scopicon orientation. Winter and spring; continuation of the study of disease states of the various body systems. Fall: lectures and recitations, 3 hours a week; laboratory, 6 hours a week. Winter: lectures, 3 hours a week; laboratory, 6 hours a week. Spring: lectures, 2 hours a week; laboratory, 4 hours a week. 288 hours.

Third Year

Pth 655. **Surgical Pathology.** 1½ hours, one section each term.

Applications of pathology to immediate study of operatively removed tissues, correlating the clinical aspects of individual cases with pathologic findings; occasional comprehensive demonstrations. 6 hours a week for six weeks; 36 hours.

Fourth Year

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

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

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

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

DESCRIPTION OF COURSES

Elective Courses

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

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

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

Pth 516. **Advanced Systemic Pathology.** Any term, hours to be arranged.
Study of the detached pathology of one system.

Pth 517. **Advanced Pathological Histology.** Any term, hours to be arranged.
Systematic study of microscopic sections of autopsy tissues. Open to students who have had at least one term's work in pathology.

Pth 518. **Special Pathology of Heart and Circulation.** Hours to be arranged.
Systematic and inclusive study of the pathologic states affecting the circulatory system, illustrated by sections and gross materials.

Pth 519. **Introduction to Electron Microscopy.** 2 hours fall.

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

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

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

Pth 521. **Biology of Cancer.** 1 hour spring.

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

Pth 522. **Viral Oncology.** 2 hours, term to be arranged.

Systematic study of viruses in relation to cancer in animals and man. Biological aspects of tumor induction by viruses, intracellular and extracellular factors in neoplasia; biochemical and biophysical properties of tumor viruses.

Pth 523. **Biochemical Pathology.** 2 hours, term to be arranged.

This course deals with the biochemical abnormalities characteristic of selected examples of both genetic and nongenetic diseases. Particular emphasis is placed on the role of nucleic acids in the processes involved. A short series of introductory lectures reviews nucleic acid biochemistry and metabolism, and is followed by a group of lectures dealing with our current knowledge of biochemical abnormalities related to chromosomal diseases, blood proteins, urinary products, storage diseases, viral infections, neoplasia, irradiation, and aging.

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

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

Pth 525. **Modern Trends in Pathologic Biology.** 4 hours spring.

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

Pth 614. **Attendance at Autopsies.** Hours to be arranged.

Opportunity offered to students to elect autopsy attendance with instruction. Such students are required to assist and make detailed suggestions. Limited to 20 students.

DEPARTMENT OF PHARMACOLOGY

Norman A. David, Chairman of Department

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

Associate Professor: **John D. Gabourel**

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

Assistant Professors: **Robert E. Brummett, Kaye E. Fox**

Clinical Instructor: **Anton C. Kirchhof**

Research Associate: **Melvin M. Reeves**

Required Courses

Second Year

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

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

Elective Courses

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

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

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

General Principles of Pharmacology.

Drug Metabolism.

Molecular Pharmacology.

Pharmacogenetics.

Advanced Cardiovascular Pharmacology.

Phc 507. **Seminar.** 2 hours spring.

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

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

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

Phc 515. **Pharmacological Control of Biological Information Transfer.**

2 hours, term to be arranged.

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

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

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

DESCRIPTION
OF COURSES

DEPARTMENT OF PHYSIOLOGY

John M. Brookhart, Chairman of Department

Professor: **John M. Brookhart**

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

Assistant Professors: **J. Job Faber, John A. Resko** (Primate Center)

Research Associates: **Frederick M. Hart, Shigemi Mori**

Clinical Research Associates: **J. David Bristow, Miles J. Edwards, Monte Greer, Donald G. Kassebaum, James Metcalfe, William A. Neill**

Required Courses

First Year

Phy 411. **Human Physiology.** 8 hours spring.

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

Second Year

Phy 412. **Human Physiology.** 6 hours fall.

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

Elective Courses

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

Prerequisite: Phy 411, 412.

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

Prerequisite: Phy 411, 412.

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

Prerequisite: Phy 411, 412.

Phy 514. **History of Physiology.** 1 hour winter.

One hour a week; 12 hours.

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

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

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

Emphasis of this course is on the physics of the cardiovascular system. Techniques of measurement and current views on cardiac performance, aortic and local blood flows, hydrostatic pressures, and the micro circulation. Origin and conduction of heart sounds. Regulatory mechanisms. Conference, 2 hours a

week; laboratory 6 hours a week. 96 hours. Prerequisites: Phy 411, 412, BCh 411, 412.

Phy 518. Biological Transport Processes with Special Reference to the Kidney. 4 hours, terms 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: Phy 411, 412, calculus, physical chemistry.

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

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

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

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

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

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

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

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

Clinical Sciences

DEPARTMENT OF CLINICAL PATHOLOGY

Tyra T. Hutchens, Chairman of Department

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

Associate Professor: James L. Bramhall

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

Assistant Professors: Margaret E. Berroth, James E. Haines, Martha L. Hamilton, Victor C. Marquardt, C. Evans Roberts

Assistant Clinical Professors: Eugene W. Landreth, Albert Oyama, Nigel A. Pickering

Instructors: Mary E. Baptist (Medical Technology), Patricia A. Chadwick, John D. Koontz, James A. Wilkinson

Clinical Instructors: Daniel M. Baer, William J. Brady, David J. Brown, Archie Y. Hamilton

DESCRIPTION OF COURSES

Residents: Richard V. Crisera, Darwin C. Lehfeldt, James B. Sawyer,
Brij B. Sharma

Required Courses

Second Year

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

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

Fourth Year

CP 650 **Clinical Pathology.** 1 hour spring.

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

Elective Courses

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

CP 520, 521. **Radioisotope Techniques.** 1 hour each term, fall and winter.

Lectures and demonstrations concerning the theoretical and practical application of radioisotope techniques to medicine. 1 hour a week; 24 hours.

CP 522. **Radioisotope Laboratory.** Any term, hours to be arranged.

Laboratory experience with instruments used in radioisotope work.

DEPARTMENT OF MEDICINE

Howard P. Lewis, Chairman of Department

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

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

Clinical Professors: Huldriek Kammer, George B. Long, Frank Perlman,
Leon F. Ray, Thomas S. Saunders, William H. Sheldon, John E.
Tuhly, Franklin J. Underwood, Sheldon A. Walker

Associate Professors Emeriti: Isidor C. Brill, Robert S. Dow, Merle W.
Moore

Associate Professors: Richard E. Bailey, *Robert H. Bigley, J. David
Bristow, C. Conrad Carter, Jack H. Fellman, (Neurochemistry),
Jarvis Gould, Kenneth M. Halprin, John B. Isom, Donald G.
Kassebaum, John W. Kendall, Jr., Michael Litt, Manuel R. Malinow
(Primate Center), Robert E. Mass (Veterans Hospital), Robert D.
Michel, James F. Morris (Veterans Hospital), William A. Neill, Freder-
ic W. Smith (Veterans Hospital), Janice R. Stevens, Joseph B.
Trainer, Zolton T. Wirschafter (Veterans Hospital)

Associate Clinical Professors: Kurt W. Aumann, George A. Boylston, Paul R. Burgner, Frank W. Crowe, Joyle Dahl, Frederick A. J. Kingery, Edward E. Rosenbaum, Philip Selling, John W. Stephens

Assistant Professors: Michael D. Baird, Ernest J. Benner, Gordon A. Caron, Miles J. Edwards, Cyrus Farrehi (Veterans Hospital), Max A. Forse (Veterans Hospital), Peter J. Galante (Veterans Hospital), Robert D. Goldman, Myron R. Grover, Jr., Helmut Haas (Veterans Hospital), Gordon D. Haynie (Veterans Hospital), Frederick Hecht, Robert E. Kellum, Frank E. Kloster, Louis Lino (Neurochemistry), Everett W. Lovrien, †Richard B. Lyons, Clifford S. Melnyk, Victor Milstein, Robert H. Persellin, George A. Porter, Marvin B. Rittenberg (Microbiology), C. Evans Roberts (Clinical Pathology), John Gordon Roth (Primate Center), Geoffrey V. F. Seaman, James M. Watson (Veterans Hospital)

Assistant Clinical Professors: Samuel T. Beall, Arthur W. Berg, Charles W. Coffen, Aubrey M. Davis, Stella Fisher, John R. Flanery, Donald E. Forester, William P. Galen, Marvin C. Goldman, Morton J. Goodman, Marcus M. Horenstein, Jay C. Hoyt, William W. Hurst, Lewis J. Krakauer, Marion L. Krippaehne, John J. Krygier, Walter J. Kuhl, Aarne L. Lindgren, Ernest T. Livingstone, Guy R. McCutchan, Raymond A. McMahon, Laurence MacDaniels, John Clifton Massar, Roy R. Matteri, Gordon L. Maurice, Norbert Medved, Thomas E. Morris, John D. O'Hollaren, Donald E. Olson, Otto C. Page, Joseph F. Paquet, Heyes Peterson, Ralph B. Reaume, James A. Riley, George M. Robins, Wayne R. Rogers, Leonard B. Rose, Bernard F. Ryan, Marvin Schwartz, William C. Scott, John M. Shaw, John L. Soelling, William J. Swett, David K. Taylor, Charles W. Watkins, John B. Wild, Charles P. Wilson

Senior Clinical Instructors: William S. Beck, Arthur M. Bergman, John A. Blanchard, Bruce R. Chenoweth, William Cohen, Peggy J. Copple, Leo J. Freiermuth, Leonard M. Goldberg, Robert H. Gray, Robert L. Hare, Thomas S. Healy, Richard K. Kosterlitz, Paul O. Kretschmar, Merle M. Kurtz, John J. Murphy, John W. Partridge, Roy A. Payne, Robert E. Rinehart, Ralph E. Shambaugh, Donald W. Sutherland

Instructors: Reid S. Connell, Jr., Clifford A. Fratzke, Thomas S. Fujita, Wolfgang Hissen, Jack H. Hutchinson, Henrik A. B. Lundh (Veterans Hospital), C. Lawrence Lutcher

Clinical Instructors: Philip E. Blatt, Orville W. Boicourt, Donald B. Bowman, Michael T. H. Brodeur, Jack L. Chitty, Rodney L. Crislip, Conrad A. DeLateur, Richard F. Drake, William E. Drips, Jr., Harold P. Dygert, Jr., Donald G. Edwards, John H. Ellison, Eldon L. Erickson, William B. Evans, Stanton L. Freidberg, David C. Frisch, Donald P. Grettie, Richard L. Harris, Waldo E. Harris, Thomas M. Haun, William J. Hemphill, Ernest A. Lane, Albert E. Lerner, Walter G. Larsen, L. William Larson, T. David Lee, Jr., Robert B. McFadden, Robert G. McKillop, Stephen W. Maks, Harry W. Masenhimer, S. Spence Meighan, Walter E. Meihoff, Ruth L. Mercer (Dietetics), William R. Olson, Carl A. Petterson, Charles T. Pinney, Robert G. Pittenger, Troy G. Rollins, Donald T. Romanaggi, David R. Rullman, Irvin F. Rumbaugh, Herbert J. Semler, Will L. Senders, Kent Ronald Smith, Roy Glenn Snodgrass, George V. Squire, John H. Stalnaker, Henry E. Storino, Ralph R. Sullivan, Donald E. Tatum, Hugo Uhland, Robert D. Wilson, James V. Woodworth

† Leave of absence, July 1, 1966 to July 1, 1968

DESCRIPTION OF COURSES

Residents: Karl H. Hempel, Perry R. Sloop, Jr., Roger G. Smith. *Senior Assistant Residents:* Charles C. Boggs, John B. Hibbs, Jr., Curtis R. Holzgang, Edna L. Kremkau, Donald Olson, Marvin L. Powell, Donald K. Stott, Robert A. Vajda. *Junior Assistant Residents:* Joseph Callanan, David N. Gilbert, Leonard B. Cotton, Jr., Scott H. Goodnight, Jr., Walter J. McDonald, Trenton J. Spolar, Theodore A. Walters, Mark Wheeler

DIVISION OF CARDIOLOGY

Herbert E. Griswold, Head of Division

Professor Emeritus: **Homer P. Rush**

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

Clinical Professor: **Franklin J. Underwood**

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

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

Associate Clinical Professor: **Philip Selling**

Assistant Professors: **Frank E. Kloster, George A. Porter**

Assistant Clinical Professors: **Charles W. Coffen, Aubrey M. Davis, William P. Galen, William W. Hurst, Gordon L. Maurice, Ralph B. Reaume, James A. Riley, Wayne R. Rogers, Leonard B. Rose, Marvin Schwartz, William J. Swett, John B. Wild**

Senior Clinical Instructor: **Leonard M. Goldberg**

Clinical Instructors: **Orville W. Boicourt, Waldo E. Harris, Robert B. McFadden, Irvin F. Rumbaugh, Herbert Semler**

DIVISION OF CHEST DISEASES

Donald M. Pitcairn, Head of Division

Professors: **Donald M. Pitcairn, James T. Speros**

Instructor: **Jack H. Hutchinson**

Clinical Professor: **John E. Tuhy**

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

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

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

Senior Clinical Instructor: **William Cohen**

Clinical Instructors: **Charles T. Pinney, Robert D. Wilson**

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

DIVISION OF DENTAL AND ORAL MEDICINE

Clinical Professor: **Harold J. Noyes**

Assistant Professors: **John S. Gullikson, Wallace A. Schindler**

Senior Clinical Instructors: John Paul Jarabak, Donald F. Kelly (Pedodontics), Jan J. Muller, Robert S. Parker, Duane R. Paulson, Bhim S. Savara, Evelyn M. Strange, William B. Westcott, Le Grande H. Woolley

Assistant Clinical Professors: Robert J. Bruckner, Donald R. Porter, Norman H. Rickles, Wilbur N. VanZile

Clinical Instructors: John P. Dickson, Jay T. Estep, Eugene O. Kelley, John C. Peterson, James T. Rule, William E. Tracy

DIVISION OF DERMATOLOGY

Walter C. Lobitz, Jr., Head of Division

Professor Emeritus: Lyle B. Kingery

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

Clinical Professors: Leon F. Ray, Thomas S. Saunders, Sheldon A. Walker
Associate Professor: Kenneth M. Halprin

Associate Clinical Professors: Frank W. Crowe, Joyle Dahl, Frederick A. J. Kingery

Assistant Professors: Gordon A. Caron, Robert E. Kellum

Assistant Clinical Professors: John Clifton Massar, Bernard F. Ryan, John M. Shaw, Charles W. Watkins

Senior Clinical Instructor: Bruce R. Chenoweth

Clinical Instructors: Conrad A. DeLateur, David C. Frisch, William J. Hemphill, Albert E. Larner, Walter G. Larsen, Troy G. Rollins, Ralph R. Sullivan

Research Associates: Doris E. Brophy, Marie Dobson

Research Assistants: Mary Campbell, Ruth Fenton, Mary Lou Pearson, Joyce Stewart, Kathie Strangfeld

Fellows: Kiyomi Fukui, Akira Ohkawara, Jeffrey Pinto, Kenzo Sato, Stephen Silver, Joseph R. Taylor

Residents: Vernon R. Atkinson, Frances J. Judy, Alan B. Lachman, Don D. Martin, William J. Redfield, Barry Remington, Paul S. Russell, Robert H. Turner, Lawrence Wiwatowski, Richard C. Wright

DIVISION OF DIABETES AND METABOLISM

Daniel H. Labby, Head of Division

Professor: Daniel H. Labby

Associate Professor: Richard E. Bailey

Associate Clinical Professor: John W. Stephens

Assistant Clinical Professors: Marcus M. Horenstein, Otto C. Page

Senior Clinical Instructor: Robert L. Hare

Clinical Instructors: Eldon L. Erickson, Donald P. Grettie, Robert G. McKillop

Fellows: Larry T. Brice, Albert Castro, Orhan M. Under

Research Assistants: Dagmar Bartosova, Helen P. Pieters, Sharon Swan

DESCRIPTION
OF COURSES

DIVISION OF ENDOCRINOLOGY

Monte A. Greer, Head of Division

Professor: **Monte A. Greer**

Clinical Professor: **Huldrick Kammer**

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

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

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

Clinical Instructor: **Philip E. Blatt**

Research Fellows: **Finley Gibbs, Helmut Haibach, Akio Kahihara**

Research Assistants: **Catherine Allen, Yvonne Grimm, Carlo Rockie**

DIVISION OF GASTROENTEROLOGY

John A. Benson, Jr., Head of Division

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

Clinical Professor: **George B. Long**

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

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

Assistant Professor: **Clifford S. Melnyk**

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

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

Clinical Instructors: **John H. Ellison, Thomas M. Haun, Walter Meihoff**

DIVISION OF HEMATOLOGY AND
EXPERIMENTAL MEDICINE

Robert D. Koler, Head of Division

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

Associate Professors: †**Robert H. Bigley, Michael Litt**

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

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

Research Assistants: **Milton Case, Marlene Delay, Charlotte Head, Lee Henry, Edward Johnson, James Salyards**

DIVISION OF IMMUNOLOGY, ALLERGY, AND
INFECTIOUS DISEASES

Bernard Pirofsky, Head of Division

Professor: **Bernard Pirofsky**

Clinical Professor: **Frank Perlman**

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

Assistant Professors: **Ernest J. Benner, Marvin B. Rittenberg** (Microbiology), **C. Evans Roberts** (Clinical Pathology)

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

Clinical Instructors: **Donald T. Romanaggi, George V. Squire**

Research Assistants: **Anne August, Vance Hubbard, Virginia Morthland, Katherine Pratt, Marna Vaughn**

DIVISION OF MEDICAL GENETICS

Robert D. Koler, Head of Division

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

Associate Professors: †**Robert H. Bigley, Michael Litt**

Assistant Professors: **Frederick Hecht, Everett W. Lovrien, *Richard B. Lyons**

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

Research Assistants: **Milton Case, Marlene Delay, Charlotte Head, Lee Henry, Edward Johnson, James Salyards**

DIVISION OF NEUROLOGY

Roy L. Swank, Head of Division

Professor Emeritus: **Merl L. Margason**

Professor: **Roy L. Swank**

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

Associate Professors: **C. Conrad Carter, Jack H. Fellman** (Neurochemistry), **John B. Isom** (Pediatrics), **Janice R. Stevens**

Assistant Professors: **Louis Lino** (Neurochemistry), **Victor Milstein, John Gordon Roth** (Primate Center), **Geoffrey V. F. Seaman** (Neurochemistry), **James Mac D. Watson** (Veterans Hospital)

Assistant Clinical Professor: **Ian A. Brown**

Senior Clinical Instructor: **Peggy J. Copple**

Instructors: **Reid S. Connell, Jr., Thomas Fujita** (Neurochemistry), **Wolfgang Hissen**

Clinical Instructors: **Roy Glenn Snodgrass, Henry E. Storino**

Resident: **Donald V. Bishop**

DIVISION OF RHEUMATOLOGY

Daniel M. Bachman, Head of Division

Professor: **Daniel M. Bachman**

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

Assistant Professor: **Robert E. Persellin**

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

† Leave of absence, June 1, 1967 to May 31, 1968

* Leave of absence, July 1, 1966 to July 1, 1968

DESCRIPTION OF COURSES

Senior Clinical Instructors: Paul O. Kretschmar, Robert E. Rinehart
Research Assistants: Belle Canon, Marva Graham

Internal Medicine—Required Courses

Second Year

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

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

Third Year

Med 630. **Third-Year Medicine.** 21½ hours, one section each term.

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

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

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

Fourth Year

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

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

Med 658. **Medical Economics.** 1 hour spring.

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

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

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

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

All fourth-year students attend a Conference on Medical Therapy once weekly throughout the year, a General Clinical Conference, held by the departments of medicine and surgery, once weekly during their fourth-year medicine,

surgery, and obstetrics and gynecology assignments, and a six week period in the Dermatology Outpatient Clinic. Students also study selected psychiatric cases with the Department of Psychiatry.

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

Internal Medicine—Elective Courses

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

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

For third- and fourth-year students. Arrangements may be made with the head of a division of internal medicine.

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

Students may elect to conduct research in the various divisions of medicine by arrangement with the head of the division.

Med 605. **Reading and Conference: Chest Diseases.** Any term, hours to be arranged.

Conference with the medical resident and staff for the presentation of cases of special interest in the Hospital and Chest Outpatient Service, supplemented by cases from private practice which present current difficult problems in diagnosis and treatment.

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

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

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

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

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

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

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

Examination and discussion of hospitalized patients with endocrine disease in Multnomah Hospital and Medical School Hospital. Limited to 6 students. 2 hours a week for 12 weeks; 24 hours.

Med 693. **Human Genetics.** 1 hour spring term.

Clinical presentation and lectures designed to introduce students to genetic mechanisms in human disease. Material covered will include mechanism of gene action, population genetics and chromosomal abnormalities resulting in clinical disease. Lectures and demonstrations. 1 hour a week; 12 hours. (For second-year students.)

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

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

DESCRIPTION OF COURSES

Patient study 2 hours a week at any convenient time; rounds 2 hours a week; 48 hours.

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

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

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

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

Med 697. Hematological Cell Identification. $\frac{1}{2}$ 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.

Med 699. Marital and Premarital Counseling in Medical Practice. 1 hour winter.

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; 12 hours.

Dental and Oral Medicine—Required Course

Third Year

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

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

Dermatology—Required Courses

Third Year

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

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

Fourth Year

Derm 670. Dermatology Outpatient Clinic. $1\frac{1}{2}$ hours, one section each term.

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

Neurology—Elective Courses

Neu 691. Neurology Conference. 1 hour any term.

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

Neu 692. **Experimental Neurology.** Any term, hours to be arranged.

Research techniques in neurology, neurochemistry, and electroencephalography. Open to third- and fourth-year students.

Neu 693. **Clinical Clerkship in Advanced Neurology.** 1 hour any term.

Selected neurological cases studied and presented for discussion. Participation in combined neurological, neuroradiological and neurosurgical conferences. Selected studies in clinical neurology or in electroencephalography.

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

Ralph C. Benson, Chairman of Department

Professors: **Ralph C. Benson, Antonio E. Colas, Raphael B. Durfee**

Clinical Professor: **Howard C. Stearns**

Associate Professor: **John de Maria**

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

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

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

Clinical Instructors: **Phillip S. Alberts, LeRoy S. Caspersen, C. Louise Clancy, John E. Cleland, Betty Jo Davenport, Enrique M. DeCastro, Richard W. Franklin, Robert B. Greene, George S. Hara, William W. Hicks, Jr., Robert C. Jackson, Benjamin B. Jones, David W. Moore, Quinten Scherman, Elizabeth Schirmer, Sheldon Spielman**

Residents: **John O. Bergstrom, Raymond S. Corwin, John A. Enbom, Garron R. Hale, Conley G. Lacey, Barbara A. Manildi, Martin L. Pernoll, Loren P. Petersen, George H. Rice, Dean T. Watkins, Glenn H. Weyhrich, George F. Will, Jr.**

Required Courses

Third Year

Obs-Gyn 630. **Third-Year Obstetrics and Gynecology.** 10½ hours, one section each term.

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

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

Lectures, 2 hours each week, fall and winter terms, 48 hours. Obstetrics

DESCRIPTION OF COURSES

outpatient clinics, 18 hours a week for 6 weeks, manikin demonstrations, 2 hours a week for 6 weeks, in sections, 120 hours; gynecology outpatient clinics, 6 hours a week for 6 weeks, in sections; 36 hours. 204 hours.

Fourth Year

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

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

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

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

Elective Courses

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

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

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

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

DEPARTMENT OF OPHTHALMOLOGY

Kenneth C. Swan, Chairman of Department

Professor Emeritus: **Augustus B. Dykman**

Professor: **Kenneth C. Swan**

Clinical Professor: **E. Merle Taylor**

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

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

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

Senior Clinical Instructors: **Robert H. Bedrossian, W. Leigh Campbell, Walter R. Enders, Alfred J. Kreft, George P. Lyman, Richard E. Markley, Joseph I. Moreland, K. Nolan Tanner**

Senior Instructor: **Henry J. L. Van Dyk**

Clinical Instructors: **Robert C. Cowger, Donald W. Deering, James R. Delp, Clyde H. DuVall, Jr., Robert F. Haney, Donald R. Johnson, Richard A. Lalli, Robert N. Page, Jr., Paul J. Robinson, James A. Saunders, Gerald A. Terman**

Residents: **Donald Burress, George Casper, William F. Farr, John T.**

Flaxel, Alvin M. Klass, Pirooska Olga Kramer, Jay Miller, F. Temple Reikhof, Horace Robison

Required Courses

Third Year

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

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

Fourth Year

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

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

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

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

Elective Courses

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

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

DEPARTMENT OF OTOLOGY, RHINOLOGY, AND LARYNGOLOGY

David D. DeWeese, Chairman of Department

Professors: **David D. DeWeese, Jack A. Vernon**

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

Associate Professor: **Patrick J. Doyle**

Assistant Professors: **Robert E. Brummett, McKenzie W. Buck** (Speech Pathology) (Portland Center for Hearing and Speech), **Warren E. Johnson** (Speech Pathology) (Portland Center for Hearing and Speech), **Alexander J. Schleuning, T. Glenn Ten Eyck** (Veterans Hospital)

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

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

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

Residents: **Lester L. Bergeron, Maurice J. Comeau, Richard S. Egan, Lawrence T. Eschleman, George H. Fettus, Richard A. Hendricks, Darrell A. Kammer, Jr., Edward L. Korn, William R. Lee, G. Thomas Miller, Gordon W. Summers**

DESCRIPTION OF COURSES

Required Courses

Third Year

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

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

Fourth Year

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

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

Elective Courses

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

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

DEPARTMENT OF PEDIATRICS

Richard W. Olmsted, Chairman of Department

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

Clinical Professors: **Joseph B. Bilderback**, **Daniel K. Billmeyer**, **Scott Goodnight**, **Alvin D. Wert**

Associate Professors: **S. Gorham Babson**, **Richard E. Behrman** (Primate Center), **Robert W. Blakeley** (Speech Pathology), **Robert A. Campbell**, **Leroy O. Carlson**, **William M. Clark, Jr.**, **George W. Dana**, **Rudolf C. H. Engel**, **John B. Isom**, **Martin H. Lees**, **Robert J. Meechan**, **Victor D. Menashe**, **L. Paul Rasmussen**, **Norton B. Young** (Audiology)

Associate Clinical Professors: **John H. Benward**, **John W. Bussman**, **Quinten W. Cochran**, **Joseph T. Hart**, **John Arthur May**, **Edgar M. Rector**, **George J. Schunk**, **Lendon H. Smith**, **John L. Stevenson**, **Clemens W. Van Rooy**, **George F. Walliker, Jr.**

Assistant Professors: **Doris P. Bradley** (Speech Pathology), **Neil R. M. Buist**, **Wilma L. Carson**, **Warren H. Fay** (Speech Pathology), **Katherine S. French** (Anthropology), **Frederick Hecht**, **Everett W. Lovrien**, **David W. Macfarlane**, **Michael J. Miller**

Assistant Clinical Professors: **Carl G. Ashley**, **Henry L. Boehnke**, **Peggy J. Copple**, **Morton G. Eleff**, **Walter A. Goss**, **John R. Hansen**, **Edward L. Hendricks**, **William E. Hill**, **Peter L. Hurst**, **Donald F. Kelly**, **Harvey D. Klevit**, **Arthur D. Kracke**, **Oliver H. Massengale**, **Robert A. Mendelson**, **George A. Nash**, **Marilyn A. Nelson**, **James M. Pomeroy**, **David L. Sessions**, **William M. Snook**, **John H. Springer**, **Robert E. Thornfeldt**, **Charles Varga**, **James P. Whittmore**

Instructors: Clarence L. Morgan, Roberta S. Murray (Speech Pathology), Thomas L. W. Roe, Emily Tufts

Clinical Instructors: John R. Berry, Harold R. Blair, Charles K. Chapman, Allan K. Chappel, Jerome H. Dayton, Joseph L. Emmerich, Lynd L. Folts, Allen D. Harlor, Jr., James T. Hartford, Frank M. Jacobsen, Werner P. Meyn, E. Albert Moody, Ranvir H. Sinanan, Robert E. Stanton, William Tracy (Pedodontics), Frank A. Walker

Residents: Gerda Benda, Phyllis Cavens, Travis Cavens, Donald Fortlage, James A. Johnson, Ellen Mageniz, James Musgrave, James O'Dea, Thomas E. Olsen, Arthur Sherwood, Walter Sunderland, Gunnar Waage, Lawrence Wolff

Required Courses

Third Year

Ped 630. **Third-Year Pediatrics.** 11 hours, one section each term.

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

Fourth Year

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

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

Elective Courses

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

Ped 640. **Fetal Neonatal Death Conference.** $\frac{1}{2}$ hour, any term.

