



UNIVERSITY  
OF OREGON  
**BULLETIN**

University of Oregon  
**Medical School**

PORTLAND • OREGON

CATALOG  
ISSUE  
**1952-53**

OREGON STATE SYSTEM OF HIGHER EDUCATION

# UNIVERSITY OF OREGON BULLETIN

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THE UNIVERSITY OF OREGON MEDICAL SCHOOL CAMPUS. LEFT: MEDICAL SCHOOL LIBRARY AND AUDITORIUM. LEFT CENTER: MEDICAL SCIENCE BUILDING AND LABORATORY AND ADMINISTRATION BUILDING. RIGHT: DOERNBECHER MEMORIAL HOSPITAL FOR CHILDREN: OUTPATIENT CLINIC: MULTNOMAH HOSPITAL: NURSES HOME

UNIVERSITY OF OREGON  
MEDICAL SCHOOL

# CATALOG

1952-53



Portland, Oregon

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## Oregon State System of Higher Education

**T**HE Oregon State System of Higher Education, as organized in 1932 by the State Board of Higher Education following a Federal survey of higher education in Oregon, includes all the state-supported institutions of higher learning. The several institutions are now elements in an articulated system, parts of an integrated whole. The educational program is so organized as to distribute as widely as possible throughout the state the opportunities for general education and to center on a particular campus specialized, technical, and professional curricula closely related to one another.

The institutions of the State System of Higher Education are the University of Oregon at Eugene, Oregon State College at Corvallis, the Oregon College of Education at Monmouth, the Southern Oregon College of Education at Ashland, and the Eastern Oregon College of Education at La Grande. The University of Oregon Medical School and the University of Oregon Dental School are located in Portland.

Each of the five institutions provides the general studies fundamental to a well-rounded education. At the three colleges of education general and professional studies are combined in the teacher-training curriculum; students who do not plan to become elementary-school teachers may devote their time exclusively to lower-division studies in the liberal arts and sciences or (at Southern Oregon and Eastern Oregon colleges of education) to approved lower-division programs in semiprofessional fields.

At the University and the State College two years of unspecialized work in liberal arts and sciences are provided on a parallel basis in the lower division. Major curricula, both liberal and professional, are grouped on either campus in accordance with the distinctive functions of the respective institutions in the unified State System of Higher Education.

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# Medical School Calendar 1952-53

## Fall Term, 1952-53

September 27, *Saturday*.....Examination for removal of deficiencies  
September 29, *Monday*.....Registration  
September 30, *Tuesday*.....Instruction begins  
October 13, *Monday*.....Last day to register for full credit  
or to change courses  
November 27, *Thursday*.....Thanksgiving Day, holiday  
December 20, *Saturday*.....Fall term ends

## Winter Term, 1952-53

January 5, *Monday*.....Registration for graduate students  
January 5, *Monday*.....Instruction begins  
January 19, *Monday*.....Last day to register for full credit  
or to change courses  
March 21, *Saturday*.....Winter term ends

## Spring Term, 1952-53

March 30, *Monday*.....Registration for graduate students  
March 30, *Monday*.....Instruction begins  
April 13, *Monday*.....Last day to register for full credit  
or to change courses  
May 30, *Saturday*.....Memorial Day, holiday  
June 12, *Friday*.....Commencement  
June 13, *Saturday*.....Spring term ends

## Summer Term, 1953 (Graduate Students)

June 22, *Monday*.....Registration  
June 22, *Monday*.....Instruction begins  
July 4, *Saturday*.....Independence Day, holiday  
July 6, *Monday*.....Last day to register for full credit  
or to change courses  
September 7, *Monday*.....Labor Day, holiday  
September 12, *Saturday*.....Summer term ends

# University of Oregon Medical School

## Faculty

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HARRY K. NEWBURN, Ph.D., President, University of Oregon.

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CHARLES RICHARD McCLURE, M.D., Professor Emeritus of Orthopedic Surgery.

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## BASIC SCIENCE DEPARTMENTS

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ARCHIE R. TUNTURI, Ph.D., M.D., Assistant Professor.

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\* On leave for military service.



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CLARICE ASHWORTH, Medical Illustrator.  
 CHARLES NORRIS, Photographer.

**UNIVERSITY OF OREGON MEDICAL SCHOOL  
 HOSPITALS AND CLINICS**

DAVID W. E. BAIRD, M.D., Dean.  
 CHARLES N. HOLMAN, M.D., Medical Director and Administrator.  
 R. JARVIS GOULD, M.D., Assistant Medical Director.  
 WILLIAM A. ZIMMERMAN, B.S., Assistant Administrator.  
 GWYNN C. BRICE, Administrative Assistant.  
 BERNADINE CARRICO, Secretary.

HOWARD P. LEWIS, M.D., Chief of Medical Service.  
 WILLIAM K. LIVINGSTON, M.D., Chief of Surgical Service.  
 HOWARD C. STEARNS, M.D., Chief of Obstetrical and Gynecological Service.  
 ALLAN J. HILL, JR., M.D., Chief of Pediatric Service.  
 GUY L. BOYDEN, M.D., Chief of Otolaryngological Service.  
 KENNETH C. SWAN, M.D., Chief of Ophthalmological Service.  
 HENRY H. DIXON, M.D., Chief of Psychiatric Service.  
 THOMAS B. FITZPATRICK, M.D., Chief of the Dermatology and Syphilology Service.  
 HAROLD J. NOYES, D.D.S., M.D., Chief of Dental Medical Service.  
 LEO S. LUCAS, M.D., Chief of Orthopedic Service.

CLARENCE V. HODGES, M.D., Chief of Urological Service.  
CHARLES T. DOTTER, M.D., Chief of Radiological Service.  
WARREN C. HUNTER, M.D., Chief of Pathological Service.  
ARTHUR C. JONES, M.D., Chief of Physical Medicine.  
FREDERICK P. HAUGEN, M.D., Chief of Anesthesia Service.  
RAYMOND D. GRONDAHL, M.D., Director of Clinical Laboratories.

MARJORIE MERRICK, B.S., Chief of Admitting Service.  
MILDRED BERGHEIM, M.A., Supervisor of Medical Social Service.  
LAURA MARTIN, R.N., R.R.L., Chief Record Librarian.  
JAMES C. SHIRLEY, Ph.G., Chief Pharmacist.

DOERNBECHER CHILDREN'S HOSPITAL UNIT

CHARLES N. HOLMAN, M.D., Medical Director and Administrator.  
R. JARVIS GOULD, M.D., Assistant Medical Director.  
SHIRLEY M. THOMPSON, M.S., R.N., Superintendent.

ALLAN J. HILL, JR., M.D., Chief of Staff.  
CHARLES T. DOTTER, M.D., Radiologist.  
RAYMOND D. GRONDAHL, M.D., Director of Clinical Laboratories.  
WARREN C. HUNTER, M.D., Pathologist.  
ARTHUR C. JONES, M.D., Chief of Physical Medicine.

BLANCHE CHELEWSKI, M.A., R.N., Clinical Instructor.  
ROSE E. HILL, B.S., R.N., Assistant Clinical Instructor.  
ELEANOR MALLORY, R.N., Surgery Supervisor.  
MAXINE FIRESTONE, B.S., Dietitian.  
EVELYN BARTON, R.N., Night Supervisor.  
ELAINE TEUTSCH, B.S., R.N., Evening Supervisor.  
BARBARA BURKHART, R.N., Head Nurse.  
WANDA HURD, R.N., Head Nurse.  
ESTHER KELLY, R.N., Head Nurse.  
BETTY WEIBLE, R.N., Head Nurse.

GENERAL OUTPATIENT UNIT

CHARLES N. HOLMAN, M.D., Medical Director and Administrator.  
R. JARVIS GOULD, M.D., Assistant Medical Director.  
GWYNN C. BRICE, Administrative Assistant.  
CHARLES T. DOTTER, M.D., Radiologist.  
HILDA E. DRUM, R.T., Chief X-Ray Technician.  
RAYMOND D. GRONDAHL, M.D., Director of Clinical Laboratories.  
MARJORIE P. MAXWELL, B.S., M.T., Chief Laboratory Technician.  
WARREN C. HUNTER, M.D., Pathologist.  
ARTHUR C. JONES, M.D., Chief of Physical Medicine.  
ELAINE STOWELL, B.S., Physical Therapist.

GRACE A. BLACK, B.S., R.N., Occupational Therapist.  
 FREDERICK P. HAUGEN, M.D., Anesthesiologist.  
 MARIAN W. PARSELL, B.S., R.N., Director of Nursing Service.  
 MILDRED BERGHEIM, M.A., Supervisor of Social Service.  
 JAMES C. SHIRLEY, Ph.G., Pharmacist.  
 MARJORIE MERRICK, B.S., Admitting Officer.  
 LAURA MARTIN, R.N., R.R.L., Record Librarian.  
 ANNABEL RICKARD, B.S., Dietitian.

#### MULTNOMAH HOSPITAL UNIT

CHARLES N. HOLMAN, M.D., Medical Director.  
 VERDA MITCHELL, B.S., R.N., Director of Nursing.  
 CECILIA M. MASON, Secretary.

CHARLES T. DOTTER, M.D., Radiologist.  
 RAYMOND D. GRONDAHL, M.D., Director of Clinical Laboratories.  
 WARREN C. HUNTER, M.D., Pathologist.  
 FREDERICK P. HAUGEN, M.D., Anesthesiologist.  
 ARTHUR C. JONES, M.D., Chief of Physical Medicine.

VERNA JOHNSON, R.N., Office Supervisor.  
 GALE RANKIN, R.N., Assistant Director of Nurses.  
 BARBARA BROWNE, B.S., R.N., Acting Obstetrical Supervisor.  
 ALICE SHARF, R.N., Surgical Supervisor.  
 EMMA H. McWILLIAMS, R.N., Night Supervisor.  
 MARIAN MOSELEY, R.N., Night Supervisor.  
 JEAN CALDWELL, B.S., R.N., Evening Supervisor.  
 MARGARET FOX, R.N., Relief Supervisor.  
 MARY JONES, B.S., Dietitian.  
 OLIVIA SCHEFFOLD, Housekeeper.  
 HENRY L. DOENEKA, Chief Engineer.  
 ROBERT MARKEE, Laundry Manager.  
 HELEN COLGAN, Ph.G., Pharmacist.

LAURA JEAN BOE, R.N., Head Nurse.  
 DOROTHY CAHILL, R.N., Head Nurse.  
 ADELINE CALANDRA, R.N., Head Nurse.  
 CAROL COPELAND, R.N., Head Nurse.  
 RUBY KELLY, R.N., Head Nurse.  
 REGINA MOCKMÖRE, B.S., R.N., Head Nurse.  
 MARY PEARSON, B.S., R.N., Head Nurse.  
 JUNE SATCHFIELD, B.S., R.N., Acting Head Nurse.  
 MARGARET SCHNEIDER, B.S., R.N., Head Nurse.  
 EDNA WARREN, R.N., Head Nurse.

## TUBERCULOSIS HOSPITAL UNIT

DAVID W. E. BAIRD, M.D., Dean.  
 CHARLES N. HOLMAN, M.D., Medical Director and Administrator.  
 JAMES T. SPEROS, M.D., Assistant Medical Director and Director of Outpatient Clinic.  
 JUANITA MURR, B.S., R.N., Superintendent.

WILLIAM S. CONKLIN, M.D., Chief Surgeon.  
 GROVER C. BELLINGER, M.D., Clinical Associate.  
 CHARLES T. DOTTER, M.D., Radiologist.  
 FREDERICK P. HAUGEN, M.D., Chief of Anesthesia Service.  
 WARREN C. HUNTER, M.D., Pathologist.  
 RAYMOND D. GRONDAHL, M.D., Director of Clinical Laboratories.  
 HOWARD P. LEWIS, M.D., Professor of Medicine.  
 WILLIAM K. LIVINGSTON, M.D., Kenneth A. J. Mackenzie Professor of Surgery.  
 HOWARD C. STEARNS, M.D., Professor of Obstetrics and Gynecology.  
 ALLAN J. HILL, JR., M.D., Professor of Pediatrics.  
 GUY L. BOYDEN, M.D., Professor of Otolaryngology.  
 KENNETH C. SWAN, M.D., Professor of Ophthalmology.  
 LEO S. LUCAS, M.D., Clinical Professor of Orthopedic Surgery.  
 CLARENCE V. HODGES, M.D., Associate Professor of Urology.  
 HAROLD J. NOYES, D.D.S., M.D., Clinical Professor of Dental Medicine.

BARBARA HIATT, B.S., R.N., Clinical Instructor.  
 LOIS EPEÑETER, B.S., R.N., Assistant Clinical Instructor.  
 MARGARET GORMAN, B.S., Dietitian.  
 JAMES C. SHIRLEY, Ph.G., Pharmacist.  
 ALICE DAVIES, B.S., R.N., Surgery Supervisor.  
 BETTY JANE CAPPA, B.S., R.N., Evening Supervisor.  
 NELLIE WHIPPLE, R.N., Night Supervisor.  
 CAROL STORER, B.S., R.N., Head Nurse.  
 ETHA BARTHOLOMEW, B.S., R.N., Head Nurse.  
 CHARLES FOX, Engineer.

## VISITING PHYSICIAN'S SERVICE

RANDALL WHITE, M.D., Multnomah County Physician.  
 EDGAR H. ANDERSON, M.D., Physician.  
 HAROLD DOBBIN, M.D., Physician.  
 ANTON D. ELMER, M.D., Physician.  
 J. DUNN KAVANAUGH, M.D., Physician.  
 LAURENCE K. MACDANIELS, M.D., Physician.

## CHILD PSYCHIATRY AND STATE EXTENSION SERVICES

CHARLES BRADLEY, M.D., Associate Professor of Psychiatry and Pediatrics;  
 Director.

