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PORTLAND, OREGON

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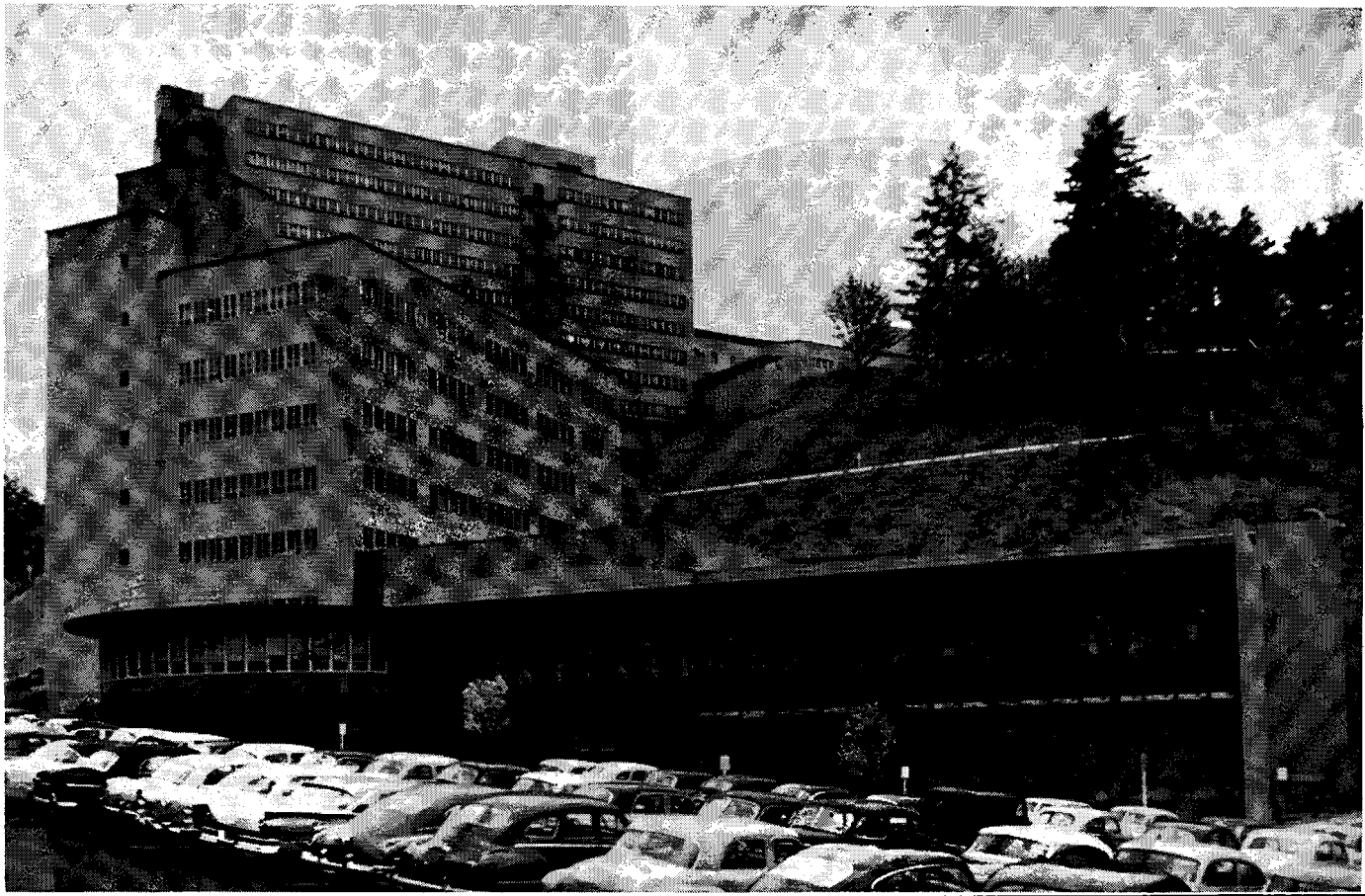