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

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

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

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

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

DESCRIPTION
OF COURSES

DEPARTMENT OF PSYCHIATRY

George Saslow, Chairman of Department

Professors: **Samuel Irwin** (Pharmacology), **George Saslow**

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

Associate Professors: **Paul H. Blachly**, **Lena Kenin**

Associate Clinical Professors: **Charles Bradley**, **John L. Butler**, **Kenneth D. Gaver**, **Carl V. Morrison**, **James G. Shanklin**

Assistant Professors: **D. Duane Denney**, **Richard L. Grant**, **Nancy Kosterlitz** (Psychiatric Social Work), **Alan L. Morgenstern**, **Ira B. Pauly**, **Arlen Quan**, **John S. Tovey** (Psychiatric Social Work)

Assistant Clinical Professors: **Thomas T. Bennett**, **Sigfried R. Berthelsdorf**, **Robert I. Daugherty**, **Leon J. Fine** (Group Processes), **Hans F. Fink**, **Gerhard B. Haugen**, **N. B. Jetmalani**, **Robert L. Mighell**, **Guy A. Parvaresh**, **Wayne M. Pidgeon**, **Robert E. Ransmeier**, **Robert E. Taubman**, **John H. Waterman**

Clinical Instructors: **James D. Bray**, **James J. Brophy**, **Charles C. Brown**, **Mary Jane Dubinski**, **Victor Gregory**, **Velma J. Horenstein**, **Critenden Huston**, **Grant B. Hughes**, **Robert O. Johnson**, **Charles H. Jones**, **George D. C. Kjaer**, **Reid R. Kimball**, **Robert C. Luther**, **William J. M. MacKenzie**, **Donald McKinley**, **James L. Petroske**, **Richard H. Phillips**, **David L. Sessions**, **Mary Anne Smith**, **Agnar A. Straumfjord**, **Daniel V. Voiss**, **John W. Wong**, **Ralph D. Worthylake**

Research Associate: **Frances G. Scott**

Residents: **F. William Allport**, **Douglas R. Bottomly**, **David D. Hollenbeck**, **F. Michael Irwin**, **Charles E. Johnston**, **R. Terry Jones**, **Ben R. Kuhner**, **Donald A. Molde**, **Theodore P. Utt**, **Dennis E. Venzon**, **Daniel L. Wesche**, **Jean C. Wivel**

Required Courses

Second Year

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

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

Third Year

Psy 615. **Child Psychiatry.** 1 hour spring.

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

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

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

PUBLIC HEALTH
AND
PREVENTIVE
MEDICINE

Fourth Year

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

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

Elective Courses

Psy 601. **Research in Psychiatry.** Any term, hours to be arranged.

Psy 605. **Reading and Conference in Psychiatry.** Any term, hours to be arranged.

Psy 607. **Seminar in Psychiatry.** Any term, hours to be arranged.

DEPARTMENT OF PUBLIC HEALTH AND
PREVENTIVE MEDICINE

Harold T. Osterud, Acting Chairman of Department

Professor: **Harold T. Osterud**

Associate Professor: **William E. Morton**

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

Instructor: **Richard L. Lessel**

Clinical Instructors: **Peter J. Batten, Gatlin Brandon, William E. Creighton, John H. Donnelly, Edward Goldblatt, Monroe A. Holmes, Marian M. Martin, Thomas L. Meador, Samuel B. Osgood, David M. Witter**

Research Assistant: **Barbara Forsythe Anderson**

DIVISION OF ENVIRONMENTAL MEDICINE

Raymond R. Suskind, Head of Division

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

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

Assistant Professor: **Barrington T. Allen**

Assistant Clinical Professor: **Hilton W. Rose**

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

Clinical Instructor: **John T. Redfield**

Research Associate: **Marie Dobson**

Research Assistants: **Gladys Christian, Kenneth Hegge, Jeanne Carol Hopkins**

Required Course

First Year

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

Introduction to elementary statistics useful in medical practice and research. Lectures, 2 hours a week; laboratory, 2 hours a week. 48 hours.

DESCRIPTION OF COURSES

Second Year

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

Environmental factors in health and disease, including air, water, excreta, temperature, humidity, ventilation, etc. Lectures and recitations, 1 hour a week. 12 hours.

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

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

Third Year

PH 511. **Principles of Public Health.** 2 hours winter, 1 hour spring.

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

Elective Courses

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

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

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

DEPARTMENT OF RADIATION THERAPY

Clifford V. Allen, Chairman of Department

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

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

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

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

DEPARTMENT OF RADIOLOGY

Charles T. Dotter, Chairman

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

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

Associate Professors: **Marcia K. Bilbao, Melvin P. Judkins**

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

Associate Clinical Professors: **James B. Haworth, Kurt R. Straube**

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

Clinical Instructors: **Gregory B. Nichols, Arthur L. Ovregaard, Ronald W. Philips, William E. Purnell, Gordon A. Stoney, Hans G. Wandel, Cameron J. Wiley**

Research Associates: **Thomas B. Hutchens, IV, Josef Rösch**

Residents: Gilbert M. Cordova, Lyle E. Crecelius, Gerald S. Green, William L. Hebard, Leslie W. Inman, William A. Smullen, William E. Spies, Walter R. Stahl, Kenneth R. Stevens, George Takushi, Robert E. Vann, David L. Wishart

Required Course

Third Year

Rad 615. **Radiographic Diagnosis.** 1 hour each term, fall, winter, spring.

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

Elective Course

Rad 690. **Radiographic Diagnosis.** Any term, hours to be arranged.

Practical experience derived from interpretation of cases from the current files; correction and discussion of student's reports at weekly seminar, final dictation by members of staff. Enrollment limited.

DEPARTMENT OF SURGERY

William W. Krippaehne, Chairman of Department

Professor Emeritus: Eugene W. Rockey

Professors: William W. Krippaehne, Clare G. Peterson

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

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

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

Assistant Professors: William C. Awe, John R. Campbell, Daniel L. Dennis, Everill W. Fowls (Physical Therapy) (Veterans Hospital), Robert W. Marcum, Ralph D. Robertson

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

Senior Clinical Instructors: Richard P. Andrews, John W. Bassett, Darrell C. Bollam, John G. P. Cleland, Arch Diack, Thomas J. Fox, Guy W. Gorrell, Russell G. Gustavson, Roger W. Hallin, Theodore L. Hyde, Roderick L. Johnson, Verner V. Lindgren, H. Minor Nichols, Philip F. Parshley, Jr., George A. Peirson (Physical Medicine), Joseph M. Roberts, Willard D. Rowland, Ambrose B. Shields, Dan M. Steffanoff

Clinical Instructors: Jack E. Battalia, Frederic H. Bentley, Fred W. Biecker, Jack B. Blumberg, Paul M. Brown, Nathan J. Campbell, Donald L. Cleland, Keith M. Clisby, Hugh Donald Colver, Peter DeWitt, Harry B. Dittmore, Zanley C. Edelson, Lester H. Eisen-dorf, Paul D. Foster, J. George Grout, George Thomas Harding, Jr., Bernard P. Harpole, John F. Hayes, Toshio Inahara, Reinhold Kanzler, Harley D. Kelley, Gary H. Leaverton, G. Prentiss Lee,

DESCRIPTION OF COURSES

Richard H. Lindquist, R. Kent Markee, Willard L. Matheison, Roland M. Mayer, James V. Meyer, David B. Miller, Jr., Raymond E. Moore (Physical Medicine), Jack Naylor, Robert W. Patton, Irving Puziss, Daniel L. Reed, Melvin M. Reeves, Walter C. Reiner, Keith A. Robertson, William M. Rosenbaum, Nathan Schlim, Richard D. Sloop, Philip A. Snedecor, Eugene S. Sullivan, Robert H. Tinker, Paul Trautman, Alvin O. Uhle, Linton G. Weed, James W. Wiley, Gregg D. Wood

Research Associate: Don C. Wood

Residents: John H. Affleck, Cordell H. Bahn, Benjamin F. Balme, Bolek Brant-Zawadski, Bruce Buck, Timothy J. Campbell, Langley R. Collis, Larry R. Eidemiller, Thomas J. Fogarty, Richard A. Gingrich, Christopher W. Hauge, David L. Haugen, Stuart W. Leafstedt, William H. Massey, James L. Murdock, James T. Pappas, James A. Roman, Ronald S. Speigle, Donald B. Stark

DIVISION OF ANESTHESIOLOGY

Frederick P. Haugen, Head of Division

Professor: Frederick P. Haugen

Associate Professor: John Clarence Roth

Associate Clinical Professor: Rex J. Underwood

Assistant Professor: David Gowing

Senior Instructor: Betty B. Thompson

Senior Clinical Instructor: Ellery L. Landers

Instructors: S. Hope Davidson, Alice M. Shannon

Clinical Instructors: John O. Branford, Donald M. Brinton, Genevieve S. Burk, Donald P. Dodson, Clarence H. Hagmeier, James V. Harber, Marion E. Palmer, Paul E. Schaff

Residents: Joyce E. Braun, Galen H. Coffin, Robert H. Gustafson, Bhawar Singh, Lauren K. Stanley

DIVISION OF CARDIOPULMONARY SURGERY

Albert Starr, Head of Division

Professor: Albert Starr

Clinical Professor: William S. Conklin

Associate Professor: Rodney H. Herr

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

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

Assistant Professor: John C. Bigelow (Veterans Hospital)

Residents: Robert P. Hodman, U. Scott Page

DIVISION OF NEUROSURGERY

Professors: George M. Austin, Harold D. Paxton

Clinical Professor: John Raaf

Associate Clinical Professor: Edward W. Davis

Assistant Professors: Makato Sato, George W. Schemm

Assistant Clinical Professor: Edward K. Kloos

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

Residents: Curtis L. Hill, Hirohisa Ono, Mian Mohammad Tahir, Calvin Tanabe

DIVISION OF ORTHOPEDIC SURGERY

William E. Snell, Head of Division

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

Professor: William E. Snell

Clinical Professor: Eldon G. Chuinard

Associate Professor: Rodney K. Beals

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

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

Senior Clinical Instructors: Thomas J. Boyden, Paul Campbell, Raymond A. Case, Jr., Lawrence J. Cohen, George W. Cottrell, Charles A. Fagan, *Calvin E. Gantenbein, Joseph H. Gill, Harry E. Groth, Orville N. Jones, Calvin H. Kiest, Jr., Lawrence R. Langston, James A. Mason, Edwin G. Robinson, Faulkner A. Short

Clinical Instructors: Michael Baskin, Charles R. Boge, Howard L. Cherry, McGregor L. Church, Winfred H. Clarke, Arthur L. Eckhardt, Thomas A. Edwards, Richard P. Embick, Robert J. Fry, Louis Phaon Gambee, Howard J. Geist, Samuel F. Gill, John Harder, John R. Hazel, Carl L. Holm, Robert L. Larson, Norman L. Logan, Robert G. McKillop, Rolland C. Merrifield, Samuel Osborn, Robert M. Ranking, Michael R. Rask, Thad C. Stanford, John W. Thompson, Richard C. Zimmerman

Residents: Charles Bird, Robert Chuinard, Thomas E. Fagan, Michael H. Graham, George W. Ingham, Edwin A. Kayser, Jr., James D. Kunzman, Gerald Lisac, James D. Nelson, Ilmar Soot, Frederick D. Wade, Ira M. Yount

DIVISION OF UROLOGY

Clarence V. Hodges, Head of Division

Professor: Clarence V. Hodges

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

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

Assistant Professor: Dietrich Kirchheim

Assistant Clinical Professors: Emerson J. Collier, Curtis A. Macfarlane, David P. Paull, Arnold Rustin, John G. Vandenberg

* Leave of absence.

DESCRIPTION OF COURSES

Senior Clinical Instructors: G. Donald Beardsley, Robert B. Greene, Jr.

Clinical Instructors: Charles E. Catlow, Jr., Luis E. Halpert, Robert L. Kalez, Ivan L. Sandoz, Jerome C. Weeber, Gerald F. Whitlock

Instructor: Jerry D. Giesy

Residents: Arlen B. Burns, Walter A. Derrick, Leland R. Ellis, Thomas W. Friedland, Thomas C. Honl, David A. Kimball, Russell K. Lawson, Ernest A. Norehad, Harper D. Pearse, Dayton R. Seabaugh, Jr., Clifford O. Stranburg

General Surgery—Required Courses

Second Year

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

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

Third Year

Sur 630. Third-Year Surgery. 20½ hours, one section each term.

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

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

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

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

Fourth Year

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

The fourth-year course is designed to give the student close continuous con-

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

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

Students spend six weeks on General Surgery including animal surgery experience and two weeks on Neurosurgery. Lectures in Urology (fall) and General Surgery (winter), 24 hours; General Clinical Conference, 24 hours; General Surgical Clinic, 24 hours; General Surgery Clerkship, 192 hours; Experimental Surgery, 24 hours; Neurosurgery Clerkship, 72 hours; 336 hours. 360 hours.

General Surgery—Elective Courses

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

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

Anesthesiology—Elective Course

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

Neurosurgery—Elective Courses

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

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

Neu Sur 640 **Differential and Regional Neurosurgical Diagnosis and Therapeutics.** $\frac{1}{2}$ 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.

Orthopedic Surgery—Elective Courses

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

Orth Sur 690. **Orthopedic Outpatient Clinic.** Any term, hours to be arranged. Elective credit is given for completion of clinical work in the division in addition to that required in the regular Outpatient Clinic course.

Urology—Elective Courses

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

Ur 690. **Urology Outpatient Clinic.** Any term, hours to be arranged. Elective credit is given for completion of clinical work in the division in addition to that required in the regular Outpatient Clinic course.





5

OTHER INSTRUCTIONAL PROGRAMS

Medical Technology

Tyra T. Hutchens, Director of Medical Technology Program

Mary E. Baptist, Teaching Supervisor

Professor: **Tyra T. Hutchens**

Associate Professor: **James L. Bramhall**

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

Assistant Professors: **Margaret E. Berroth, James E. Haines, Martha L. Hamilton, Victor C. Marquardt, C. Evans Roberts**

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

Instructors: **Mary E. Baptist, Patricia A. Chadwick, John D. Koontz, James A. Wilkinson**

Clinical Instructor: **David J. Brown**

Assistants to the Teaching Supervisor: **Dorothy B. Chambers, Claudia L. Dudley, Howard W. Green, Janice R. Kellogg, Allan R. Kimmey, Kiyomi K. Kimura, Evi Kink, Wallace H. Matsumura, Rose Parker, Harry Seto**

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

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

Textbooks and uniforms are supplied by the student. There are a limited number of dormitory rooms for women; application may be made through the Women's Residence Director, 707 S.W. Campus Drive, Portland, 97201.

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

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

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

MEDICAL
TECHNOLOGY

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

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

Fees. Students in medical technology who are residents of Oregon pay a fee of \$127.00 a term; nonresident students pay a fee of \$237.00 a term.

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

Calendar

Fall Term, 1967

September 11 through September 16.....Registration; laboratory orientation
September 12, *Tuesday*.....Last day for payment of fees
September 18, *Monday*.....Instruction begins
November 23, *Thursday*.....Thanksgiving Day Holiday
December 2, *Saturday*Fall term ends

Winter Term, 1967-1968

December 4, *Monday*.....Registration; instruction begins
December 5, *Tuesday*.....Last day for payment of fees
December 23, 1967 through January 1, 1968.....Christmas vacation; laboratory instruction continues
February 24, *Saturday*.....Winter term ends

Spring Term, 1968

March 4, *Monday*Registration; instruction begins
March 5, *Tuesday*Last day for payment of fees
May 18, *Saturday*Spring term ends

Fall Term 1968

September 9 through September 14.....Registration; laboratory orientation
September 16, *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.

OTHER
INSTRUCTIONAL
PROGRAMS

Curriculum in Medical Technology

	Term hours
Fall Term	
MT 410. Clinical Bacteriology	4
MT 413. Laboratory Orientation	2
MT 424. Clinical Biochemistry	5
MT 430. Principles of Hematology	5
†CP 520. Radioisotope Techniques	1
	17
Winter Term	
MT 411. Clinical Bacteriology	6
MT 425. Clinical Biochemistry	6
MT 431. Special Hematology	3
†CP 521. Radioisotope Techniques	1
	16
Spring Term	
MT 414. Urinalysis	4
MT 420. Histological Technique	2
MT 432. Immunohematology	3
MT 436. Applied Serology	4
MT 437. Clinical Parasitology	3
†CP 522. Radioisotope Laboratory	1
	17

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

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

MT 413. **Laboratory Orientation.** 2 hours fall.

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

MT 414. **Urinalysis.** 4 hours spring.

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

MT 420. **Histological Technique.** 2 hours spring.

Principles of tissue fixation, dehydration, and staining, with special emphasis upon the methods used in histopathological technique: Lecture, 1 hour a week; laboratory, 3 hours a week; 44 hours.

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

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

MT 430. **Principles of Hematology.** 5 hours fall.

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

MT 431. Special Hematology. 3 hours winter.

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

MT 432. Immunohematology. 3 hours spring.

The principles of immunohematology as applied to blood banking with special emphasis upon blood groups and types, and techniques demonstrating antigen-antibody reactions; donor collection, processing and storage, and hazards of transfusions; blood components; medical-legal aspects. Lectures, 2 hours a week; laboratory, 3 hours a week; 55 hours.

MT 436. Applied Serology. 4 hours spring.

The principles of serological phenomena in the laboratory. The factors influencing precipitin, flocculation, and complement fixation tests as applied to serum diagnosis of disease. Special consideration of flocculation and complement fixation tests as they apply to the diagnosis of syphilis. Lectures, 2 hours a week; laboratory, 6 hours a week; 88 hours.

MT 437. Clinical Parasitology. 3 hours spring.

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

Elective Courses

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

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

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

Faculty

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

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

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

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

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

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

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

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

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

B.S. (1950), Massachusetts; MT (ASCP) 1957.

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

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

†**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., Assistant Professor of Clinical Pathology (1957).

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

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

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

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

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

† Volunteer.

*OTHER
INSTRUCTIONAL
PROGRAMS*

- John D. Koontz**, B.S., Instructor in Clinical Pathology (1963).
B.S. (1954), Oregon M.T. (ASCP) 1952.
- †**Eugene W. Landreth**, M.D., Assistant Clinical Professor of Clinical Pathology (1957).
B.S. (1946), M.D. (1948), Oregon.
- †**James H. Lium**, M.D., Associate Clinical Professor of Clinical Pathology (1953).
B.S. (1944), M.D. (1946), Oregon.
- Victor C. Marquardt, Jr.**, M.D., Assistant Professor of Clinical Pathology (1964).
B.A. (1953), Wesleyan; M.D. (1957), Nebraska.
- †**Albert A. Oyama**, M.D., Assistant Clinical Professor of Pathology and Clinical Pathology (1959).
B.S. (1951), M.D. (1953), Oregon.
- †**Nigel A. Pickering**, M.D., Assistant Clinical Professor of Clinical Pathology (1961).
M.D. (1945), Manitoba.
- C. Evans Roberts**, M.D., Assistant Professor of Clinical Pathology (1966).
B.A. (1953), Haverford; M.D. (1957), Columbia.

Assistants to the Teaching Supervisor

- Dorothy B. Chambers**, B.S., Specimen Collection Technique.
B.S. (1958), Marylhurst; M.T. (ASCP), 1949.
- Claudia L. Dudley**, B.S., Clinical Chemistry Technique.
B.S. (1958), Oregon; M.T. (ASCP), 1959.
- Howard W. Green**, Clinical Bacteriological Technique.
Spec. C. (ASCP), 1966.
- Janice R. Kellogg**, B.S., Clinical Immunohematology and Serology Technique.
B.S. (1964), Oregon; M.T. (ASCP), 1965.
- Allan R. Kimmey**, B.S., Clinical Chemistry Technique.
B.S. (1963), Oregon State; M.T. (ASCP), 1964.
- Kiyomi K. Kimura**, Clinical Hematology Technique.
M.T. (ASCP), 1965.
- Evi Kink**, B.S., Clinical Bacteriology Technique.
B.S. (1959), Oregon; M.T. (ASCP), 1960.
- Wallace H. Matsumura**, B.A., Clinical Immunohematology and Serology Technique.
B.A. (1952), Hawaii; M.T. (ASCP), 1955.
- Rose M. Parker**, Clinical Hematological Technique.
R.T. (1959), A. R. T. (Hema), 1964.
- Harry Seto**, B.S., Clinical Radioisotope Technique.
B.S. (1955), Oregon; M.T. (ASCP), 1956; N.M. (ASCP), 1964.
- James A. Wilkinson**, B.S., Instructor in Medical Technology (1966).
B.S. (1962), Oregon; M.T. (ASCP), 1963.

† Volunteer.

Graduate Studies

The University of Oregon Medical School offers graduate programs in the basic medical sciences, leading to the Master of Science and Doctor of Philosophy degrees; the degrees are conferred by the University of Oregon upon recommendation of the faculty of the Medical School. A combined program leading to both medical and basic science graduate degrees is also offered. Work leading to the Master of Science or Doctor of Philosophy degree is offered in anatomy, biochemistry, medical psychology, microbiology, pathology, pharmacology, and physiology. The master's degree is offered in medical technology also. A Ph.D. degree in speech pathology and audiology is offered jointly by the speech department of the University of Oregon and the Medical School's Crippled Children's Division. Students meet admission requirements and follow graduate school regulations of the University of Oregon.

Recommended Preparation for Graduate Work

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

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

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

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

Medical Psychology: general and advanced psychology.

Microbiology: general microbiology.

Pathology: advanced courses in biology and chemistry.

Pharmacology: physical chemistry, advanced organic chemistry.

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

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

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

Admission to Graduate Status

Admission to graduate-student status is contingent upon (1) application by the student on forms available from the Registrar of the Medical School, (2) recommendation by the chairman of the department in which the student desires to work, and (3) approval by the Graduate Council and the Dean of the Medical School.

OTHER INSTRUCTIONAL PROGRAMS

As a part of the application data, satisfactory scores on the aptitude test and on one or more of the advanced-test portions of the Graduate Record Examination are required to be furnished by the applicant. Only candidates with superior college records or presenting other clear evidence that they have a capacity for productive scholarship will be considered. The qualifications of students expecting to continue graduate studies after receiving a master's degree will be reviewed by the Graduate Council.

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

Standards of Performance

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

Dismissal

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

Admission to Candidacy for a Graduate Degree

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

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

Requirements for Graduate Degrees

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

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

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

(b) For the degree of Doctor of Philosophy a total of 135 term hours of graduate credit is required. Of this total, a minimum of 100 hours must be credit in the major department. The student must also complete work in a minor field or fields: a minimum of 20 hours of credit if he wishes to graduate with a single minor. Arrangements may be made for fulfilling the minor credit requirements in more than one field, subject to the approval of the Graduate Council.

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

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

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

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

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

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

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

Candidates for the Doctor of Philosophy degree who have already earned the Doctor of Medicine degree may apply a maximum of 45 term hours of credit (one

OTHER INSTRUCTIONAL PROGRAMS

academic year) in the basic medical sciences toward the advanced degree. Duplicate enrollment as a medical student working toward the degree of Doctor of Medicine and as a graduate student working toward the degree of Doctor of Philosophy is not allowed.

Registration and Payment of Fees

Registration for graduate study in any graduate program must be renewed quarterly and study programs arranged at the beginning of each term. Dates for registration and payment of fees conform to the dates indicated in the calendar of the Medical School. (See page 8). The student is responsible for the arrangement of his course schedule by agreement with the chairman of his major department and the instructors teaching the desired courses.

Fees for graduate study are payable at the beginning of each term according to the schedule listed on page 18.

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

School of Nursing

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

(1) The Bachelor of Science degree is designed for two types of students: one is the student with no previous preparation in nursing; the other is the student who is a graduate of a hospital or community college school of nursing.

(a) The student with no previous preparation in nursing enrolls for the program that prepares her 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. This program is four academic years and one summer term in length.

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

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

(b) The registered nurse student enrolling in this program must be a graduate of an approved community college or hospital school of nursing. This program differs in specific content and sequence from the program for students with no preparation in nursing but is designed to attain the same goals.

The student in this program may be allowed some credits in nursing for previous work, either in the form of transfer credits from an associate degree program,

or the hospital school graduate is allowed credit in nursing on the basis of results of comprehensive examinations on selected nursing courses administered at the University of Oregon School of Nursing. The comprehensive examination is required of all graduates of associate degree and hospital programs. The student who does not elect to challenge course content through equivalency examinations will take the same courses as the student without previous nursing preparation.

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

The baccalaureate program includes preparation in public health nursing.

(2) 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.

A catalog containing detailed information about the programs of the School of Nursing may be obtained by writing to the Director, University of Oregon School of Nursing, Portland 97201.

Radiologic Technology

The Department of Radiology of the University of Oregon Medical School offers a two-year course of training for radiologic technologists. The course, which was established in 1930, is approved by the Council on Medical Education and Hospitals of the American Medical Association and by the American Registry of Radiologic Technologists.

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

No tuition is charged during the period of training; however, the student must provide his own books, supplies, uniforms, and incidental fees. During the second year the student receives a stipend of \$50.00 per month.

The course includes lectures in anatomy, physiology, physics, and X-ray equipment, and lectures and clinical experience in darkroom chemistry and procedures, X-ray techniques, positioning of patients, hospital ethics, record keeping, department operation, radiation therapy. Students receive clinical experience in special X-ray procedures during their second year of training. All instruction is under the direction of the chairman of the Department of Radiology of the University of Oregon Medical School.

Fifteen students are admitted annually on July 1. Applications should be submitted to the Director of the course in Radiologic Technology, Department of Radiology, University of Oregon Medical School Hospitals and Clinics.

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

OTHER INSTRUCTIONAL PROGRAMS

Cytotechnology

A six-month course in cytotechnology is offered by the Medical School's department of pathology to students with a minimum of two years (60 semester or 90 quarter hours) or credit from an accredited college or university. Twelve semester or 18 quarter hours in biology must be included. Four students are accepted into the program, which is conducted in the pathology laboratories of the University of Oregon Medical School, on July 1 and January 1 of each year. No tuition is charged. To complete training, an additional six months of apprentice work in an approved cytology laboratory is required. Each trainee receives uniforms, laundry and a stipend of \$225 per month during the six months of formal training. The program in cytotechnology is approved by the Council of Medical Education of the American Association.

Hospital Dietetics

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

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

During the twelve-month training period at the Medical School, the student pays no tuition but provides her own supplies, including uniforms. Students receive complete maintenance and an allowance of \$100 per month.

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

Internship and Residency Programs

The internship program of the University of Oregon Medical School Hospitals and Clinics is approved by the Council on Medical Education and Hospitals of the American Medical Association. The hospitals participate in the National Internship Matching Program. The interns who receive training in the Medical School Hospitals and Clinics (currently 36) have a twelve-month rotating internship in both the Medical School Hospital and Multnomah Hospital. All patients in the hospitals and clinics are house cases and are under the personal care of an intern, who is responsible to the resident and attending faculty member responsible for the service. Internship appointments are effective June 26.

One of the important functions of a medical school is the training of physicians in the medical specialties. The demand for such training has greatly increased in recent years. In response, the Medical School residency program has been expanded to provide approximately 170 appointments. Residency training follows one year of internship and consists of two to five years of study devoted entirely to one specialized field of medicine. Instruction is given both in clinical departments and in related basic science departments of the School.

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

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

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

Continuing Medical Education

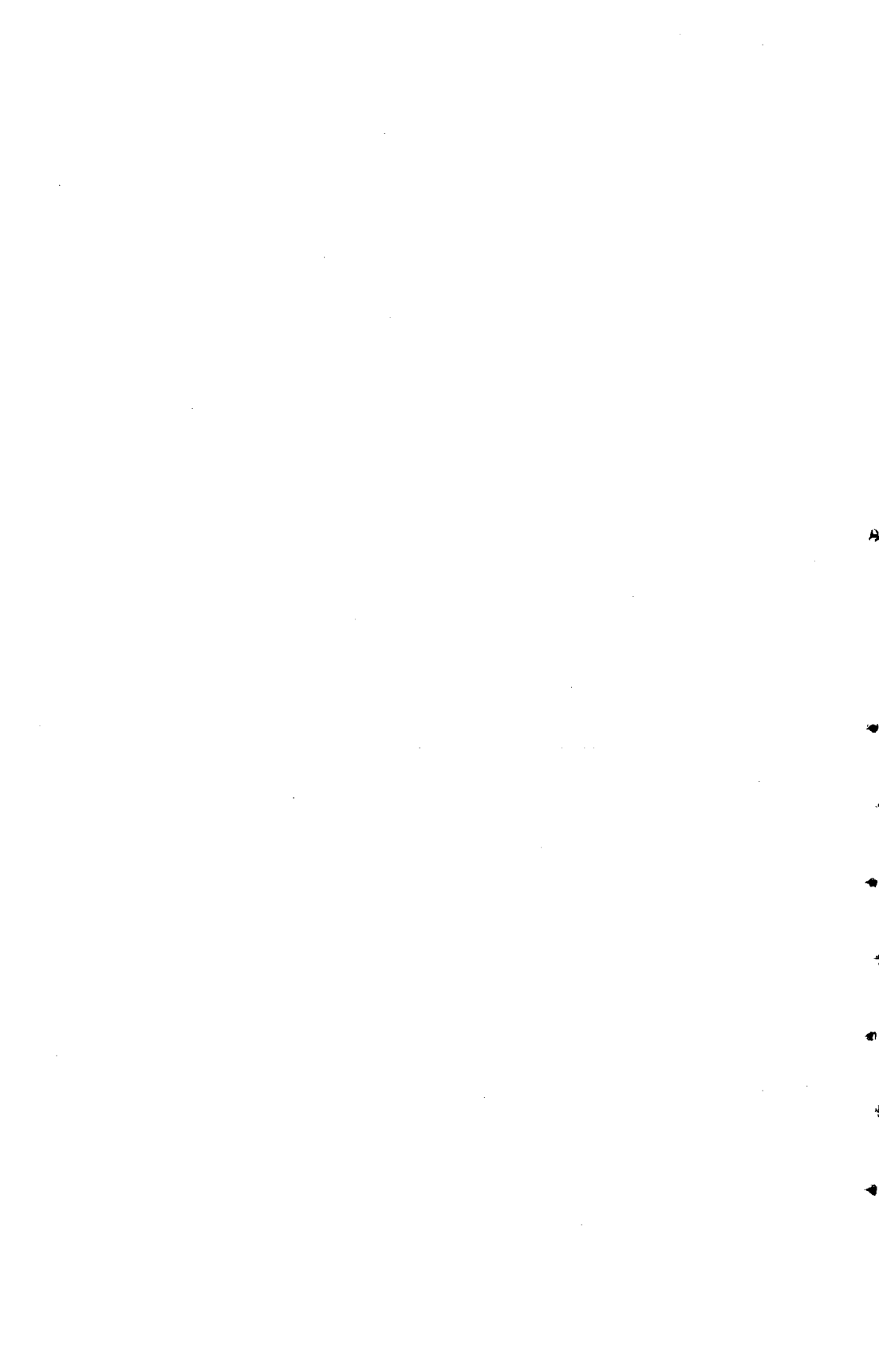
The physician is motivated to pursue the scholarly habit of life-long learning because of his desire to provide the best possible care for his patients. There are five basic ways to achieve this goal:

- a. The daily requisition of new knowledge by reading carefully selected textbooks and periodicals in a home library sanctuary.
- 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. Finally, 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, the method of presentation depending upon the subject. In addition, several circuit psychiatry and general medicine courses are held in various parts of Oregon.