ROGERS J. SMITH, M.D., Clinical Instructor in Psychiatry.  
HARRY E. SPRANG, M.D., Clinical Instructor in Psychiatry.  
INGEBORG B. SNYDER, M.A., Instructor in Psychiatric Social Work.  
ESSENE H. JOSEPH, M.A., Clinical Psychologist.  
VERNA M. STOCKS, M.S., Traveling Clinic Coordinator.  
DOROTHY BERGSTROM, B.S., Secretary.

#### CRIPPLED CHILDREN'S DIVISION

PAUL G. HAFNER, M.A., M.D., Director.  
MILDRED C. IVERSON, M.A., Medical Social Work Consultant.  
RUTH W. SPOERLI, M.S.S., Medical Social Work Consultant.  
ELLEN MAE STANDARD, M.A., Medical Social Work Consultant.  
OLGA H. CURTIS, R.N., Orthopedic Nursing Consultant.  
DOROTHY M. PRINZING, M.A., R.N., Orthopedic Nursing Consultant.  
FRANCIS M. REYNOLDS, B.A., R.P.T., Physical Therapist.  
MARY E. SNOOK, M.A., R.P.T., Physical Therapist.  
MARGARET A. NARY, Administrative Assistant.  
GERTRUDE E. COX, Accounting Clerk.  
GERTRUDE LISTER, Secretary.



## The Medical School

**T**HE University of Oregon Medical School has been in continuous operation since 1887, when it was granted a charter by the regents of the University of Oregon. Although the Medical School, because of its location in a different city from the other schools of the University, has administrative and faculty autonomy, the academic position of the school as an integral part of the University, established by its charter, is recognized under the organization plan of the Oregon State System of Higher Education.

On September 1, 1913, the Willamette University department of medicine was merged with the Medical School. Under the terms of the merger, the students of the Willamette University medical department were transferred to the University of Oregon Medical School, and, upon graduation, received diplomas indicative of the consolidation. The alumni bodies of the two institutions were also merged.

The Medical School is organized into instructional divisions as follows: basic science departments, offering instruction in those sciences basic to medicine; clinical departments, offering instruction in medicine with its various branches, surgery with its various branches, obstetrics, gynecology, and pediatrics; and the Department of Nursing Education.

## Location

**P**ORTLAND (population 373,628), situated on the Willamette River near its junction with the Columbia, is a modern city of diverse business and industrial activities. Although 100 miles from the Pacific, Portland is an important seaport. The city is known for its beautiful homes, parks, and boulevards, and for its equable climate. The foothills of the Cascade Mountains rise on the outskirts of the city. Mount Hood, one of the major peaks of the range, towers on the southeastern horizon.

As indicated elsewhere, concentration of a number of hospitals on the campus of the Medical School and articulation of the work of the school with various health and social agencies of the city afford superior opportunities for medical study.

## Campus and Buildings

**P**RIOR to 1919 the Medical School was housed in a three-story frame building at Twenty-Third and Lovejoy streets near the Good Samaritan Hospital. In 1919 the school was moved to a twenty-acre tract deeded to the regents of the University by the Oregon-Washington Railroad and Navigation Company in 1916, as a campus for future development of a center of medical teaching and research. The campus was enlarged in 1924 by the addition of Sam Jackson Park, an adjoining tract of eighty-eight acres, given by Mrs. C. S. Jackson and Mr. Philip Jackson in behalf and in memory of the late Mr. C. S. Jackson. The entire campus of one hundred and nine acres occupies a site of exceptional scenic grandeur, at an elevation overlooking the city and the Willamette River, isolated from noise and smoke but within one and one-half miles of the business center. It affords an ideal setting for Medical School buildings and affiliated hospitals. In 1920 the University

conveyed to Multnomah County nine acres on the campus for the construction of a general charity hospital. In 1926 a tract of twenty-five acres was deeded to the United States government as a site for a veterans' hospital.

**The First Medical Science Unit** (1919) was financed through an appropriation of \$110,000 by the 1917 State Legislature and by cash donations amounting to \$25,000 from Portland citizens. The building is a three-story reinforced-concrete structure.

**Mackenzie Hall** (1922), second unit of the Medical Science Building, was financed by an appropriation of \$113,000 by the 1921 State Legislature, matched by an equal appropriation from the General Education Board of New York. It is 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 with twice its capacity. The General Education Board appropriated \$50,000 in addition for equipment.

**The Doernbecher Memorial Hospital for Children** (1926) was financed through a gift of \$200,000 by Mrs. E. W. Morse and Mr. Edward Doernbecher in memory of their father, the late Mr. F. S. Doernbecher. This fund was augmented by other gifts totaling \$120,000. The hospital provides 63 beds, and has exceptional facilities for the care of sick and disabled children of the state of Oregon.

**The Outpatient Clinic** (1931), connecting with the Doernbecher Memorial Hospital for Children and the Multnomah Hospital, affords teaching facilities for the clinical branches of the Medical School. Funds for the construction of the building were provided through a gift of \$400,000 from the General Education Board of New York.

**The Multnomah Hospital** (1923, 1950), constructed by the commissioners of Multnomah County, has a capacity of 310 beds; it serves as one of the teaching units of the Medical School. The Multnomah Hospital group includes also the Nurses Home (1927) and the Heating Plant (1923).

**The University State Tuberculosis Hospital** (1939) has an 80-bed capacity and a large outpatient unit. Funds for the hospital were provided by a state appropriation of \$110,000, a Public Works Administration grant of \$130,900, and a gift from Mrs. Grace R. Meier, Mr. Jack Meier, Mrs. Joseph Ehrman, Jr., and Mrs. Frederick Ganz, in memory of Mr. Julius L. Meier, husband and father. The outpatient clinic of the hospital is called the Julius L. Meier Memorial Clinic.

**The Library and the Auditorium** (1939) were erected with funds provided through gifts of \$100,000 from Dr. John E. Weeks and \$100,000 from the Rockefeller Foundation, and through a grant of \$163,500 from the Public Works Administration. The Library stacks provide shelving space for 100,000 volumes, and may be expanded to accommodate an additional 100,000. The auditorium, with a seating capacity of 600, provides facilities for lectures and scientific meetings in the field of medicine for students in the Medical School and physicians of the state of Oregon and the Pacific Northwest.

**The Nurses Dormitory** (1943), formerly the Portland Medical Hospital, was purchased in 1943 to provide needed housing facilities for students in the Department of Nursing Education. The dormitory accommodates 95 students.

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

## Clinical and Special Facilities

**C**LINICAL facilities are afforded by the Multnomah Hospital, the Doernbecher Memorial Hospital for Children, the Outpatient Clinic, the University State Tuberculosis Hospital, and extramural clinics. These facilities are effectively coordinated for the clinical needs of the Medical School.

**Multnomah Hospital.** The Multnomah Hospital, opened in 1923, is a 310-bed charity hospital, with facilities for general medical, surgical, and obstetrical patients.

Under the terms of a contractual agreement 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 director of the hospital is a Medical School official. The director of the hospital appoints the professional staff, from nominations by the Medical School. The arrangement provides a most successful affiliation for teaching, research, and the care of the sick.

**The Doernbecher Memorial Hospital for Children** affords every facility for teaching and research in the Department of Pediatrics and in other clinical divisions. Operating funds for the hospital are provided chiefly from state appropriations.

**Outpatient Clinic.** Admissions, medical records, X-ray, laboratory, physical medicine (physical therapy and occupational therapy), social service, and other such medical services are unified and coordinated in the Outpatient Clinic, housed in a unit connecting the Doernbecher Memorial Hospital and the Multnomah Hospital. Through this arrangement, duplication is eliminated, and the care of patients and the teaching of medical students are greatly facilitated. The history of the Outpatient Clinic began with the founding of the Portland Free Dispensary in 1907 by the Peoples' Institute, a private philanthropic institution. The dispensary became affiliated with the Medical School in 1909. It was located at Fourth and Jefferson streets until January 1, 1931, when it was merged into the Outpatient Clinic on the Medical School campus.

The budget for maintenance and operation of the clinic is provided by state appropriations, Multnomah County, and the Public Welfare Commission.

**The University State Tuberculosis Hospital** is an 80-bed hospital devoted to the care of patients suffering from tuberculosis. It provides medical and surgical facilities for teaching medical students, interns, residents, and nurses.

**Extramural Clinics.** Clinics and ward walks for small classes are conducted in a number of hospitals not situated on the Medical School campus—at Good Samaritan Hospital, Emanuel Hospital, St. Vincent's Hospital, Veterans Hospital, Shriners' Hospital for Crippled Children, and City Isolation Hospital.

**Autopsy Service and Pathological Museum.** Under a contractual agreement with the Multnomah County commissioners, the Department of Pathology of the Medical School is designated to perform and record all coroner's autopsies. This arrangement materially augments the Pathological Museum and affords unusual opportunity for teaching in pathology and medical jurisprudence, besides assuring authoritative records for medicolegal purposes. The museum has gross and tissue specimens numbering many thousands. A bone-tumor registry has been established for both undergraduate and graduate study. A large and comprehensive kodachrome-slide library is available for instructional use.

## Library

**T**HE Medical School Library contains more than 50,000 volumes of books and bound periodicals and a large number of unbound periodicals. Approximately 800 current periodicals are received. Through the privileges of interlibrary loan and microfilm service, it is possible to obtain within a few days material not in this collection. The Oregon State Board of Medical Examiners, the Portland Academy of Medicine, and the Multnomah County Medical Society contribute part of the annual operating funds.

The Library collection has been enriched by many valuable gifts of books and periodicals from individuals and organizations. Books and objects of medical historical interest are being assembled through the aid of the Women's Auxiliary of the Oregon State Medical Society and other friends of the Medical School. Public acknowledgement of gifts to the Library is made by means of a printed list in the annual Commencement program.

During the first term of a school year, students in the first-year class and other interested students are given a brief survey of the resources of the Library and instruction in their use.

The following regulations govern fines and charges in connection with the use of Library facilities :

(1) In general, no fines are assessed for failure to return seven-day or two-week books promptly; but a maximum fine of \$1.00 a day may be imposed in special cases, at the discretion of the librarian, for failure to return books urgently needed.

(2) For failure to return reserve books when due, the following fines are assessed: 25 cents for the first hour; 5 cents for each additional hour or fraction thereof. The maximum fine is \$5.00.

(3) A service charge of 10 cents is added to all fines reported to the Business Office for collection.

(4) For lost books, the borrower is charged the list price, plus the amount of fines incurred up to the time the book is reported missing, and plus a service charge of 50 cents.

(5) When a book, which has been reported lost and has been paid for by the borrower, is returned before a replacement has been ordered, a refund equal to the list price of the book is made. When replacements have been purchased for lost books, refunds may or may not be made, at the discretion of the librarian.

## Graduate Residency Program

**O**NE 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 60 appointments. Residency training follows one year of internship, and consists of two, three, or four years of study devoted entirely to one specialized field of medicine. Instruction is received 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 anesthesia, dermatology and syphilology, experimental medicine, general practice, internal medicine, obstetrics and gynecology, neurological surgery, neurology, ophthalmology, orthopedic surgery, otolaryngology, pathology (both clinical and anatomical), pediatrics, radiology, general surgery, thoracic surgery, and urology.

The following Portland hospitals cooperate with the Medical School in the residency programs: City of Portland Isolation Hospital, Emanuel Hospital,

Shriners' Hospital for Crippled Children, Providence Hospital, Good Samaritan Hospital, and Veterans Hospital.

Applications should be made to the Medical Director of the University of Oregon Medical School Hospitals and Clinics. Appointments are made approximately six months in advance of the beginning of the residency period, July 1.

## Postgraduate Program

**T**HE University of Oregon Medical School makes its teaching and clinical facilities available to physicians for continued postgraduate study. An extensive postgraduate program has been arranged, consisting of a series of short intensive courses, usually of five days' duration. These courses are devoted to special subjects and are scheduled throughout the year. Instruction is by lectures and demonstration, the method of presentation depending upon the subject. Courses are offered in the following fields: internal medicine, general surgery, orthopedic surgery, radiology, malignant diseases, obstetrics and gynecology, and pediatrics.

Enrollment is open to any graduate of an approved medical school who is licensed to practice in his state of residence. The fee for five-day courses is \$50.00; the fee for shorter courses is proportionately less.

By special arrangement, physicians may enroll for a period of several months' training in a particular subject. The fee for such study is \$50.00 a month.

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.

## Hospital Dietetics

**T**HE 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 from an accredited college with a major in foods or in institutional management.

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 \$15.00 per month.

Appointments are made once a year; applications should be submitted to the Medical Director, University of Oregon Medical School Hospitals and Clinics, not later than February 15.

## X-Ray Technique

**T**HE Department of Radiology of the University of Oregon Medical School offers a twelve-month course of training for X-ray technicians. The course, which was established in 1930, is approved by the Council on Medical Education and Hospitals of the American Medical Association and by the American Registry of X-Ray Technicians.

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

No tuition is charged during the period of training, but the student must provide his own books, supplies, and uniforms.

The course includes lectures in anatomy, physiology, physics, and X-ray equipment, and lectures and clinical experience in dark-room chemistry and procedures, X-ray techniques, positioning of patients, hospital ethics, record keeping, department operation, and X-ray therapy. All instruction is under the direction of the head of the Department of Radiology, University of Oregon Medical School Hospitals and Clinics.

At the present time 9 students are admitted annually as vacancies occur. Applications should be submitted to the Department of Radiology, University of Oregon Medical School Hospitals and Clinics.

Upon successful completion of the course, a certificate is given by the University of Oregon Medical School. An additional year of clinical experience under a radiologist must be completed before application for registration with the American Registry of X-Ray Technicians.