UNIVERSITY OF OREGON DENTAL SCHOOL

1958-59 CATALOG

PORTLAND, OREGON

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Oregon State System of Higher Education

The Oregon State System of Higher Education, as organized in 1932 by the Oregon State Board of Higher Education following a survey of higher education in Oregon by the United States Office of Education, includes all the state-supported institutions of higher education. The several institutions are elements in an articulated system, parts of an integrated whole. The educational program is organized 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 Oregon State System of Higher Education are: the University of Oregon at Eugene, Oregon State College at Corvallis, Portland State College at Portland, Oregon College of Education at Monmouth, Southern Oregon College at Ashland, and Eastern Oregon College at La Grande. The University of Oregon Medical School and the University of Oregon Dental School are located in Portland. The General Extension Division, representing all the institutions, has headquarters in Portland and offices in Eugene, Corvallis, Ashland, Monmouth, and La Grande.

Each of the institutions provides the general studies fundamental to a well-rounded education. At Oregon College of Education, Southern Oregon College, Eastern Oregon College, and Portland State College, students may complete major work in teacher education or in general studies or may enroll in preprofessional programs.

At the University of Oregon and Oregon 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 institution in the unified Oregon State System of Higher Education.

An interinstitutional booklet, *Your Education,* which outlines the curricula of the several institutions and contains other information concerning the State System, is available. For a copy, write to Division of Information, Oregon State Board of Higher Education, P.O. Box 5175, Eugene, Oregon.

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	Term Expires
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CHARLES D. BYRNE, Ed.D..... 1950-1955

Dental School Calendar, 1958-59

Fall Term

September 25, 1958 through December 20, 1958

Registration.....September 25-26
Classes begin.....September 29
Thanksgiving, holidays.....November 27-29
Classes end.....December 13
Final examinations.....December 15 through 20
Term ends.....December 20

Winter Term

January 5, 1959 through March 21, 1959

Classes begin.....January 5
Classes end.....March 14
Final examinations.....March 16 through 21
Term ends.....March 21

Spring Term

March 30, 1959 through June 13, 1959

Classes begin.....March 30
Memorial Day, holiday.....May 30
Classes end.....June 6
Final examinations.....June 8 through 13
Commencement.....June 11
Term ends.....June 13

Summer Session, 1959

Six weeks.....Monday, August 3, through Friday, September 11

Fall Term, 1959-60

Registration.....September 24-25

Faculty*

JOHN R. RICHARDS, Ph.D., Chancellor, Oregon State System of Higher Education.
O. MEREDITH WILSON, Ph.D., President, University of Oregon.
HAROLD J. NOYES, D.D.S., M.D., Dean of the Dental School.
ERWIN T. BENDER, D.D.S., Superintendent of Dental Clinics.
GEORGE E. BATTERSON, M.A., Educational Adviser.
THOMAS H. CAHALAN, M.S. in L.S., Librarian.
ERNEST A. HURLEY, D.M.D., Assistant to the Dean and Registrar.
JOSEPH J. ADAMS, B.B.A., Director of Public Affairs.
WILLIAM A. ZIMMERMAN, B.S., Business Manager.
FRED A. MATTHIAS, B.B.A., Assistant Business Manager.
JOSEPH B. TRAINER, M.D., Health Service Physician.
VINSON M. WEBER, M.A., D.D.S., Head of Postgraduate Education.
MARSHALL L. SNYDER, M.S., Ph.D., Chairman of Dental School Graduate Program Committee.
A. J. CLEMONS, Superintendent of Physical Plant.

M. MONTE BETTMAN, D.M.D., Clinical Associate Emeritus in Periodontology.
HERBERT C. COOPER, D.M.D., Professor Emeritus of Operative Dentistry.
HENRY C. FIXOTT, SR., D.M.D., Professor Emeritus of Radiodontics.