Enrollment is open to any graduate of an approved medical school who is licensed to practice in his state of residence. The fee for each course is usually \$20.00 per day.

Any physician meeting the eligibility requirements stated above may attend any of the regularly scheduled clinical teaching activities in the hospitals and clinics without official enrollment and without payment of fees.



6

MEDICAL SCHOOL FACULTY



Executive Faculty

David W. E. Baird, Dean of the Medical School; Joseph J. Adams, Clifford V. Allen, Ralph C. Benson, John M. Brookhart, Norman A. David, David D. DeWeese, Charles T. Dotter, Arthur W. Frisch, Jarvis Gould, Hance F. Haney, Frederick P. Haugen, Charles N. Holman, Tyra T. Hutchens, Richard T. Jones, Robert D. Koler, William W. Krippaehne, Howard P. Lewis, Walter C. Lobitz, Jr., Joseph D. Matarazzo, Richard W. Olmsted, Edwin E. Osgood, Anthony A. Pearson, George Saslow, Richard L. Sleeter, Kenneth C. Swan, Sefton R. Wellings, William A. Zimmerman (Secretary).

STANDING COMMITTEES OF THE FACULTY

Admissions and Advanced Standing—Hance F. Haney (Chairman), Robert L. Bacon, Michael D. Baird, Joseph D. Matarazzo, Robert J. Meechan, Joseph B. Trainer, Caroline H. Pommarane (ex officio)

Animal Care—James Metcalfe (Chairman), William S. Fletcher, M. Ronald Parelius, Alfred J. Rampone, Allan L. Rogers, Roy L. Swank, Wilbert R. Todd, Sefton R. Wellings, William A. Zimmerman

Clinical Review and Investigational Drug—Norman A. David (Chairman), Robert H. Bigley, George W. Dana, Arthur W. Frisch, Stanley W. Jacob, M. Ronald Parelius, Ira B. Pauly, Richard F. Thompson

Curriculum and Schedule—William W. Krippaehne (Chairman), Joseph J. Adams, John A. Benson, Jr., Paul H. Blachly, Robert A. Cooper, Jr., Richard L. Dobson, Raphael B. Durfee, Richard T. Jones, Harold T. Osterud, Anthony A. Pearson, Richard L. Sleeter, William E. Snell

Graduate Council—John M. Brookhart (Chairman), Robert L. Bacon, John D. Gabourel, Howard S. Mason, Joseph D. Matarazzo, Evelyn L. Oginsky, Sefton R. Wellings, Joseph J. Adams (ex officio)

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

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

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

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

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

Radioisotope—Tyra T. Hutchens (Chairman), Clifford V. Allen, Edwin E. Osgood, Demetrios A. Rigas, Harry Shaich

Research—Walter C. Lobitz, Jr. (Chairman), J. Peter Bentley, William S. Fletcher, Robert D. Koler, James Metcalfe, Alfred J. Rampone, Richard F. Thompson, M. Ronald Parelius (ex officio)

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

Student Faculty—Faculty Members: **Frederick P. Haugen** (Chairman), **Clifford V. Allen**, **Robert L. Bacon**, **Howard P. Lewis**, **Robert J. Meehan**, **Ernest A. Meyer**, **Kenneth A. Niehans**, **Clare G. Peterson**
 Student members are elected for one- or two-year terms.

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

Emeritus Faculty

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

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

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

Robert S. Dow, M.D., Ph.D., Associate Professor Emeritus of Neurology.
 B.S. (1929), Linfield; M.A. (1934), Ph.D. (1935), Oregon.

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

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

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

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

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.

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

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

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.

MEDICAL
SCHOOL
FACULTY

*Faculty**

- †**John F. Abele, M.D.**, Assistant Clinical Professor of Orthopedic Surgery (1946).
B.A. (1930), M.D. (1934), Oregon.
- †**John C. Adams, M.D.**, Clinical Professor of Surgery (1932).
B.S. (1922), University of Washington; M.D. (1926), Oregon.
- Joseph J. Adams, B.B.A.**, Assistant Dean; Professor (1951).
B.B.A. (1949), Gonzaga.
- Mary Ann Ademino, B.A.**, Director of Publications; Instructor (1965).
B.A. (1964), University of Washington.
- †**H. Victor Adix, M.D.**, Senior Clinical Instructor in Otolaryngology (1934).
B.A. (1928), M.D. (1930), Oregon; M. Med. Sc. (1933), Pennsylvania.
- †**Phillip S. Alberts, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1964).
B.A. (1953), M.D. (1958), Nebraska.
- †**Bruce K. Alexander, Ph.D.**, Assistant Professor of Medical Psychology (Primate Center) (1967).
A.B. (1961), Miami; M.S., Ph.D. (1966), Wisconsin.
- Barrington T. Allen, Ph.D.**, Assistant Professor of Environmental Medicine (1966).
B.Sc. (1958), Ph.D. (1961), University of Southampton (England).
- Clifford V. Allen, M.D.**, Professor of Clinical Pathology (Radioisotopes) and Radiology; Chairman, Department of Radiation Therapy (1955).
M.D. (1933), Iowa.
- Daphne Allen, M.Libr.**, Serials Librarian; Instructor (1965).
B.A. (1964), Portland State; M.Libr. (1965), Washington.
- †**Alfred A. Amkraut, Ph.D.**, Assistant Professor of Microbiology (Primate Center) (1964).
B.A. (1949), California; M.S. (1955), New York; Ph.D. (1963), Stanford.
- †**Richard P. Andrews, M.D.**, Senior Clinical Instructor in Surgery (1963).
B.S. (1949), Denison; M.D. (1953), Harvard.
- †**Laurence M. Ashley, Ph.D.**, Lecturer in Pathology (1966).
B.S. (1930), Michigan State; M.A. (1932), Michigan; Ph.D. (1945), Southern California.
- †**Carl G. Ashley, M.D.**, Assistant Clinical Professor of Pediatrics (1936).
B.A. (1927), M.D. (1931), Oregon.
- †**Kurt W. Aumann, M.D.**, Associate Clinical Professor of Medicine (1948).
B.S. (1936), Washington State; M.A. (1940), M.D. (1942), Oregon.
- George M. Austin, M.D.**, Professor of Neurosurgery (1957).
A.B. (1938), Lafayette; M.D. (1942), Pennsylvania.
- William C. Awe, M.D.**, Assistant Professor of Surgery (1966).
B.S. (1955), M.D. (1958), Baylor.
- S. Gorham Babson, M.D.**, Associate Professor of Pediatrics (1941).
B.S. (1933), M.D. (1936), Oregon.
- Daniel M. Bachman, M.D.**, Professor of Medicine; Head of Division of Rheumatology (1956).
B.A. (1949), Reed; M.S., M.D. (1952), Oregon.

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

† Volunteer.

FACULTY

- Robert L. Bacon**, Ph.D., Professor of Anatomy (1955).
B.S. (1940), Hamilton; Ph.D. (1944), Yale.
- †**Daniel M. Baer**, M.D., Clinical Instructor in Clinical Pathology (1964).
A.B. (1953), Oberlin; M.D. (1957), New York Medical College.
- †**Paul Bailey**, M.D., Clinical Professor of Otolaryngology (1929).
M.D. (1925), Oregon.
- †**Paul F. Bailey**, M.D., 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.
- David W. E. Baird**, M.D., LL.D., Dean of the Medical School; Professor of Medicine (1928).
M.D. (1926), Oregon; LL.D. (1946), University of Portland.
- Michael D. Baird**, M.D., Assistant Medical Director of Hospitals and Clinics; Assistant Professor of Medicine (1961).
B.S. (1954), Reed; M.S., M.D. (1957), Oregon.
- Patricia C. Baker**, Ph.D., Assistant Professor of Pathology (1967).
B.A. (1960), Hawaii; Ph.D. (1964), California.
- †**Harvey W. Baker**, M.D., Associate Clinical Professor of Surgery (1953).
B.A. (1939), Cornell; M.D. (1943), Columbia.
- Mary Elizabeth Baptist**, B.A., Instructor in Medical Technology (1950).
B.A. (1944), Montana State University.
- †**Michael S. Baskin**, M.D., Clinical Instructor in Orthopedic Surgery (1967).
M.D. (1961), University of Washington.
- †**John W. Bassett**, M.D., Senior Clinical Instructor in Surgery (1954).
B.S. (1943), Arkansas; M.D. (1944), Tulane.
- †**Jack E. Battalia**, M.D., Clinical Instructor in Surgery (1954).
B.A. (1945), Reed; M.D. (1946), Oregon.
- †**Peter J. Batten**, M.D., Clinical Instructor in Public Health and Preventive Medicine (1963).
B.S. (1948), College of St. Thomas; M.S. (1950), Wayne State; M.D. (1956), Michigan; M.P.H. (1962), California.
- †**Samuel T. Beall**, M.D., Assistant Clinical Professor of Medicine (1954).
A.B. (1940), Whitman; M.D. (1950), Louisville.
- Rodney K. Beals**, M.D., Associate Professor of Orthopedic Surgery (1961).
B.A. (1953), Willamette; M.D. (1956), Oregon.
- †**G. Donald Beardsley**, M.D., Senior Clinical Instructor in Urology (1954).
B.A. (1945), M.D. (1947), Oregon.
- †**Clarissa H. Beatty**, Ph.D., Associate Professor of Biochemistry (Primate Center) (1953).
B.A. (1941), Sarah Lawrence; M.S. (1942), Ph.D. (1945), Columbia.
- †**William S. Beck**, M.D., Senior Clinical Instructor in 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.

† Volunteer.
‡ Part-time.

*MEDICAL
SCHOOL
FACULTY*

- †**Robert H. Bedrossian**, M.D., Senior Clinical Instructor in Ophthalmology (1959).
A.B. (1946), Haverford; M.D. (1947), Temple; M.Sc. (1953), Pennsylvania.
- †**Roderick E. Begg**, M.D., Assistant Clinical Professor of Orthopedic Surgery (1939).
B.S. (1924), Oregon State; M.D. (1937), Oregon.
- †**Richard E. Behrman**, M.D., Associate Professor of Pediatrics (Primate Center) (1965).
B.A. (1953), Amherst; LL.B. (1956), Harvard; M.D. (1960), Rochester.
- †**Mary Bell**, A.B., Instructor in Experimental Biology (Primate Center) (1964).
A.B. (1958), Brown.
- Ernest Jack Benner**, M.D., Assistant Professor of Medicine (1965).
B.S. (1953), Central Washington; M.D. (1960), Oregon.
- †**Thomas T. Bennett**, M.D., Assistant Clinical Professor of Psychiatry (1963).
B.S. (1950), M.D. (1952), Oregon.
- John A. Benson, Jr.**, M.D., Professor of Medicine; Head of Division of Gastroenterology (1959).
B.A. (1943), Wesleyan; M.D. (1946), Harvard.
- Ralph C. Benson**, M.D., Professor of Obstetrics and Gynecology; Chairman of Department (1956).
B.A. (1932), Lehigh; M.D. (1936), Johns Hopkins.
- †**Frederic H. Bentley**, M.D., Clinical Instructor in Surgery (1953).
B.Sc. (1926), M.B., Ch.B. (1929), M.D. (1946), Manchester (England); F.R.C.S. (1932), Royal College of Surgeons.
- J. Peter Bentley**, Ph.D., Assistant Professor of Biochemistry and Experimental Biology (1964).
B.Sc. (1952), Royal College of Technology, England; M.S. (1961), Ph.D. (1963), Oregon.
- †**John H. Benward**, M.D., Associate Clinical Professor of Pediatrics (1943).
B.S. (1937), M.D. (1939), Oklahoma.
- †**Arthur W. Berg**, M.D., Assistant Clinical Professor of Medicine (1953).
B.A. (1943), M.D. (1945), Oregon.
- †**Richard F. Berg**, M.D., Assistant Clinical Professor of Orthopedic Surgery (1935).
A.B. (1923), M.D. (1926), Oregon.
- †**Arthur M. Bergman**, M.D., Senior Clinical Instructor in Medicine (1948).
B.A. (1940), M.D. (1943), New York University.
- Robert A. Berk**, M.S., Reference Librarian; Assistant Professor (1966).
B.A. (1962), Oregon; M.S. (1964), Florida State.
- Margaret E. Berroth**, M.D., Assistant Professor of 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., Assistant Clinical Professor of Psychiatry (1957).
B.A. (1934), M.A., M.D. (1939), Oregon.
- †**Fred W. Bieker**, M.D., Clinical Instructor in Surgery (1966).
B.S. (1956), M.D. (1958), Illinois.

FACULTY

- †**John C. Bigelow, M.D.**, Assistant Professor of Cardiopulmonary Surgery (Veterans Hospital) (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.**, Associate Professor of Radiology (1961).
B.S. (1952), Minnesota; M.D. (1957), Columbia.
- †**Joseph B. Bilderback, M.D.**, Clinical Professor of Pediatrics (1911).
M.D. (1905), Oregon.
- †**Daniel K. Billmeyer, M.D.**, Clinical Professor of Pediatrics (1956).
B.S. (1943), M.D. (1946), Chicago.
- †**Theodore M. Bischoff, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1948).
B.A. (1937), Reed; M.D. (1939), Oregon.
- Paul H. Blachly, M.D.**, Associate Professor of Psychiatry (1961).
B.A. (1950), Reed; M.S., M.D. (1955), Oregon.
- Robert W. Blakeley, Ph.D.**, Associate Professor of Speech Pathology, Pediatrics (1959).
B.A. (1951), California; M.S. (1952), Oregon; Ph.D. (1958), Michigan.
- †**Harold Raymond Blair, M.B.**, Clinical Instructor in Pediatrics (1966).
M.B. (1958), Queen's University of Belfast (Ireland).
- †**John A. Blanchard, M.D.**, Senior Clinical Instructor in Medicine (1954).
B.S. (1941), Montana State College; M.D. (1950), Oregon.
- †**Roderick C. Blatchford, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1938).
A.B. (1927), Willamette; M.D. (1933), Oregon.
- †**Philip E. Blatt, M.D.**, Clinical Instructor in Medicine (1964).
B.S. (1953), Davidson; M.D. (1957), Baylor.
- †**Jack B. Blumberg, M.D.**, Clinical Instructor in Surgery (1964).
A.B. (1952), M.D. (1956), Stanford.
- †**Rose Mary Bocek, Ph.D.**, Assistant Professor of Biochemistry (Primate Center) (1957).
B.S. (1946), Marylhurst; M.S. (1954), Ph.D., (1964), Oregon.
- †**Henry L. Boehnke, M.D.**, Assistant Clinical Professor of Pediatrics (1962).
B.S. (1953), M.D. (1955), Oregon.
- †**Charles R. Boge, M.D.**, Clinical Instructor in Orthopedic Surgery (1967).
B.S. (1952), Oregon State; M.D. (1956), Oregon.
- †**Orville W. Boicourt, M.D.**, Clinical Instructor in Medicine (1965).
B.A. (1952), M.D. (1959), Kansas.
- †**Darrell C. Bollam, M.D.**, Senior Clinical Instructor in Surgery (1937).
B.S. (1927), M.D. (1928), Oregon.
- †**Richard N. Bolton, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1961).
B.S. (1951), Willamette; M.D. (1955), Oregon.
- †**Wilbur M. Bolton, M.D.**, Assistant Clinical Professor of Otolaryngology (1929).
A.B. (1923), M.D. (1926), Oregon.

† Volunteer.

‡ Part-time.

* Leave of absence June 1, 1967 to May 31, 1968.

*MEDICAL
SCHOOL
FACULTY*

- †**Donald B. Bowman**, M.D., Clinical Instructor in Medicine (1964).
B.S. (1952), M.D. (1957), Oregon.
- Robert D. Boyd**, Ph.D., Professor of Medical Psychology (1964).
B.A. (1938), Linfield; M.A. (1941), Southern California; M.A. (1947), Ph.D. (1953), Michigan.
- †**Allen M. Boyden**, M.D., 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 Orthopedic Surgery (1953).
B.A. (1944), M.D. (1946), Oregon.
- †**George A. Boylston**, M.D., Associate Clinical Professor of Medicine (1946).
B.S. (1936), M.S. (1937), M.D. (1939), Northwestern.
- †**Charles Bradley**, M.D., Associate Clinical Professor of Child Psychiatry (1948).
B.S. (1925), Cornell; M.D. (1929), Harvard.
- Doris P. Bradley**, Ph.D., Assistant Professor of Speech Pathology, Pediatrics (1964).
B.S. (1953), Mississippi Southern; M.A. (1957), Florida; Ph.D. (1963), Pittsburgh
- †**William J. Brady**, M.D., Clinical Instructor in Clinical Pathology (1965).
B.S. (1953), Santa Clara; M.D. (1958), Oregon.
- James L. Bramhall**, M.B., Associate Professor of Clinical Pathology (1962)
M.B., Ch.B. (1951), Victoria University of Manchester Medical School (England)
- †**Gatlin Brandon**, M.P.H., Clinical Instructor in Public Health and Preventive Medicine (1967).
B.S. (1938), Washington State; M.S. (1940), Oregon; M.P.H. (1949), Michigan.
- †**John O. Branford**, M.D., Clinical Instructor in Anesthesiology (1959).
B.A. (1936), Concordia; M.D. (1946), Oregon.
- †**James D. Bray**, M.D., Clinical Instructor in Psychiatry (1966).
B.A. (1954), Washburn; M.D. (1961), Kansas.
- †**Melvin W. Breese**, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1948).
B.S. (1936), Oregon State; M.D. (1943), Oregon.
- †**Robert M. Brenner**, Ph.D., Associate Professor of Experimental Biology (Primate Center) (1964).
A.B. (1950), A.M. (1951), Ph.D. (1955), Boston.
- Gwynn C. Brice**, Assistant Director of Outpatient Clinic; Assistant Professor (1946).
- †**Donald M. Brinton**, M.D., Clinical Instructor in Anesthesiology (1959).
B.A. (1945), M.D. (1947), Oregon.
- John David Bristow**, M.D., Associate Professor of Medicine (1960).
B.A. (1949), Willamette; M.D. (1953), Oregon.
- †**Michael T. H. Brodeur**, M.D., Clinical Instructor in Medicine (1965).
B.A. (1952), M.D.C.M. (1956), McGill.
- John M. Brookhart**, Ph.D., Professor of Physiology; Chairman of Department (1949).
B.S. (1935), M.S. (1936), Ph.D. (1939), Michigan.
- Robert E. Brooks**, Ph.D., Assistant Professor of Pathology (1961).
B.S. (1948), California; Ph.D. (1967), Oregon.

FACULTY

- James J. Brophy, M.D.**, Clinical Instructor in Psychiatry (1967).
B.A. (1951), La Salle; M.D. (1960), Marquette.
- Charles C. Brown, M.D.**, Clinical Instructor in Psychiatry (1965).
B.S. (1954), Gonzaga; M.D. (1958), Jefferson.
- David J. Brown, M.D.**, Clinical Instructor in Clinical Pathology (1963).
B.A. (1952), M.D. (1956), Oregon.
- Ian A. Brown, M.D., Ph.D.**, Assistant Clinical Professor of Neurology (1967).
B.A. (1941), Dartmouth; M.D. (1944), McGill; Ph.D. (1953), Minnesota.
- James J. Brophy, M.D.**, Clinical Instructor in Psychiatry (1967).
B.A. (1951), LaSalle; M.D. (1960), Marquette.
- Paul M. Brown, M.D.**, Clinical Instructor in Surgery (1961).
B.S. (1945), Oregon; M.D. (1949), Harvard; M.S. (1960), Minnesota.
- Robert J. Bruckner, D.D.S.**, Assistant Clinical Professor of Dental and Oral Medicine (1960).
D.D.S. (1944), Maryland; M.S. (1948), Western Reserve.
- Robert E. Brummett, Ph.D.**, Assistant Professor of Otolaryngology and Pharmacology (1964).
B.S. (1959), M.S. (1960), Oregon State; Ph.D. (1964), Oregon.
- Robert Brush, Ph.D.**, Professor of Medical Psychology (1965).
B.A. (1951), Princeton; M.A. (1953), Ph.D. (1956), Harvard.
- George C. Buchan, M.D.**, Associate Professor of Pathology (1965).
M.D. (1958), McGill.
- McKenzie W. Buck, Ph.D.**, Assistant Professor of Otolaryngology, Speech Pathology (Portland Center for Hearing and Speech) (1966).
B.A. (1946), Denver; M.A. (1948), Ph.D. (1951), Iowa.
- Neil R. M. Buist, M.B., Ch.B.**, Assistant Professor of Pediatrics (1966).
M.B., Ch.B., University of St. Andrews (Scotland).
- Paul R. Burgner, M.D.**, Associate Clinical Professor of Medicine (1956).
B.S. (1948), M.D. (1952), Oregon.
- Genevieve S. Burk, M.D.**, Clinical Instructor in Anesthesiology (1962).
B.S. (1947), M.D. (1951), Oregon.
- Robert P. Burns, M.D.**, Associate Professor of Ophthalmology (1959).
B.S. (1945), University of Portland; M.D. (1947), Oregon.
- William Y. Burton, M.D.**, Clinical Professor of Radiology (1940).
A.B. (1931), B.S. (1933), Missouri; M.D. (1936), Washington University.
- John W. Bussman, M.D.**, Associate Clinical Professor of Pediatrics (1954).
B.S. (1946), M.B. (1947), M.D. (1948), Minnesota.
- Bruce V. Butler, Ph.D.**, Assistant Professor of Medical Psychology (1960).
B.A. (1954), Ph.D. (1960), U.C.L.A.
- John L. Butler, M.D.**, Associate Clinical Professor of Psychiatry (1958).
B.S. (1942), Idaho; M.D. (1946), Johns Hopkins.
- John Campbell, M.D.**, Assistant Professor of Surgery (1967).
B.A. (1954), M.D. (1958), Kansas.
- Nathan J. Campbell, M.D.**, Clinical Instructor in Surgery (1950).
M.D. (1949), Temple.

MEDICAL
SCHOOL
FACULTY

- †**Paul Campbell, M.D.**, Senior Clinical Instructor in Orthopedic Surgery (1956).
B.A. (1945), M.D. (1949), Stanford; M.S. (1955), Michigan.
- Robert A. Campbell, M.D.**, Associate Professor of Pediatrics (1961).
B.A. (1954), M.D. (1958), California.
- ‡**W. Leigh Campbell, M.D.**, Senior Clinical Instructor in Ophthalmology (1962).
B.S. (1952), M.D. (1955), Oregon
- Leroy O. Carlson, M.D.**, Associate Professor of Pediatrics (1961).
B.S. (1940), University of Washington; M.D. (1942), Michigan.
- Gordon S. Caron, M.B.**, Assistant Professor of Dermatology (1967).
B.A. (1953), M.A. (1956), Cambridge; M.B. (1956), University College Hospital School, London.
- Patricia A. Chadwick, B.S.**, Instructor in Clinical Pathology and Medical Technology (1966).
B.S. (1950), Massachusetts.
- Wilma L. Carson, M.D.**, Assistant Professor of Pediatrics (1963).
B.S. (1955), Chestnut Hill; M.D. (1959), Women's Medical College of Pennsylvania.
- C. Conrad Carter, M.D.**, Associate Professor of Neurology (1956).
B.A. (1946), Reed; M.D. (1948), Oregon.
- ‡**Raymond A. Case, Jr., M.D.**, Senior Clinical Instructor in Orthopedic Surgery (1959).
M.D. (1947), Hahnemann.
- †**LeRoy S. Caspersen, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1960).
B.A. (1952), Reed; M.D. (1956), Oregon.
- †**Charles E. Catlow, Jr., M.D.**, Clinical Instructor in Urology (1949).
B.S. (1943), Portland; M.D. (1944), Oregon.
- John R. Campbell, M.D.**, Assistant Professor of Surgery (1967).
B.A. (1954), M.D. (1958), Kansas.
- †**George E. Chamberlain, M.D.**, Clinical Professor of Otolaryngology (1947).
B.A. (1936), M.D. (1938), Oregon.
- †**Charles K. Chapman, M.D.**, Clinical Instructor in Pediatrics (1966).
B.S. (1952), Oregon College of Education; M.D. (1964), Oregon.
- ||**Loring F. Chapman, Ph.D.**, Clinical Research Professor of Medical Psychology (1965).
B.S. (1950), Nevada; Ph.D. (1955), Chicago.
- †**Allan K. Chappell, M.D.**, Clinical Instructor in Pediatrics (1964).
B.S. (1948), M.D. (1951), Oregon.
- †**Bruce R. Chenoweth, M.D.**, Senior Clinical Instructor in Dermatology (1956).
B.S. (1947), M.D. (1949), Oregon.
- †**Howard L. Cherry, M.D.**, Clinical Instructor in Orthopedic Surgery (1950).
M.D. (1943), Oregon.
- †**Clarence L. Chester, M.D.**, Assistant Clinical Professor of Pathology (1962).
B.S. (1937), M.D. (1940), Vermont.
- †**Jack L. Chitty, M.D.**, Clinical Instructor in Medicine (1966).
B.S. (1955), Bradley; M.D. (1959), Illinois.

† Volunteer.

‡ Part-time.

|| Leave of absence July 1, 1967 to June 30, 1968.

- †**McGregor L. Church, M.D.**, Clinical Instructor in Orthopedic Surgery (1966).
A.B. (1951), Stanford; M.D. (1956), Oregon.
- †**Oscar C. Chowning, Jr., M.D.**, Clinical Instructor in Otolaryngology (1963).
B.A. (1953), M.D. (1956), Kansas.
- Leonard Christensen, M.D.**, Associate Professor of Ophthalmology (1950).
B.A. (1937), Oregon State; M.D. (1941), M.S. (1949), Oregon.
- †**Eldon G. Chuinard, M.D.**, Clinical Professor of Orthopedic Surgery (1938).
B.A. (1926), Puget Sound; M.D. (1934), Oregon.
- †**C. Louise Clancy, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1944).
B.A. (1929), Albion; M.D. (1934), University of Chicago.
- William M. Clark, Jr., M.D.**, Associate Professor of Pediatrics (1954).
B.A. (1946), Baker; M.D. (1949), University of Chicago.
- †**Winfred H. Clarke, M.D.**, Clinical Instructor in Orthopedic Surgery (1957).
B.S., M.B., M.D. (1941), Minnesota.
- Peter L. Clary, D.V.M.**, Instructor, Animal Care (1966).
B.S. (1957), Seattle; D.V.M. (1964), Washington State.
- †**Donald L. Cleland, M.D.**, Clinical Instructor in Surgery (1966).
B.A. (1954), Stanford; M.S., M.D. (1958), Oregon.
- †**John E. Cleland, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1966).
B.A. (1952), M.D. (1957), Oregon.
- †**John G. P. Cleland, M.D.**, Senior Clinical Instructor in Surgery (1948).
M.D., C.M. (1924), M.S. (1926), McGill.
- A. J. Clemons**, Superintendent of Physical Plant; Assistant Professor (1950).
- †**Keith M. Clisby, M.D.**, Clinical Instructor in Surgery (1947).
B.S. (1929), Oregon State; M.D. (1934), Oregon.
- †**Quentin W. Cochran, M.D.**, Associate Clinical Professor of Pediatrics (1951).
B.A. (1940), Reed; M.D. (1943), Oregon.
- †**Terence H. Cochran, M.D.**, Assistant Clinical Professor of Pathology (1960).
B.S. (1939), Oregon State; M.D. (1941), Oregon.
- †**Charles W. Coffen, M.D.**, Assistant Clinical Professor of Medicine (1941).
B.S. (1932), Stanford; M.D. (1936), Johns Hopkins.
- †**Lawrence J. Cohen, M.D.**, Senior Clinical Instructor in Orthopedic Surgery (1950).
B.S. (1930), M.D. (1934), Maryland.
- †**William Cohen, M.D.**, Senior Clinical Instructor in Medicine (1946).
B.A. (1931), Reed; M.D. (1935), Oregon.
- Antonio E. Colas, M.D., Ph.D.**, Associate Professor of Biochemistry and Professor of Obstetrics and Gynecology (1962).
M.D. (1953), University of Madrid; Ph.D. (1955), University of Edinburgh.
- Ralph O. Coleman, Jr., Ph.D.**, Assistant Professor of Speech Pathology (1966).
B.S. (1954), Oregon State; M.S. (1960), Oregon; Ph.D. (1963), Northwestern.
- †**Emerson J. Collier, M.D.**, Assistant Clinical Professor of Urology (1956).
B.S. (1941), Alaska; M.D. (1944), Oregon.
- †**Hugh Donald Colver, M.D.**, Clinical Instructor in Surgery (1950).
B.A. (1940), College of Idaho; M.D. (1943), Oregon.