## Admission and Requirements

**A**DMISSION 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. Admission is on a competitive basis.

Applicants for admission are required to have completed satisfactorily four years in an accredited high school, or its equivalent, and collegiate preparation of not less than three years of full-schedule work in an accredited college or university.

(1) **High-School Preparation.** The following high-school course, which meets all the formal requirements, is strongly recommended:

	Units		Units
English.....	4	Latin.....	2
Algebra.....	1½	History.....	1
Geometry.....	1	German or French.....	2
Physics.....	1	Electives.....	1½
Chemistry.....	1		
Total.....			15

(2) **Collegiate Preparation.** The applicant must have completed satisfactorily 138 term hours (92 semester hours) of credit, exclusive of military science.

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

	Term hours
Chemistry.....	23
General inorganic, which may include qualitative analysis.....	12
Quantitative analysis, emphasis on volumetric analysis.....	3
Organic.....	8
Biology.....	15
General biology or zoology.....	9
Selections from general embryology, vertebrate, or general physiology (order of preference, embryology, vertebrate anatomy).....	6
Physics.....	12
Mathematics.....	6
*English.....	9
Total prescribed credit.....	65

\* Students expecting to receive the bachelor's degree from the University of Oregon should include 9 hours of English composition and 9 hours of English literature in their premedical programs.

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

The work in organic chemistry must include the chemistry of both aliphatic and aromatic compounds. Biochemistry will not be accepted toward meeting the requirement. Students electing additional work are advised to take a course in elementary physical chemistry. 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. Students electing additional work are advised to take courses in embryology, vertebrate anatomy, histological technique, or general physiology.

The work in physics must include the divisions of mechanics, heat and sound, light and electricity. Students electing additional work are advised to take further courses in electricity or atomic physics.

The work in mathematics should be of standard college grade, and should include subjects such as algebra, elementary analysis, or trigonometry. Students electing additional mathematics are advised to take work in calculus.

The premedical student is advised very strongly against taking any medical courses in his preparation for the study of medicine. Rather, he should devote his efforts to obtaining the best possible general cultural education and, in addition, a thorough training in the basic sciences of chemistry, physics, and biology.

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

A fee of \$5.00 is charged for the evaluation of transcripts submitted with the application for admission. When an applicant is accepted for admission to the Medical School, a deposit of \$25.00 must be paid not later than two weeks following acceptance, in order to reserve a place in the entering class. This deposit of \$25.00 applies toward the tuition fee of the first term. It is not refundable after a period of thirty days following notice of acceptance.

Because of the large number of applications received from students in the Pacific Northwest region, it is seldom possible to accept applicants from other sections of the country.

Applications for admission should be submitted between September 1 and December 15. Application forms may be obtained from the Registrar of the Medical School.

**Aptitude Test.** Applicants for admission are expected to have taken the aptitude 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.

**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 College, 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.

**Special Students.** Graduates in medicine may register as special students. Graduates in medicine may not be candidates for the degree of Doctor of Medicine.

Students holding only academic degrees may be admitted as special students in certain courses in the Medical School upon recommendation by the head of the department concerned, subject to the approval of the Committee on Admissions and the dean. 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.

Special students are required to submit credentials in support of their application for admission.

Students who register for special work are charged tuition according to the amount of work undertaken and the nature of the course.

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

## Scholastic Regulations

**Grading System.** A numerical grading system of *I* to *V* is used at the Medical School. *I* is the highest and *V* is the lowest passing grade. If a course is not completed within the time allotted, the work must be finished satisfactorily within one year. *Failure* in a course requires repetition of the course.

**Elective Courses.** If a student registers for an elective course, he must complete the course unless he officially withdraws. A student may not withdraw from an elective course later than two weeks after the beginning of the term without special permission of the dean.

**Promotion.** In order to be promoted from the first to the second year and from the second to the third year in the Medical School, the student must receive a passing grade in all subjects and an average grade of *IV* or better for the work of the entire year. The status of students failing to meet these requirements is determined by the Promotion Board. Third- and fourth-year students must receive satisfactory grades in all subjects.

**Requirements for the Degree of Doctor of Medicine.** A candidate for the degree of Doctor of Medicine must complete satisfactorily the curriculum prescribed by the faculty of the Medical School. 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.

## Graduate Division

**T**HE Medical School offers graduate instruction leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. Graduate degrees earned at the Medical School are conferred by the University of Oregon, upon the recommendation of the faculty of the Medical School.

Instruction leading to the master's degree is offered in anatomy, bacteriology,



biochemistry, pathology, pharmacology, and physiology. Candidates for the master's degree are required to present an acceptable thesis and to meet such other requirements as may be specified by the Graduate Council. A minimum of 45 term hours of graduate credit is required for the master's degree.

Instruction leading to the Doctor of Philosophy degree is offered in anatomy, bacteriology, biochemistry, pharmacology, and physiology. Candidates for the Ph.D. degree must present a thesis that represents a definite contribution to knowledge, and must meet such other requirements in a major subject and in one or two minors as are stipulated by the Graduate Council in each case. A minimum residence of three academic years or equivalent beyond the bachelor's degree is required for the Ph.D. degree. The candidate must demonstrate a reading knowledge of German and French at least one academic year prior to presentation of his thesis. By permission of the Graduate Council, on petition, another modern foreign language may in special cases be substituted for French. All candidates take a preliminary examination, which may be oral or written or both, one academic year prior to the expected completion of the thesis, and an oral examination after completion of the thesis. The thesis must be filed with the chairman of the Graduate Council not less than three weeks before the date of Commencement.

## Fees and Deposits

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

### REGULAR FEES

Tuition, per term .....	\$60.00
Laboratory and course fee .....	81.00
<sup>1</sup> Building fee, per term .....	5.00
<sup>2</sup> Incidental fee, per term .....	6.00
	\$152.00
Nonresident fee, per term (in addition to fees for resident students) .....	\$60.00

### GRADUATE FEES<sup>3</sup>

For graduate students registered for 7 or more term hours of work per term:	
Tuition .....	\$10.00
Laboratory and course fee.....	20.00
<sup>1</sup> Building fee .....	5.00
<sup>2</sup> Incidental fee .....	6.00
	\$41.00
For graduate students registered for 6 term hours of work or less.....\$6.00 per term hour (minimum, \$12.00 per term)	
For graduate students employed as graduate or research assistants or fellows, per term:	
<sup>1</sup> Building fee .....	\$ 5.00
<sup>2</sup> Incidental fee .....	6.00
	\$11.00

<sup>1</sup> Part-time special students (taking 6 hours of work or less) do not pay the building fee.

<sup>2</sup> The incidental fee is for student health service.

<sup>3</sup> Only those students pursuing programs of study toward the M.A., M.S., or Ph.D. degree are classified as graduate students. These students do not pay the nonresident fee.

**DEPOSITS**

<sup>1</sup> Deposit to reserve place in entering class.....	\$25.00
<sup>2</sup> Breakage deposit, per year—first and second years.....	15.00
<sup>2</sup> Breakage deposit, per year—graduate students.....	5.00

**SPECIAL FEES**

Registration and laboratory fee for special students registered for 6 term hours of work or less.....	\$10.00 per term hour (minimum, \$20.00 per term)
Auditor's fee for lectures, per term hour.....	\$ 4.00
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; for any transcripts issued after the first, a fee of \$1.00 is charged for the first copy, and 50 cents for each additional copy issued simultaneously.	
Evaluation fee .....	\$ 5.00
The evaluation fee is charged for the evaluation of transcripts submitted with the application for admission; not refundable.	
Late-registration fee, per day .....	\$1.00
Students registering after the scheduled registration day of any term pay a late-registration fee of \$1.00 per day. The first penalty day for graduate students is one week after the scheduled registration day.	
Penalty for late payment of tuition fee, per day.....	25 cents
Registration is cancelled after one week, after which a \$2.00 fee is required for reinstatement.	
Graduate qualifying-examination fee .....	\$1.00 to \$15.00
Cap-and-gown rental fee .....	\$2.00

**MICROSCOPES**

Medical students are expected to provide themselves with microscopes. Microscopes are available for students who wish to rent them, for a fee of \$4.00 a term.

**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. All refunds are subject to the following regulations:

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

**REGULATIONS GOVERNING NONRESIDENT FEE**

The Oregon State Board of Higher Education has ruled that any person who comes into the state of Oregon for the purpose of attending one of the institutions under the control of the Board, and who for any reason is not qualified for

<sup>1</sup> See ADMISSION AND REQUIREMENTS.

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

classification as a resident of the state of Oregon, shall pay the nonresident fee, except: (a) a student who holds a degree from an accredited college or university and is registered in a curriculum other than professional dentistry, law, or medicine, (b) a student attending summer session, (c) a student paying part-time fees, (d) a student whose parent is a regular employee of the Federal government stationed in Oregon, or (e) a student whose father is domiciled in the state of Oregon as defined under (1) below.

The residence or domicile of a student is normally that of his father; if his father is not living, it is normally that of his mother. In case of parents' divorce, the domicile of a student is generally determined by the residence of the parent to whom custody is granted by the court. The domicile of a wife is normally that of her husband; if both are students, the wife's residence status is determined by that of the husband. The domicile of a student who is independent of the relations mentioned above is determined by rule (1) below. An alien cannot begin to establish residence until he has obtained his first citizenship papers.

The Board has established the following rules to be observed in determining the residence status of students:

(1) Residence and domicile are synonymous and domicile shall be considered to be a fixed permanent residence to which the student has the intention of returning. The fixed permanent residence must normally have been maintained for at least twelve months prior to the school term for which resident classification is sought, and must be a bona fide residence which the student has no intention of changing when the school period has expired. Proved actual residence and intention to remain must exist simultaneously. Factors used in determining intent include age and family status of the student, residence of near relatives, place of voting, ownership of property, sources of financial support, length of time within the state, record of employment and schooling (intent cannot be demonstrated by school attendance alone).

(2) A student whose official records show his own or his parents' domicile to be outside of Oregon is prima facie a nonresident, and the burden is upon the student to prove the contrary. If his official transcripts of academic record show attendance at a school outside of Oregon, he may be required to furnish further proof of Oregon domicile.

(3) A nonresident at the time of enrollment is held to that classification throughout his attendance as a student, except where he can prove that his or his parent's previous domicile has been abandoned and a new one established in Oregon in accordance with these regulations. A resident student will be reclassified as nonresident at any time his Oregon domicile is lost.

## Fellowships, Scholarships, Loan Funds, Prizes

**Noble Wiley Jones Pathology Research Fellowship.** This fellowship, founded 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.

**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 \$23,500. Awards are made to students of promise in the field of medicine. Two-thirds of the scholarships are given to men students, one-third to women students. Application should be filed with the office of the dean of the Medical School not later than April 1. Scholarships are awarded by the dean upon the recommendation of the Scholarship Committee of the Medical School.

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

**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 upon the basis of scholastic attainment and need. Application should be filed in the office of the dean of the Medical School not later than April 1. Scholarships are awarded by the dean upon the recommendation of the Scholarship Committee of the Medical School.

**Pfizer Scholarship Fund for Medical Students.** An annual grant of \$1,000 is made to the Medical School by Charles Pfizer and Company, Brooklyn, N. Y., to provide scholarship awards to not more than three students in medicine. Preference is given to first- and second-year students. Scholarships are awarded by the dean on the recommendation of the Scholarship Committee. Applications should be filed in the office of the dean not later than April 1.

**Frank Ralston Research Student Assistantship.** This assistantship was made available in 1946 through a gift of \$5,000 from Dr. Frank Ralston. The funds are devoted to research in glaucoma under the direction of the head of the Department of Ophthalmology.

**Ben Selling Loan Fund.** This fund, a bequest from the late Mr. Ben Selling, is administered by Dr. Laurence Selling and the Trust Department of the First National Bank of Portland. Applications for loans are made through the office of the dean of the Medical School.

**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.

**Leona M. Hickman Student Loan Fund.** This fund, established in 1936, is available, by the terms of the trust, to young men who are actual residents of King County, state of Washington; the fund is administered by the Peoples National Bank of Washington in Seattle as trustee. Application should be made to the Trust Department of the Peoples National Bank of Washington, 1414 Fourth Avenue, Seattle, Washington.

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

**George T. Gerlinger Memorial Graduation Gift.** This fund, established in 1952 by a gift from Mrs. George T. Gerlinger in memory of her husband, provides an annual award of \$100 to an outstanding senior from Benton, Linn, or Polk County.

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

**University of Oregon Loan Funds.** Except in the case of a few funds which are specifically restricted to the University students at Eugene, students of the Medical School are eligible for loans from the University student loan funds on the same basis as students on the campus at Eugene. For loan regulations see the general University Catalog.

## Endowment Funds

**The Dorothy Stowbridge Jackson Memorial Fund (1935)** was made available through a trust agreement provided in the will of Zola P. White. The trust, the income of which is to be devoted to instructional needs of the Department of Medicine, is administered by the First National Bank of Portland. The assets of the fund consist principally of real estate in Portland.

**The Widmer Memorial Research Fund (1939)** was made available through a gift from Gertrude E. and Margaret M. Widmer, residents of Eugene, in memory of their parents and brother. The invested capital amounts to \$16,000. The income from this fund is utilized for the purpose of research and treatment of cancer and heart disease.

**The Kenneth A. J. Mackenzie Memorial Fund (1940)**, amounting to \$250,000, was given to the University of Oregon by the late Mildred A. Williams in memory of Dr. Kenneth A. J. Mackenzie. Of the annual income of this fund, \$1,000 is devoted to scholarships for premedical and medical students, and the remainder (approximately \$7,000) is devoted to the support of the Department of Surgery.

**The Lola Norwood Diack Trust Fund** (1938) was established by Dr. Samuel L. Diack and others in memory of Lola Norwood Diack. The income is available to the various departments of the Medical School for research.