Professors

DECLAN J. ANDERSON, B.D.S., L.D.S., M.Sc., Ph.D., Professor of Dentistry; Head of Department of Physiology.

KENNETH R. CANTWELL, B.S., D.M.D., Professor of Dentistry; Head of Department of Operative Dentistry.

FRANK G. EVERETT, M.S., D.M.D., M.D., Professor of Dentistry; Head of Department of Periodontology.

HENRY C. FIXOTT, JR., D.M.D., Professor of Dentistry; Head of Department of Oral Roentgenology.

DEMETRIOS M. HADJIMARKOS, D.D.S., M.S.D., M.P.H., Professor of Dentistry; Head of Department of Public Health.

ELLIS B. JUMP, D.M.D., Ph.D., Professor of Anatomy; Head of Department of Anatomy.

HORACE M. MILLER, A.B., D.M.D., Professor of Dentistry; Head of Extraction Clinic.

JEFF MINCKLER, M.D., Ph.D., M.A., Professor of Pathology; Acting Head of Department of General Pathology.

HAROLD J. NOYES, Ph.B., M.D., D.D.S., B.S., Professor of Dentistry; Dean of the Dental School.

NILKANTH M. PHATAK, M.S., A.B., Ph.D., Professor of Pharmacology; Head of Department of Pharmacology.

MARSHALL L. SNYDER, M.S., Ph.D., Professor of Bacteriology; Head of Department of Bacteriology.

MERRILL G. SWENSON, D.D.S., Professor of Dentistry; Head of Department of Prosthetics.

WYMAN H. WILSON, D.D.S., Professor of Dentistry; Head of Department of Crown and Bridge.

* The following list represents the Dental School faculty for the academic year 1957-58.

Associate Professors

ERWIN T. BENDER, D.D.S., Associate Professor of Dentistry; Superintendent of Dental Clinics.

CECIL K. CLAYCOMB, M.S., Ph.D., Associate Professor of Biochemistry; Head of Department of Biochemistry.

ARTHUR E. FRY, D.D.S., Associate Professor of Dentistry; Head of Department of Oral Diagnosis.

EVELYN R. HANNON, B.S., R.N., R.D.H., Associate Professor of Dental Hygiene; Head of Department of Dental Hygiene.

ERNEST A. HURLEY, D.M.D., Associate Professor of Dentistry; Assistant to the Dean and Registrar.

RULON H. JOHNSON, D.M.D., Associate Professor of Dentistry.

ROBERT L. LANG, D.D.S., Associate Professor of Dentistry.

DONALD R. PORTER, D.D.S., M.S., Associate Professor of Dentistry; Head of Department of Pedodontics.

NORMAN H. RICKLES, D.D.S., M.S., Associate Professor of Dentistry; Head of Department of Oral Pathology; Director of Oral Tumor Registry.

BHIM S. SAVARA, D.M.D., L.D.S., M.S., Associate Professor of Dentistry; Head of Child Study Clinic.

LOUIS G. TERKLA, D.M.D., Associate Professor of Dentistry.

JOSEPH B. TRAINER, M.D., Associate Professor of Physiology and Medicine; Health Service Physician.

VINSON M. WEBER, A.B., M.A., D.D.S., Associate Professor of Dentistry; Head of Department of Postgraduate Education.

WILLIAM A. ZIMMERMAN, B.S., Associate Professor; Business Manager.

Clinical Associates

JOHN P. ANDERSON, B.S., D.M.D., Clinical Associate in Dentistry.

ROLAND M. ANDERSON, D.M.D., M.S.D., Clinical Associate in Dentistry.

JOHN BARTELS, D.M.D., Clinical Associate in Dentistry.

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RAY J. DAVIS, D.M.D., Clinical Associate in Dentistry.

DONALD GERMAIN, Clinical Associate in Pharmacology.

ROBERT GRAY, B.A., D.M.D., Clinical Associate in Dentistry.

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WILLIAM W. HOWARD, B.S., D.M.D., Clinical Associate in Dentistry.