*MEDICAL
SCHOOL
FACULTY*

- †**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.**, Instructor in Anatomy and Neurology (1966).
B.S. (1959), M.S. (1962), Oregon State, Ph.D. (1967), Oregon.
- Robert A. Cooper, Jr., M.D.**, Professor of Pathology (1962).
A.B. (1954), Pennsylvania; M.D. (1958), Jefferson.
- †**Peggy J. Copple, M.D.**, Assistant Clinical Professor of Pediatrics, Senior Clinical Instructor in Neurology (1966).
B.S. (1956), M.D. (1959), Oregon.
- †**George W. Cottrell, M.D.**, Senior Clinical Instructor in Orthopedic Surgery (1949).
B.A. (1937), Oregon State; M.D. (1939), Oregon.
- †**Robert C. Cowger, M.D.**, Clinical Instructor in Ophthalmology (1959).
M.D. (1944), Nebraska.
- †**William E. Creighton, D.D.S., M.P.H.**, Clinical Instructor in Public Health and Preventive Medicine (1967).
D.D.S. (1957), Creighton, M.P.H. (1960), North Carolina.
- †**Rodney L. Crislip, M.D.**, Clinical Instructor in Medicine (1963).
B.A. (1953), Lehigh; M.D. (1957), Western Reserve.
- †**Frank W. Crowe, M.D.**, Associate Clinical Professor of Dermatology (1957).
B.S. (1941), Idaho; M.D. (1949), Utah.
- †**Joyle Dahl, M.D.**, Associate Professor of Dermatology (1932).
B.A. (1926), M.D. (1930), Oregon.
- George W. Dana, M.D.**, Associate Professor of Pediatrics (1951).
A.B. (1940), M.D. (1943), Harvard.
- †**Robert I. Daugherty, M.D.**, Assistant Clinical Professor of Psychiatry (1965).
B.S. (1951), M.D. (1953), Oregon.
- †**Betty Jo Davenport, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1964).
B.S. (1957), Southern California; M.D. (1959), Oregon.
- Norman A. David, M.D.**, Professor of Pharmacology; Chairman of Department (1937).
A.B. (1925), M.D. (1931), California.
- S. Hope Davidson, M.D.**, Instructor in Anesthesiology (1967).
B.S. (1960), Oregon State; M.D. (1964), Oregon.
- †**Aubrey M. Davis, M.D.**, Assistant Clinical Professor of Medicine (1934).
B.A. (1927), Stanford; M.D. (1929), Oregon.
- †**Edward W. Davis, M.D.**, Associate Clinical Professor of Neurosurgery (1948).
A.B. (1935), M.D. (1939), California.
- †**Harold E. Davis, M.D.**, Assistant Clinical Professor of Orthopedic Surgery (1946).
B.A. (1936), M.D. (1940), Oregon.
- Howard W. Davis, M.S.**, Instructor in Anatomy (1966).
B.S. (1956), M.S. (1959), Oregon.

† Volunteer.
‡ Part-time.

- †**Joe B. Davis, M.D.**, Associate Clinical Professor of Orthopedic Surgery (1941).
B.A. (1930), Willamette; M.D. (1934), Oregon.
- Peter J. Dawson, M.D.**, Professor of Pathology (1964).
B.A. (1949), M.B., B. Chir. (1952), M.A. (1953), Cambridge; D.C.P. (1955), London; M.D. (1960), Cambridge.
- †**Jerome H. Dayton, M.D.**, Clinical Instructor in Pediatrics (1966).
B.A. (1954), St. Olaf; M.D. (1958), Minnesota.
- †**Enrique M. deCastro, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1961).
B.S. (1951), Loyola University; M.D. (1957), Universidad Nacional Autonoma de Mexico.
- †**Donald W. Deering, M.D.**, Clinical Instructor in Ophthalmology (1963).
B.A., B.S. (1947), M.D. (1950), Minnesota.
- †**Conrad A. DeLateur, M.D.**, Clinical Instructor in Dermatology (1961).
B.S. (1936), Oregon State; M.D. (1940), Oregon.
- †**James R. Delp, M.D.**, Clinical Instructor in Ophthalmology (1967).
B.A. (1955), Goshen; M.D. (1959), Jefferson.
- F. John de Maria, M.D.**, Associate Professor of Obstetrics and Gynecology (1966).
M.D. (1952), Malta.
- D. Duane Denney, M.D.**, Assistant Professor of Psychiatry (1962).
B.A. (1953), Willamette; M.S., M.D. (1957), Oregon.
- Daniel L. Dennis, M.D.**, Assistant Professor of Surgery (1965).
B.S. (1956), M.S., M.D. (1958), Oregon.
- †**John P. Dennis, M.D.**, Clinical Instructor in Neurosurgery (1959).
B.S. (1949), Oregon State; M.D. (1951), Oregon.
- David D. DeWeese, M.D.**, Professor of Otolaryngology; Chairman of Department (1944).
A.B. (1934), M.D. (1938), Michigan.
- †**Peter DeWitt, M.D.**, Clinical Instructor in Surgery (1955).
B.A. (1939), Union; M.D. (1943), Cornell.
- †**Arch W. Diack, M.D.**, Senior Clinical Instructor in Surgery (1937).
A.B. (1929), Dartmouth; M.D. (1933), Michigan.
- †**H. Lenox H. Dick, M.D.**, Associate Clinical Professor of Pharmacology (1950).
A.B. (1941), Pennsylvania; M.D. (1944), Jefferson.
- †**Herman A. Dickel, M.D.**, Clinical Professor of Psychiatry (1942).
B.A. (1933), Montana State University; M.B. (1937), M.D. (1938), Northwestern.
- †**John P. Dickson, D.M.D.**, Clinical Instructor in Dental and Oral Medicine (1961).
D.M.D. (1950), Oregon.
- †**Harry B. Ditmore, M.D.**, Clinical Instructor in Surgery (1964).
M.D. (1953), Harvard.
- †**Henry H. Dixon, M.D.**, Clinical Professor of Psychiatry (1932).
M.D. (1928), Washington University.
- †**Donald P. Dobson, M.D.**, Clinical Instructor in Anesthesiology (1957).
M.D. (1950), Boston University.

*MEDICAL
SCHOOL
FACULTY*

- Richard L. Dobson, M.D.**, Professor of Dermatology (1961).
M.D. (1953), University of Chicago.
- Wilson C. Dockery, B.S.**, Student Activities Director; Assistant Professor (1960).
B.S. (1937), Oregon State.
- †**John H. Donnelly, M.D.**, Clinical Instructor in 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; Chairman of Department (1952).
B.A. (1941), Duke; M.D. (1944), Cornell.
- †**Darrel D. Douglas, B.S.**, Senior Clinical Instructor in Environmental Medicine (1965).
B.S. in C.E. (1954), University of Washington.
- Patrick J. Doyle, M.D.**, Associate Professor of Otolaryngology (1964).
B.Sc. (1947), M.D. (1949), Alberta.
- †**Richard F. Drake, M.D.**, Clinical Instructor in Medicine (1965).
B.A. (1955), Willamette; M.D. (1959), Oregon.
- †**William E. Drips, Jr., M.D.**, Clinical Instructor in Medicine (1964).
B.S. (1956), M.D. (1958), Oregon.
- Hilda E. Drum**, Associate Professor of Radiologic Technology (1954).
- †**Mary Jane D. Dubinski, M.D.**, Clinical Instructor in Psychiatry (1965).
B.A. (1951), Marylhurst; M.D. (1961), Oregon.
- Raphael B. Durfee, M.D.**, Professor of Obstetrics and Gynecology (1957).
B.A. (1939), M.D. (1944), Stanford.
- †**Clyde H. DuVall, Jr., M.D.**, Clinical Instructor in Ophthalmology (1960).
B.S. (1942), Oregon State; M.D. (1946), Oregon.
- †**Harold P. Dygert, Jr., M.D.**, Clinical Instructor in Medicine (1956).
B.A. (1941), Rochester; M.D. (1950), Syracuse.
- †**Arthur L. Eckhardt, M.D.**, Clinical Instructor in Orthopedic Surgery (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.**, Assistant Professor of Medicine (1964).
B.A. (1951), Willamette; M.S., M.D. (1956), Oregon.
- †**Thomas A. Edwards, M.D.**, Clinical Instructor in Orthopedic Surgery (1963).
B.A. (1950), Williams; M.D. (1954), Cornell.
- †**Lester H. Eisendorf, M.D.**, Clinical Instructor in Surgery (1950).
B.S. (1935), M.D. (1938), Illinois.
- †**Morton G. Eleff, M.D.**, Assistant Clinical Professor of Pediatrics (1962).
B.S. (1950), M.D. (1955), Western Reserve.
- John H. Ellison, M.D.**, Clinical Instructor in Medicine (1965).
B.S. (1956), Oregon State; M.D. (1959), Oregon.
- †**Richard P. Embick, M.D.**, Clinical Instructor in Orthopedic Surgery (1962).
B.A. (1942), M.D. (1943), Wisconsin.

- †**Otto R. Emig, M.D.**, Assistant Clinical Professor of Pathology (1957).
B.S. (1943), University of Portland; M.D. (1944), Oregon.
- †**Joseph L. Emmerich, M.D.**, Clinical Instructor in Pediatrics (1966).
B.S. (1957), M.D. (1959), Illinois.
- †**Walter R. Enders, M.D.**, Senior Clinical Instructor in Ophthalmology (1960).
B.A. (1945), M.D. (1947), Oregon.
- Rudolf C. H. Engel, M.D.**, Associate Professor of Pediatrics (1952).
M.D. (1929), University of Bonn (Germany); M.S., M.D. (1949), Minnesota.
- †**John M. Epley, M.D.**, Clinical Instructor in Otolaryngology (1965).
M.S. (1953), M.D. (1957), Oregon.
- †**Wayne G. Ericksen, M.D.**, Assistant Clinical Professor of Radiology (1950).
B.A. (1944), Stanford; M.D. (1946), Oregon.
- †**Eldon L. Erickson, M.D.**, Clinical Instructor in Medicine (1966).
B.A. (1957), Willamette; M.D. (1960), Oregon.
- LeRoy F. Erickson, D.V.M.**, Veterinarian, Department of Animal Care; Assistant Professor (1962).
B.S. (1956), Lewis; B.S. (Vet. Med.) (1958), D.V.M. (1960), Illinois.
- †**Jay T. Estep, D.D.S.**, Clinical Instructor in Dental and Oral Medicine (1966).
B.S. (1940), Colorado; D.D.S. (1945), Missouri; M.S. (1960), Marquette.
- †**William B. Evans, M.D.**, Clinical Instructor in Medicine (1966).
B.S. (1956), Long Island; M.D. (1961), Virginia.
- J. Job Faber, Ph.D.**, Assistant Professor of Physiology (1966).
M.B. (1960), Amsterdam; Ph.D. (1963), Western Ontario.
- †**Charles A. Fagan, M.D.**, Senior Clinical Instructor in Orthopedic Surgery (1960).
B.A. (1951), Reed; M.D. (1955), Oregon.
- †**Wolf H. Fahrenbach, Ph.D.**, Associate Professor of Experimental Biology (Primate Center) (1963).
B.A. (1954), California; Ph.D. (1961), University of Washington.
- †**Cyrus Farrehi, M.D.**, Assistant Professor of Medicine (Veterans Hospital) (1967).
M.D. (1958), University of Tehran Faculty of Medicine (Iran).
- Warren H. Fay, Ph.D.**, Assistant Professor of Speech Pathology, Pediatrics (1962).
B.A. (1951), Colorado State; M.Ed. (1959), Oregon; Ph.D. (1963), Purdue.
- †**Clifford L. Fearl, M.D.**, Associate Clinical Professor of Obstetrics and Gynecology (1940).
B.A. (1930), Montana State University; M.D. (1935), Kansas.
- Jack H. Fellman, Ph.D.**, Associate Professor of Biochemistry and Neurology, Neurochemistry (1955).
B.A. (1948), M.A. (1952), Ph.D. (1954), Kansas.
- †**James W. Fergus, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1963).
B.S. (1954), M.D. (1957), Nebraska.
- †**Charles Ferguson, M.D.**, Associate Clinical Professor of Urology (1961).
B.A. (1919), College of Idaho; M.A., M.D., (1922), Oregon.

† Volunteer.

*MEDICAL
SCHOOL
FACULTY*

- ‡**Leon J. Fine**, Ph.D., Assistant Clinical Professor of Psychiatry, Group Processes (1966).
B.A. (1952), Ph.D. (1967), Washington University.
- †**Hans F. Fink**, M.D., Assistant Clinical Professor of Psychiatry (1963).
M.D. (1945), Friedrich-Wilhelms, University of Berlin.
- †**Robert E. Fischer**, M.D., Assistant Clinical Professor of Ophthalmology (1952).
B.A. (1944), Oregon State; M.D. (1946), Oregon.
- †**Stella Fisher**, M.D., Assistant Clinical Professor of Medicine (1953).
B.A. (1933), Hunter; M.D. (1937), Women's Medical College of Pennsylvania.
- Thelma N. Fisher**, Ph.D., Associate Professor of Pathology (1966).
A.B. (1942), Missouri; M.A. (1948), Kansas; Ph.D. (1953), Southern California.
- †**H. Freeman Fitch**, M.D., Assistant Clinical Professor of Orthopedic Surgery (1958).
B.A. (1946), M.A. (1947), British Columbia; M.D. (1951), Oregon.
- Robert D. Fitzgerald**, Ph.D., Associate Professor of Medical Psychology (1962).
B.A. (1958), M.A. (1959), South Dakota; Ph.D. (1962), Indiana.
- †**John R. Flanery**, M.D., Assistant Clinical Professor of Medicine (1956).
B.S. (1948), M.D. (1952), Oregon.
- William S. Fletcher**, M.D., Associate Professor of Surgery (1960).
A.B. (1952), Dartmouth; M.D. (1955), Harvard.
- †**Lynd L. Folts**, M.D., Clinical Instructor in Pediatrics (1961).
B.S. (1937), University of Washington; M.D. (1943), Oregon.
- †**Max A. Forse**, M.D., Assistant Professor of Medicine (Veterans Hospital) (1964).
B.S. (1930), M.S., M.D., (1934), Wurzburg (Germany).
- †**Donald E. Forster**, M.D., Assistant Clinical Professor of Medicine (1939).
A.B. (1931), Colgate; M.D. (1935), Harvard.
- †**Byron L. Fortsch**, M.D., Clinical Instructor in Otolaryngology (1961).
B.A. (1953), Willamette; M.D. (1957), Oregon.
- †**Paul D. Foster**, M.D., Clinical Instructor in Surgery (1967).
B.A. (1955), M.D. (1958), Iowa.
- †**Everill W. Fowlks**, M.D., Assistant Clinical Professor of Surgery for Physical Medicine and Rehabilitation (1966).
B.A. (1929), Utah; M.D. (1935), Colorado.
- Kaye E. Fox**, Ph.D., Assistant Professor of Pharmacology (1964).
B.S. (1954), Michigan; Ph.D. (1964), Stanford.
- †**Thomas J. Fox**, M.D., Senior Clinical Instructor in Surgery (1950).
B.S. (1937), University of Portland; M.D. (1941), Oregon.
- †**Richard W. Franklin**, M.D., Clinical Instructor in Obstetrics and Gynecology (1955).
B.S. (1945), M.D. (1948), Oregon.
- Clifford A. Fratzke**, M.D., Instructor in Medicine (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.

FACULTY

- †**Stanton L. Freidberg**, M.D., Clinical Instructor in Medicine (1966).
B.S. (1956), Illinois; M.D. (1960), Western Reserve.
- †**Leo J. Freiermuth**, M.D., Senior Clinical Instructor in Medicine (1961).
B.S. (1950), Idaho; M.D. (1954), Washington University.
- Kathrine S. French**, Ph.D., Assistant Professor of Anthropology, Pediatrics (1959).
B.A. (1942), Pomona; Ph.D. (1955), Columbia.
- 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.
- Louis H. Frische**, M.D., Professor of Radiology (1953).
M.D. (1949), Harvard.
- †**Robert J. Fry**, M.D., Clinical Instructor in Orthopedic Surgery (1958).
B.A. (1947), Michigan; M.D. (1952), Temple.
- Thomas S. Fujita**, M.S., Instructor in Biochemistry and Neurology, Neurochemistry (1963).
B.A. (1956), Reed; M.S. (1959), University of Washington.
- †**Malcolm E. Fuller**, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1959).
B.S. (1942), Florida; M.D. (1951), Oregon.
- †**Remy W. Fulsher**, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1955).
M.D. (1950), Ohio State.
- John D. Gabourel**, Ph.D., Associate Professor of Pharmacology (1964).
B.S. (1950), California; M.S. (1951), San Francisco; Ph.D. (1957), Rochester.
- †**Peter J. Galante**, M.D., Assistant Professor of Medicine (Veterans Hospital) (1955).
B.A. (1928), Cornell; M.D. (1933), Royal University of Turin (Italy).
- †**William P. Galen**, M.D., Assistant Clinical Professor of Medicine (1953).
B.S. (1946), M.D. (1948), Oregon.
- †**L. Phaon Gambee**, M.D., Clinical Instructor in Orthopedic Surgery (1962).
B.S. (1951), Gonzaga; M.D. (1957), Creighton.
- ††**Calvin E. Gantenbein**, M.D., Senior Clinical Instructor in Orthopedic Surgery (1936).
B.A. (1931), M.D. (1933), Oregon.
- Charles E. Gardner**, Ph.D., Assistant Professor of Microbiology (1964).
B.S. (1951), Regis; Ph.D. (1962), Colorado.
- †**J. Scott Gardner**, M.D., Clinical Professor of Urology (1945).
B.A. (1935), Utah; M.D. (1939), Cornell.
- †**William M. Garnjobst**, M.D., Assistant Clinical Professor of Surgery (1955).
B.A. (1943), Oregon State; M.D. (1945), Oregon.
- †**Kenneth D. Gaver**, M.D., Associate Clinical Professor of Psychiatry (1966).
B.A. (1946), California; M.D. (1948), Tennessee.
- †**Howard J. Geist**, M.D., Clinical Instructor in Orthopedic Surgery (1965).
M.D. (1955), Harvard.

† Volunteer.

†† Leave of absence.

*MEDICAL
SCHOOL
FACULTY*

- Nancy B. Gerhardt**, B.S., Instructor in Microbiology (1966).
B.S. (1950), Oregon State.
- Jerry D. Giesy**, M.D., Instructor in Urology (1964).
B.A. (1955), M.D. (1959), Oregon.
- † **Joseph H. Gill**, M.D., Senior Clinical Instructor in Orthopedic Surgery (1949).
B.A. (1940), Reed; M.D. (1943), Oregon.
- † **Samuel F. Gill**, M.D., Clinical Instructor in Orthopedic Surgery (1963).
B.S. (1953), Oregon State; M.D. (1955), Oregon.
- † **Vincent Glaudin**, Ph.D., Associate Professor of Medical Psychology (Veterans Hospital) (1966).
B.S. (1949), Ph.D. (1954), Illinois.
- † **Leonard M. Goldberg**, M.D., Senior Clinical Instructor in Medicine (1959).
B.A. (1951), Reed; M.D. (1955), Oregon.
- † **Edward L. Goldblatt**, M.D., M.P.H., Clinical Instructor in Public Health and Preventive Medicine (1967).
B.S. (1957), M.D. (1960), Northwestern; M.P.H. (1964), California.
- † **Marvin C. Goldman**, M.D., Assistant Clinical Professor of Medicine (1958).
Ph.B. (1946), B.S. (1947), M.D. (1950), University of Chicago.
- Robert D. Goldman**, M.D., Assistant Professor of Medicine (1963).
B.A. (1950), M.D. (1957), Michigan.
- † **Buell E. Goocher**, Ph.D., Clinical Instructor in Medical Psychology (1964).
B.S. (1958), Wisconsin; M.A. (1961), Ph.D. (1963), Southern Illinois.
- † **Morton J. Goodman**, M.D., Assistant Clinical Professor of Medicine (1935).
B.A. (1926), M.D. (1929), Oregon.
- Ora K. Goodman**, B.S., Catalog Librarian; Assistant Professor (1945).
B.S. (1927), University of Washington.
- † **Scott Goodnight**, M.D., Clinical Professor of Pediatrics (1940).
B.A. (1930), Wisconsin; M.D. (1932), Oregon.
- ‡ **Guy W. Gorrell**, M.D., Senior Clinical Instructor in Surgery (1961).
B.S. (1950), M.D. (1953), Oregon.
- † **Walter A. Goss**, M.D., Assistant Clinical Professor of Pediatrics (1946).
B.S. (1933), Oregon State; M.D. (1937), Oregon.
- Jarvis Gould**, M.D., Associate Medical Director and Associate Administrator of Hospitals and Clinics; Associate Professor of Medicine (1948).
B.A. (1939), M.D. (1941), Oregon.
- Richard T. Gourley**, M.D., Assistant Professor of Pathology (1967).
B.A. (1958), Reed; M.D. (1963), Oregon.
- David Gowing**, M.D., Assistant Professor of Anesthesiology (1962).
A.B. (1955), Boston University; M.D. (1959), Yale.
- † **Robert W. Goy**, Ph.D., Professor of Medical Psychology (Primate Center) (1965).
B.S. (1947), Michigan; Ph.D. (1953), Chicago.
- Richard L. Grant**, M.D., Assistant Professor of Psychiatry (1966).
B.A. (1955), DePauw; M.D. (1959), M.A. (1961), Chicago.
- † **Robert H. Gray**, M.D., Senior Clinical Instructor in Medicine (1961).
B.S. (1953), M.D. (1955), Oregon.

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FACULTY

- †**Robert B. Greene, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1949).
B.A. (1927), M.D. (1931), Oregon.
- †**Robert B. Greene, Jr., M.D.**, Senior Clinical Instructor in Urology (1959).
B.A. (1948), Reed; M.D. (1952), Oregon.
- †**Monte A. Greer, M.D.**, Professor of Medicine; Head of Division of Endocrinology (1956).
A.B. (1944), M.D. (1947), Stanford.
- †**Victor Gregory, M.D.**, Clinical Instructor in Psychiatry (1966).
M.D. (1951), Illinois.
- †**Donald P. Grettie, Ph.D.**, Clinical Instructor in Medicine (1966).
B.A. (1924), Willamette; M.A. (1927), Oregon; Ph.D. (1930), Pittsburgh.
- †**Ray V. Grewe, M.D.**, Clinical Instructor in Neurosurgery (1958).
B.S. (1945), University of Washington; M.D. (1947), Oregon.
- †**Herbert E. Griswold, M.D.**, Professor of Medicine; Head of Division of Cardiovascular Renal Diseases (1949).
B.A. (1939), Reed; M.S., M.D. (1943), Oregon.
- †**LeRoy E. Groshong, M.D.**, Assistant Clinical Professor of Surgery (1956).
B.S., M.D., (1949), Nebraska.
- †**Harry E. Groth, M.D.**, Senior Clinical Instructor in Orthopedic Surgery (1963).
B.S. (1952), M.D. (1955), Wisconsin.
- †**J. Gordon Grout, M.D.**, Clinical Instructor in Surgery (1959).
A.B. (1949), Stanford; M.D. (1954), Oregon.
- †**Myron R. Grover, Jr., M.D.**, Assistant Medical Director and Assistant Administrator of Hospitals and Clinics; Director of Continuing Medical Education; Director of Regional Medical Programs; Assistant Professor of Medicine (1958).
B.A. (1950), Bowdoin; M.D. (1954), Cornell; M.S. (1956), Oregon.
- †**John S. Gullikson, D.D.S.**, Assistant Professor of Dental and Oral Medicine (1963).
B.S. (1950), Washington State; D.D.S. (1954), University of Washington.
- †**David L. Gunberg, Ph.D.**, Professor of Anatomy (1955).
B.A. (1949), Redlands; M.A. (1952), Ph.D. (1954), California.
- †**Russell G. Gustavson, M.D.**, Senior Clinical Instructor in Surgery (1957).
B.A. (1950), M.D. (1952), Nebraska.
- †**Helmut Haas, M.D.**, Assistant Professor of Medicine (1966).
B.S. (1956), M.D. (1958), Minnesota.
- †**Clarence H. Hagmeier, M.D.**, Clinical Instructor in Anesthesiology (1967).
B.S. (1943), M.D. (1950), Pittsburgh.
- †**James E. Haines, M.D.**, Assistant Professor of Clinical Pathology (1966).
B.S. (1950), M.D. (1955), Stanford.
- †**Roger W. Hallin, M.D.**, Senior Clinical Instructor in Surgery (1962).
M.D., C.M. (1952), McGill.
- †**Luis E. Halpert, M.D.**, Clinical Instructor in Urology (1963).
B.S. (1946), M.D. (1953), Universidad Nacional Autonoma de Mexico.
- †**Kenneth M. Halprin, M.D.**, Associate Professor of Dermatology (1964).
B.A. (1950), M.D. (1955), Chicago.

*MEDICAL
SCHOOL
FACULTY*

- †**John E. Halver**, Ph.D., Lecturer in Pathology (1966).
B.S. (1944), M.S. (1948), Washington State; Ph.D. (1953), University of Washington.
- †**Archie Y. Hamilton**, M.D., Clinical Instructor in Clinical Pathology (1966).
B.S. (1954), M.S. (1955), Oregon State; M.D. (1960), Oregon.
- Martha L. Hamilton**, M.D., Assistant Professor of Clinical Pathology (1957).
B.S. (1945), Texas Wesleyan; M.D. (1952), Texas.
- †**John R. Hand**, M.D., Clinical Professor of Urology (1932).
B.S. (1921), B.M. (1923), M.D. (1924), M.S. (1936), Minnesota.
- Hance F. Haney**, M.D., Ph.D., Professor of Medicine; Chief, Department of Medicine Outpatient Professional Services (1936).
B.A. (1926), M.A. (1928), Ph.D. (1934), Wisconsin; M.D. (1934), University of Chicago.
- ‡**Robert F. Haney**, M.D., Clinical Instructor in Ophthalmology (1965).
B.S. (1955), M.D. (1958), Oregon.
- Constance Hanf**, Ph.D., Assistant Professor of Medical Psychology (1963).
B.A. (1938), M.A. (1943), New York University; M.A. (1952), College of City of New York; Ph.D. (1961), Pennsylvania State.
- †**John R. Hansen**, M.D., Assistant 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 Orthopedic Surgery (1959).
B.A. (1945), Whitman; M.D. (1949), Oregon.
- †**George Thomas Harding, Jr.**, M.D., Clinical Instructor in Surgery (1966).
M.D. (1958), University of Washington.
- †**Clifford E. Hardwick**, M.D., Associate Clinical Professor of Surgery (1947).
B.S., M.D. (1929), Oregon.
- †**Robert L. Hare**, M.D., Senior Clinical Instructor in Medicine (1956).
B.S. (1947), M.D. (1949), Illinois; M.S. (1956), Minnesota.
- †**Allen D. Harlor, Jr.**, M.D., Clinical Instructor in Pediatrics (1966).
B.S. (1957), M.D. (1961), M.S. (1964), Ohio State.
- †**Bernard P. Harpole**, M.D., Clinical Instructor in Surgery (1949).
B.S. (1935), M.D. (1939), St. Louis.
- †**Homer H. Harris**, M.D., Associate Clinical Professor of Clinical Pathology (1951).
B.A. (1942), Reed; M.D. (1945), Oregon.
- †**Richard L. Harris**, M.D., Clinical Instructor in Medicine (1965).
B.S. (1954), M.D. (1958), North Carolina.
- †**Waldo E. Harris**, M.D., Clinical Instructor in Medicine (1963).
B.D. (1929), Whitman; B.S., M.D. (1941), Northwestern.
- †**Joseph T. Hart**, M.D., Associate Clinical Professor of Pediatrics (1950).
B.S.M. (1941), M.D. (1942), Creighton.

FACULTY

- †**James T. Hartford, M.D.**, Clinical Instructor in Pediatrics (1966).
B.A. (1951), Portland; M.D. (1961), Oregon.
- †**William L. Hartmann, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1954).
B.S. (1935), Harvard; M.D. (1939), Johns Hopkins.
- †**Frederick P. Haugen, M.D.**, Professor of Anesthesiology; Head of Division (1948).
B.A. (1933), M.D. (1935), Oregon.
- †**Gerhard B. Haugen, M.D.**, Assistant Clinical Professor of Psychiatry (1937).
B.A. (1932), M.D. (1935), Oregon; M.P.H. (1942), Johns Hopkins.
- †**Thomas Haun, M.D.**, Clinical Instructor in Medicine (1963).
M.D. (1957), Creighton.
- †**James B. Haworth, M.D.**, Assistant Clinical Professor of Radiology (1953).
B.S. (1933), M.D. (1936), Oregon.
- †**John F. Hayes, M.D.**, Clinical Instructor in Surgery (1955).
B.A. (1945), Oregon State; M.D. (1947), Oregon.
- †**Gordon D. Haynie, M.D.**, Assistant Professor of Medicine (Veterans Hospital) (1961).
B.S. (1949), Idaho State; M.D. (1953), Oregon.
- †**Jack R. Hegrenes, M.S., M.A.**, Instructor, Crippled Children's Division (1967).
B.S. (1952), M.S. (1955), Oregon; M.A. (1960), Chicago.
- †**Thomas S. Healy, M.D.**, Senior Clinical Instructor in Medicine (1951).
B.A. (1940), M.D. (1942), Oregon.
- †**Frederick Hecht, M.D.**, Assistant Professor of Experimental Medicine and Pediatrics (1965).
B.A. (1952), Dartmouth; M.D. (1960), Rochester.
- †**John R. Hazel, M.D.**, Clinical Instructor in Orthopedic Surgery (1966).
B.A. (1953), Portland; M.D. (1958), Oregon.
- †**William J. Hemphill, M.D.**, Clinical Instructor in Dermatology (1961).
M.D. (1947), Oklahoma.
- †**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.
- †**Philip H. Henderson, Jr., M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1954).
B.S. (1945), University of Washington; M.D. (1948), Oregon.
- †**Edward L. Hendricks, M.D.**, Assistant Clinical Professor of Pediatrics (1955).
B.S. (1946), Oregon State; M.S. (1948), M.D. (1949), Oregon.
- †**Russell C. Henry, M.D.**, Associate Clinical Professor of Pathology (1963).
B.S. (1934), M.D. (1940), Oklahoma.
- †**Rodney H. Herr, M.D.**, Associate Professor of Cardiopulmonary Surgery (1963).
B.A. (1953), Goshen; M.D. (1957), Northwestern.
- †**Barbara Hiatt, M.S., R.N.**, Assistant Administrator, Tuberculosis Hospital; Clinical Associate Professor of Nursing (1950).
B.S., R.N. (1948), Oregon State; M.S. (1950), Oregon.