**Jones Lectureship in Medicine.** The Jones Lectureship in Medicine, founded by Dr. Noble Wiley Jones of Portland, provides the income from a \$5,000 fund for a series of lectures by an authority in some branch of medical science. The first lectures were given in 1920.

**The Matie B. Train Research Fund** (1944) was established under the will of the late Matie B. Train for research in diseases of the vascular system. The principal of the fund is now about \$5,400.

**The David P. Mathews Research Fund** (1945), approximately \$20,000, was made available under the will of the late David P. Mathews. The fund is to be utilized in research and study of improved methods for the treatment and cure of asthma.

**The Weeks Ophthalmology Fund** (1945) was established through a gift of \$5,000 from Mrs. John E. Weeks and the late Dr. Weeks; the fund will be utilized to establish and maintain a clinic at the Medical School for the diagnosis and treatment of anomalies of binocular vision.

**Andrew J. Browning Ophthalmologic Memorial Fund** (1947) was established through a gift of \$3,000 to further the teaching of ophthalmology in the Medical School by purchase of outstanding art illustrating ophthalmic subjects.

**The Thomas M. Joyce Memorial Fund** (1947) was established by friends as a memorial to the late Dr. Thomas M. Joyce. The principal at present amounts to approximately \$18,000. The annual income is utilized to aid in the training of a fellow in surgery.

**The Don McGraw Research Fund** (1948) was established through a gift of \$5,000 from Mrs. Don McGraw and a gift of \$1,000 from Aubrey R. Watzek. The fund will be used to support research in cardiovascular disease and related disorders.

**The Watzek Ophthalmology Research Fund** (1948) was established through a gift of \$1,000 from Aubrey R. Watzek; it will be used to finance preliminary work in new research projects in ophthalmology.

**The Byron and Johanne Dorsey Endowment Fund** (1949) was established through a gift of \$18,000; the income will be devoted to research on cancer.

## Student Health

**A** STUDENT health service program at the Medical School is carried on under the direction of a committee of the faculty appointed by the dean. In order to safeguard the health of all medical students, physical examinations, chest X-rays, inoculations, and other preventive measures are given. A dispensary service, located in the student health office, is conducted by a student health physician and a registered nurse, who maintain regular office hours during the day. Emergencies and treatment of acute diseases is charged each student for this program.

## Fraternal and Honor Societies

**C**HAPTERS of the following medical fraternities and honors societies are located at the Medical School: Alpha Epsilon Iota, Alpha Kappa Kappa, Nu Sigma Nu, Phi Beta Pi, Alpha Omega Alpha (honorary medical society for both men and women).

### Alumni Association

**T**HE Medical School Alumni Association includes the graduates of the Medical School and of the Willamette University department of medicine, which was merged with the University of Oregon Medical School in 1913. A strong organization has been built up, devoted to the interests of students and graduates and to the encouragement of scientific and professional progress among members of the association and in the medical profession generally. With the faculty of the Medical School, the association is cooperating to build up a great medical center in Portland. The officers of the Alumni Association for 1952-53 are:

DR. DEAN SEABROOK, Portland.....	President
DR. HOWARD C. STEARNS, Portland .....	Vice-President
DR. FREDERICK B. JOY, Seattle, Wash. ....	Vice-President
DR. SAMUEL M. POINDEXTER, Boise, Idaho .....	Vice-President
DR. GORDON LANGSDORF, San Diego, Cal. ....	Vice-President
DR. STURE A. M. JOHNSON, Madison, Wis. ....	Vice-President
DR. MERL L. MARGASON, Portland .....	Secretary
DR. JOHN F. LARSELL, Portland.....	Treasurer

### Curriculum in Medicine

**T**HE 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 **ADMISSION AND REQUIREMENTS**. In the first, second, third, and fourth years at the Medical School there are 4,586½ class hours of required work. Descriptions of courses are to be found under the several departmental headings.

#### PRESCRIBED WORK

The hours listed below do not include examination periods.

	First Year			Total	Term hours
	Lecture	Lab.	Clinic		
An 411, 412, 413.... Anatomy.....	77	264	....	341	15
An 414, 415.... Microanatomy.....	55	165	....	220	10
An 511.... Neurology.....	22	66	....	88	4
BCh 411, 412.... Biochemistry.....	77	165	....	242	12
Phy 411.... Physiology.....	55	99	....	154	8
Med 411, 412, 413..Introduction to Clinical Medicine.....	33	....	....	33	3
PH 411.... Statistical Methods.....	11	33	....	44	2
Mil 411, 412, 413...Military.....	33	....	....	33	3
	363	792	....	1,155	57

## Second Year

	Aggregate class hours				Term hours
	Lecture	Lab.	Clinic	Total	
Bac 413, 414..... Med. Microbiology & Immunology.....	66	132	....	198	10
Pth 511, 512..... Pathology.....	66	132	....	198	10
Pth 513..... Laboratory Diagnosis.....	33	66	....	99	5
Pth 514..... Gyn. and Obs. Pathology.....	11	22	....	33	1½
Phc 511, 512..... Pharmacology.....	77	66	....	143	9
Phy 412..... Physiology.....	44	66	....	110	6
Med 612, 613, 614.. Medicine (Phys. Diag.).....	66	....	66	132	9
Ps 611..... Neuropathology and Psychopathology... ..	11	....	....	11	1
PH 512, 513..... Epidemiology.....	33	33	....	66	4
Sur 610, 611..... Introduction to Surgery.....	22	....	....	22	2
Sur 612..... Healing Processes.....	11	....	....	11	1
Mil 414, 415, 416.. Military.....	33	....	....	33	3
	473	517	66	1,056	61½

## Third Year

PATHOLOGY:					
Pth 515..... Laboratory Neuropathology.....	11	22	....	33	1½
MEDICINE:					
Med 617, 618..... Clerkships.....	....	....	198	198	13
Med 620, 621..... Medical Clinic.....	....	....	22	22	1
Med 668, 669, 670.. Practice of Medicine.....	198	....	....	198	18
Ps 613, 614..... Psychopathology.....	22	....	....	22	1
Der 611, 612, 613.. Dermatology and Syph. Clinic.....	....	....	33	33	1½
RADIOLOGY:					
Rad 611, 612, 613.. Radiographic Diagnosis.....	33	....	....	33	1½
PUBLIC HEALTH AND PREVENTIVE MEDICINE:					
PH 511..... Principles of Public Health.....	33	....	....	33	3
DENTAL AND ORAL MEDICINE:					
DM 612..... Dent. Facial Growth and Oral Path... ..	11	....	....	11	1
SURGERY:					
Sur 613, 614..... Minor Surgery.....	22	....	....	22	2
Sur 615..... Physiotherapy.....	11	....	....	11	½
Sur 640..... Clerkships.....	....	....	66	66	3
Sur 643..... Surg. Clinics.....	....	....	66	66	3
Sur 646, 647, 648.. Clerkship Clinic.....	33	....	....	33	1½
Sur 661, 662..... Anesthesia.....	22	....	....	22	1
Orp 611..... Orthopedics.....	22	....	....	22	1
Orp 612, 613..... Surgery of Extremities.....	....	....	44	44	2
OPHTH., OTOL., RHIN., LARYN.:					
Eye 611..... Ophth. Lectures.....	11	....	....	11	½
Ent 611..... O. R. and L. Lectures.....	11	....	....	11	½
UROLOGY:					
Ur 611..... Lectures.....	11	....	....	11	½
OBSTETRICS:					
Obs 611..... Intro. Lect. and Demon.....	22	....	....	22	1
Obs 612..... Lec. and Demon.....	22	....	....	22	1
Obs 613..... Path. Preg., Labor and Puerp.....	22	....	....	22	1
Obs 614..... Seven days' service in hospital.....	....	....	11	11	½
Obs 615..... Manikin.....	22	....	....	22	1
GYNECOLOGY:					
Gyn 611..... Lectures.....	22	....	....	22	1
Gyn 612..... Lectures.....	22	....	....	22	1
Gyn 613..... Clerkships.....	....	....	33	33	1½



	Aggregate class hours			Term hours	
	Lecture	Lab.	Clinic Total		
<b>PEDIATRICS:</b>					
Ped 611, 612, 613...An. Ph. Hy. Inf. Ch. Clinic.....	22	....	11	33	1½
Ped 614, 615, 616...Dis. of Inf. and Ch.....	33	....	....	33	1½
Ped 617.....Clerkships.....	....	....	44	44	2
Ped 618.....Physical Diagnosis.....	....	....	11	11	½
	638	22	539	1,199	71½

**Fourth Year**

<b>PATHOLOGY:</b>					
Pth 613.....Gen. Path. Conf.....	....	....	33	33	1½
Pth 615.....Tumor Clinic.....	....	....	33	33	1½
Pth 617.....Surgical Pathology.....	....	....	33	33	1½
Pth 618.....Oncology.....	11	11	....	22	1

<b>MEDICINE:</b>					
Med 624, 625, 626...Med. Outpatient Clinic.....	....	....	132	132	6
Med 627.....Med. Clinic.....	....	....	11	11	½
Med 635.....Tuberculosis Clinic.....	....	....	22	22	1
Med 636.....Diabetes, & Metabol. Outpatient Clinic.....	....	....	22	22	1
Med 645.....Cardiovascular-Renal Outpatient Clinic.....	....	....	22	22	1
Med 651.....Medical Jurisprudence.....	11	....	....	11	½
Med 658.....Allergy Clinic.....	....	....	11	11	1
Med 661.....Medical Economics.....	11	....	....	11	½
Med 664.....Tuberculosis Clerkship.....	5½	....	....	5½	½
Med 671.....Occupational Med. and Toxicology.....	11	....	....	11	1
Med 672, 673, 674...Conf. on Medical Therapy.....	....	....	33	33	1½
Med 678, 679.....Tropical Medicine.....	22	....	....	22	2
Med 680.....Gastroenterology Outpatient Clinic.....	....	....	22	22	1
Med 681.....Endocrinology Outpatient Clinic.....	....	....	22	22	1
Med 682.....Chest Diseases Outpatient Clinic.....	....	....	22	22	1
Med 683.....Hematology Outpatient Clinic.....	....	....	22	22	1
Med 684.....Allergy Outpatient Clinic.....	....	....	22	22	1
Neu 614.....Nervous Dis. Outpatient Clinic.....	....	....	22	22	1
Neu 615.....Nerv. and Mental Clinic.....	....	....	11	11	½
Ps 615.....Psychiatry Outpatient Clinic.....	....	....	22	22	1
Ps 619.....Psychoses.....	11	....	....	11	½
Der 615.....Dermatology.....	....	....	33	33	1½

<b>SURGERY:</b>					
Sur 617.....Outpatient Clinic.....	....	....	33	33	1½
Sur 620, 621, 622...Surgical Conference.....	....	....	33	33	1½
Sur 623, 624, 625...Gen. Surg. Clinic.....	....	....	66	66	3
Sur 663.....Clerkship in Anesthesia.....	....	....	16	16	½
Orp 616.....Orp. Outpatient Clinic.....	....	....	33	33	1½

<b>OPHTH., OTOL., RHIN., LARYN.:</b>					
Eye 612.....Ophth. Outpatient Clinic.....	....	....	33	33	1½
Eye 613.....Ophth. Lecture.....	11	....	....	11	½
Ent 612.....O. R. and L. Outpatient Clinic.....	....	....	33	33	1½
Ent 613.....O. R. and L. Lecture.....	11	....	....	11	½

<b>UROLOGY:</b>					
Ur 612, 613.....Clinic.....	....	....	22	22	1
Ur 614.....Outpatient Clinic.....	....	....	33	33	1½

<b>OBSTETRICS:</b>					
Obs 616.....Clinic.....	....	....	22	22	1
Obs 617.....Outpatient Service (twelve days' service in hospital and home deliveries)...	....	....	33	33	1½
Obs 618.....Postnatal Clinic.....	....	....	11	11	½
Obs 619, 620, 621...General Clinic.....	....	....	33	33	1½
Obs 622.....Clerkships.....	....	....	11	11	½

<b>GYNECOLOGY:</b>					
Gyn 614.....Outpatient Clinic.....	....	....	22	22	1
Gyn 615.....Operative Clinic.....	....	....	11	11	½

	Aggregate class hours			Term hours	
	Lecture Lab.	Clinic	Total		
PEDIATRICS:					
Ped 619.....	.....	.....	33	33	1½
Ped 622, 623, 624...Dis. Inf. and Child.....	33	.....	.....	33	1½
	<b>137½</b>	<b>11</b>	<b>1,028</b>	<b>1,176½</b>	<b>55½</b>

### RECAPITULATION

	Aggregate class hours				Term hours
	Lecture	Laboratory	Clinic	Total	
First year.....	363	792	.....	1,155	57
Second year.....	473	517	66	1,056	61½
Third year.....	638	22	539	1,199	71½
Fourth year.....	137½	11	1,028	1,176½	55½
	<b>1,611½</b>	<b>1,342</b>	<b>1,633</b>	<b>4,586½</b>	<b>245½</b>

### PRESCRIBED WORK BY DEPARTMENTS

#### Preclinical

	Aggregate class hours
Anatomy.....	649
Bacteriology.....	198
Biochemistry.....	242
Physiology.....	264
Pharmacology.....	143
Pathology.....	330
Military Science.....	66
Total hours, preclinical.....	1,892

#### Clinical

Pathology.....	154
Medicine:	
General Medicine.....	984½
Nervous and Mental Diseases.....	33
Psychiatry.....	66
Dermatology and Syphilology.....	66
Radiology.....	33
Medical Jurisprudence.....	11
Medical Economics.....	11
Public Health.....	143
Dental Medicine.....	11
Surgery:	
General Surgery.....	71
Urology.....	396
Orthopedic Surgery.....	99
Ophthalmology.....	55
Otology, Rhinology, Laryngology.....	55
Gynecology.....	110
Obstetrics.....	209
Pediatrics.....	187
Total hours, clinical.....	2,694½
Total hours, prescribed work.....	4,586½

## Course-Numbering System

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

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

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

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

## Basic Science Departments

### ANATOMY

#### Required Courses

##### First Year

- An 411, 412, 413. **Gross Anatomy.** 5 hours fall, 7 hours winter, 3 hours spring.  
Fall : lectures and quizzes, 2 hours ; laboratory, 9 hours. Winter : lectures and quizzes, 3 hours ; laboratory, 12 hours. Spring : lectures and quizzes, 2 hours ; laboratory, 3 hours. 341 hours. Drs. Pearson, Stotler, and assistants.
- An 414, 415. **Microanatomy.** 6 hours fall, 4 hours winter.  
Fall : lectures and quizzes, 3 hours ; laboratory, 9 hours. Winter : lectures and quizzes, 2 hours ; laboratory, 6 hours. 220 hours. Drs. Johnson, Tunturi, Walker, and assistants.
- An 511. **Neurology and Organs of Special Senses.** 4 hours spring.  
Prerequisites : An 411, 415. Lectures, 2 hours ; laboratory, 6 hours ; 88 hours. Drs. Pearson, Johnson, Stotler, Tunturi, and assistants.

##### Elective Courses

- An 416. **Microscopic Technique.** 2 hours spring.  
Limited to 8 students. Registration only after consultation with instructor. Laboratory, 6 hours ; 66 hours. Mrs. Sceats and staff.
- An 501. **Research.** Any term, hours to be arranged.  
Open to qualified students in any branch of anatomy upon approval of the instructors. Drs. Pearson, Stotler, Tunturi, and Walker.
- An 505. **Reading and Conference.** Any term, hours to be arranged.  
Drs. Pearson, Stotler, Tunturi, and Walker.
- An 507. **Seminar and Journal Club.** Any term, hours to be arranged.  
Anatomical staff and advanced students.
- An 512. **Advanced Histology.** Winter, hours to be arranged.  
Prerequisites : An 414, 415. Laboratory, 6 hours or less. Limited to 20 students.

- An 513. **Topographical Anatomy.** 1 or 2 hours spring.  
Prerequisites: An 411, 412, 413. Limited to 15 students. Laboratory, 3 or 6 hours, 33 or 66 hours.
- An 514. **Special Dissections.** Term and hours to be arranged.  
Registration limited by available material. Prerequisites: An 411, 412, 413.
- An 516. **Mechanism of the Central Nervous System.** 1 hour spring.  
Lectures, reading assignments, and demonstrations of experiments on the central nervous system. Lecture, 1 hour; demonstration and reading to be arranged. Dr. Tunturi.
- An 517. **Comparative Neurology.** Winter or spring, hours to be arranged.  
Lectures, conferences, and laboratory.
- An 611. **Applied Anatomy.** 2 hours spring.  
Prerequisites: An 411, 412, 413. Lectures and demonstrations, 2 hours; 22 hours. Limited to 45 students.

## BACTERIOLOGY

### Required Courses

#### Second Year

- Bac 413, 414. **Medical Microbiology and Immunology.** 5 hours each term, fall and winter.  
Lectures and recitations, 3 hours each term; laboratory, 6 hours each term; 198 hours. Drs. Sears, Frisch, and Veazie, and Miss Brownlee.

#### Elective Courses

- Bac 501. **Research in Bacteriology and Immunology.** Hours to be arranged.  
Drs. Sears and Frisch.
- Bac 505. **Reading and Conference.** Any term, hours to be arranged.  
Drs. Sears and Frisch.
- Bac 507. **Seminar in Bacteriology and Immunology.** 1 hour any term.  
Meetings of the departmental staff and assistants with a number of specially qualified students to discuss the newer developments in the science as they appear in the current periodical literature. Topics assigned and individual reports read at meetings of the class. Open to a limited number of students. Meetings held once each week for one hour. Dr. Sears.
- Bac 508. **Advanced Bacteriology and Immunology.** Any term, hours to be arranged.  
A course for medical, special, and graduate students who wish to pursue any phase of the subject beyond Bac 414. Drs. Sears and Frisch.

## BIOCHEMISTRY

### Required Courses

#### First Year

- BCh 411, 412. **Biochemistry.** 6 hours each term, fall and winter.  
Fall: lectures, 4 hours; laboratory, 6 hours. Winter: lectures, 3 hours; laboratory, 9 hours; 242 hours. Drs. West, Todd, and Van Bruggen, and assistants.

## Elective Courses

- BCh 501. **Biochemistry Research.** Any term, hours to be arranged.  
Drs. West, Todd, and Van Bruggen.
- BCh 505. **Reading and Conference.** Any term, hours to be arranged.  
Drs. West, Todd, and Van Bruggen.
- BCh 507. **Seminar.** Any term, hours to be arranged.
- BCh 512. **Advanced Biochemistry.** Spring, hours to be arranged.  
The work consists of biochemical preparations, selected methods of analysis, assigned readings, and conferences. Prerequisites: BCh 411, 412. Drs. West, Todd, and Van Bruggen.
- BCh 513. **Selected Topics in Biochemistry.** 1 hour fall.  
Biochemical material presented in this course provides additional training in the field as related to clinical medicine; 1 hour; 11 hours. Drs. West, Todd, and Van Bruggen.
- Laboratory Diagnosis.* Required for second-year students; see Pth 513.

## PATHOLOGY

## Required Courses

## Second Year

- Pth 511. **General Pathology.** 5 hours fall.  
Study of prepared slides supplemented by experiments; fresh and museum specimens; kodachrome slides and scopicon orientation. Lectures and recitations; 3 hours; laboratory, 6 hours; 99 hours. Drs. Hunter, Cochran, Niles, and Sneed.
- Pth 512. **General Pathology.** 5 hours winter.  
Lectures, 3 hours; laboratory, 6 hours; 99 hours. Drs. Hunter, Cochran, Niles, and Sneed.
- Pth 513. **Laboratory Diagnosis.** 5 hours spring.  
Lectures, 3 hours; laboratory, 6 hours; 99 hours. Dr. Grondahl and assistants
- Pth 514. **Gynecological and Obstetrical Pathology.** 1½ hours spring.  
Lectures, 1 hour; laboratory, 2 hours; 33 hours. Drs. Cochran and Niles.

## Third Year

- Pth 515. **Laboratory Neuropathology.** 1½ hours fall.  
Continuation of Ps 611; consists of laboratory work and demonstrations dealing with inflammatory reactions and degenerative conditions, with emphasis on general paresis, tabes dorsalis, and brain tumors. Correlative lectures in neuro-physiology and clinical neurology. Gross pathological specimens and demonstrations are used in illustrating the diseases studied. Lectures, 1 hour; laboratory, 2 hours; 33 hours. Dr. Minckler and assistants.

## Fourth Year

- Pth 613. **General Pathology Conference.** ½ hour each term.  
One hour a week throughout the year; 33 hours. Staffs of the departments of Pathology, Medicine, Surgery, and Obstetrics and Gynecology.

Pth 615. **Tumor Clinic.** ½ hour each term.

One hour a week throughout the year; 33 hours. Staffs of the departments of Pathology, Medicine, Surgery, and Obstetrics and Gynecology.

Pth 617. **Surgical Pathology.** 1½ hours.

Four hours a week for 5½ weeks; and two hours a week for 5½ weeks; 33 hours. Drs. Hunter, Menne, Queen and staff.

Pth 618. **Oncology.** 1 hour spring.

Systematic study of cancer. Historical development of knowledge; experimental development of cancer; characteristics of human cancer; statistical information; present cancer problems; recent developments; organizational attack; methods of diagnosis and therapy; patient's and physician's responsibilities. Round-table instruction, with illustrations. Lecture, 1 hour; laboratory, 1 hour; 22 hours. Dr. Queen.

*Medical Jurisprudence.* Required for fourth-year students; see Med 651.

#### Elective Courses

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

Open to specially qualified students. Drs. Hunter and Cochran.

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

Drs. Cochran and Niles.

Pth 516. **Advanced Systematic Pathology.** Any term, hours to be arranged.

Study of the detached pathology of one system. Drs. Hunter, Cochran, and Queen.

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. Drs. Hunter, Cochran, and Queen.

Pth 518. **Special Pathology of Heart and Circulation.** Spring, hours to be arranged.

Dr. Hunter.

Pth 614. **Attendance at Autopsies.** Fall or winter, 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. Drs. Cochran and Niles.

Pth 616. **Tumor Clinic.** ½ hour, one section each term.

Attendance at tumor clinic at U. S. Veterans Hospital. Two hours a week for 5½ weeks, 11 hours. Dr. Menne.

### PHARMACOLOGY

#### Required Courses

##### Second Year

Phc 511. **Systematic Pharmacology and Prescription Writing.** 4 hours winter.

Lectures and quizzes, 3 hours; laboratory, 3 hours; 66 hours. Drs. David and McCawley.

Phc 512. **Systematic Pharmacology and Pharmacodynamics.** 5 hours spring.

Lectures and quizzes, 4 hours; laboratory, 3 hours; 77 hours. Drs. David and McCawley.

## 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 of pharmacological problems. Dr. David.
- Phc 505. **Reading and Conference.** Any term, hours to be arranged.  
Dr. McCawley.
- Phc 507. **Seminar.** 2 hours spring.  
Open to third- and fourth-year students; 2 hours; 22 hours. Dr. McCawley.
- Phc 514. **Toxicological Analysis.** 2 hours spring.  
(Second year.) Lectures and quizzes, 1 hour; laboratory, 3 hours; 44 hours.  
Limited to 16 students. Drs. David and McCawley.

## PHYSIOLOGY

## Required Courses

## First Year

- Phy 411. **Human Physiology.** 8 hours spring.  
Introductory general physiology, digestive tract, endocrine glands, renal physiology, and circulation. Lectures, 5 hours; laboratory, 9 hours; 154 hours.  
Drs. Brookhart, Blake, Griswold, Hurst, and Trainer.

## Second Year

- Phy 412. **Human Physiology.** 6 hours fall.  
Respiratory system, nervous system, and senses. Lectures, 4 hours; laboratory, 6 hours; 110 hours. Drs. Brookhart, Blake, Griswold, Hurst, and Trainer.

## Elective Courses

- Phy 414. **History of Physiology.** 1 hour winter.  
One hour a week. Limited to 10 students.
- Phy 501. **Research.** Any term, hours to be arranged.  
Drs. Brookhart, Griswold, and Hurst.
- Phy 505. **Reading and Conference.** Any term, hours to be arranged.  
Drs. Brookhart and Griswold.
- Phy 507. **Seminar.** Any term, hours to be arranged.
- Phy 511. **Physiology of the Glands of Internal Secretion.** 2 hours spring.  
Prerequisites: Phy 411, 412. Lectures, 1 hour; laboratory, 3 hours; 44 hours.  
Limited to 8 students.
- Phy 513. **Physiology of the Autonomic Nervous System.** 1 hour fall.  
Devoted primarily to problems concerning the physiology of the peripheral autonomic nervous system, including the transmission of impulses at autonomic synapses and neuroeffector junctions. Attention given to the production, action, and destruction of the neurohormones. Reports and discussion.  
Limited to 15 students. 1 hour; 11 hours.

### MILITARY SCIENCE AND TACTICS

The Army Reorganization Act of June 4, 1920 provided for the establishment of units of the Reserve Officers Training Corps in selected medical schools. An R. O. T. C. unit was established at the University of Oregon Medical School in 1920.

The courses offered are correlated with other courses taught in the Medical School. The organization, administration, and functions of the Army in war and peace are studied. Particular stress is laid on the place of the medical department in the military organization.

Instruction is given by lectures, demonstrations, and quizzes.

#### Required Courses

Mil 411, 412, 413. **Military Medicine (First Year)**. 1 hour each term.

Mil 414, 415, 416. **Military Medicine (Second Year)**. 1 hour each term.

Military organization, history of military medicine, theoretical schools of the soldier and company, first aid, organization and administration of the medical department, map reading, tactics, and the use of medical units in peace and war. Captain Baird.

#### Elective Courses

Mil 417, 418, 419. **Advanced Military Medicine (Third Year)**. 1 hour each term.

Mil 420, 421, 422. **Advanced Military Medicine (Fourth Year)**. 1 hour each term.

Completion of the elementary course or its equivalent is a prerequisite. Students who complete the work of the advanced course will be eligible, on graduation, for a commission in the Officers' Reserve Corps. Work during the school year covers hygiene, sanitation, control of communicable diseases, history and development of military hospitals and hospitalization, school of the officer, medical and surgical diseases peculiar to war, aviation medicine, and allied subjects. A summer camp of six weeks' duration is required as part of the advanced course. Veterans may take a clinical clerkship at the nearest Army general hospital in lieu of regular camp. Captain Baird.

## Clinical Departments

### MEDICINE

#### INTERNAL MEDICINE

##### Required Courses

##### First Year

Med 411, 412, 413. **Introduction to Clinical Medicine**. 1 hour each term.

An introductory course, consisting of lectures and clinical demonstrations to orient the student in medicine and correlate the basic sciences with clinical problems. Lecture, 1 hour; 33 hours. Drs. Hill, Lewis, and Livingston.

##### Second Year

Med 612, 613, 614. **Physical Diagnosis**. 3 hours each term.

Lectures, 2 hours; demonstrations, 2 hours; 132 hours. Drs. Lewis, Gould, Griswold, Haney, Lindgren, and Philip Selling.