* Volunteer.

*MEDICAL
SCHOOL
FACULTY*

- †**William W. Hicks, Jr.**, M.D., Clinical Instructor in Obstetrics and Gynecology (1958).
M.D. (1953), Jefferson Medical College; B.S. (1954), University of Washington.
- †**Robert V. Hill**, M.D., Assistant Clinical Professor of Ophthalmology (1948).
B.S. (1936), Oregon State; M.D. (1939), Oregon.
- †**William E. Hill**, M.D., Assistant Clinical Professor of Pediatrics (1962).
B.A. (1947), Maine; M.D. (1951), Tufts.
- Vincent C. Hinck**, M.D., Professor of Radiology (1957).
A.B. (1938), Cornell; M.D. (1953), New York Medical College.
- Marvin C. Hines**, Ph.D., Assistant Professor of Biochemistry and Ophthalmology (1962).
B.A. (1954), Linfield; M.S. (1956), University of Washington; Ph.D. (1959), Oregon.
- Wolfgang Hissen**, M.D., Instructor in Neurology (1966).
M.D. (1961), Cologne.
- Clarence V. Hodges**, M.D., Professor of Urology; Head of Division (1948).
B.S. (1937), Iowa State; M.D. (1940), University of Chicago.
- †**Richard A. Hodgson**, M.D., Clinical Instructor in Otolaryngology (1962).
B.S. (1954), Oregon State; M.D. (1956), Oregon.
- †**John W. Hoffman**, M.D., Assistant Clinical Professor of Pathology (1966).
D.M.D. (1948), M.D. (1950), Harvard.
- †**Donald H. Holden**, M.D., Clinical Instructor in Otolaryngology (1953).
A.B. (1941), Brown; M.D. (1944), Yale.
- †**Carl L. Holm**, M.D., Clinical Instructor in Orthopedic Surgery (1961).
B.A. (1940), Willamette; M.D. (1943), Oregon.
- Charles N. Holman**, M.D., Associate Dean of Medical School; Medical Director and Administrator of Hospitals and Clinics; Professor of Medicine (1940).
B.A. (1931), M.D. (1936), Oregon.
- †**Monroe A. Holmes**, D.V.M., M.P.H., 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.
- †**Richard J. Hopkins**, M.D., Assistant Clinical Professor of Orthopedic Surgery (1950).
B.S. (1943), Idaho; M.D. (1944), Oregon.
- †**Marcus M. Horenstein**, M.D., Assistant Clinical Professor of Medicine (1947).
B.A. (1937), M.D. (1941), Oregon.
- †**Velma J. Horenstein**, M.D., Clinical Instructor in Psychiatry (1967).
B.A. (1946), M.D. (1953), Oregon.
- †**Irving J. Horowitz**, M.D., Assistant Clinical Professor of Radiology (1959).
B.S. (1946), M.S. (1947), M.D. (1952), Michigan.
- A. Wesley Horton**, Ph.D., Professor of Environmental Medicine and Biochemistry (1962).
B.S. (1940), M.S. (1947), Ph.D. (1948), Yale.
- †**Dale D. Hoskins**, Ph.D., Assistant Professor of Biochemistry (Primate Center) (1963).
B.S. (1953), M.S. (1955), Oregon State; Ph.D. (1960), Colorado.

FACULTY

- †**Charles F. Howard, Jr.**, Ph.D., Assistant Professor of Biochemistry (Primate Center) (1965).
B.A. (1954), Colorado State College of Education; M.A. (1958), Colorado State; M.S. (1961), Ph.D. (1963), Wisconsin.
- †**Martin A. Howard**, M.D., Assistant Clinical Professor of Surgery (1929).
B.S. (1923), M.D. (1926), Oregon.
- †**Jay C. Hoyt**, M.D., Assistant Clinical Professor of Medicine (1956).
B.S. (1946), (1947), M.D. (1948), Minnesota.
- †**Funan Hu**, M.D., Professor of Dermatology (Primate Center) (1965).
M.D. (1942), National Medical College of Shanghai.
- †**Grant B. Hughes**, M.D., Clinical Instructor in Psychiatry (1963).
M.D. (1944), Temple.
- Margaret E. Hughes**, B.S., Librarian; Professor (1946).
B.S. (1937), Minnesota.
- †**Arthur F. Hunter**, M.D., Assistant Clinical Professor of Radiology (1946).
A.B. (1930), Denver; M.D. (1933), Colorado.
- Leslie W. Hunter**, M.S.W., Director, Medical Social Service Department; Associate Professor (1965).
M.A. (1944), Royal Hungarian Peter Pazmany University (Budapest); M.S.W. (1956), Southern California.
- †**Peter L. Hurst**, M.D., Assistant Clinical Professor of Pediatrics (1956).
B.S. (1950), Antioch; M.D. (1950), Washington University.
- †**William W. Hurst**, M.D., Assistant Clinical Professor of Medicine (1952).
B.S. (1942), Idaho State; B.M. (1945), M.D. (1946), Northwestern.
- †**Crittenden Huston**, M.D., Clinical Instructor in Psychiatry (1967).
B.A. (1949), Linfield; M.D. (1953), Oregon.
- †**Tyra T. Hutchens**, M.D., Professor of Clinical Pathology and Radiology (Radioisotopes); Chairman of Department of Clinical Pathology (1953).
B.S. (1943), M.D. (1945), Oregon.
- Jack H. Hutchinson**, B.A., Instructor in Medicine (1961).
B.A. (1949), Lewis and Clark.
- †**Theodore L. Hyde**, M.D., Senior Clinical Instructor in Surgery (1964).
B.S. (1925), Minnesota; M.D. (1927), Harvard.
- †**Milton D. Hyman**, M.D., Associate Clinical Professor of Radiology (1945).
B.A. (1932), College of City of New York; M.S. (1933) M.D. (1937), Long Island (New York University).
- †**Selma Hyman**, M.D., Associate Clinical Professor of Radiology (1944).
B.S. (1932), M.D. (1938), New York University.
- †**Toshio Inahara**, M.D., Clinical Instructor in Surgery (1956).
B.S. (1948), M.D. (1950), Oregon.
- ‡**Samuel Irwin**, Ph.D., Professor of Pharmacology in Psychiatry (1964).
B.A. (1948), Rutgers; Ph.D. (1954), Michigan.
- John B. Isom**, M.D., Associate Professor of Neurology and Pediatrics (1963).
B.A. (1950), M.D. (1954), Vanderbilt.

† Volunteer.
‡ Part-time.

*MEDICAL
SCHOOL
FACULTY*

- †**Robert C. Jackson, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1957).
B.S. (1944), M.D. (1947), Oregon.
- William W. Jackson, B.S.**, Instructor, Animal Care (1965).
B.S. (1949), Howard.
- Stanley W. Jacob, M.D.**, Associate Professor of Surgery (1959).
B.A. (1945), M.D. (1948), Ohio State.
- †**Frank M. Jacobson, M.D.**, Clinical Instructor in Pediatrics (1962).
M.D. (1951), Oregon.
- †**Sheldon A. Jacobson, M.D.**, Associate Clinical Professor of Pathology (1950).
A.B. (1922), College of City of New York; M.D. (1928), Yale.
- †**David W. James, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1949).
B.S. (1930), Denison; M.D. (1933), Ohio State; M.S. (1940), Wayne.
- †**John Paul Jarabak, D.D.S.**, Senior Clinical Instructor in Dental and Oral Medicine (1960).
D.D.S. (1939), Indiana.
- Robert A. Jellum, B.S.**, Budget Officer; Instructor (1966).
B.S. (1950), Linfield.
- Virginia L. Jentoft, B.S.**, Instructor in Pathology (1965).
B.S. (1951), University of Washington.
- †**Naraindas B. Jetmalani, D.P.M.**, Assistant Clinical Professor of Psychiatry (1964).
D.P.M. (1953), Netherne Hospital, Surrey (England).
- †**Donald R. Johnson, M.D.**, Clinical Instructor in Ophthalmology (1965).
B.A. (1951), Minnesota; A.M. (1952), Harvard; M.D. (1961), Stanford.
- †**Robert O. Johnson, M.D.**, Clinical Instructor in Psychiatry (1967).
M.D. (1950), Nebraska.
- †**Roderick L. Johnson, M.D.**, Senior Clinical Instructor in Surgery (1960).
B.S. (1948), M.D. (1951), University of Washington.
- †**Warren E. Johnson, M.A.**, Assistant Professor of Otolaryngology, Audiology (Portland Center for Hearing and Speech) (1962).
A.B. (1949), Wabash; M.A. (1950), Northwestern.
- †**Russell L. Johnsrud, M.D.**, Assistant Clinical Professor of Surgery (1936).
B.A. (1930), M.D. (1933), Oregon.
- George I. Johnston, B.S.**, Director of Research Instrument Service; Assistant Professor (1961).
B.S. (1955), Johns Hopkins.
- †**Arthur C. Jones, M.D.**, Clinical Professor of Physical Medicine in Surgery (1929).
B.A. (1921), Pacific University; M.A. (1925) M.D. (1926), Oregon.
- †**Benjamin B. Jones, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1959).
B.S. (1950), Pittsburgh; M.D. (1953), Temple.
- †**Charles H. Jones, M.D.**, Clinical Instructor in Psychiatry (1965).
B.S. (1940), M.D. (1943), Oregon.
- †**Lester T. Jones, M.D.**, Clinical Professor of Otolaryngology (1924).
B.A. (1918), Pacific University; M.D. (1921), M.A. (1923), Oregon.

- †**Orville N. Jones, M.D.**, Senior Clinical Instructor in Orthopedic Surgery (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.**, Assistant Professor of Microbiology (1965).
B.Sc. (1957), Leeds (England); Ph.D. (1961), Lister Institute of University of London.
- Melvin P. Judkins, M.D.**, Associate Professor of Radiology (1966).
B.S. (1945), La Sierra; M.D. (1947), Loma Linda.
- †**Robert L. Kalez, M.D.**, Clinical Instructor in Urology (1963).
B.S. (1954), Gonzaga; M.D. (1957), Creighton.
- †**Huldrick Kammer, M.D.**, Clinical Professor of Medicine (1949).
B.A. (1936), Wisconsin; B.M. (1940), M.D. (1941), Northwestern.
- †**John F. Kane, M.D.**, Assistant Clinical Professor of Surgery (1960).
M.D. (1943), Marquette.
- Frederick H. Kanfer, Ph.D.**, Professor of Medical Psychology (1962).
B.S. (1948), Long Island; M.A. (1952), Ph.D. (1953), Indiana.
- †**Reinhold Kanzler, M.D.**, Clinical Instructor in Surgery (1958).
B.S. (1934), M.S. (1937), M.D. (1938), Oregon.
- Donald G. Kassebaum, M.D.**, Associate Professor of Medicine (1962).
B.A. (1955), Reed; M.D. (1956), Oregon.
- †**John P. Keizer, M.D.**, Assistant Clinical Professor of Ophthalmology (1953).
B.A. (1934), M.D. (1937), Oregon.
- †**Eugene O. Kelley, D.M.D.**, Clinical Instructor in Dental and Oral Medicine (1963).
B.S. (1957), Oregon State; D.M.D. (1959), Oregon.
- †**Harley D. Kelley, M.D.**, Clinical Instructor in Surgery (1965).
B.A. (1955), Pacific; M.D. (1959), Oregon.
- Robert E. Kellum, M.D.**, Assistant Professor of Dermatology (1965).
B.A. (1952), M.D. (1955), Colorado.
- †**Donald F. Kelly, M.D.**, Senior Clinical Instructor in Dental and Oral Medicine; Assistant Clinical Professor of Pediatrics (1959).
B.S. (1949), University of Portland; M.D. (1954), Oregon.
- John W. Kendall, Jr., M.D.**, Associate Professor of Medicine (1962).
B.A. (1952), Yale; M.D. (1956), University of Washington.
- Lena Kenin, M.D.**, Associate Professor of Psychiatry (1960).
B.S. (1921), University of Washington; M.D. (1929), Oregon.
- †**Calvin H. Kiest, Jr., M.D.**, Clinical Associate in Orthopedic Surgery (1960).
B.S. (1951), Oregon State; M.D. (1955), Oregon.
- †**Reid R. Kimball, M.D.**, Clinical Instructor in Psychiatry (1967).
B.S. (1949), Brigham Young; M.D. (1951), Utah.

*MEDICAL
SCHOOL
FACULTY*

- †**A. Gurney Kimberley**, M.D., D.Sc., Assistant Clinical Professor of Orthopedic Surgery (1937).
B.S. (1929), M.D. (1930), Oregon; D.Sc. (Med.) (1937), Columbia.
- ‡**Frederick A. J. Kingery**, M.D., Associate 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.
- Dietrich Kirchheim**, M.D., Assistant Professor of Urology (1964).
M.D. (1951), Goethe (West Germany).
- †**Anton C. Kirchhof**, M.D., Clinical Instructor in Pharmacology (1965).
B.A. (1941), M.S., M.D. (1943), Oregon.
- †**George W. Kittinger**, Ph.D., Professor of Biochemistry (Primate Center) (1965).
B.S. (1948), M.S. (1950), Northwestern; Ph.D. (1953), Oregon.
- †**George C. D. Kjaer**, M.D., Clinical Instructor in Psychiatry (1966).
B.A. (1955), M.D. (1959), University of Washington.
- †**Harvey D. Klevit**, M.D., Assistant Clinical Professor of Pediatrics (1964).
A.B. (1952), M.D. (1956), Temple.
- †**Edward K. Kloos**, M.D., Assistant Clinical Professor of Neurosurgery (1948).
A.B. (1934), Western Reserve; M.D. (1938) Rochester; M.S. (1943), Minnesota.
- Frank E. Kloster**, M.D., Assistant Professor of Medicine (1965).
B.S. (1955), Iowa State; M.D. (1958), Iowa.
- Robert D. Koler**, M.D., Professor of Medicine; Head of Division of Hematology and Experimental Medicine (1953).
B.A. (1945), M.D. (1947), Oregon.
- John D. Koontz**, B.S., Instructor in Clinical Pathology (1963).
B.S. (1954), Oregon.
- Nancy Kosterlitz**, M.A., Assistant Professor of Psychiatric Social Work, Psychiatry (1962).
B.A. (1945), M.A. (1950), University of Chicago.
- †**Richard H. Kosterlitz**, M.D., Senior Clinical Instructor in Medicine (1958).
B.S., M.D. (1949), Illinois.
- †**Arthur D. Kracke**, M.D., Assistant Clinical Professor of Pediatrics (1963).
B.A. (1955), North Dakota; M.D. (1958), McGill.
- †**Lewis J. Krakauer**, M.D., Assistant Clinical Professor of Medicine (1956).
A.B. (1947), Williams; M.D. (1951), Harvard.
- †**Alfred J. Kreft**, M.D., Clinical Associate in Ophthalmology (1951).
B.S. (1933), M.D. (1936), Illinois.
- †**Paul O. Kretschmar**, M.D., Senior Clinical Instructor in Medicine (1961).
B.S. (1952), South Dakota; M.D. (1954), Illinois.
- ‡**Marion L. Krippaehne**, M.D., Assistant Clinical Professor of Medicine (1952).
B.S. (1944), University of Washington; M.D. (1948), Oregon.
- William W. Krippaehne**, M.D., Kenneth A. J. Mackenzie Professor of Surgery; Chairman of Department (1953).
B.S. (1943), University of Washington; M.D. (1946), Oregon.

† Volunteer.
‡ Part-time.

FACULTY

- †**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.
- †**Merle M. Kurtz, M.D.**, Senior Clinical Instructor in Medicine (1956).
B.A. (1949), College of Idaho; M.D. (1953), Oregon.
- †**Bruce N. Kvernlund, M.D.**, Clinical Instructor in Neurosurgery (1952).
B.A. (1942), Reed; M.D. (1943), Oregon.
- Daniel H. Labby, M.D.**, Professor of Medicine; Head of Division of Diabetes and Metabolism (1947).
B.A. (1935), Reed; M.D. (1939), Oregon
- †**George H. Lage, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1942).
B.A. (1936), Oregon State; M.D. (1939), Oregon.
- †**Donald R. Laird, M.D.**, Assistant Clinical Professor of Surgery (1939).
A.B. (1928), Grinnell; M.S. (1933), M.D. (1934), Rush (University of Chicago); M.S. (1938), Minnesota.
- †**Richard A. Lalli, M.D.**, Clinical Instructor in Ophthalmology (1963).
B.S. (1954), Oregon State; M.D. (1956), Oregon.
- †**Ellery L. Landers, M.D.**, Senior Clinical Instructor in Anesthesiology (1962).
B.A. (1930), M.D. (1932), Oregon.
- †**Eugene W. Landreth, M.D.**, Assistant Clinical Professor of Clinical Pathology (1957).
B.S. (1946), M.D. (1948), Oregon.
- †**Darrell W. Landrey, M.D.**, Clinical Instructor in Otolaryngology (1964).
B.Sc. (1954), University of Portland; M.D. (1956), Oregon.
- †**Ernest A. Lane, M.D.**, Clinical Instructor in Medicine (1966).
B.S. (1953), M.D. (1955), Illinois.
- †**Laurence R. Langston, M.D.**, Senior Clinical Instructor in Orthopedic Surgery (1956).
B.A. (1947), M.D. (1951), Oregon.
- †**Albert E. Lerner, M.D., Ph.D.**, Clinical Instructor in Dermatology (1963).
B.S.A. (1946), Ontario Agriculture College; M.S. (1948), Toronto; Ph.D. (1955), Michigan; M.D. (1959), Toronto.
- †**Walter G. Larsen, M.D.**, Clinical Instructor in Dermatology (1966).
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.**, Clinical Instructor in Orthopedic Surgery (1962).
B.A. (1949), Montana State University; M.D. (1953), George Washington; M.S. (Orth. Surg.) (1960), Minnesota.
- †**Gary H. Leaverton, M.D.**, Clinical Instructor in Surgery (1962).
B.S. (1953), M.D. (1955), Oregon.
- †**G. Prentiss Lee, M.D.**, Clinical Instructor in Surgery (1952).
B.A. (1939), Reed; M.D. (1943), Oregon.

† Volunteer.
‡ Part-time.

**MEDICAL
SCHOOL
FACULTY**

- †**J. Robert Lee, M.D.**, Associate Clinical Professor of Radiology (1955).
B.A. (1944), Willamette; M.D. (1946), Oregon.
- †**T. David Lee, Jr., M.D.**, Clinical Instructor in Medicine (1965).
A.B. (1954), Dartmouth; M.D. (1957), Harvard.
- Martin H. Lees, M.D.**, Associate Professor of Pediatrics (1963).
M.D. (1955), London University.
- ‡**Theodore H. Lehman, M.D.**, Associate Clinical Professor of Urology (1958).
B.A. (1948), M.A. (1949), M.D. (1953), Nebraska.
- Richard L. Lessel, M.P.H.**, Instructor in Public Health and Preventive Medicine (1960).
B.S. (1957), University of Washington; M.P.H. (1959), North Carolina.
- †**Martin S. Levine, Ph.D.**, Clinical Instructor in Medical Psychology (1965).
B.A. (1939), New York; M.A. (1941), Columbia; Ph.D. (1954), M.P.H. (1960), California.
- Howard P. Lewis, M.D.**, Dr. Laurence Selling Professor of Medicine; Chairman of Department (1932).
B.S. (1924), Oregon State; M.D. (1930), Oregon.
- †**William L. Lidbeck, M.D.**, Assistant Clinical Professor of Pathology (1941).
B.S. (1932), Wisconsin; M.D. (1934), Marquette.
- Herold S. Lillywhite, Ph.D.**, Professor of Speech Pathology, Pediatrics (1957).
B.S. (1932), Utah State; M.A. (1939), Minnesota; Ph.D. (1943), New York University.
- James E. Lindemann, Ph.D.**, Associate Professor of Medical Psychology (1963).
B.S. (1950), M.S. (1951), Ph.D. (1954), Pennsylvania State.
- †**Aarne J. Lindgren, M.D.**, Assistant Clinical Professor of Medicine (1948).
B.S. (1936), M.S., M.D. (1942), Oregon.
- †**Verner V. Lindgren, M.D.**, Senior Clinical Instructor in Surgery (1950).
B.A. (1942), Gustavus Adolphus; B.S. (1944), B.M. (1945), M.D. (1946), Minnesota.
- †**Richard H. Lindquist, M.D.**, Clinical Instructor in Surgery (1958).
B.S. (1946), South Dakota; M.D. (1947), Louisville.
- Louis Lino, Ph.D.**, Assistant Professor of Neurology, Neurochemistry (1958).
Ph.D. (1935), Faculty of Natural Sciences, Pisa (Italy).
- Adam W. Lis, Ph.D.**, Associate Professor of Pathology (1965).
B.S. (1949), Arkansas; B.A. (1954), Ph.D. (1960), California.
- Michael Litt, Ph.D.**, Associate Professor of Biochemistry and Experimental Medicine (1967).
B.A. (1954), Oberlin; Ph.D. (1958), Harvard.
- †**James H. Lium, M.D.**, Associate Clinical Professor of Clinical Pathology (1953).
B.S. (1944), M.D. (1946), Oregon.
- †**Ernest T. Livingstone, M.D.**, Assistant Clinical Professor of Medicine (1955).
B.A. (1949), Reed; M.S., M.D. (1951), Oregon.
- Walter C. Lobitz, Jr., M.D.**, Professor of Dermatology; Head of Division (1959).
B.S. (1939), B.M. (1940), M.D. (1941), Cincinnati; M.Sc. (1945), Minnesota; M.A. (Hon.) (1957), Dartmouth.

† Volunteer.
‡ Part-time.

- †**Norman D. Logan, M.D.**, Clinical Instructor in Orthopedic Surgery (1962).
B.A. (1951), Oregon State; M.D. (1955), Oregon.
- ‡**George B. Long, M.D.**, Clinical Professor of Medicine; Senior Consultant in Gastroenterology (1943).
B.A. (1934), Montana State University; M.D. (1939), Northwestern.
- †**John Wayne Loomis, M.D.**, Assistant Clinical Professor of Radiology (1951).
B.A. (1940), Reed; M.D. (1943), Oregon.
- Everett W. Lovrien, M.D.**, Assistant Professor of Pediatrics and Medicine (1966).
B.A. (1955), M.D. (1959), Minnesota.
- Donald C. Lowe, B.S.**, Planning Officer; Instructor (1967).
B.S. (1954), Lewis and Clark.
- †**Lawrence M. Lowell, M.D.**, Assistant Clinical Professor of Cardiopulmonary Surgery (1950).
B.S. (1933), Washington State; M.D. (1936), Oregon.
- †**Henrik A. B. Lundh, M.D.**, Instructor in Medicine (Veterans Hospital) (1965).
M.D. (1957), University of Washington.
- †**Lee B. Lusted, M.D.**, Professor of Radiology (Primate Center) (1962).
B.A. (1943), Cornell College; M.D. (1950), Harvard.
- Charles Lawrence Lutcher, M.D.**, Instructor in Medicine (1966).
A.B. (1957), Whitman; M.D. (1961), Washington University.
- †**Robert C. Luther, M.D.**, Clinical Instructor in Psychiatry (1967).
A.B. (1955), Whitman; M.D. (1959), Oregon.
- †**George P. Lyman, M.D.**, Clinical Associate in Ophthalmology (1954).
B.A. (1926), Pomona; M.D. (1931), Yale.
- ||**Richard B. Lyons, M.D.**, Assistant Professor of Anatomy and Experimental Medicine (1961).
B.S. (1957), M.S., M.D. (1960), Oregon.
- †**J. Oppie McCall, Jr., M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1950).
B.A. (1938), Hamilton; M.D. (1942), New York University.
- Elton L. McCawley, Ph.D.**, Professor of Pharmacology (1949).
A.B. (1938), M.S. (1939), Ph.D. (1942), California.
- †**Guy R. McCutchan, M.D.**, Assistant Clinical Professor of Medicine (1939).
B.S. (1929), Grand Island; M.D. (1931), Nebraska.
- †**Robert B. McFadden, M.D.**, Clinical Instructor in Medicine (1965).
A.B. (1958), Brown; M.D. (1962), Cornell.
- †**Robert G. McKillop, M.D.**, Clinical Instructor in Medicine and in Orthopedic Surgery (1964).
B.A. (1949), Augustana; B.S. (1954), South Dakota; M.D. (1956), Northwestern.
- †**Donald McKinley, M.D.**, Clinical Instructor in Psychiatry (1958).
B.A. (1940), Reed; M.D. (1942), Oregon.
- †**Matthew McKirdie, M.D.**, Clinical Professor of Surgery (1940).
B.S. (1929), University of Chicago; M.D. (1934), Rush (University of Chicago).

† Volunteer.

‡ Part-time.

|| Leave of absence, July 1, 1966 to July 1, 1968.

MEDICAL
SCHOOL
FACULTY

- ‡**Edward N. McLean**, M.D., Assistant Clinical Professor of Ophthalmology (1957).
M.D. (1948), Johns Hopkins.
- †**Raymond A. McMahan**, M.D., Assistant 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., Assistant Clinical Professor of Medicine (1949).
B.A. (1937), Reed; M.D. (1941), Oregon.
- †**Curtis A. Macfarlane**, M.D., Assistant Clinical Professor of Urology (1958).
B.A. (1949), M.D. (1951), Wisconsin.
- David W. Macfarlane**, M.D., Assistant Professor of Pediatrics (1956).
B.S. (1948), M.S., M.D. (1951), Illinois.
- †**William J. M. MacKenzie**, M.B., Ch.B., Clinical Instructor in Psychiatry (1966).
M.B., Ch.B. (1946), Glasgow.
- †**Stephen W. Maks**, M.D., Clinical Instructor in Medicine (1959).
B.S. (1950), University of Portland; M.D. (1953), Creighton.
- †**Manuel R. Malinow**, M.D., Associate Professor of Medicine (Primate Center) (1963).
B.S. (1938), Colegio Nacional de Buenos Aires; M.D. (1944), Buenos Aires Medical School.
- †**Arthur Malley**, Ph.D., Assistant Professor of Microbiology (Primate Center) (1964).
B.A. (1953), B.S. (1957), San Francisco State; Ph.D. (1961), Oregon State.
- Robert W. Marcum**, M.D., Assistant Professor of Surgery (1951).
B.S. (1934), Pacific University; M.D. (1940), Oregon.
- †**F. Keith Markee**, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1952).
B.A. (1944), Willamette; M.D. (1946), Oregon.
- †**R. Kent Markee**, M.D., Clinical Instructor in Surgery (1953).
B.A. (1944), Willamette; M.D. (1946), Oregon.
- †**Richard E. Markley**, M.D., Senior Clinical Instructor in Ophthalmology (1953).
B.A. (1938), Denver; M.D. (1942), Colorado.
- †**Victor C. Marquardt, Jr.**, M.D., Assistant Professor of Clinical Pathology (1964).
B.A. (1953), Wesleyan; M.D. (1957), Nebraska.
- †**Alfred N. Marshall**, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1957).
B.S. (1932), University of Washington; M.D. (1937), Oregon.
- Nancy R. Marshall**, M.Ed., Instructor in Speech Pathology (1966).
B.S. (1958), Portland State; M.Ed. (1959), Portland.

‡ Part-time.
† Volunteer.

- †**Marian M. Martin**, M.P.H., Clinical Instructor in Public Health and Preventive Medicine (1967).
B.A. (1941), Reed; M.P.H. (1958), California.
- †**Cesar A. Maruffo**, M.D., Assistant Professor of Pathology (Primate Center) (1965).
M.D. (1959), Buenos Aires.
- ‡**Harry W. Masenhimer, Jr.**, M.D., Clinical Instructor in Medicine (1960).
B.A. (1949), Princeton; M.D. (1953), Johns Hopkins.
- Howard S. Mason**, Ph.D., Professor of Biochemistry (1952).
B.S. (1935), M.S. (1936), Ph.D. (1939), Massachusetts Institute of Technology.
- †**James A. Mason**, M.D., Senior Clinical Instructor in Orthopedic Surgery (1948).
B.S. (1930), M.D. (1932), Nebraska.
- †**Robert E. Mass**, M.D., Associate Professor of Medicine (Veterans Hospital) (1957).
B.A. (1948), M.D. (1951), Oregon.
- †**John Clifton Massar**, M.D., Assistant Clinical Professor of Dermatology (1955).
B.S. (1945), University of Washington; M.D. (1948), Oregon.
- †**Oliver N. Massengale**, M.D., Assistant 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., Associate Professor of Medical Psychology (1957).
B.A. (1948), Brown; M.S. (1952), Ph.D. (1955), Washington University.
- †**Willard L. Mathiesen**, M.D., Clinical Instructor in Surgery (1956).
M.D. (1945), College of Medical Evangelists (Loma Linda).
- †**Roy R. Matteri**, M.D., Assistant Clinical Professor of Medicine (1946).
B.S. (1940), M.D. (1942), Creighton.
- Fred A. Matthias**, B.B.A., Business Manager; Associate Professor (1962).
B.B.A. (1949), Oregon.
- ‡**Robert H. Mattson**, D.Ed., Associate Professor; Crippled Children's Division (1967).
B.A. (1949), Montana; M.A. (1950), Iowa; D.Ed. (1959), Oregon.
- †**Gordon L. Maurice**, M.D., Assistant Clinical Professor of Medicine (1949).
B.S. (1940), Washington State; M.D. (1943), Oregon.
- †**John Arthur May**, M.D., Associate Clinical Professor of Pediatrics (1948).
B.A. (1939), University of Washington; M.D. (1943), Oregon.
- †**Roland M. Mayer**, M.D., Clinical Instructor in Surgery (1967).
B.S. (1944), South Dakota; M.D. (1946), Northwestern.
- †**Thomas L. Meador**, M.D., Clinical Instructor in Public Health and Preventive Medicine (1947).
B.A. (1921), M.A. (1924), M.D. (1937), Oregon; M.P.H. (1940), Yale.
- †**Norbert E. Medved**, M.D., Assistant Clinical Professor of Medicine (1956).
B.S. (1946), M.D. (1948), Creighton.
- Robert J. Meechan**, M.D., Associate Professor of Pediatrics (1956).
B.A. (1951), Oregon State; M.S., M.D. (1953), Oregon.