## Third Year

**Med 617, 618. Clinical Clerkship.** 6½ hours each term.

Students are assigned to the medical service in the Multnomah Hospital and Veterans Hospital for two terms, in sections; 99 hours each term, 198 hours. Drs. Baker, Cohen, Crommelin, Field, Forster, Gilmore, Gould, Griswold, Krygier, Labby, McCutchan, McMahon, Joseph Miller, Robert Miller, Paquet, Pierson, Scott, Philip Selling, and Welch.

**Med 620, 621. Medical Clinic.** ½ hour each term.

Multnomah Hospital. One hour for two terms, in sections; 11 hours each term, 22 hours. Drs. Forster, Haney, and Perlman.

**Med 668, 669, 670. Practice of Medicine.** 6 hours each term.

Systematic study of various medical disorders. The subject is divided into natural groups according to systems, each field being discussed separately with emphasis on anatomy, physiology, clinical manifestations, and therapy. Lectures, 6 hours: 198 hours. Drs. Lewis, Bolysten, Brill, Coffen, Cohen, Conklin, Dow, Fitzgibbon, Frisch, Goodman, Griswold, Haney, Heller, Holsti, Krygier, Labby, Long, Moore, Osgood, Rogers Edward Rosenbaum, Schwartz, Seaman, Philip Selling, Speros, Tuhy, and Underwood.

## Fourth Year

**Med 624, 625, 626. Medical Outpatient Clinic.** 2 hours each term.

Four hours throughout the fourth year; 132 hours. Drs. Allen, Alleman, Bergman, Dick, Haney, Harding, Horenstein, Kammer, Kulasavage, Larson, Lindgren, Maurice, Murphy, Nudelman, Olsen, Peterson, Prewitt, Richards, Robins, Seaman, Sheehan, and Taylor.

**Med 627. Medical Clinic.** ½ hour fall.

Tuberculosis Hospital. Diseases of the chest. One hour a week; 11 hours. Drs. Conklin, Speros, and Tuhy.

**Med 635. Tuberculosis Clinic.** 1 hour, one section each term.

Outpatient Clinic. Four hours a week for 5½ weeks, throughout the year, in sections; 22 hours. Drs. Cohen, Speros, and Tuhy.

**Med 636. Diabetes and Metabolism Division, Outpatient Clinic.** 1 hour, one section each term.

Outpatient Clinic, clinical conference. Two hours a week for one term; throughout the year, in sections; 22 hours. Drs. Holcomb, Crommelin, Grossman, Haney, Horenstein, Kammer, Labby, Lancefield, and Power.

**Med 645. Cardiovascular-Renal Disease Division, Outpatient Clinic.** 1 hour, one section each term.

Outpatient Clinic, clinical conference. Two hours a week for one term; throughout the year, in sections; 22 hours. Drs. Underwood, Berger, Coffen, Davis, Griswold, Haney, Pierson, Stenzel, and Swett.

**Med 651. Medical Jurisprudence.** ½ hour spring.

Eleven hours. Dr. Homer Harris.

**Med 658. Allergy Clinic.** 1 hour spring.

Clinic. 1 hour a week; 11 hours. Drs. Matteri and Perlman.

**Med 661. Medical Economics.** ½ hour.

Lectures on medical economics; 11 hours.

**Med 664. Tuberculosis Clerkship.** ½ hour, one section each term.

Tuberculosis Hospital. One hour a week for 5½ weeks, throughout the year, in sections; 5½ hours. Dr. Conklin.

- Med 671. Occupational Medicine and Toxicology.** 1 hour fall.  
Disorders arising from exposure to various toxic substances encountered in industry, and disorders resulting from the use of poisons. Lectures, 11 hours. Dr. David.
- Med 672, 673, 674. Conferences on Medical Therapy.** ½ hour each term.  
Conferences on therapy. One hour a week, throughout the year; 33 hours. Drs. Lewis, David, Labby, and McCawley, and staff.
- Med 678, 679. Tropical Medicine.** 1 hour each term, winter and spring.  
Diagnosis and clinical and therapeutic aspects of tropical diseases. One hour a week for 22 weeks; 22 hours. Dr. Riddle.
- Med 680. Gastroenterology Division, Outpatient Clinic.** 1 hour, one section each term.  
Outpatient Clinic, clinical conference. Two hours a week for one term; throughout the year, in sections; 22 hours. Drs. Boylston, Field, Healy, Littlehales, Long, and Riley.
- Med 681. Endroclinology Division, Outpatient Clinic.** 1 hour, one section each term.  
Outpatient Clinic, clinical conference. Two hours a week for one term; throughout the year, in sections; 22 hours. Drs. Heller, Aumann, Harvey, McGovern, Power, and Rogers.
- Med 682. Chest Diseases Division, Outpatient Clinic.** 1 hour, one section each term.  
Outpatient Clinic, clinical conference. Two hours a week for one term; throughout the year, in sections; 22 hours. Drs. Conklin, Speros, Cohen, Lowell, Maurice, and Tuhy.
- Med 683. Hematology Division, Outpatient Clinic.** 1 hour, one section each term.  
Outpatient Clinic, clinical conference. Two hours a week for one term; throughout the year, in sections; 22 hours. Drs. Osgood, Krippaehne, Leinassar, and Seaman.
- Med 684. Allergy Division, Outpatient Clinic.** 1 hour, one section each term.  
Outpatient Clinic, clinical conference. Two hours a week for one term; throughout the year, in sections; 22 hours. Drs. Frisch, Matteri, Moore, Perlman, and Reed.

#### Elective Courses

- Med 501. Research in Hematology.** Any term, hours to be arranged.  
Dr. Osgood.
- Med 505. Reading and Conference.** Any term, hours to be arranged.  
For third- and fourth-year students. Dr. Osgood.
- Med 601. Research.** Any term, hours to be arranged.
- Med 607. Seminar in Medicine.** Any term, hours to be arranged.  
Dr. Malbin.
- Med. 649. Tuberculosis-Control Clinic for Children.** ½ hour any term.  
(Fourth year.) 11 hours. Limited to 4 students. Dr. Speros.
- Med 660. Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements in the regular Outpatient Clinic course.  
(Fourth year.) Elective credit for completion of clinical work in the department in addition to that required in the regular Outpatient Clinic course.

## NEUROLOGY

## Required Courses

## Fourth Year

- Neu 614. **Neurology Division, Outpatient Clinic.** 1 hour, one section each term.  
Outpatient Clinic, clinical conference. Two hours a week for one term; throughout the year, in sections; 22 hours. Drs. Margason, Aumann, Baker, Burns, Carter, and Dow.
- Neu 615. **Clinic.**  $\frac{1}{2}$  hour, one section each term.  
Sections of the fourth-year class are assigned to the neurological service of the Multnomah Hospital. Throughout the year, in sections; 11 hours. Drs. Laurence Selling and Dow.

## PSYCHIATRY

## Required Courses

## Second Year

- Ps 611. **Lectures: Neuropathology and Psychopathology.** 1 hour winter.  
A series of lectures covering: (1) organic diseases of the central nervous system; (2) the fundamentals of psychopathology, including anxiety, mental depression, obsessions, compulsions, pathological sleep, false belief, sensory imagination, pathological sex, pathological memory, etc.; 11 hours. Drs. Dixon, Coen, Dickel, and Haugen.

## Third Year

- Ps 613, 614. **General Psychiatric Lectures.**  $\frac{1}{2}$  hour each term, winter and spring.  
Lectures. Psychopathology and symptoms of various mental reaction types and behavior disorders of children. One hour a week for two terms for entire class; 22 hours. Drs. Dixon, Campbell, Coen, Dickel, Evans, Haugen, and Kenin.

*Laboratory Neuropathology* (see Pth 515).

## Fourth Year

- Ps 615. **Psychiatry Division, Outpatient Clinic.** 1 hour, one section each term.  
Outpatient Clinic, clinical conference. Two hours a week for one term; throughout the year, in sections; 22 hours. Drs. Dixon, Burkes, Campbell, Coen, Dickel, Evans, Haugen, Hutchins, Jens, Kenin, McLean, Morrison, Smith, Sprang, and Thompson.
- Ps 619. **Psychoses.**  $\frac{1}{2}$  hour fall.  
Lectures and demonstrations of various psychoses from the viewpoint of mental mechanism, etiology, symptomology, diagnosis, and treatment; 11 hours. Drs. Dixon, Coen, Dickel, and Haugen.

## Elective Course

- Ps 618. **Demonstration Course in Prepsychotic Cases.** 1 hour any term.  
(Fourth year.) One hour a week for one term; 11 hours. Limited to 8 students. Dr. Dixon.

## DERMATOLOGY AND SYPHILOLOGY

## Required Courses

## Third Year

Der 611, 612, 613. **Dermatology and Syphilology Clinic.** ½ hour each term.

One hour each week devoted to presentation of clinical cases with detailed discussion of etiology, symptomology, and differential diagnosis. One hour a week throughout the year; 33 hours. Drs. Fitzpatrick, Dahl, Ilge, Kingery, Lerner, Ray, Saunders, and Sullivan.

## Fourth Year

Der 615. **Clinical Lecture and Conference Course.** 1½ hours, one section each term.

Utilization of outpatient material; clinical and microscopic diagnostic procedures; general therapy. Three hours a week for each section for one term; 33 hours. Drs. Fitzpatrick, Dahl, Ilge, Kingery, Labadie, Lerner, and Saunders.

## DENTAL AND ORAL MEDICINE

## Required Course

## Third Year

DM 612. **Dental Facial Growth and Oral Pathology.** 1 hour fall.

The course is designed to give the medical student an appreciation of significant growth and developmental changes in dentition; the nature and systemic relation of oral disease; and the reciprocal relation of systemic disturbance upon the oral tissues. A survey of oral disease is provided by textbook reading; the lectures give special emphasis on dental caries, oral foci of infection, periodontal disease, inflammatory conditions of the oral mucosa, and diagnostic method, including oral radiography. One hour a week for one term; 11 hours. Dr. Noyes.

## RADIOLOGY

## Required Course

## Third Year

Rad 611, 612, 613. **Radiographic Diagnosis.** ½ hour each term.

Lectures and quizzes. Consideration of the interpretation of pathology as depicted on the radiograph and the fluorescent screen; the medical, surgical and dental application of roentgenology in diagnosis; the uses, the limitations, and the dangers; 33 hours. Dr. Dotter and staff.

## Elective Course

Rad 614. **Radiographic Technique.** ½ hour any term.

(Third year.) Lectures of a practical nature; the principles of radiography, and actual demonstration of technique; 11 hours. Limited to 20 students.

**PUBLIC HEALTH AND PREVENTIVE MEDICINE**

## Required Courses

## First Year

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

Introduction to the principles of scientific method and statistical reasoning useful in the practical problems of medical research, practice, and administration. Lecture, 1 hour; laboratory, 3 hours; 44 hours. Drs. Weinzirl, Hopkins, and staff.

## Second Year

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

Clinical and epidemiologic aspects of communicable diseases. Correlated with bacteriology. Lecture and recitation, 1 hour; 11 hours. Dr. Weinzirl.

**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; laboratory or clinic, 3 hours; 55 hours. Drs. Weinzirl, Hansen, Hopkins, Meador, and Samuel Osgood.

## Third Year

**PH 511. Principles of Public Health.** 3 hours winter.

The general principles of public health activities; control of communicable diseases; organization of Federal, state, local, and other health agencies; elements of infant, school, and industrial hygiene; vital statistics. Lectures, recitations, and discussions, 3 hours; 33 hours. Dr. Weinzirl.

## Elective Courses

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

## GENERAL SURGERY

## Required Courses

## Second Year

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

Designed to give the student an appreciation of surgery, the history of its achievements and its limitations, the principles underlying surgical techniques, and the application of the basic sciences to surgical practice. Lectures, 2 hours; 22 hours. Dr. Livingston.

**Sur 612. Healing Processes.** 1 hour spring.

The reaction of soft parts and bone to injury, infection, and tumors; the principles of surgical treatment. Lecture, 1 hour; 11 hours. Dr. Wiley.

## Third Year

**Sur 613, 614. Minor Surgery.** 1 hour each term, fall and winter.

Lectures and demonstrations concerning minor surgical conditions and their treatment. Lectures, 2 hours; 22 hours. Dr. Johnsrud.

- Sur 615. **Physiotherapy.**  $\frac{1}{2}$  hour spring.  
Lectures and demonstrations; 11 hours. Dr. Jones.
- Sur 640. **Clinical Clerkship.** 3 hours.  
Students are assigned to the surgical service in the Multnomah Hospital and Veterans Hospital for one term in sections; 66 hours. Drs. Caniparoli, Clisby, Arch Diack, Fox, Higginson, Kavanaugh, Verner Lindgren, Marcum, Patton, Reiner, Ross, Shields, and Wise.
- Sur 643. **Surgical Clinic.** 3 hours.  
Multnomah Hospital and Veterans Hospital, one term in sections, in connection with clinical clerkships; 66 hours. Drs. Gardner, Howard, O. N. Jones, Raaf, Rosenblatt, Snell, Westphal, Wise, and Zeller.
- Sur 646, 647, 648. **Clerkship Clinic.**  $\frac{1}{2}$  hour each term.  
Conference course, covering surgical clerkship and assignments. One hour throughout the year; 33 hours.

## Fourth Year

- Sur 617. **Outpatient Clinic.**  $1\frac{1}{2}$  hours.  
Two hours a week for one term and two hours a week for  $5\frac{1}{2}$  weeks; 33 hours. Drs. Buckley, Campbell, Clisby, Coffey, Arch Diack, Edelson, Eisen-dorf, Harpole, Kavanaugh, Lacy, Verner Lindgren, David Mason, Munroe, Nisbet, Packard, Patton, Reiner, William Rosenbaum, Ross, Shields, Smalley, South, Steffanoff, and Wood.
- Sur 620, 621, 622. **Surgical Conference.**  $\frac{1}{2}$  hour each term.  
One hour a week throughout the year, in sections; 33 hours. Drs. Adams, Boyden, Bueermann, Chauncey, Conklin, Dodson, Gambee, Guiss, Gurney, Hardwick, Carl Hopkins, Laird, Kenneth Livingston, McKirdie, Nichols, Peterson, Rockey, Seabrook, Snell, Trommald, and Wise.
- Sur 623, 624, 625. **General Surgical Clinic.** 1 hour each term.  
Multnomah Hospital. Two hours a week throughout the year; 66 hours. Dr. Peterson.

## Elective Courses

- Sur 601. **Research.** Any term, hours to be arranged.
- Sur 627. **Proctology Lectures.**  $\frac{1}{2}$  hour spring.  
(Third year.) Prerequisite to Sur 628; 11 hours. Dr. Laird.
- Sur 628. **Proctology.**  $\frac{1}{2}$  hour, one section each term.  
(Fourth year.) A clinic of diseases of rectum and colon. Prerequisite: Sur 627. 11 hours. Limited to four students.
- Sur 630. **Surgical Lesions of the Gastro-Intestinal Tract.**  $\frac{1}{2}$  hour spring.  
(Third year.) Lecture and demonstration course on diagnosis, pathology, and treatment; 11 hours.
- Sur 631. **Surgery of the Visceral Nervous System.**  $\frac{1}{2}$  hour winter.  
(Fourth year.) Lectures and demonstration; 11 hours.
- Sur 633. **Pain: Its Relation to Diagnosis.**  $\frac{1}{2}$  hour winter.  
(Fourth year.) 11 hours.
- Sur 635. **Differential and Regional Neurosurgical Diagnosis and Therapeutics.**  $\frac{1}{2}$  hour winter or spring.  
(Fourth year.) Lectures and demonstrations: 11 hours. Dr. Raaf.
- Sur 636. **Acute Abdominal Lesions.**  $\frac{1}{2}$  hour spring.  
(Fourth year.) Lectures, 11 hours. Dr. Gambee.

Sur 660. **Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements in the regular Outpatient Clinic course.

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

## ORTHOPEDIC SURGERY

## Required Courses

## Third Year

Orp 611. **Orthopedic Surgery.** 1 hour fall.  
Lectures, 2 hours a week; 22 hours. Dr. Snell.

Orp 612, 613. **Surgery of the Extremities.** 1 hour each term, winter and spring.  
Systematic lectures and demonstrations dealing chiefly with fractures and other traumatic disorders of the extremities. The upper extremity is covered in one term, the lower in the other term. Lectures and clinics, 2 hours; 44 hours. Drs. Carlson and Chuinard.

## Fourth Year

Orp 616. **Orthopedic Outpatient Clinic.** 1½ hours each term.  
One hour three times a week for 11 weeks; throughout the year, in sections; 33 hours. Drs. Lucas, Abele, Begg, Berg, Cherry, Chuinard, Cohen, Harold Davis, Joe Davis, Gantenbein, Gill, Hafner, Hiestand, Hopkins, Jones, Kimberley, James Mason, Noall, Robinson, Short, Smith, and Snell.

## Elective Course

Orp 615. **Orthopedic Ward Walk.** 1 hour any term.  
(Fourth year.) Shriners' Hospital for Crippled Children. General ward rounds in the hospital, with discussion of the cases and methods of orthopedic treatment in deformities of children; 2 hours; 22 hours. Drs. Lucas and Noall.

## UROLOGY

## Required Courses

## Third Year

Ur 611. **Diseases Affecting the Genito-Urinary Tract.** ½ hour spring.  
Lectures, 1 hour; 11 hours. Dr. Hodges.

## Fourth Year

Ur 612, 613. **Urological Clinic.** ½ hour each term, fall and winter.  
Lectures and clinics; 1 hour, 22 hours. Drs. Hodges, McDougall, and Montgomery.

Ur 614. **Outpatient Clinic.** 1½ hours, one section each term.  
Six hours a week for 5½ weeks throughout the year, in sections; 33 hours. Drs. Hodges, Barr, Catlow, T. Davis, Deur, Gardner, Hott, Larsell, McDougall, and Nielsen.

## ANESTHESIOLOGY

## Required Courses

## Third Year

Sur 661, 662. **Lectures on Anesthesia.** ½ hour each term, winter and spring.

Lectures on anesthesia, with demonstration and description of equipment employed; discussion of history, physiology, signs, and methods of anesthesia; the various agents. Lecture, 1 hour; 22 hours. Dr. Haugen.

## Fourth Year

Sur 663. **Clerkship in Anesthesia.** ½ hour, one section each term.

Observation of anesthetic procedures in the operating room, and directed supervision in assisting the administration of the various types of anesthesia. Four hours a day for 4 days; 16 hours. Dr. Haugen.

## Elective Course

Sur 607. **Anesthesia Seminar.** ½ hour spring.

(Third year.) Discussion of special methods, such as regional anesthesia and diagnostic blocks; actual case histories from the standpoint of anesthetic procedures; experimental reports and reading assignments. Limited to 12 students. One hour a week for one term; 11 hours. Dr. Haugen.

## OPHTHALMOLOGY

## Required Courses

## Third Year

Eye 611. **Eye.** ½ hour spring.

Lectures and quizzes, 1 hour; 11 hours. Dr. Swan.

## Fourth Year

Eye 612. **Eye Outpatient Clinic.** 1½ hours, one section each term.

Six hours a week for 5½ weeks; throughout the year, in sections; 33 hours. Drs. Swan, Browning, Butler, Christensen, Harris, Hill, Kreft, Moreland, Singer, Talbot, and Robert Zeller.

Eye 613. **Eye.** ½ hour fall.

Lectures, demonstration, and quizzes at each lecture and operative clinic; 11 hours. Dr. Swan.

## Elective Courses

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

Dr. Swan.

Eye 615. **Advanced Ophthalmology.** Any term, hours to be arranged.

(Fourth year.) Injuries and diseases. Limited to 4 students. Dr. Swan.

Eye 660. **Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements of the regular Outpatient Clinic course.

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



**OTOLOGY, RHINOLOGY, AND LARYNGOLOGY**

## Required Courses

## Third Year

- Ent 611. **Ear, Nose, and Throat.** ½ hour fall.  
Lectures, recitations, and quizzes, 11 hours. Drs. Bailey, DeWeese, and Jones.

## Fourth Year

- Ent 612. **Ear, Nose, and Throat Outpatient Clinic.** 1½ hours, one section each term.  
Practical instruction in examination and treatment of cases. Six hours a week for 5½ weeks; throughout the year, in sections; 33 hours. Drs. Adix, Beatie, Bolton, Brodhead, Chamberlain, DeWeese, Hansen, Kuhn, Myers, Saunders, and Westfall.
- Ent 613. **Ear, Nose, and Throat.** ½ hour winter.  
Lectures, demonstrations, and quizzes at each lecture and operative clinic; 11 hours. Drs. Bailey, DeWeese, and Jones.

## Elective Courses

- Ent 614. **Advanced Otology.** ½ hour spring.  
(Fourth year.) 11 hours. Limited to 6 students. Dr. Titus.
- Ent 615. **Advanced Rhinology.** ½ hour fall.  
(Fourth year.) One hour a week; 11 hours. Limited to 4 students.
- Ent 660. **Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements in the regular Outpatient Clinic course.  
(Fourth year.) Elective credit for completion of clinical work in the department in addition to that required in the regular Outpatient Clinic course.

**OBSTETRICS AND GYNECOLOGY**

## OBSTETRICS

## Required Courses

## Third Year

- Obs 611. **Introductory Obstetrics.** 1 hour fall.  
Lectures, recitations, and demonstrations in obstetrics. The anatomy and physiology of the female pelvis and genitals; diagnosis of pregnancy; the management of normal pregnancy; physiology of and clinical course in normal labor and puerperium. One hour, twice a week; 22 hours. Drs. Fearl, Kulasavage, and Ronald Neilson.
- Obs 612. **Lecture and Demonstration Course in Obstetrics.** 1 hour winter.  
Mechanism of normal and abnormal presentation; manikin demonstration; care of the newborn child. Obstetrical technique; forceps, version, pubiotomy, cesarean section, and embryotomy. One hour, twice a week; 22 hours. Drs. Fearl, Kulasavage, Ronald Neilson, and Schauffer.
- Obs 613. **Pathology of Pregnancy, Labor, and the Puerperium.** 1 hour spring.  
Lecture and demonstration. One hour, twice a week; 22 hours. Drs. Fearl, Kulasavage, Duncan Neilson, and Ronald Neilson.
- Obs 614. **Attendance at Deliveries.** ½ hour any term.  
Each student required to be in attendance at and observe twelve deliveries in Multnomah Hospital. Prerequisite: Obs 611. 11 hours. Dr. Stearns.

Obs 615. **Manikin.** 1 hour, one section each term.

Lectures and demonstration. Two hours a week for one term throughout the year, in sections, 22 hours. Drs. Duncan Neilson and Ronald Neilson.

*Obstetrical Pathology* (see Pth 514).

#### Fourth Year

Obs 616. **Clinical Obstetrics.** 1 hour, one section each term.

Outpatient Clinic. Examination of pregnant women, pelvimetry, and instructions in prenatal and postpartem care. Two hours twice a week, 5½ weeks; throughout the year, in sections; 22 hours. Drs. Greene, Kinzel, Kulasavage, Lage, Schwan, Thomas, and Young.

Obs. 617. **Outpatient Service.** 1½ hours any term.

Delivery of patients in the home and hospital, and attendance upon mother and child after delivery. Each student required to participate in six deliveries during an assigned period; prerequisite: Obs 614, 33 hours. Dr. Stearns.

Obs 618. **Postnatal Clinic.** ½ hour, one section each term.

Outpatient Clinic. Two hours a week for 5½ weeks; 11 hours. Drs. Breese, Greene, Kinzel, Kulasavage, Ronald Neilson, Schwan, and Thomas.

Obs 619, 620, 621. **General Clinic.** ½ hour each term.

Multnomah Hospital. One hour each week throughout the year; 33 hours. Drs. Breese and Nelson.

Obs 622. **Clerkships.** ½ hour, one section each term.

Multnomah Hospital. Two hours a week for 5½ weeks; 11 hours. Drs. Ronald Neilson and Young.

#### Elective Courses

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

Obs 660. **Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements in the regular Outpatient Clinic.

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

### GYNECOLOGY

#### Required Courses

##### Third Year

Gyn 611. **Gynecology.** 1 hour winter.

Lectures, demonstrations, and recitations, 2 hours; 22 hours. Dr. Stearns.

Gyn 612. **Gynecology.** 1 hour spring.

Lectures and recitations, 2 hours; 22 hours. Dr. Stearns.

Gyn 613. **Clinical Clerkships.** 1½ hours, one section each term.

Multnomah Hospital. In sections; 33 hours. Drs. Breese and Duncan Neilson.

*Gynecological Pathology* (see Pth 514).

##### Fourth Year

Gyn 614. **Practical Gynecology.** 1 hour, one section each term.

Outpatient Clinic. Four hours a week, 5½ weeks; throughout the year, in sections; 22 hours. Drs. Breese, Fearl, James, McCall, Duncan Neilson, Ronald Neilson, and Young.

- Gyn 615. **Operative Clinic.**  $\frac{1}{2}$  hour, one section each term.  
Multnomah Hospital. One two-hour ward walk each week for  $5\frac{1}{2}$  weeks, throughout the year, in sections; 11 hours. Dr. Stearns.

#### Elective Courses

- Gyn 601. **Research.** Any term, hours to be arranged.
- Gyn 618. **Gynecological Tumor Clinic.** 1 hour any term.  
(Fourth year.) Outpatient Clinic. Attendance at Outpatient Clinic one two-hour period each week; 22 hours. Limited to 8 students. Drs. Breese, Pearl, Lage, Duncan Neilson, Ronald Neilson, Thomas, and Whitely.
- Gyn 660. **Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements in the regular Outpatient Clinic course.  
(Fourth year.) Elective credit for completion of clinical work in the department in addition to that required in the regular Outpatient Clinic course.

### PEDIATRICS

#### Required Courses

##### Third Year

- Ped 611, 612, 613. **Anatomy, Physiology, Hygiene of Infancy and Childhood.**  $\frac{1}{2}$  hour each term.  
Lectures, clinics, and bedside instruction on diseases of the newly born and diseases of nutrition. Practical work in infant feeding. Lectures, 22 hours; clinic, 11 hours; 33 hours. Drs. Hill, Ashley, Babson, Bilderback, Bradley, Cochran, Griswold, Hansen, Lembert, May, Noyes, Smith, and Wert.
- Ped 614, 615, 616. **Diseases of Infancy and Childhood.**  $\frac{1}{2}$  hour each term.  
A comprehensive study of diseases of children. Recitations, lectures, and clinical demonstrations. One amphitheater clinic each week throughout the entire school year, with cases selected from the wards of the Doernbecher Hospital; 33 hours. Drs. Hill, Bilderback, Bridgeman, Bradley, Goodnight, Goss, Griswold, Hart, Hodges, Larrabee, McKirdie, Peterson, Rector, Rosenblatt, Wert, and Whittemore.
- Ped 617. **Clerkships.** 2 hours, one section each term.  
Doernbecher Hospital. Throughout the year, in sections; 44 hours. Drs. Hill and Aldrich.
- Ped 618. **Physical Diagnosis in Children.**  $\frac{1}{2}$  hour, one section each term.  
Lectures, clinics, and demonstrations at the Doernbecher Hospital. One hour a week, throughout the year, in sections; 11 hours. Drs. Bridgeman and Smith.
- Psychopathology and Symptoms of Various Mental Reaction Types and Behavior Disorders of Children* (see Ps 613, 614).