† Volunteer.

‡ Part-time.

*MEDICAL
SCHOOL
FACULTY*

- †**Edward Colton Meek, Jr., M.D.**, Associate Clinical Professor of Pathology (1953).
B.S. (1941), Oregon State; M.D. (1944), Johns Hopkins.
- †**S. Spence Meighan, M.B.**, Clinical Instructor in Medicine (1964).
M.B. (1945), Glasgow (Scotland).
- Clifford S. Melnyk, M.D.**, Assistant Professor of Medicine (1967).
M.D. (1959), British Columbia.
- Victor D. Menashe, M.D.**, Assistant Director of Crippled Children's Division; Associate Professor of Pediatrics (1958).
B.S. (1951), M.D. (1953), Oregon.
- †**Robert A. Mendelson, M.D.**, Assistant Clinical Professor of Pediatrics (1964).
B.A. (1955), Reed; M.D. (1959), Oregon.
- †**Ruth L. Mercer, M.A.**, Clinical Instructor in Dietetics (1958).
B.A. (1941), Kansas; M.A. (1948), Columbia.
- †**Rolland C. Merrifield, M.D.**, Clinical Instructor in Orthopedic Surgery (1955).
B.A. (1942), M.D. (1945), Oregon.
- James Metcalfe, M.D.**, Professor of Medicine, Oregon Heart Association Chair of Cardiovascular Research (1961).
A.B. (1944), Brown; M.D. (1946), Harvard.
- †**Donald C. Mettler, M.D.**, Assistant Clinical Professor of Otolaryngology (1956).
B.S. (1952), M.D. (1947), Indiana.
- Ernest A. Meyer, Sc.D.**, Assistant Professor of Microbiology (1958).
A.B. (1949), California; M.S. (1953), Purdue; Sc.D. (1958), Johns Hopkins.
- †**James V. Meyer, M.D.**, Clinical Instructor in Surgery (1965).
B.A. (1948), M.D. (1953), Texas.
- †**Walter E. Meihoff, M.D.**, Clinical Instructor in Medicine (1967).
B.S. (1956), M.D. (1959), Oregon.
- Robert D. Michel, M.D.**, Associate Professor of Medicine (1958).
B.S. (1937), Northwestern; M.D. (1954), Oregon.
- †**Robert L. Mighell, M.D.**, Assistant Clinical Professor of Psychiatry (1962).
B.A. (1950), M.D. (1953), State University of Iowa.
- †**David B. Miller, Jr., M.D.**, Clinical Instructor in Surgery (1959).
B.A. (1949), Dartmouth; M.D. (1953), New York University.
- Michael J. Miller, M.D.**, Assistant Professor of Pediatrics (1967).
B.S. (1955), Santa Clara; M.D. (1960), Oregon.
- †**Robert S. Miller, M.D.**, Assistant Clinical Professor of Radiology (1960).
B.A. (1951), Willamette; M.D. (1955), Oregon.
- Victor Milstein, Ph.D.**, Assistant Professor of Neurology (1966).
B.A. (1951), Brooklyn; M.A. (1952), City College of New York; Ph.D. (1959), Oregon.
- †**Joseph C. Mitchell, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1958).
B.A. (1951), M.D. (1952), Oregon.
- †**William Montagna, Ph.D., D.Sc.**, Professor of Experimental Biology; Head of Division (Director, Oregon Regional Primate Center) (1963).
B.A. (1936), Ph.D. (1944), Cornell; D.Sc. (1960), Bethany.

- †**Thomas R. Montgomery, M.D.**, Clinical Professor of Urology (1939).
B.A. (1928), M.D. (1932), Oregon.
- †**Werner P. Meyn, M.D.**, Clinical Instructor in Pediatrics (1967).
A.B. (1939), Augustana; B.S. (1941), Missouri; M.D. (1943), St. Louis.
- †**E. Albert Moody, M.D.**, Clinical Instructor in Pediatrics (1966).
A.B. (1939), California; M.D. (1943), Rochester.
- †**David W. Moore, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1953).
M.D. (1947), Western Reserve.
- †**Raymond E. Moore, M.D.**, Clinical Instructor in Psychiatry and Physical Medicine in Surgery (1958).
B.A. (1951), Reed; M.D. (1953), Oregon.
- †**Robert J. Moore, M.D.**, Associate Clinical Professor of Urology (1960).
B.A. (1951), M.D. (1955), Oregon.
- †**Joseph I. Moreland, M.D.**, Senior Clinical Instructor in Ophthalmology (1951).
B.S. (1940), M.D. (1941), Washington University.
- Clarence L. Morgan, M.D.**, Instructor in Pediatrics (1967).
B.S. (1954), Tufts; M.D. (1958), Harvard.
- †**Alan L. Morgenstern, M.D.**, Assistant Professor of Psychiatry (1965).
B.A. (1954), Cornell; M.D. (1959), Duke.
- †**James F. Morris, M.D.**, Associate Professor of Medicine (Veterans Hospital) (1957).
A.B. (1943), Ohio Wesleyan; M.D. (1948), Rochester.
- †**Thomas E. Morris, Jr., M.D.**, Assistant Clinical Professor of Medicine (1960).
B.A. (1938), Pacific University; M.D. (1952), Oregon.
- †**Carl V. Morrison, M.D.**, Associate Clinical Professor of Psychiatry (1947).
M.D. (1933), Iowa.
- William E. Morton, M.D.**, Associate Professor of Public Health and Preventive Medicine (1967).
B.S. (1952), Puget Sound; M.D. (1955), M.P.H. (1960), Dr.P.H. (1962), University of Washington.
- †**Jan J. Muller, D.D.S.**, Senior Clinical Instructor in Dental and Oral Medicine (1959).
H.B.S. (1935), Drafne Lyceum, Bussum (Holland); D.D.S. (1939), Minnesota.
- †**John J. Murphy, M.D.**, Senior Clinical Instructor in Medicine (1948).
B.A. (1938), Carroll; M.D. (1942), Michigan.
- Roberta S. Murray, Ph.D.**, Instructor in Speech Pathology, Pediatrics (1964).
B.A. (1955), Brigham Young; M.A. (1959) Ph.D. (1962), Stanford.
- †**Paul B. Myers, M.D.**, Assistant Clinical Professor of Otolaryngology (1950).
B.A. (1944), Oregon State; M.D. (1946), Oregon.
- †**Joseph W. Nadal, M.D.**, Assistant Clinical Professor of Surgery (1944).
A.B. (1932), Drury; M.D. (1937), Harvard; M.S. (1941), Michigan.
- †**George A. Nash, M.D.**, Associate Clinical Professor of Pediatrics (1954).
B.S. (1945), M.D. (1948), Oregon.

† Volunteer.
‡ Part-time.

*MEDICAL
SCHOOL
FACULTY*

- †**Jack Naylor**, M.D., Clinical Instructor in Surgery (1965).
B.A. (1951), Reed; M.S. (1952), Illinois Institute of Technology; M.D. (1957), Oregon.
- William A. Neill**, M.D., Associate Professor of Medicine (1963).
B.A. (1951), Amherst; M.D. (1955), Cornell.
- †**Duncan R. Neilson**, M.D., Associate Clinical Professor of Obstetrics and Gynecology (1946).
A.B. (1934), Pacific University; M.D. (1938), Oregon.
- C. Donald Nelson**, Ph.D., Assistant Professor of Speech Pathology (1966).
B.S. (1953), M.S. (1957), Utah; Ph.D. (1965), University of Washington.
- †**Gunnar E. C. Nelson**, M.D., Associate Clinical Professor of Obstetrics and Gynecology (1937).
Ph.G. (1923), B.S. (1925), Washington State; M.D. (1933), Oregon.
- †**Marilyn A. Nelson**, M.D., Assistant Clinical Professor of Pediatrics (1963).
B.S. (1956), Lewis and Clark; M.D. (1959), Oregon.
- †**Gregory B. Nichols**, M.D., Clinical Instructor in Radiology (1950).
M.D. (1943), Creighton.
- †**H. Minor Nichols**, M.D., Senior Clinical Instructor in Surgery (1940).
Ph.B. (1930), Yale; M.D. (1934), Oregon; M.S. (1937), Pennsylvania.
- Kenneth A. Niehans**, B.A., Director of Public Affairs; Assistant Professor (1963).
B.A. (1957), Oregon.
- Nelson R. Niles**, M.D., Professor of Pathology (1952).
M.D. (1947), Cornell.
- †**Lawrence Noall**, M.D., Associate Clinical Professor of Orthopedic Surgery (1941).
B.A. (1931), B.M. (1934), Utah; M.D. (1936), Northwestern.
- †**Joseph E. Nohlgren**, M.D., Associate Clinical Professor of Pathology (1949).
B.S. (1935), South Dakota State; M.D. (1943), Oregon.
- †**Harold J. Noyes**, D.D.S., M.D., Clinical Professor of Dental and Oral Medicine (1946).
Ph.B. (1923), University of Chicago; B.S. (1928), D.D.S. (1928), Illinois; M.D. (1933), Rush (University of Chicago).
- Evelyn L. Oginsky**, Ph.D., Professor of Microbiology (1957).
B.A. (1938), Cornell; M.S. (1939), University of Chicago; Ph.D. (1946), Maryland.
- †**John D. O'Hollaren**, M.D., Assistant Clinical Professor of Medicine (1959).
B.S. (1945), M.D. (1947), Oregon.
- Richard W. Olmsted**, M.D., Professor of Pediatrics; Chairman of Department (1962).
B.A. (1941), Dartmouth; M.D. (1944), Harvard.
- †**Donald E. Olson**, M.D., Ph.D., Assistant Clinical Professor of Medicine (1955).
B.A. (1943), Reed; M.S., M.D. (1947), Ph.D. (1948), Oregon.
- †**William R. Olson**, M.D., Clinical Instructor in Medicine (1961).
B.S. (1950), M.D. (1954), Creighton.
- †**James R. Orendurff**, M.D., Assistant Professor of Pathology (Veterans Hospital) (1964).
B.A. (1950), M.A. (1954), M.D. (1959), Oregon.

- †**Samuel Osborn, M.D.**, Clinical Instructor in Orthopedic Surgery (1958).
B.S. (1942), Michigan State; M.D. (1945), Michigan.
- Edwin E. Osgood, M.D.**, Professor of Medicine (1922).
B.A. (1923), M.A., M.D. (1924), Oregon.
- †**Samuel B. Osgood, M.D.**, Clinical Instructor in Public Health and Preventive Medicine (1951).
B.S. (1931), M.D. (1935), Oregon; M.S.P.H. (1939), California.
- Harold T. Osterud, M.D.**, Professor of Public Health and Preventive Medicine; Acting Chairman of Department (1961).
B.S. (1944), Randolph Macon; M.D. (1947), Medical College of Virginia; M.P.H. (1951), North Carolina.
- †**Arthur L. Ovregaard, M.D.**, Clinical Instructor in Radiology (1954).
B.A. (1944), College of Idaho; M.D. (1948), Oregon.
- †**Albert A. Oyama, M.D.**, Assistant Clinical Professor of Pathology and Clinical Pathology (1959).
B.S. (1951), M.D. (1953), Oregon.
- †**Otto C. Page, M.D.**, Assistant Clinical Professor of Medicine (1952).
B.S. (1941), M.D. (1944), Boston University.
- †**Robert N. Page, Jr., M.D.**, Clinical Instructor in Ophthalmology (1967).
B.A. (1955), M.D. (1959), Virginia.
- †**Marion E. Palmer, M.D.**, Clinical Instructor in Anesthesiology (1950).
B.S. (1938), Stanford; M.D. (1944), Washington University.
- †**Richard P. Panian, M.D.**, Clinical Instructor in Otolaryngology (1965).
B.S. (1952), Oregon State; M.D. (1960), Oregon.
- †**Joseph F. Paquet, M.D.**, Assistant Clinical Professor of Medicine (1944).
M.D. (1940), Duke.
- †**M. Ronald Parelius, M.Sc., LL.B.**, Director of Research Services; Assistant Professor (1962).
B.B.A. (1953), Oregon; M.Sc. (1954), New York University; LL.B. (1962), Northwestern College of Law.
- †**Robert S. Parker, D.M.D.**, Senior Clinical Instructor in Dental and Oral Medicine (1966).
D.M.D. (1939), Oregon.
- †**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.**, Senior Clinical Instructor in Surgery (1964).
A.B. (1953), Dartmouth; M.D. (1956), Harvard.
- †**John W. Partridge, M.D.**, Senior Clinical Instructor in Medicine (1957).
B.S. (1943), M.D. (1945), University of Chicago.
- †**Guy A. Parvaresh, M.D.**, Assistant 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.**, Assistant Clinical Professor of Urology (1953).
B.A. (1942), Antioch; M.D. (1945), Western Reserve.

*MEDICAL
SCHOOL
FACULTY*

- †**Duane R. Paulson**, D.D.S., Senior Clinical Instructor in Dental and Oral Medicine (1957).
B.S. (1949), Puget Sound; D.D.S. (1954), Northwestern.
- Ira B. Pauly**, M.D., Assistant Professor of Psychiatry (1962).
B.A. (1954), M.D. (1958), U.C.L.A.
- Harold D. Paxton**, M.D., Professor of Neurosurgery (1956).
M.D. (1948), Johns Hopkins.
- †**Roy A. Payne**, M.D., Clinical Associate in Medicine (1960).
B.S. (1953), University of Portland; M.D. (1955), Oregon.
- Anthony A. Pearson**, Ph.D., Professor of Anatomy; Chairman of Department (1946).
B.S. (1928), Furman; M.A. (1930), Ph.D. (1933), Michigan.
- †**George A. Peirson**, M.D., Clinical Instructor in Surgery and Physical Therapy (1966).
B.A. (1945), Oregon State; M.D. (1947), Oregon.
- †**Anne M. Perley**, M.A., Assistant Professor of Biochemistry (Primate Center) (1951).
B.A. (1927), Grinnell; M.A. (1929), Nebraska.
- †**Frank Perlman**, M.D., Clinical Professor of Medicine (1935).
B.S. (1931), M.D. (1933), Wisconsin.
- Robert H. Persellin**, M.D., Assistant Professor of Medicine (1964).
B.S. (1952), M.D. (1956), M.S. (1959), Northwestern.
- Clare G. Peterson**, M.D., Professor of Surgery (1944).
B.A. (1939), M.D. (1943), M.S. (1945), Oregon.
- Edward N. Peterson**, M.D., Assistant Professor of Obstetrics and Gynecology (1961).
B.S. (1952), M.D. (1954), Minnesota.
- †**Heyes Peterson**, M.D., Assistant Clinical Professor of Medicine (1947).
B.S. (1934), University of Washington; M.D. (1938), University of Chicago.
- †**John C. Peterson**, D.M.D., M.S.D., Clinical Instructor in Dental and Oral Medicine (1966).
B.S. (1955), Washington State; D.M.D. (1955), Oregon; M.S.D. (1961), Washington.
- †**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. Phillips**, M.D., Clinical Instructor in Radiology (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.
- Jeanne S. Phillips**, Ph.D., Associate Professor of Medical Psychology (1957).
A.B. (1951), Ph.D. (1957), Washington University.
- †**Richard H. Phillips**, M.D., Clinical Instructor in Psychiatry (1964).
B.S. (1959), Portland State; M.D. (1960), Oregon.

- †**Charles H. Phoenix**, Ph.D., Professor of Medical Psychology (Primate Center) (1965).
B.A. (1945), Connecticut; M.A. (1950), Ph.D. (1954), Boston.
- †**Nigel A. Pickering**, M.D., Assistant Clinical Professor of Clinical Pathology (1961).
M.D. (1945), Manitoba.
- †**Wayne M. Pidgeon**, M.D., Assistant Clinical Professor of Psychiatry (1959).
B.S. (1947), M.D. (1951), Oregon.
- †**Charles T. Pinney**, M.D., Clinical Instructor in Medicine (1959).
A.B. (1943), M.D. (1946), Michigan.
- Bernard Pirofsky**, M.D., Professor of Medicine; Head of Division of Immunology, Allergy, and Infectious Diseases (1956).
A.B. (1946), M.D. (1950), New York University.
- Donald M. Pitcairn**, M.D., Professor of Medicine; Head of Division of Chest Diseases (1949).
B.A. (1944), Harvard; M.D. (1945), Oregon.
- †**Robert G. Pittenger**, M.D., Clinical Instructor in Medicine (1957).
B.S. (1948), M.D. (1950), Oregon.
- †**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; Assistant 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., Assistant Clinical Professor of Dental and Oral Medicine (1953).
D.D.S. (1951), M.S. (1953), Michigan.
- George A. Porter**, M.D., Assistant Professor of Medicine (1964).
B.S. (1953), Oregon State; M.S., M.D. (1957), Oregon.
- †**Oscar W. Portman**, M.D., Professor of Biochemistry (Primate Center) (1965).
B.S. (1945), U. S. Military Academy; M.D. (1954), Harvard.
- †**William E. Purnell**, M.D., Clinical Instructor in Radiology (1966).
M.D. (1948), Boston.
- †**Irving Puziss**, M.D., Clinical Instructor in Surgery (1956).
B.S. (1946), M.D. (1948), Oregon.
- Arlen Quan**, M.D., Assistant Professor of Psychiatry (1964).
B.A. (1955), Reed; M.D. (1957), Oregon.
- †**John Raaf**, M.D., Ph.D., Clinical Professor of Neurosurgery; Senior Consultant (1937).
B.A. (1926), M.D. (1930), Stanford; M.S. (1935), Ph.D. (1941), Minnesota.
- †**James Richard Raines**, M.D., Assistant Clinical Professor of Radiology (1947).
B.A. (1933), M.D. (1935), Oklahoma.
- Alfred J. Rampone**, Ph.D., Associate Professor of Physiology (1955).
B.A. (1947), M.A. (1950), British Columbia; Ph.D. (1954), Northwestern.

*MEDICAL
SCHOOL
FACULTY*

- James de Witt Rankin**, B.S., Instructor in Cytotechnology, Pathology (1959).
B.S. (1951), University of Portland.
- †**Robert M. Rankin**, M.D., Clinical Instructor in Orthopedic Surgery (1954).
B.A. (1944), Reed; M.D. (1946), Oregon.
- †**Robert E. Ransmeier**, M.D., Assistant Clinical Professor of Psychiatry (1965).
B.S. (1945), M.Sc. (1949), Ph.D. (1953), Chicago; M.D. (1957), Colorado.
- †**Michael R. Rask**, M.D., Clinical Instructor in Orthopedic Surgery (1965).
B.S. (1952), Oregon State; M.D. (1955), Oregon.
- L. Paul Rasmussen**, M.D., Associate Professor of Pediatrics (1962).
B.A. (1932), Utah; M.D. (1935), Duke.
- †**Jesse L. Ray**, M.D., Assistant Clinical Professor of Obstetrics and Gynecology (1953).
B.A. (1935), M.D. (1939), Stanford.
- †**Leon F. Ray**, M.D., Clinical Professor of Dermatology (1939).
Ph.C. (1930), North Pacific College of Pharmacy; B.S. (1931), Oregon State; M.D. (1935), Oregon.
- †**Ralph B. Reaume**, M.D., Assistant Clinical Professor of Medicine (1959).
M.D. (1953), Washington University.
- †**Edgar M. Rector**, M.D., Associate Clinical Professor of Pediatrics (1946).
S.B. (1937), Haverford; M.D. (1941), Harvard.
- †**John T. Redfield**, M.D., Clinical Instructor in Environmental Medicine (1967).
B.A. (1954), M.D. (1957), Wisconsin; M.S. (1965), Ohio State.
- †**Daniel L. Reed**, M.D., Clinical Instructor in Surgery (1964).
B.S. (1952), Michigan State; M.D. (1956), Michigan.
- †**Melvin M. Reeves**, M.D., Clinical Instructor in Surgery (1957).
B.S. (1943), Hamline; B.M. (1946), M.D. (1947), M.S. (1957), Minnesota.
- †**Walter C. Reiner**, M.D., Clinical Instructor in Surgery (1948).
B.S. (1930), Montana State University; M.D. (1934), College of Medical Evangelists (Loma Linda).
- †**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.
- †**Norman H. Rickles**, D.D.S., Senior Clinical Instructor in Pathology and Assistant Clinical Professor of Dental and Oral Medicine (1957).
D.D.S. (1947), Washington University; M.S. (1951), California.
- Demetrios A. Rigas**, Ph.D., Professor of Biochemistry and Experimental Medicine (1953).
Ch.E. (1941), Ph.D. (1943), National University of Engineering Science, Athens (Greece).
- †**James A. Riley**, M.D., Assistant Clinical Professor of Medicine (1949).
B.A. (1941), Oregon State; M.D. (1943), Oregon.
- †**Robert E. Rinehart**, M.D., Senior Clinical Instructor in Medicine (1953).
B.S. (1937), Oregon State; M.S., M.D. (1942), Oregon.
- Marvin B. Rittenberg**, Ph.D., Assistant Professor of Microbiology and Medicine (1966).
B.A. (1954), M.A. (1959), Ph.D. (1961), California.

- †**Leonard W. Ritzmann, M.D.**, Professor of Medicine (Veterans Hospital) (1954).
B.A. (1942), Valparaiso; M.D. (1945), Washington University.
- C. Evans Roberts, M.D.**, Assistant Professor of Clinical Pathology and Medicine (1966).
B.A. (1953), Haverford; M.D. (1957), Columbia.
- †**Joseph M. Roberts, M.D.**, Senior Clinical Instructor in Surgery (1936).
B.A. (1929), M.D. (1932), Oregon.
- †**Keith A. Robertson, M.D.**, Clinical Instructor in Surgery (1966).
B.S. (1956), M.D. (1960), Oregon.
- Ralph D. Robertson, M.D.**, Assistant Professor of Surgery (1964).
A.B. (1954), M.D. (1957), Harvard.
- †**George M. Robins, M.D.**, Assistant Clinical Professor of Medicine (1948).
B.A. (1936), Columbia; M.D. (1940), Louisville.
- †**Edwin G. Robinson, M.D.**, Senior Clinical Instructor in Orthopedic Surgery (1950).
M.D. (1930), Northwestern.
- †**Paul J. Robinson, M.D.**, Clinical Instructor in Ophthalmology (1962).
B.A. (1951), Southern California; M.D. (1955), Yale.
- Thomas L. W. Roe, M.D.**, Instructor in Pediatrics (1967).
B.S. (1959), Oregon State; M.D. (1961), Oregon.
- Allan L. Rogers, B.S.**, Director of Animal Care Program; Assistant Professor (1961).
B.S. (1944), Connecticut.
- †**Wayne R. Rogers, M.D.**, Assistant Clinical Professor of Medicine (1956).
M.D. (1947), Tennessee.
- †**Troy G. Rollins, M.D.**, Senior Clinical Instructor in Dermatology (1966).
B.S. (1945), M.S. (1946), M.D. (1948), Minnesota.
- †**Donald V. Romanaggi, M.D.**, Clinical Instructor in Medicine (1966).
B.S. (1956), Portland; M.D. (1960), Loyola.
- Gary J. Rood, M.A.**, Assistant Administrator, Medical School Hospital; Instructor (1967).
B.S. (1961), Walla Walla; M.A. (1964), Iowa.
- †**Hilton W. Rose, M.D.**, Assistant Clinical Professor of Environmental Medicine (1965).
L.L.S. (1927), Sorbonne; B.A. (1928), M.D. (1931), Oregon.
- †**Leonard B. Rose, M.D.**, Assistant Clinical Professor of Medicine (1956).
A.B. (1939), New York University; M.D. (1943), Georgetown.
- †**Edward E. Rosenbaum, M.D.**, Associate Clinical Professor of Medicine (1948).
B.S. (1936), M.D. (1938), Nebraska; M.S. (1947), Minnesota.
- †**William M. Rosenbaum, M.D.**, Clinical Instructor in Surgery (1949).
B.S. (1938), M.D. (1940), Nebraska.
- †**Millard S. Rosenblatt, M.D.**, Clinical Professor of Surgery (1930).
A.B. (1922), Stanford; M.D. (1925), Harvard.
- Heather G. Rosenwinkel, M.A.**, Assistant Catalog Librarian; Instructor (1965).
B.A. (1959), Bishop's University (Ontario); M.A. (1966), Minnesota.

*MEDICAL
SCHOOL
FACULTY*

- Benjamin B. Ross**, Ph.D., Associate Professor of Physiology (1954).
B.S. (1949), Union; Ph.D. (1954), Rochester.
- John Clarence Roth**, M.D., Associate Professor of Anesthesiology (1957).
B.A. (1949), Willamette; M.D. (1954), Oregon.
- †**John Gordon Roth**, M.D., Assistant Professor of Neurology (Primate Center) (1958).
A.B. (1947), Wichita; M.D. (1950), Kansas.
- †**Willard D. Rowland**, M.D., Senior Clinical Instructor in Surgery (1947).
A.B. (1936), M.D. (1940), Washington University.
- †**James T. Rule**, D.D.S., Clinical Instructor in Dental and Oral Medicine (1963).
D.D.S. (1957), Temple; M.S. (1960), University of Chicago.
- †**David R. Rullman**, M.D., Clinical Instructor in Medicine (1964).
B.S. (1953), M.D. (1957), Cincinnati.
- †**Irvin F. Rumbaugh**, M.D., Clinical Instructor in Medicine (1963).
B.S. (1951), Franklin and Marshall; M.D. (1955), Pennsylvania.
- †**Arnold Rustin**, M.D., Assistant Clinical Professor of Urology (1954).
M.D. (1950), Iowa.
- †**Bernard F. Ryan**, M.D., Assistant Clinical Professor of Dermatology (1960).
B.A. (1934), M.D. (1936), Oregon; M.S. (1945), Minnesota.
- †**Bruce P. Ryan**, Ph.D., Assistant Professor of Speech Pathology and Audiology (1967).
B.S. (1953), Southern Oregon; M.A. (1957), Western Michigan; Ph.D. (1964), Pittsburgh.
- †**Ivan L. Sandoz**, M.D., Clinical Instructor in Urology (1964).
B.Sc. (1953), M.D. (1957), Ohio State.
- George Saslow**, M.D., Ph.D., Professor of Psychiatry; Chairman of Department (1957).
Sc.B. (1926), Ph.D. (1931), New York University; M.D. (1940), Harvard.
- Makato Sato**, M.D., Ph.D., Assistant Professor of Neurosurgery (1965).
M.D. (1954), Ph.D. (1959), Iwate Medical College (Japan).
- †**George R. Satterwhite**, M.D., Assistant Clinical Professor of Radiology (1959).
B.S. (1950), Seattle; 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**, B.D.S., Senior Clinical Instructor in Dental and Oral Medicine (1950).
B.D.S. (1946), De Montmorency College of Dentistry, Lahore (India); L.D.S., R.C.S. (1947), Royal Dental Hospital, London; 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.

† Volunteer.
‡ Part-time.

FACULTY

- George W. Schemm, M.D.**, Assistant Professor of Neurosurgery (1963).
B.S. (1952), Yale; M.D. (1955), Michigan.
- †**Quinten Scherman, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1953).
B.A. (1942), M.A. (1943), South Dakota; M.D. (1945), Oregon.
- Wallace A. Schindler, D.D.S.**, Assistant Professor of Dental and Oral Medicine (1965).
D.D.S. (1952), Creighton.
- †**Elizabeth H. Schirmer, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1961).
B.S., M.D. (1926), Illinois.
- Alexander J. Schleuning, M.D.**, Assistant Professor of Otolaryngology (1967).
B.A. (1956), Stanford, M.D. (1960), Oregon.
- †**Alfred J. Schroeder, M.D.**, Clinical Instructor in Otolaryngology (1967).
B.A. (1951), Michigan State; M.D. (1957), Michigan.
- †**George J. Schunk, M.D.**, Associate Clinical Professor of Pediatrics (1954).
A.B. (1943), Jamestown; B.S. (1944), North Dakota; M.D. (1946), Illinois.
- †**Marvin Schwartz, M.D.**, Assistant Clinical Professor of Medicine (1945).
A.B. (1935), M.D. (1939), M.S. (1945), Wayne.
- †**William C. Scott, M.D.**, Assistant Clinical Professor of Medicine (1946).
B.S. (1935), College of Idaho; B.M. (1939), M.D. (1940), Northwestern.
- Arthur J. Seaman, M.D.**, Professor of Medicine (1948).
B.A. (1939), M.D. (1942), Cincinnati.
- Geoffrey V. F. Seaman, Ph.D.**, Assistant Professor of Biochemistry and Neurology (Neurochemistry) (1966).
B.Sc. (1955), Royal College of Science; Ph.D. (1959), Cambridge.
- †**Philip Selling, M.D.**, Associate Clinical Professor of Medicine (1946).
B.A. (1935), Reed; M.D. (1939), Oregon.
- †**Herbert J. Semler, M.D.**, Clinical Instructor in Medicine (1960).
B.S. (1949), University of Washington; M.S., M.D. (1953), Oregon.
- †**Will L. Senders, M.D.**, Senior Clinical Instructor in Medicine (1957).
B.S. (1947), Willamette; M.D. (1950), Oregon.
- †**David L. Sessions, M.D.**, Assistant Clinical Professor of Pediatrics; Clinical Instructor in Psychiatry (1964).
A.B. (1954), Princeton; M.D. (1958), Washington University.
- Harry Shaich, M.S.**, Assistant Professor of Radiology (1962).
B.E.E. (1948), Cornell; M.S. (1958), State College, New York; M.S. (1962), Columbia.
- †**Ralph E. Shambaugh, M.D.**, Senior Clinical Instructor in Medicine (1960).
M.D. (1948), Nebraska.
- †**James C. Shanklin, M.D.**, Associate Clinical Professor of Psychiatry (1952).
M.D. (1939), Indiana.
- Alice M. Shannon, M.D.**, Instructor in Anesthesiology (1967).
B.S. (1959), Mount St. Vincent; M.D. (1963), Maryland.
- †**John M. Shaw, M.D.**, Assistant Clinical Professor of Dermatology (1959).
M.D. (1949), Michigan.
- †**William H. Sheldon, M.D., Ph.D.**, Clinical Professor of Medicine (1951).
B.A. (1919), Brown; M.A. (1923), Colorado; Ph.D. (1925), M.D. (1933), University of Chicago.

**MEDICAL
SCHOOL
FACULTY**

- †**Ambrose B. Shields, M.D.**, Senior Clinical Instructor in Surgery (1966).
B.S. (1938), M.D. (1940), Kansas.
- †**Fred C. Shippy, M.D.**, Assistant Clinical Professor of Radiology (1954).
A.B. (1942), Ohio Wesleyan; M.D. (1945), Western Reserve.
- †**Nathan Shlim, M.D.**, Clinical Instructor in Surgery (1956).
B.A. (1937), Wisconsin; M.D. (1941), Rush (University of Chicago).
- †**Faulkner A. Short, M.D.**, Clinical Associate in Orthopedic Surgery (1945).
B.A. (1932), M.D. (1936), Oregon.
- ||**Frank Shubeck, M.D.**, Assistant Professor of Obstetrics and Gynecology (1958).
B.S. (1949), M.D. (1953), Michigan.
- Benjamin V. Siegel, Ph.D.**, Professor of Pathology (1961).
B.S. (1934), Georgia; M.A. (1937), Columbia; Ph.D. (1950), Stanford.
- †**Ranvir H. Sinanan, M.B.**, Clinical Instructor in Pediatrics (1967).
M.B., B.Ch. (1960), Queen's, Belfast.
- Richard L. Sleeter, M.D.**, Assistant Dean; Director of Crippled Children's Division; Professor of Pediatrics (1953).
B.A. (1940), Oregon; M.D. (1943), Washington University.
- †**Donald B. Slocum, M.D.**, Assistant Clinical Professor of Orthopedic Surgery (1956).
B.S. (1932), Stanford; M.D. (1935), Oregon; M.S. (1939), Tennessee.
- †**Richard D. Sloop, M.D.**, Clinical Instructor in Surgery (1965).
B.S. (1954), Oregon State; M.D., M.S. (1956), Oregon.
- †**Frank B. Smith, M.D.**, Associate Clinical Professor of Orthopedic Surgery (1944).
B.A. (1933), Southern California; C.M., M.D. (1937), McGill; M.A. (Orth. Surg.) (1943), Minnesota.
- †**Frederic W. Smith, M.D.**, Associate Professor of Medicine (Veterans Hospital) (1960).
B.S. (1947), Kansas State; M.D. (1956), Cornell.
- †**John C. Smith II, M.D.**, Assistant Clinical Professor of Pathology (1960).
B.S. (1950), Oklahoma; M.D. (1954), Johns Hopkins.
- †**Kent Ronald Smith, M.D.**, Clinical Instructor in Medicine (1963).
B.A. (1954), Reed; M.D. (1956), Oregon.
- †**Lendon H. Smith, M.D.**, Associate Clinical Professor of Pediatrics (1951).
B.A. (1944), Reed; M.D. (1946), Oregon.
- †**Mary Anne Smith, M.D.**, Clinical Instructor in Psychiatry (1965).
B.A. (1951), Wellesley; M.D. (1959), Cornell.
- †**Philip A. Snedecor, M.D.**, Clinical Instructor in Surgery (1958).
A.B. (1949), Stanford; M.D. (1953), Oregon.
- †**Vinton D. Sneed, M.D.**, Clinical Professor of Pathology (1939).
B.A. (1932), Linfield; M.D. (1936), Oregon.
- William E. Snell, M.D.**, Professor of Orthopedic Surgery; Head of Division (1951).
B.S. (1943), M.D. (1945), Oregon.
- †**R. Glenn Snodgrass, M.D.**, Clinical Instructor in Neurology (1964).
B.A. (1952), M.D. (1955), Kansas.

† Volunteer.

|| Leave of absence, September 1, 1966 to August 31, 1967.

‡ Part-time.

- †**William M. Snook, M.D.**, Assistant Clinical Professor of Pediatrics (1954).
M.D. (1949), Virginia.
- †**John L. Soelling, M.D.**, Assistant Clinical Professor of Medicine (1953).
B.A. (1944), Columbia; M.D. (1946), New York Medical College.
- †**Charles H. Sparks, M.D.**, Senior Clinical Instructor in Cardiopulmonary Surgery (1958).
B.S. (1944), Missouri School of Mines; M.D. (1951), St. Louis.
- ‡**James T. Speros, M.D.**, Professor of Medicine (1940).
B.A. (1931), M.D. (1934), Oregon; M.P.H. (1941), Johns Hopkins.
- †**Sheldon Spielman, M.D.**, Clinical Instructor in Obstetrics and Gynecology (1966).
B.S. (1952), Western Reserve; M.D. (1956), New York.
- †**John H. Springer, M.D.**, Assistant Clinical Professor of Pediatrics (1961).
B.S. (1953), University of Portland; M.D. (1957), Loyola.
- †**George V. Squire, M.D.**, Clinical Instructor in Medicine (1959).
B.A. (1942), Iowa; B.S. (1949), M.D. (1951), Minnesota.
- †**John H. Stalnaker, M.D.**, Clinical Instructor in Medicine (1951).
B.A. (1941), Willamette; M.D. (1945), Oregon.
- †**Thad C. Stanford, M.D.**, Clinical Instructor in Orthopedic Surgery (1965).
A.B. (1945), M.D. (1958), Michigan.
- †**Robert E. Stanton, M.D.**, Clinical Instructor in Pediatrics (1966).
B.A. (1954), M.D. (1957), California.
- Albert Starr, M.D.**, Professor of Cardiopulmonary Surgery; Head of Division (1957).
B.A. (1946), M.D. (1949), Columbia.
- †**Grier F. Starr, M.D.**, Assistant Clinical Professor of Pathology (1959).
B.S. (1947), Jamestown; M.D. (1951), Northwestern.
- †**Howard C. Stearns, M.D.**, Clinical Professor of Obstetrics and Gynecology (1932).
B.S. (1924), M.S. (1925), Oregon State; M.D. (1929), Oregon.
- †**Dan N. Steffanoff, M.D., D.M.D.**, Senior Clinical Instructor in Surgery (1951).
B.A. (1930), M.D. (1934), D.M.D. (1942), Oregon.
- †**John W. Stephens, M.D.**, Associate Clinical Professor of Medicine (1953).
B.S. (1939), M.D. (1944), Alberta.
- Janice R. Stevens, M.D.**, Associate Professor of Neurology (1955).
B.A. (1944), Reed; M.D. (1949), Boston University.
- †**John L. Stevenson, Jr., M.D.**, Assistant Clinical Professor of Pediatrics (1957).
A.B. (1950), Stanford; M.D. (1954), Oregon.
- †**Gordon A. Stoney, M.D.**, Clinical Instructor in Radiology (1965).
B.S. (1952), M.D. (1955), Cincinnati.
- †**Henry E. Storino, M.D.**, Clinical Instructor in Neurology (1966).
B.S. (1949), Washington State; M.D. (1953), Creighton.
- William A. Stotler, Ph.D.**, Professor of Anatomy (1946).
A.B. (1935), Westminster; M.S. (1937), St. Louis; Ph.D. (1942), Cornell.

† Volunteer.

‡ Part-time.

*MEDICAL
SCHOOL
FACULTY*

- †**Evelyn M. Strange**, D.M.D., Clinical Associate in Dental and Oral Medicine (1961).
D.M.D. (1950), Oregon.
- †**Kurt R. Straube**, M.D., Associate Clinical Professor of Radiology (1960).
M.D. (1952), Vienna.
- †**Agnar A. Straumfjord**, M.D., Clinical Instructor in Psychiatry (1966).
B.A. (1950), Willamette; M.S., M.D. (1955), Oregon.
- †**Eugene S. Sullivan**, M.D., Clinical Instructor in Surgery (1959).
B.S. (1950), M.D. (1953), Wisconsin.
- †**Ralph R. Sullivan**, M.D., Associate Clinical Professor of Environmental Medicine; Clinical Instructor in Dermatology (1951).
B.S. (1927), M.B. (1929), M.D. (1930), Minnesota; M.P.H. (1942), Michigan.
- Raymond R. Suskind**, M.D., Professor of Environmental Medicine and Dermatology; Head of Division of Environmental Medicine (1962).
A.B. (1934), Columbia; M.D. (1943), Long Island (State University of New York).
- †**Donald W. Sutherland**, M.D., Senior Clinical Instructor in Medicine (1963).
B.A. (1953), Amherst; M.D. (1957), Harvard.
- Kenneth C. Swan**, M.D., Professor of Ophthalmology; Chairman of Department (1944).
B.A. (1933), M.D. (1936), Oregon.
- Roy L. Swank**, M.D., Ph.D., Professor of Medicine; Head of Division of Neurology (1953).
B.S. (1930), University of Washington; Ph.D. (1935), M.D. (1936), Northwestern.
- Robert E. Swanson**, Ph.D., Associate Professor of Physiology (1961).
B.A. (1949), Ph.D. (1953), Minnesota.
- †**William R. Sweetman**, M.D., Senior Clinical Instructor in Cardiopulmonary Surgery (1953).
B.A. (1940), M.D. (1943), Yale.
- †**William J. Swett**, M.D., Assistant Clinical Professor of Medicine (1938).
B.A. (1928), Reed; M.D. (1932), Oregon.
- †**Thomas E. Talbot**, M.D., Assistant Clinical Professor of Ophthalmology (1953).
B.S. (1942), Oregon State; M.D. (1945), Oregon.
- †**K. Nolan Tanner**, M.D., Ph.D., Senior Clinical Instructor in Ophthalmology (1964).
B.A. (1943), Reed; Ph.D. (1950), Rochester; M.D. (1960), Oregon.
- †**Donald E. Tatum**, M.D., Clinical Instructor in Medicine (1966).
B.A. (1936), Ph.D. (1941), M.D. (1943), Wisconsin.
- †**Robert E. Taubman**, M.D., Ph.D., Assistant Clinical Professor of Psychiatry (1964).
B.A. (1941), College of City of New York; M.A. (1942), Ph.D. (1948), Columbia; M.D. (1960), Nebraska.
- †**David K. Taylor**, M.D., Assistant Clinical Professor of Medicine (1946).
B.A. (1929), College of Idaho; M.D. (1940), Oregon.
- †**E. Merle Taylor**, M.D., Clinical Professor of Ophthalmology (1932).
M.D. (1925), Iowa.

- †**T. Glenn Ten Eyck, M.D.**, Assistant Professor of Otolaryngology (Veterans Hospital) (1946).
B.A. (1930), M.D. (1933), Oregon.
- Leif G. Terdal, Ph.D.**, Assistant Professor of Medical Psychology (1965).
B.A. (1959), Taylor; M.A. (1961), Ph.D. (1965), Michigan State.
- †**Gerald A. Terman, M.D.**, Clinical Instructor in Ophthalmology (1963).
B.A. (1951), Chicago; M.D. (1957), Northwestern.
- †**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.**, Senior Instructor in Anesthesiology (1963).
B.S. (1956), Lewis and Clark; M.D. (1959), Oregon.
- †**John W. Thompson, M.D.**, Clinical Instructor in Orthopedic Surgery (1967).
B.A. (1955), Reed; M.D. (1959), Oregon.
- Richard F. Thompson, Ph.D.**, Professor of Medical Psychology (1959).
B.S. (1952), Reed; M.S. (1953), Ph.D. (1956), Wisconsin.
- †**Robert E. Thornfeldt, M.D.**, Assistant Clinical Professor of Pediatrics (1963).
B.S. (1942), Washington State; M.D. (1945), Northwestern.
- †**Robert H. Tinker, M.D.**, Clinical Instructor in Surgery (1942).
B.S. (1938), B.M. (1940), M.D. (1941), Illinois.
- †**Bruce L. Titus, M.D.**, Assistant Clinical Professor of Otolaryngology (1943).
B.A. (1930), M.D. (1934), Oregon.
- Wilbert R. Todd, Ph.D.**, Professor of Biochemistry (1936).
B.S. (1928), Ph.D. (1933), Wisconsin.
- John S. Tovey, M.S.W.**, Assistant Professor of Psychiatric Social Work (1964).
B.S. (1955), Portland; M.S.W. (1959), St. Louis.
- †**William E. Tracy, D.D.S.**, Clinical Instructor in Dental and Oral Medicine and Pediatrics (1966).
D.D.S. (1956), Tennessee.
- Joseph B. Trainer, M.D.**, Associate Professor of Physiology and Medicine Director, Student Health Service (1949).
B.S. (1939), M.S. (1941), University of Washington; M.D. (1946), Oregon.
- †**Paul Trautman, M.D.**, Clinical Instructor in Surgery (1965).
B.S. (1941), Yale; M.D. (1944), Tulane.
- †**John P. Trommald, M.D.**, Assistant Clinical Professor of Surgery (1939).
B.S. (1929), Yale; M.D. (1933), Harvard.
- †**E. Dale Trout, D.Sc.**, Clinical Professor of Radiology (1966).
B.S. (1922), D. Sc. (Hon.) (1950), Franklin College.
- Emily Tufts, M.D.**, Instructor in Pediatrics (1965).
B.A. (1946), North Carolina; M.D. (1950), M.S. (1954), Temple.
- †**John E. Tuhy, M.D.**, Clinical Professor of Medicine (1948).
B.A. (1935), M.D. (1938), Oregon.
- Ralph E. Tuomi, B.S.**, Assistant Superintendent, Physical Plant; Instructor (1967).
B.S. (1961), Portland State.
- 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.

*MEDICAL
SCHOOL
FACULTY*

- †**Hugo Uhland, M.D.**, Clinical Instructor in Medicine (1966).
B.A. (1958), Omaha; M.D. (1961), Nebraska.
- †**Alvin O. Uhle, M.D.**, Clinical Instructor in Surgery (1955).
B.S. (1945), University of Portland; M.D. (1947), Northwestern.
- †**Franklin J. Underwood, M.D.**, Clinical Professor of Medicine (1937).
M.D. (1933), Harvard.
- †**Rex J. Underwood, M.D.**, Associate Clinical Professor of Anesthesiology (1958).
B.A. (1950), Stanford; M.S., M.D. (1955), Oregon.
- ***John T. Van Bruggen, Ph.D.**, Professor of Biochemistry (1947).
B.A. (1937), Linfield; M.A. (1939), Oregon; Ph.D. (1944), St. Louis.
- †**John G. Vandenberg, M.D.**, Assistant Clinical Professor of Urology (1953).
B.S. (1945), Puget Sound; B.M. (1947), M.D. (1948), Northwestern.
- Henry J. L. Van Dyk, M.D.**, Senior Instructor in Ophthalmology (1966).
B.A. (1954), Calvin; M.D. (1958), Cornell.
- †**Clemens W. Van Rooy, M.D.**, Associate Clinical Professor of Pediatrics (1958).
M.D. (1948), St. Louis.
- †**Wilbur N. Van Zile, D.D.S.**, Assistant Clinical Professor of Dental and Oral Medicine (1959).
D.D.S. (1928), Southern California.
- †**Charles Varga, M.D.**, Assistant Clinical Professor of Pediatrics (1956).
B.S. (1939), Rutgers; M.D. (1944), New York Medical College.
- Lyle Veazie, Ph.D.**, Professor of Microbiology, Parasitology (1942).
B.A. (1928), M.A. (1930), Ph.D. (1947), Oregon.
- Jack A. Vernon, Ph.D.**, Professor of Otolaryngology (1966).
A.B. (1948), M.A. (1950), Ph.D. (1952), Virginia.
- ‡**R. Mark Vetto, M.D.**, Associate Professor of Surgery (Veterans Hospital) (1959).
M.D. (1949), Jefferson; D.Sc. (1959), Cincinnati.
- †**Daniel Voiss, M.D.**, Clinical Instructor in Psychiatry (1965).
B.S. (1955), M.S., M.D. (1957), Oregon.
- Marie K. Wagner, B.S.**, Circulation Librarian; Assistant Professor (1954).
B.S. (1940), State Teachers College, West Chester, Pennsylvania.
- †**Frank A. Walker, M.D.**, Clinical Instructor in Pediatrics (1966).
M.D. (1959), McGill.
- †**Sheldon A. Walker, M.D.**, Clinical Professor of Dermatology (1955).
M.D. (1942), Iowa.
- †**George F. Walliker, Jr., M.D.**, Associate Clinical Professor of Pediatrics (1949).
A.B. (1938), Nebraska; B.S. (1940), University of 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.
- †**Hans G. Wandel, M.D.**, Clinical Instructor in Radiology (1964).
B.A. (1948), Falkschule, Berlin; M.D. (1956), Freie Universitaet, Berlin.

† Volunteer.

‡ Part-time.

* Leave of absence, July 15, 1967 to August 15, 1968.

- †**Gerald L. Warnock, M.D.**, Assistant Clinical Professor of Radiology (1964).
B.A. (1954), Reed; M.D. (1958), Oregon.
- †**Ernest A. Waterman, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1965).
B.S. (1955), Oregon State; M.D. (1957), Oregon.
- †**John H. Waterman, M.D.**, Assistant Clinical Professor of Psychiatry (1967).
A.B. (1944), Park; BSc. (1929), M.D. (1933), Nebraska.
- †**Charles W. Watkins, M.D.**, Assistant Clinical Professor of Dermatology (1958).
B.A. (1948), Montana State University; M.D. (1951), St. Louis; M.S. (1958), Minnesota.
- ‡**James Mac D. Watson, M.D.**, Assistant Professor of Neurology (Veterans Hospital) (1966).
B.S. (1946), Idaho; M.D. (1949), Chicago.
- †**Edward E. Wayson, M.D.**, Associate Clinical Professor of Surgery (1952).
A.B. (1939), Dartmouth; M.D. (1943), Michigan.
- †**Jerome C. Weeber, M.D.**, Clinical Instructor in Urology (1966).
B.A. (1955), M.D. (1958), Iowa.
- †**Linton G. Weed, M.D.**, Clinical Instructor in Surgery (1965).
B.S. (1951), M.D. (1954), Wisconsin.
- Virginia L. Weimar, Ph.D.**, Assistant Professor of Ophthalmology (1962).
B.S. (1944), M.S. (1947), Oregon State; Ph.D. (1951), Pennsylvania.
- Sefton Robert Wellings, M.D., Ph.D.**, Professor of Pathology; Chairman of Department (1961).
B.S. (1951), M.D. (1953), University of Washington; Ph.D. (1961), California.
- †**Alvin D. Wert, M.D.**, Clinical Professor of Pediatrics (1946).
A.B. (1937), Colgate; M.D. (1941), Minnesota.
- †**William B. Wescott, D.D.M.**, Senior Clinical Instructor in Dental and Oral Medicine (1966).
D.M.D. (1951), M.S. (1962), Oregon.
- †**James M. Whiteley, M.D.**, Assistant Clinical Professor of Obstetrics and Gynecology (1943).
B.S. (1935), M.D. (1938), Oregon.
- †**Gerald F. Whitlock, M.D.**, Clinical Instructor in Urology (1965).
B.S. (1937), Baker; B.S. in M.S. (1939), Missouri; M.D. (1941), Washington University; M.S. (1946), Minnesota.
- †**James P. Whittemore, M.D.**, Assistant Clinical Professor of Pediatrics (1948).
A.B. (1942), Holy Cross; M.D. (1945), Harvard.
- Arthur N. Wiens, Ph.D.**, Professor of Medical Psychology (1958).
B.A. (1948), M.A. (1952), Kansas; Ph.D. (1956), University of Portland.
- †**Richard H. Wilcox, M.D.**, Assistant Clinical Professor of Public Health and Preventive Medicine (1957).
B.S. (1932), South Dakota; M.D. (1934), Louisville; M.P.H. (1937), Johns Hopkins.
- †**John B. Wild, M.D.**, Assistant Clinical Professor of Medicine (1963).
M.B., B.S. (1946), St. Mary's Hospital, London; M.D. (1949), London.

† Volunteer.
‡ Part-time.

*MEDICAL
SCHOOL
FACULTY*

- †**Cameron J. Wiley, M.D.**, Clinical Instructor in Radiology (1965).
B.S. (1955), M.D. (1957), Oregon.
- †**James W. Wiley, M.D.**, Clinical Instructor in Surgery (1948).
M.D. (1933), Oregon.
- James A. Wilkinson, B.S.**, Instructor in Clinical Pathology and Medical Technology (1966).
B.S. (1963), Oregon.
- Ethredge F. Williams, B.A.**, Instructor in Cytotechnology, Pathology (1965).
B.A. (1949), Union.
- †**Charles P. Wilson, M.D.**, Assistant Clinical Professor of Medicine (1929).
A.B. (1920), Reed; M.D. (1924), Johns Hopkins.
- †**Nathaniel D. Wilson, M.D.**, 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.
- †**Zolton T. Wirtschafter, M.D.**, Associate Professor of Medicine (Veterans Hospital) (1953).
B.S. (1921), Case School of Applied Science; M.B. (1926), M.D. (1927), Cincinnati.
- †**Robert A. Wise, M.D.**, Clinical Professor of Surgery (1947).
B.A. (1922), M.D. (1925), Columbia.
- †**David M. Witter, D.D.S., M.P.H.**, Clinical Instructor in Public Health and Preventive Medicine (1967).
D.D.S. (1934), Nebraska; M.P.H. (1951), Michigan.
- †**LeGrande H. Woolley, D.D.S.**, Senior Clinical Instructor in Dental and Oral Medicine (1966).
D.D.S. (1958), Missouri; M.S. (1966), Oregon.
- †**John W. Wong, M.D.**, Clinical Instructor in Psychiatry (1966).
M.D. (1959), Queens (Canada).
- †**Gregg D. Wood, M.D.**, Clinical Instructor in Surgery (1949).
B.A. (1939), Reed; M.D. (1943), Oregon.
- †**James A. Wood, M.D.**, Assistant Clinical Professor of Cardiopulmonary Surgery (1963).
B.A. (1953), Reed; M.D. (1957), Oregon.
- †**James V. Woodworth, M.D.**, Clinical Instructor in Medicine (1952).
A.B. (1944), Whitman; M.D. (1946), Oregon.
- †**Ralph D. Worthylake, M.D.**, Clinical Instructor in Psychiatry (1967).
M.D. (1949), Oregon.
- Norton B. Young, Ph.D.**, Associate Professor of Audiology, Pediatrics (1960).
B.S. (1950), M.A. (1953), University of Washington; Ph.D. (1957), Purdue.
- †**Robert W. Zeller, M.D.**, Assistant Clinical Professor of Ophthalmology (1951).
M.D. (1944), Loyola.

- †**Werner E. Zeller, M.D.**, Assistant Clinical Professor of Surgery (1946).
B.S. (1933), M.S. (1936), M.D. (1937), Oregon.
- †**Richard C. Zimmerman, M.D.**, Clinical Instructor in Orthopedic Surgery (1964).
B.S. (1955), M.D. (1957), Oregon.
- William A. Zimmerman, B.S.**, Associate Dean for Business Affairs; Professor (1945).
B.S. (1939), Oregon.

University of Oregon Medical School Hospitals and Clinics

- David W. E. Baird, M.D.**, Dean.
- Charles N. Holman, M.D.**, Associate Dean; Medical Director and Administrator.
- Jarvis Gould, M.D.**, Associate Medical Director and Associate Administrator.
- Myron R. Grover, Jr., M.D.**, Assistant Medical Director and Assistant Administrator.
- Michael D. Baird, M.D.**, Assistant Medical Director of Hospitals and Clinics.
- Gary J. Rood, M.A.**, Assistant Administrator, Medical School Hospital.
- Gwynn C. Brice**, Assistant Director of Outpatient Clinic.
- Clifford V. Allen, M.D.**, Chief of Radiation Therapy Service.
- Daniel M. Bachman, M.D.**, Chief of Rheumatology Service.
- John A. Benson, Jr., M.D.**, Chief of Gastroenterology Service.
- Ralph C. Benson, M.D.**, Chief of Obstetrical and Gynecological Service.
- William S. Conklin, M.D.**, Chief of Thoracic Surgical Service.
- Sefton Robert Wellings, M.D.**, Chief of Pathological Service.
- David D. DeWeese, M.D.**, Chief of Otolaryngological Service.
- Charles T. Dotter, M.D.**, Chief of Radiological Service.
- Monte A. Greer, M.D.**, Chief of Endocrinology Service.
- Herbert E. Griswold, M.D.**, Chief of Cardiology Service.
- Frederick P. Haugen, M.D.**, Chief of Anesthesiology Service.
- Clarence V. Hodges, M.D.**, Chief of Urological Service.
- Tyra T. Hutchens, M.D.**, Chief of Clinical Pathological Service.
- Arthur C. Jones, M.D.**, Chief of Physical Medicine.
- Robert D. Koler, M.D.**, Chief of Hematology Service.
- William W. Krippaehne, M.D.**, Chief of Surgical Service.
- Daniel H. Labby, M.D.**, Chief of Metabolic Diseases Service.
- Howard P. Lewis, M.D.**, Chief of Medical Service.
- Walter C. Lobitz, Jr., M.D.**, Chief of Dermatological Service.
- Joseph D. Matarazzo, Ph.D.**, Chief of Medical Psychological Service.
- Richard W. Olmsted, M.D.**, Chief of Pediatric Service.
- Bernard Pirofsky, M.D.**, Chief of Immunology, Allergy, and Infectious Diseases Service.
- Donald M. Pitcairn, M.D.**, Chief of Chest Diseases Service.
- George Saslow, M.D.**, Chief of Psychiatric Service.
- William E. Snell, M.D.**, Chief of Orthopedic Surgical Service.
- Albert Starr, M.D.**, Chief of Cardiopulmonary Surgical Service.
- Kenneth C. Swan, M.D.**, Chief of Ophthalmological Service.
- Roy L. Swank, M.D.**, Chief of Neurological Service.

*MEDICAL
SCHOOL
FACULTY*

Leslie W. Hunter, M.S.W., Director of Medical Social Service.
Hilda E. Drum, R. T., Chief Radiologic Technologist.
Clarence Hultgren, M.A., P.T., Chief Physical Therapist.
Patsy Marble, Medical Reports Supervisor.
Susan Morrow, B.A., Chief Occupational Therapist.
Verna Nugent, R.R.T., Acting Chief Record Librarian.
E. H. Empereur, B.S., Chief Pharmacist.

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

B. Lee Killam, M.S., R.N., Director of Nursing Service.
Beatrice Duffy, M.A., R.N., Assistant Director of Nursing Service.
Esther Appleman, R.N., Assistant Night Supervisor.
Betty Axley, B.S., R.N., Evening Supervisor.
Evelyn Barton, R.N., Night Supervisor.
Margaret Byers, M.S., R.N., Assistant Night Supervisor.
Dorothy Cahill, B.S., R.N., Surgical Supervisor.
Jean Coverstone, B.S., R.N., Medical Supervisor.
Donna Etter, B.S., R.N., Assistant Evening Supervisor.
Helen Fountain, R.N., Evening Supervisor.
Sylvia Sather, B.S., R.N., Operating Room Supervisor.
Elizabeth Stenberg, M.S., R.N., In-Service Education Supervisor.
Betty Weible, B.S., R.N., Pediatric Supervisor.
Peggy Cooke, R.N., Head Nurse.
Lucille Dorris, R.N., Head Nurse.
Fredericka Grable, R.N., Head Nurse.
Helen Katagiri, B.S., R.N., Head Nurse.
Sylvia McSkimming, B.S., R.N., Head Nurse.
Sarah Peterson, R.N., Head Nurse.
Maryann Powers, B.S., R.N., Head Nurse.
Sarah Rich, B.S., R.N., Head Nurse.
Maxine Sutton, R.N., Head Nurse.
Florence Sweeney, R.N., Head Nurse.
Joan Taylor, B.S., R.N., Head Nurse.
Carol Thompson, B.S., R.N., Head Nurse.
Emily Malaimare, Recreational Therapist.
Mary Erlandson, B.S., R.N., Pediatric Public Health Nurse Coordinator.
Regina Mockmore, B.S., R.N., Admitting Supervisor.
Glen F. Criteser, Laundry Manager.
Maxine Freeman, Executive Housekeeper.
Margaret Orth, B.S., Administrative Dietitian.
Madeline Myers, Accounting Office Supervisor.

General Outpatient Service

Marjorie R. Merrick, B.S., Chief Admitting Officer.
Patricia Hunsaker, B.S., R.N., P.H.N., Director of Nursing Service.
Nancy W. Beshear, B.S., Dietitian.