##### Fourth Year

- Ped 619. **Outpatient Clinic.**  $1\frac{1}{2}$  hours, one section each term.  
Five and one-half weeks; 6 hours a week, throughout the year, in sections; 33 hours. Drs. Hill, Bradley, Cochran, Dana, Larrabee, May, Rector, Smith, Walliker, Wert, and Whittemore.
- Ped 622, 623, 624. **Diseases of Infancy and Childhood.**  $\frac{1}{2}$  hour each term.  
A comprehensive study of diseases of children. Recitations, lectures, and clinical demonstrations. One amphitheater clinic each week throughout the entire school year on cases selected from the wards of the Doernbecher Hospital; 33 hours. Drs. Hill, Bilderback, Bridgeman, and Rector.

## Elective Courses

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

Ped 620. **Infant Feeding Clinic.** ½ hour, one section each term.

Outpatient Clinic; 11 hours. Limited to 10 students. Drs. Hill and Cochran.

Ped 660. **Outpatient Clinic.** Any term, hours to be arranged in accordance with the requirements in the regular Outpatient Clinic course.

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

*Demonstration Course in Prepsychotic Cases* (see Ps 618).

# Medical Technology

RAYMOND D. GRONDAHL, M.D., Head of Division of Clinical Pathology; Director of Medical Technology Program.

MARLOWE DITTEBRANDT, M.D., Assistant Clinical Professor.

JOHN A. NEWMAN, M.D., Assistant Professor.

NICHOLAS P. SULLIVAN, M.D., Assistant Clinical Professor.

MARY ELIZABETH BAPTIST, B.A., M.T., Instructor.

KENNETH B. DAVISON, M.S., Instructor.

TYRA T. HUTCHENS, M.D., Research Associate.

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

The minimum admission requirements are: two years of college work, including 18 term hours in biology, of which 6 term hours must be in zoology; 12 term hours in inorganic chemistry; 6 term hours in either quantitative analysis, organic chemistry, or biochemistry. The applicant's credentials must be approved by the Registry prior to admission. At the present time, approximately 20 students are enrolled annually. Preference is given students who have three years of college work.

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.

Application blanks for admission may be obtained from the Registrar of the University of Oregon Medical School.

**Fees.** Students in the medical-technology program pay the following fees:

	Per term	Per year
Tuition.....	\$20.00	\$ 60.00
Laboratory and course fee.....	16.00	48.00
Building fee.....	5.00	15.00
Incidental fee (student health service).....	6.00	18.00
<b>Total for Oregon residents.....</b>	<b>\$47.00</b>	<b>\$141.00</b>
<b>Total for nonresidents, who pay an additional \$30.00 per term.....</b>	<b>\$77.00</b>	<b>\$231.00</b>

Textbooks and uniforms are supplied by the student. No dormitories are available on the Medical School campus.

## Curriculum in Medical Technology

Fall Term		Term hours
MT 411. Bacteriology .....		4
MT 412. Organic and Biochemistry .....		5
MT 413. Laboratory Orientation .....		2
MT 430. Principles of Hematology .....		5
		—
		16
Winter Term		
MT 431. Special Hematology .....		3
MT 414. Urinalysis .....		4
MT 420. Histological Technique .....		4
MT 435. Applied Bacteriology .....		6
		—
		17
Spring Term		
MT 425. Clinical Chemistry .....		6
MT 436. Applied Serology .....		5
MT 437. Clinical Parasitology .....		3
		—
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## Description of Courses

### MT 411. Bacteriology. 4 hours fall.

A study of the general characteristics of bacteria and other organisms that cause disease, their behavior as disease agents, and the factors involved in resistance to infection. Application of these studies to the diagnosis, prevention, and treatment of the infectious diseases. Lectures, 4 hours; 44 hours. Dr. Grondahl and staff.

### MT 412. Organic and Biochemistry. 5 hours fall.

Designed to provide the essential knowledge of organic and biochemistry required as a background for an adequate understanding and appreciation of professional subjects. Various important classes of organic compounds, with particular emphasis upon substances of medical importance. Biochemistry of digestion and absorption, blood and metabolism. Lectures, 3 hours; laboratory, 6 hours; 99 hours. Dr. Grondahl and staff.

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

A study of the collection, preservation, and care of the various types of clinical specimens. Lecture, 1 hour; laboratory, 3 hours; 44 hours. Dr. Grondahl and staff.

### MT 414. Urinalysis. 4 hours winter.

A study of the mechanism of formation and identification of the normal and abnormal components of urine. Lectures, 2 hours; laboratory, 6 hours; 88 hours. Miss Baptist.

### MT 420. Histological Technique. 4 hours winter.

Principles of tissue fixation, dehydration and staining, with special emphasis upon methods used in tissue and laboratories. Lectures, 2 hours; laboratory, 6 hours; 88 hours. Dr. Grondahl and staff.

### MT 425. Clinical Chemistry. 6 hours spring.

The principles and applications of colorimetry, gasometric analysis, and quantitative chemistry applied to the determination of the substances in blood and

body fluids. Lectures, 3 hours; laboratory, 9 hours; 132 hours. Drs. Grondahl and Dittebrandt.

**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; laboratory, 6 hours; 99 hours. Dr. Dittebrandt.

**MT 431. Special Hematology.** 3 hours winter.

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

**MT 435. Applied Bacteriology.** 6 hours winter.

The bacteria pathogenic for man. Study of the culture, the morphological characteristics, and means of isolation and identification of these organisms. Lectures, 3 hours; laboratory, 9 hours; 132 hours. Dr. Sullivan.

**MT 436. Applied Serology.** 5 hours spring.

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

**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; laboratory, 3 hours; 55 hours. Dr. Sullivan.

## Department of Nursing Education

HENRIETTA DOLTZ, M.N., R.N., Director of Department of Nursing Education.

**T**HE Department of Nursing Education at the University of Oregon Medical School is organized on a collegiate basis; the department offers (1) an undergraduate curriculum designed to prepare young women for service as professional nurses in the care of the sick and in the promotion of community health; and (2) advanced programs of study for graduate nurses in the special fields of public health nursing, supervision, teaching, and medical and surgical staff nursing.

The student in the undergraduate four-year degree curriculum takes the first five terms of her work at the University of Oregon, at Oregon State College, or at another accredited college or university. The prenursing curriculum is completed with one term of work on the campus of the Medical School, and is followed by a ten-term professional curriculum coordinated with clinical instruction in the hospitals and clinics of the Medical School. The teaching units in which clinical experience is received are the Multnomah Hospital, the Doernbecher Memorial Hospital for Children, the University State Tuberculosis Hospital, and the Outpatient Clinic.

The programs for graduate nurses are planned to provide: (1) opportunities for building a strong educational foundation through work in written and spoken English, history, socio-economic problems, literature and the fine arts, and biological and physical science; (2) a thorough preparation in one or more of the following broad nursing fields: (a) public health nursing, (b) supervision, (c) teaching, and (d) medical and surgical staff nursing. The programs are open both to nurses who desire to complete work towards a Bachelor of Science degree with a major in nursing and to nurses who wish preparation in a particular area of professional nursing.

A separate Catalog containing detailed information on organization, faculty, facilities, requirements, and curricula of the Department of Nursing Education may be obtained on request.



# Degrees Conferred, June 13, 1952

## DOCTOR OF MEDICINE

### GRADUATE

### INTERNSHIP

Hjalmar Anderson, Jr.....	Sacred Heart General Hospital, Eugene
Hugh Vaux Anderson.....	Ancker Hospital, St. Paul, Minn.
Daniel Morton Bachman.....	George Washington University Hospital, Washington, D.C.
Charles William Beam.....	Santa Barbara Cottage Hospital, Santa Barbara, Cal.
Thomas T. Bennett.....	Providence Hospital, Portland
Norma Solveig Berg.....	Iowa Methodist Hospital, Des Moines, Iowa
Wilbur Howard Bittick.....	Letterman Army Hospital, San Francisco, Cal.
Glenn Howard Brokaw.....	Tacoma General Hospital, Tacoma, Wash.
Stanley Allen Brown, Jr.....	St. Vincent's Hospital, Portland
Joseph Thorn Burdic.....	St. Vincent's Hospital, Portland
Paul Renere Burgner.....	University of Oregon Medical School Hospitals and Clinics, Portland
Gilbert Waldo Byers.....	General Hospital of Fresno County, Fresno, Cal.
Mario Joseph Campagna.....	Philadelphia General Hospital, Philadelphia, Penn.
Irvin Murnane Cederlind.....	Good Samaritan Hospital, Portland
Harry Dean DeMaris.....	University of Oregon Medical School Hospitals and Clinics, Portland
Arthur Gilman Denker.....	Ancker Hospital, St. Paul, Minn.
Abram Antone Dyck.....	Good Samaritan Hospital, Portland
Ronald Alexander Findlay.....	Sacred Heart General Hospital, Eugene
John Richard Flanery.....	St. Vincent's Hospital, Portland
Thomas Vernon Foster.....	Good Samaritan Hospital, Portland
Edward Clement Gallagher.....	U. S. Marine Hospital, Seattle, Wash.
Hugh Edward Gallagher.....	Sacramento County Hospital, Sacramento, Cal.
Allan Earl Gilbert.....	Colorado General Hospital, Denver, Col.
Robert Bronson Greene, Jr.....	State of Wisconsin General Hospital, Madison, Wis.
Amos Milton Gregson.....	Good Samaritan Hospital, Portland
James Gilbert Hatheway.....	Providence Hospital, Portland
James Edward Hughell.....	General Hospital of Fresno County, Fresno, Cal.
Gregory George John.....	San Francisco Hospital, San Francisco, Cal.
Neville Clegg Jones.....	The Swedish Hospital, Seattle, Wash.
Katherine Karnopp.....	Minneapolis General Hospital, Minneapolis, Minn.
Allan William Kendall, Jr.....	State of Wisconsin General Hospital, Madison, Wis.
Alan Sherman Markee.....	San Bernardino County Charity Hospital, San Bernardino, Cal.
Donald Wiley McDaniel.....	St. Vincent's Hospital, Portland
Joseph Carl Mitchell.....	Madigan Army Hospital, Tacoma, Wash.
Robert Raymond Mooers.....	University of Oregon Medical School Hospitals and Clinics, Portland
Madison Dabney Moores.....	Collis P. and Howard Huntington Memorial Hospital, Pasadena, Cal.
Clayton Calkins Morgan.....	Madigan Army Hospital, Tacoma, Wash.
Thomas Edward Morris, Jr.....	University of Oregon Medical School Hospitals and Clinics, Portland
Glenn Edward Mortimore.....	Grady Memorial Hospital, Atlanta, Ga.
Carl Edmund Mudge, Jr.....	The Doctors Hospital, Seattle, Wash.
Bunzo Nakagawa.....	The Queens Hospital, Honolulu, T.H.
Thomas Kent Olwin.....	Milwaukee County Hospital, Milwaukee, Wis.
Charles Alvin Paulsen.....	City of Detroit Receiving Hospital, Detroit, Mich.
Coyt Reed Payseur.....	Milwaukee County Hospital, Milwaukee, Wis.
Elmo William Peterson.....	St. Vincent's Hospital, Portland
Amos Eugene Pflug.....	Denver General Hospital, Denver, Col.
Frank John Purtzer.....	Sacred Heart General Hospital, Eugene
Quentin Loring Quickstad.....	St. Vincent's Hospital, Portland

Ugo William Raglione.....	St. Vincent's Hospital, Portland
Donald Wesley Rennie.....	No internship
Henry Secord Richanbach.....	Alameda County Hospitals, Oakland, Cal.
Norman Lester Rubens.....	Southern Pacific General Hospital, San Francisco, Cal.
Monna May Sheller.....	Fitzsimmons Army Hospital, Denver, Col.
William David Sherman.....	Sacramento County Hospital, Sacramento, Cal.
Louis John Smith.....	Queen of Angels Hospital, Los Angeles, Cal.
Alton Richard Stier.....	Indianapolis General Hospital, Indianapolis, Ind.
John William Swartley.....	General Hospital of Fresno County, Fresno, Cal.
Denison Mauran Thomas.....	University of Oregon Medical School Hospitals and Clinics, Portland
Harold Tivey.....	University of Oregon Medical School Hospitals and Clinics, Portland
Harry Leland VanDermark.....	William Beaumont Army Hospital, El Paso, Tex.
Oliver Henry Vreeland.....	Minneapolis General Hospital, Minneapolis, Minn.
John Thomas Weisel.....	Minneapolis General Hospital, Minneapolis, Minn.
George Allen Weston.....	Santa Barbara Cottage Hospital, Santa Barbara, Cal.
Robert Charles Wever.....	William Beaumont Army Hospital, El Paso, Tex.
Clifton Clark Wilcox.....	Emanuel Hospital, Portland
David Wilson Williams.....	University Hospital, Ann Arbor, Mich.
James Alexander Wilson.....	Evanston Hospital Association, Evanston, Ill.
Gilford Yuen Wong.....	Alameda County Hospitals, Oakland, Cal.
John Bernard Zevely.....	University of Oregon Medical School Hospitals and Clinics, Portland

### MASTER OF SCIENCE

Daniel Morton Bachman	Donald Wesley Rennie
Chi-Yen Chu	Alton Richard Stier
Phillip Edwin Leveque	George Allen Weston
Thomas Tomio Nitta	

## Summary of Enrollment, 1951-52

	Men	Women	Total
First year.....	79	4	83
Second year.....	63	3	66
Third year.....	72	2	74
Fourth year.....	68	3	71
Total, regular students.....	282	12	294
Graduate students.....	14	6	20
Special students and auditors.....	7	..	7
Medical technicians.....	9	14	23
Total.....	312	32	344

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