Multnomah Hospital

Jarvis Gould, M.D., Administrator and Associate Medical Director.
Michael D. Baird, M.D., Assistant Administrator and Assistant Medical Director.
Gale Rankin, B.S., R.N., Director of Nursing Service.
Margaret Fox, R.N., Assistant Director of Nursing Service.
Lorraine Nelson, M.S., R.N., Clinical Instructor.
Barbara Browne, B.S., R.N., Supervisor.
Jean Caldwell, B.S., R.N., Supervisor.
Judith Gentry, B.S., R.N., Supervisor.
Ardys Hokeness, B.S., R.N., Supervisor.
June Lerma, M.S., R.N., Supervisor.
Emma H. McWilliams, R.N., Supervisor.
Ruth Schoepper, R.N., Supervisor.
Alice Sharf, R.N., Surgical Supervisor.
Dorothy Vossen, B.S., R.N., Supervisor.
Judith Hicks, R.N., Head Nurse.
Joyce Jorgensen, R.N., Head Nurse.
Mary Lou Pollock, R.N., Head Nurse.
LeAnn Poole, R.N., Head Nurse.
Mary Richeson, R.N., Head Nurse.
Vicki Schaur, B.S., R.N., Head Nurse.
Jean Schropfer, B.S., R.N., Head Nurse.
Shirley Franzen Schumann, R.N., Head Nurse.
Bernice Setere, B.S., R.N., Head Nurse.
Beverly Ward, B.S., R.N., Head Nurse.
Helen Colgan, Ph.G., Pharmacist.
William E. Bennett, Maintenance Supervisor.
Frances E. Morse, Office Supervisor.
Ramona McAfee Bennett, B.S., R.N., Housekeeper.
Ruth Mercer, M.A., Dietitian, Clinical Instructor in Dietetics.
Eugene Buelt, Respiratory Equipment Technician.

University State Tuberculosis Hospital

Barbara Hiatt, M.S., R.N., Assistant Administrator.
William S. Conklin, M.D., Chief of Staff.
James T. Speros, M.D., Medical Consultant.
Robert D. Michel, M.D., Chief Physician.
Clifford A. Fratzke, M.D., Physician.
Helen Krieg, B.S., R.N., Director of Nursing Service.
Arnold Bradshaw, Housekeeper.

Crippled Children's Division

Richard L. Sleeter, M.D., Director; Professor of Pediatrics.
Victor D. Menashe, M.D., Assistant Director; Associate Professor of Pediatrics.
L. Paul Rasmussen, M.D., Associate Professor of Pediatrics.
Robert Boyd, Ph.D., Professor of Medical Psychology.
Herold S. Lillywhite, Ph.D., Professor of Speech Pathology.

*MEDICAL
SCHOOL
FACULTY*

Harold T. Osterud, M.D., Professor of Public Health and Preventive Medicine.
William E. Snell, M.D., Professor of Orthopedic Surgery.
S. Gorham Babson, M.D., Associate Professor of Pediatrics.
Rodney K. Beals, M.D., Associate Professor of Orthopedic Surgery.
Robert W. Blakeley, Ph.D., Associate Professor of Speech Pathology.
C. Conrad Carter, M.D., Associate Professor of Neurology.
Robert H. Mattson, D.Ed., Associate Professor.
Norton B. Young, Ph.D., Associate Professor of Audiology, Pediatrics.
Doris P. Bradley, Ph.D., Assistant Professor of Speech Pathology.
Leroy O. Carlson, M.D., Assistant Professor of Pediatrics.
Wilma L. Carson, M.D., Assistant Professor of Pediatrics.
Ralph O. Coleman, Jr., Ph.D., Assistant Professor of Speech Pathology.
John S. Gullikson, D.D.S., Assistant Professor of Dental and Oral Medicine.
Constance Hanf, Ph.D., Assistant Professor of Medical Psychology.
Frederick Hecht, M.D., Assistant Professor of Experimental Medicine and Pediatrics.
Everett W. Lovrien, M.D., Assistant Professor of Pediatrics.
Victor Milstein, Ph.D., Assistant Professor of Neurology.
C. Donald Nelson, Ph.D., Assistant Professor of Speech Pathology.
Bruce P. Ryan, M.D., Assistant Professor of Speech Pathology and Audiology.
Wallace A. Schindler, D.D.S., Assistant Professor of Dental and Oral Medicine.
Leif G. Terdal, Ph.D., Assistant Professor of Medical Psychology.
Laurence R. Langston, M.D., Clinical Associate in Orthopedic Surgery.
Jack R. Hegrenes, M.S., M.A., Instructor.
Nancy R. Marshall, Ph.D., Instructor in Speech Pathology.
Thelma M. Danilson, M.A., Medical Social Consultant.
Ruth W. Spoerli, M.S.S., A.C.S.W., Medical Social Consultant.
Mariana T. Block, B.A., Medical Social Worker.
Dorothy M. Prinzing, M.S., R.N., R.P.T., Nursing Consultant.
Esther E. Kelly, R.N., Pediatric Nurse.
Karen Mischke, M.S., R.N., Public Health Nurse.
Ida Sue Underwood, R.N., Public Health Nurse.
Maxine M. Lang, R.N., Clinic Nurse.
Virginia E. Brookwell, B.A., Caseworker.
Elaine W. Lis, Ph.D., Nutrition Consultant.
Ruby Fields, R.P.T., Physical Therapist.
Sara Ellen Hall, B.S., Physical Therapist.
Susan B. Hanks, B.S., Physical Therapist.
Virginia R. Hatch, B.S., Occupational Therapist.
Steven John Morelan, B.S., Occupational Therapist.
JoAnn A. Georges, M.A., Research Assistant.
William J. Kimberling, Ph.D., Research Assistant.
Lois Holeman, M.S., Research Assistant, Language Development Project.
Karen Gibbons, Laboratory Assistant.
Margaret A. Costello, Administrative Assistant.

**Cerebral Palsy Project
(Collaborating Faculty Members)**

Ralph C. Benson, M.D., Professor of Obstetrics and Gynecology.
Richard W. Olmsted, M.D., Professor of Pediatrics.
Richard L. Sleeter, M.D., Professor of Pediatrics.

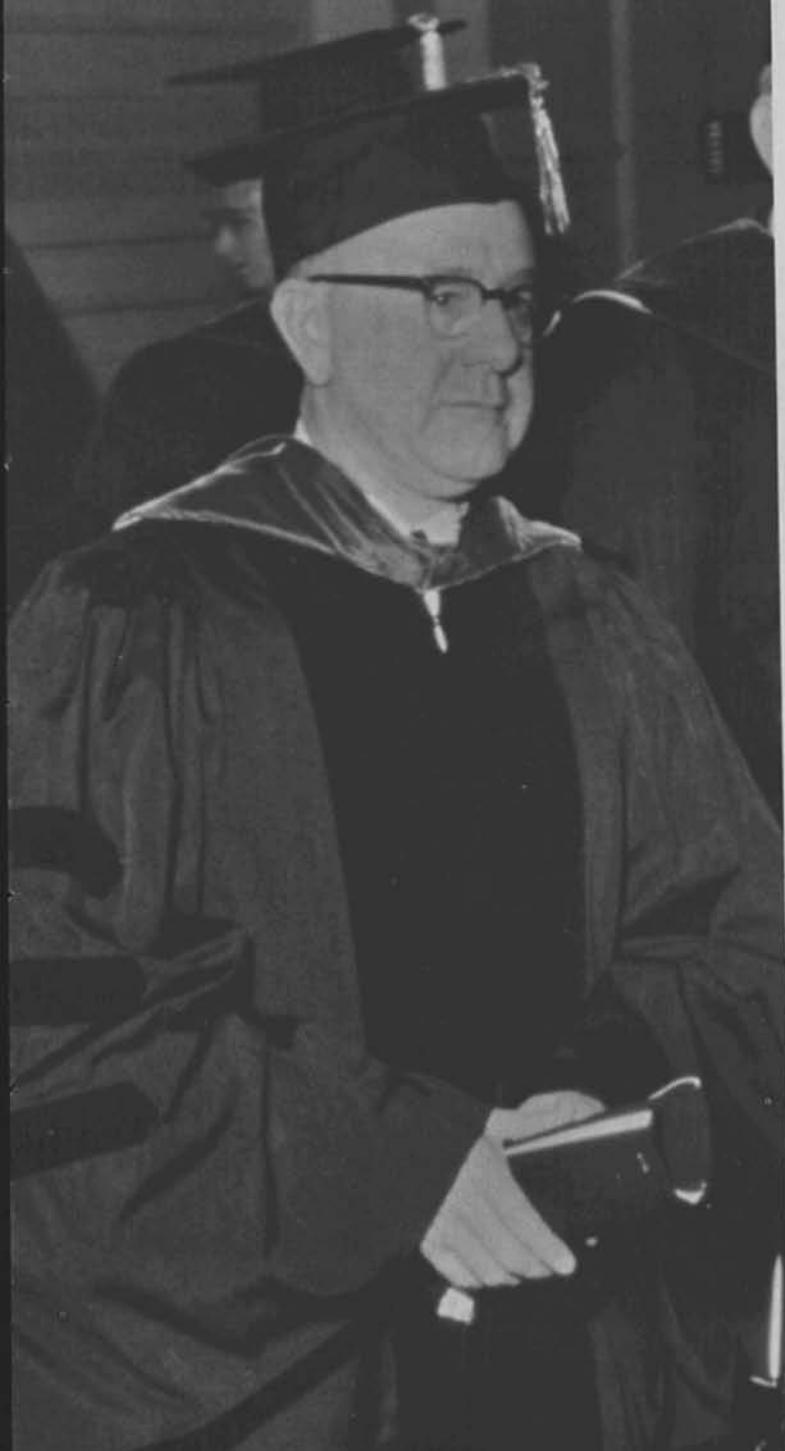
FACULTY

- S. Gorham Babson**, M.D., Associate Professor of Pediatrics.
Leroy O. Carlson, M.D., Associate Professor of Pediatrics.
William M. Clark, Jr., M.D., Associate Professor of Pediatrics.
Rudolf C. H. Engel, M.D., Associate Professor of Pediatrics.
John B. Isom, M.D., Associate Professor of Pediatrics.
L. Paul Rasmussen, M.D., Associate Professor of Pediatrics.
Bruce V. Butler, Ph.D., Assistant Professor of Medical Psychology.
Peggy Copple, M.D., Assistant Clinical Professor of Pediatrics, Senior Clinical Instructor in Neurology.
Warren H. Fay, Ph.D., Assistant Professor of Speech Pathology, Pediatrics.
Kathrine S. French, Ph.D., Assistant Professor of Anthropology, Pediatrics.
Richard L. Lessel, M.P.H., Instructor in Public Health and Preventive Medicine.
Roberta Murray, Ph.D., Instructor in Speech Pathology, Pediatrics.
Emily Tufts, M.D., Instructor in Pediatrics.
Barbara Goffeney, M.A., Research Assistant in Psychology.
Betty Saylor, R.N., Research Assistant.



7

ENROLLMENT AND DEGREES



Degrees Conferred June 9, 1967

Doctor of Medicine

GRADUATE	INTERNSHIP
John P. Allen	Latter Day Saints Hospital, Salt Lake City, Utah
Michael A. Azorr	Providence Hospital, Portland, Oregon
Bruce D. Bingham.....	Los Angeles County General Hospital, Unit I, Los Angeles, California
Casey D. Blitt.....	Santa Barbara County General Hospital, Santa Barbara, California
Daniel F. Brown.....	Fitzsimmons General Hospital, Denver, Colorado
Mary P. Brown.....	Fitzsimmons General Hospital, Denver, Colorado
Thomas E. Brugger.....	Santa Barbara County General Hospital, Santa Barbara, California
William H. Bush, Jr.....	Hennepin County General Hospital, Minneapolis, Minnesota
David M. Cammack.....	Bernalillo County-Indian Hospital, Albuquerque, New Mexico
James A. Campbell.....	U. S. Naval Hospital, San Diego, California
Michael S. Campbell.....	Emanuel Hospital, Portland, Oregon
Phyllis B. Church.....	Good Samaritan Hospital, Portland, Oregon
Gary V. Dahl.....	University of Oregon Medical School, Portland, Oregon
DeWayne E. Ditto.....	San Diego County Hospital (University), San Diego, California
George M. Douglass	Santa Clara County Hospital, San Jose, California
Samuel R. East.....	Santa Clara County Hospital, San Jose, California
Gareth A. Eberle.....	Kansas City General Hospital, Kansas City, Missouri
John D. Ehrhart.....	Santa Clara County Hospital, San Jose, California
Annelore H. Enyart.....	Mercy Hospital, San Diego, California
Fred C. Felter.....	Los Angeles County General Hospital, Unit I, Los Angeles, California
Michael L. Fritz.....	Fresno County General Hospital, Fresno, California
Douglas W. Graham.....	Good Samaritan Hospital, Portland, Oregon
Robert M. Hakala.....	Santa Clara County Hospital & Medical Center, San Jose California
David R. Hale.....	Fresno County General Hospital, Fresno, California
Robert J. Hehn.....	Gorgas Hospital, Balboa Heights, Canal Zone
Ralph W. Higer.....	Maricopa County General Hospital, Phoenix, Arizona
John H. Hodggers.....	U. S. Naval Hospital, Greatlakes, Illinois
David G. Hooper.....	Emanuel Hospital, Portland, Oregon
Sharon M. Horn.....	Good Samaritan Hospital, Portland, Oregon
Mike C. Huntington.....	Madigan General Hospital, Tacoma, Washington
Theodore L. Imel.....	Providence Hospital, Portland, Oregon
Gary A. Jacobsen.....	University of Oregon Medical School, Portland, Oregon
Howard L. Johnson.....	Emanuel Hospital, Portland, Oregon
Grant D. Lawton.....	University of Oregon Medical School, Portland, Oregon
Paul Y. Lee.....	Wayne County General Hospital & Infirmary, Eloise, Michigan
Richard W. Lehfeldd.....	Fresno County General Hospital, Fresno, California
Curtis T. Martin.....	Madigan General Hospital, Tacoma, Washington
Lawrence C. Mason.....	Good Samaritan Hospital, Portland, Oregon
Richard W. McDuffie.....	St. Paul-Ramsey Hospital, St. Paul, Minnesota
Joseph R. McFarland.....	St. Paul-Ramsey Hospital, St. Paul, Minnesota

ENROLLMENT

Colan M. McKinnon, Jr.....	Santa Barbara County General Hospital, Santa Barbara, California
Earl M. Miller.....	Sacramento County Hospital, Sacramento, California
Dayton S. Misfeldt.....	Peter Bent Brigham Hospital, Boston, Massachusetts
Calvin Y. Nakao.....	Riverside County General Hospital, Riverside, California
Michael N. Nichols.....	Fresno County General Hospital, Fresno, California
Michael E. Nishitani.....	Good Samaritan Hospital, Portland, Oregon
Raymond R. North.....	Hennepin County General Hospital, Minneapolis, Minnesota
Gary S. Okino.....	Providence Hospital, Portland, Oregon
Delbert P. Pearson.....	Latter Day Saints Hospital, Salt Lake City, Utah
James R. Pitts.....	Tripler General Hospital, Honolulu, Hawaii
William J. Prendergast, III.....	Los Angeles County Harbor General Hospital, Torrance, California
Daniel D. Roberts.....	Bernalillo County-Indian Hospital, Albuquerque, New Mexico
Gregory K. Roduner.....	Santa Clara County Hospital & Medical Center, San Jose, California
John L. Sevilla.....	Riverside County General Hospital, Riverside, California
Harold C. Sexton.....	San Joaquin General Hospital, Stockton, California
Earl G. Sherod.....	Latter Day Saints Hospital, Salt Lake City, Utah
Paul D. Shields.....	Good Samaritan Hospital, Portland, Oregon
O. Carl Simonton, Jr.....	Santa Barbara County General Hospital, Santa Barbara, California
Stanley Soho.....	Tucson Hospitals Medical Education Program, Tucson, Arizona
William M. Stanley.....	Mary Hitchcock Memorial Hospital, Hanover, New Hampshire
J. Scott Starlin.....	San Bernardino County General Hospital, San Bernardino, California
Kevin J. Sullivan.....	San Bernardino County General Hospital, San Bernardino, California
Frank E. Thomas.....	Lackland Air Force Base, San Antonio, Texas
Douglas A. Thompson.....	Walter Reed General Hospital, Washington, D. C.
Jeffrey D. Thompson.....	Emanuel Hospital, Portland, Oregon
Stewart Tuft, Jr.	William Beaumont General Hospital, El Paso, Texas
John E. Tysell, Jr.....	Santa Clara County Hospital & Medical Center, San Jose, California
George N. Vigeland, Jr.....	Los Angeles County General Hospital, Unit I, Los Angeles, California
Don Wade.....	Public Health Service, New Orleans, Louisiana
David G. Wagner.....	Sacramento County Hospital, Sacramento, California
Harry L. Walters.....	Emanuel Hospital, Portland, Oregon
James D. Watson.....	Tripler General Hospital, Honolulu, Hawaii
Kathleen A. Weaver.....	University of Oregon Medical School, Portland, Oregon
Richard G. Weleber.....	Mary Fletcher Hospital, Burlington, Vermont
Steven L. Wilhite.....	Fresno County General Hospital, Fresno, California
Neil R. Williamson.....	Baltimore City Hospitals, Baltimore, Maryland
David D. Wirtschafter.....	Palo Alto Stanford Hospital Center, Palo Alto, California
Terry Yamauchi.....	Los Angeles County Harbor General Hospital, Torrance, California
Arthur F. Zbinden.....	Santa Clara County Hospital & Medical Center, San Jose, California

ENROLLMENT AND DEGREES

Doctor of Philosophy

Robert Edmond Brooks William LeRoy Heinrichs Colene Ann Walden
Grayson Leroy Capp Michael Jae-Chul Im
Reid S. Connell, Jr. Ralph John Kalinowski

Master of Science

Lawrence Fred Bitte Marvin E. Frazier Dayton Stanley Misfeldt
Alvaro J. Cuadros Thelma H. Golden Calvin Yoshiki Nakao
Joel Lance Davis Alvin Salting Manalaysay Richard Miles Vardaris
Carrie Case Dully Mary Benson Meikle

Enrollment 1966-1967

Medical Students

First Year Class

David M. Akwai	J. Robert Grierson	Charles M. Owen
Gill E. Anderson	James S. Griffith, Jr.	Paula D. Owen
Donald T. Arai	Richard A. Haddock	Peter F. Petersen
Robert L. Backstrom	B. Patrick Harpole, Jr.	William L. Playfair
Richard P. Belts	John O. Hayhurst	Stephen E. Pliska
Steven K. Bidleman	William B. Heyerman	Gerald A. Rappe
Randall W. Boyer	Alan C. Hilles	Larry F. Rich
Jeffrey L. Brandon	William D. Hosack	George G. Richardson, Jr.
Phyllis J. Brown	Clyde E. Hunt	Kenneth D. Rost
Richard S. Buswell	Ansel Q. Hyland	Ned R. Schroeder
Gary B. Calandra	George E. Imhoff	Ted R. Schroeder
Douglas T. Campbell	Peter E. Jensen	David G. Schwarz
Richard L. Carpenter	Korey S. Jorgensen	Thomas A. Staats
Sharon A. Colton	James L. Kelley	William O. Stahl
Maxwell A. Cooper	Louis F. Kretschmer	Philip R. Stonebrook
Jon C. Counts	Richard M. Laubaugh	Robert J. Stuart, Jr.
Robert B. Cox, Jr.	W. Jackson Lovern	David A. Stumpf
Darrell L. Davey	Linda L. Mackprang	James R. Swartley
Joseph H. Diehl, Jr.	Josephine A. Magnuson	Earl J. Van Volkinburg
Michael F. Egans	Paul A. McConnel	Bruce E. Van Zee
Randy L. Ellerbrook	John G. Meyer	Charles N. Versteeg, Jr.
Gary S. Ellibee	Robert L. Miller	Harold G. Vick
Nora L. Fairley	Scott G. Miller	Colin L. Walker
Richard P. Fogdall	Michael R. Moon	Frank H. Webster
Laurence R. Foster	Daniel S. Morris	A. Scott Wheeler
L. Reed Freeman	Craig W. Morrison	Norman J. Wilder
Michael B. Gavin	Robert L. Nelson	Donald J. Wodtli
Daniel J. Gebhardt	Norwyn R. Newby	Robert L. Wollmuth
Glenn A. Gerritz, Jr.	Ralph V. Nishitani	Janice M. Wood
Larry B. Gridley	James F. Novak	Wayne E. Wright

Second Year Class

John M. Ashton	Robert W. Bomengen	Marcia C. Britton
Norman E. Baron	Donald J. Brecht	K. Cameron Campbell
Gary A. Bergeron	Ralph A. Breitenstein	Thomas C. Carey

Jean M. Carnes
 James R. Carpenter
 Michael J. Carroll
 Russell J. Chang
 Terrell L. Clarke
 W. Paul Danley
 Robert J. Denton
 Robert L. Detje
 William A. Disher
 Robert W. DuPriest
 Dennis L. Ellison
 David T. Elmgren
 Stephen R. Enloe
 Ronald C. Fraback
 Michael V. Gilbert
 David F. Hagen
 Jon W. Harms
 Dean A. Harvey
 Charles C. Haynie
 Sidney C. Henderson
 Dale P. Henken
 Thomas B. Hertzman
 Albert J. Hofeldt
 Albert D. Jacobson

Ira S. Jacobson
 Gerald G. Kauffman
 Raymond E. Kauffman
 Maureen A. Kelly
 Susan G. Keskinoglu
 Earl F. King
 F. Stephen Kohl
 Lawrence T. Krupa
 Gerald C. Larsen
 James D. Levy
 Daniel R. Lewis
 Richard E. Lienert
 Daniel P. Link, Jr.
 Calvin B. W. Lum
 James E. Lynch
 Richard E. Matteri
 Allen E. McDaniels, Jr.
 David M. McGee
 Robert D. McIntyre
 Gregory D. McKim
 John T. Molitor
 William E. Moore, Jr.
 T. Michael Norris
 Richard H. Olmscheid

Donal H. Pedersen
 James E. Pennington
 Michael S. Quinn
 Marianne Sanders
 John R. Sandilands
 Truman M. Sasaki
 James F. Schmidt
 Stanley O. Shepardson
 Jerilynn C. Smith
 Robert W. Smith
 Arthur F. S. Steele, Jr.
 Larry R. Terpening
 Bryan D. Thom
 James M. Thomas
 Larry L. Tibbles
 Gene B. Trobaugh
 Richard J. Van Calcar
 Arthur H. Van Eaton
 Sandra L. Vilhauer
 David L. von Weiss
 John D. Werschkul
 Floyd I. Whiting
 Thomas J. Wilson

Third Year Class

Dan D. Abbott
 Loxi M. Allen
 James L. Baldwin
 David T. Bauman
 Lowell L. Beal
 John E. Berland
 Douglas M. Blatchford
 Roger S. Bothwell
 George A. Brown
 Jon C. Burpee
 Thomas D. Case
 Robert S. Chapman
 D. Thomas Combs
 Lawrence W. Dean
 Gordon A. Dowsett
 David A. Durfee
 Stephen A. Ebert
 Lowell E. Euhus
 Marlon G. Fletchall
 Jerry C. Fox
 Thomas H. Gill
 Walter H. Gould
 Frederick S. Hakkinen
 Lloyd D. Hale
 Larry J. Hartley
 Robert P. Hayes
 Robert E. Heinig
 Dennis R. Hill

David C. Holman
 Klaus B. Jade
 Larry E. Joll
 Ronald N. Jones
 Jerry E. King
 Leslie G. Kirk
 Robert J. Laird
 Jerry K. Larsen
 John A. Lindgren
 James Y. Liu
 Darrell R. Lockwood
 Franchot V. Love
 Craig MacCloskey
 Joseph C. Maley
 Ronald C. Marcum
 Robert J. Martin
 Phil A. Mathias
 Donald B. McConnell
 David A. McGuire
 James F. Means
 Craig J. Miller
 Darrell M. Miller
 Larry M. Miller
 John R. Muir
 Robert L. Mushen
 John J. Nelson
 Henry W. Olson
 Terence J. Orme

George B. Peden
 Max R. Peterson
 Ronald C. Phelps
 William R. Roady
 James V. Robb
 Paul W. Roberts
 David A. Sack
 Robert L. Sack
 Richard A. Sandler
 John F. Saunders
 Waldemar A. Schmidt
 Ronald J. Schwerzler
 Vincent K. Seid
 Robert A. Sterling
 Ernest A. Talley
 Thomas J. Taylor
 Stephen W. Teal
 Gary F. Temple
 M. Patrick Temple
 Robert D. Thornton
 Alan R. Van Dyke
 Larry L. Veltman
 Theodore J. Vigeland
 John K. Wenhan
 Lynn K. Wittwer
 Jeffrey R. Woodside
 Richard L. Worthington

ENROLLMENT AND DEGREES

Fourth Year Class

John P. Allen	David G. Hooper	Harold C. Sexton
Michael A. Azorr	Sharon M. Horn	Earl G. Sherod
Bruce D. Bingham	Mike C. Huntington	Paul D. Shields
Casey D. Blitt	Theodore Imel	O. Carl Simonton, Jr.
Daniel F. Brown	Gary A. Jacobsen	Stanley Soho
Mary P. Brown	Howard L. Johnson	William M. Stanley
Thomas E. Brugger	William C. Johnson	J. Scott Starlin
William H. Bush, Jr.	Grant D. Lawton	Kevin J. Sullivan
David M. Cammack	Paul Y. Lee	Frank E. Thomas
James A. Campbell	Richard W. Lehfeldt	Douglas A. Thompson
Michael S. Campbell	Curtice T. Martin	Jeffrey D. Thompson
Phyllis Church	Lawrence C. Mason	Richard B. Thompson
Gary V. Dahl	Richard W. McDuffie, Jr.	Stewart Tuft, Jr.
DeWayne E. Ditto	Joseph R. McFarland	John E. Tysell, Jr.
George M. Douglass	C. Malcolm McKinnon, Jr.	George N. Vigeland, Jr.
Samuel R. East	Earl M. Miller	Don Wade
Gareth A. Eberle	Dayton Misfeldt	David A. Wagner
John D. Ehrhart	Calvin Nakao	Harry L. Walters
Annelore H. Enyart	Michael N. Nichols	James D. Watson
Frederick C. Felter	Michael E. Nishitani	Kathleen A. Weaver
Michael L. Fritz	Raymond R. North	Richard G. Weleber
Douglas W. Graham	Gary S. Okino	Steven L. Wilhite
Joyce Y. Gummerson	Delbert P. Pearson	Neil R. Williamson
Robert M. Hakala	J. Rodney Pitts	David D. Wirtschafter
David R. Hale	William J. Prendergast, III	Terry Yamauchi
Robert J. Hehn	Daniel D. Roberts	Arthur F. Zbinden
Ralph W. Higer	Gregory K. Roduner	
John H. Hodgers	John L. Sevilla	

Graduate Students

Donna L. Ailport	Thomas Franz	Thomas Manauagh
Linda Allison	Marvin Frazier	Charles Masse
Richard Anderson	William Galey	Jack Mattice
Floyd Andrew	Finley Gibbs	Donald McAfee
Lawrence Bitte	Stuart Gillespie	Glynn McArn
Esmond Braun	Thelma Golden	Thomas McKean
Donald E. Brooks	David Goldfoot	Mary B. Meikle
Robert Brooks	Michael Gordon	Neil Moir
Kurien Chacko	Kenneth Haraguchi	Galen Neher
Judith Chadd	William Heinrichs	Edwin Perkins
Leland Chung	Michael Im	Walter Peterson
Reid Connell	Pauline Jirik	Jeffrey Pinto
Alvara Cuadros	George Kemp	Richard Pope
Henry Danciger	Jack L. Keyes	John H. Rankin
Joel Davis	Evi Kink	Patrick Reynolds
Irving DeVoe	Tony Kirkpatrick	Frank Roberts
Carrie C. Dully	Susan Lawrence	Peter Sakellaris
Mary Ann Feller	Jon Lindsay	Karmen Schmidt
Rance Fields	Lou Livingston	Linda Schoenbeck
Alvin Fitzgerald	Edmund Lowinger	Inder Singh
Mary J. Florey	Bruce Mackler	Allen Smith
Daniel Ford	Alvin Manalaysay	Patricia Starr
Ruth Frankel	Lynne Manauagh	Timothy Teylor

Mary E. Tracy	Michael Waterman	Ronald Winters
Terrence Trivett	William Weaver	John Wood
Richard Vardaris	Gregory Williams	Ellen Zucker
Richard Walloch	Billie Wilson	

Specials and Auditors

Margaret Berroth	Arlene Heringer	Curtin Mitchell
Donald Brown	C. Vance Hubbard	Rita Nelson
Wesley Bullock	Douglas Hunt	Lorna Newcombe
Nancy Gerhardt	Carol Kurilo	John Olive
Barbara Harsanyi	Carolie Manning	David Swehla

Medical Technology Students

*Gail Ammundsen	Suzanne Dolen	Judith Nagaki
Constance Barnett	Ella Fickenscher	Richard Norland
Jane Bosket	Patricia Forsyth	Colleen Ogle
Paul Boxer	Clifton Green	Marcia Pfeiffer
Carol Burghardt	Donald Greenfield	Marjory Porter
*Owen Byers	Shirley Griffith	*Pamela Powers
Mary Carter	*Carolyn Harmon	Dorothy Rochat
*Sau Mei Chan	*Regina Janetzko	*Clifford Romig
Robert E. Christie	*Percida Jimenez	*J. William Rourke
Katherine Cooper	Pamela Johnson	Roger Schmierbach
Janet Covington	Janice Keller	*Stephanie Tung
Verla Cowan	Pamela Lasselle	Ronald Ueoka
*Patricia Craven	Young Lee	Mary Ann Wakasugi
*Joanne Curran	*Raymond Lin	Larry White
Charlotte Decker	Jeanne Longmaid	Joyce Wisinger
Judy Devecka	Douglas Manning	

* Auditors

Summary of Enrollment, 1966-1967

	Men	Women	Total
First year	83	7	90
Second year	74	7	81
Third year	81	2	83
Fourth year	76	6	82
Total regular students	314	22	336
Graduate students	61	19	78
Special students and auditors	7	8	19
Medical technology students	13	34	40
Total	395	83	478