MILTON JOHNSON, D.M.D., Clinical Associate in Dentistry.

PAUL E. KLEIN, D.D.S., M.S.D., Clinical Associate in Dentistry.

HERBERT A. KRUMBEIN, D.M.D., Clinical Associate in Dentistry.

JAMES LIUM, M.D., Clinical Associate in General Pathology.

ERNEST LOSLI, M.D., Clinical Associate in Medicine.

MATTHEW A. MATTHEWS, D.D.S., M.S.D., Clinical Associate in Dentistry.

JOSEPH N. MORRIS, D.M.D., Clinical Associate in Dentistry.

ARNOL R. NEELY, D.M.D., Clinical Associate in Dentistry.

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A. LYNN RYAN, D.M.D., Clinical Associate in Dentistry.

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THEODORE SUHER, D.M.D., M.S., Clinical Associate in Dentistry.

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Assistant Professors

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DON H. CARLSON, B.A., M.A., D.D.S., M.S.D., Assistant Professor of Dentistry; Head of Department of Orthodontics.
A. J. CLEMONS, Assistant Professor; Superintendent of Physical Plant.
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KENARD ADAMS, B.A., D.M.D., Instructor in Dentistry.
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ROBERT H. ANDERSON, B.A., D.M.D., Instructor in Dentistry.
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ORVAL T. BOYLE, B.S., D.M.D., Instructor in Dentistry.
DIANA C. BRUNNER, B.S., Instructor in Dental Science.
LORETTA F. CASE, B.S., R.N.A., Instructor in Dental Science.
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RACHEL ESPEY, D.H., Instructor in Dental Hygiene.
PHILLIP FORD, Ph.D., Instructor in English Composition (Dental Hygiene).
ROBERT GOODMAN, Ph.D., Instructor in Psychology (Dental Hygiene).
DORIS A. GOOD, B.S., Instructor in Dental Science.
ELIZABETH HENLEY, Instructor in English Composition (Dental Hygiene).
CLARE HOLLY, Instructor in Dental Science.
ROBERT L. JENSEN, B.S., D.M.D., Instructor in Dentistry.
DUANE R. PAULSON, D.D.S., B.S., Instructor in Dentistry.
†DEVERN W. PINNOCK, D.M.D., Instructor in Dentistry.
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ROBERT E. QUINN, D.M.D., Instructor in Dentistry.
RUTH RENFROE, Instructor in Sociology (Dental Hygiene).
MARGARET RYAN, B.S., D.H., Instructor in Dental Hygiene.
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* On sabbatical leave 1957-58.
† On military leave 1957-58.

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JOHN WAGONER, D.M.D., Instructor in Dentistry.
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Lecturers

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HERMAN DICKEL, M.D., Lecturer in Psychology.
GEORGE H. FRASER, Lecturer in Dental Ethics and Jurisprudence.
HARRY J. SEARS, Ph.D., Lecturer in Bacteriology.
CLARENCE R. WICKS, Lecturer in Dental Ethics and Jurisprudence.

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WILLIAM L. PARKER, Ph.D., Consultant in Child Study Clinic.

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MAURICE R. ZINGESER, B.A., M.S., D.D.S., Research Associate in Child Study.

Research Assistants

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JON V. STRAUMFJORD, JR., M.D., Ph.D., Research Assistant in General Pathology.

Clinics

ROBERT H. ANDERSON, D.M.D., In Charge of Cleft Palate Clinic.
ERWIN T. BENDER, D.D.S., Superintendent of Clinics; In Charge of General Clinics.
KENNETH R. CANTWELL, B.S., D.M.D., In Charge of Operative Clinic.
DON H. CARLSON, B.A., D.D.S., M.A., M.S.D., In Charge of Orthodontic Clinic.

FRANK G. EVERETT, M.S., D.M.D., M.D., In Charge of Periodontology Clinic.
HENRY C. FIXOTT, JR., D.M.D., In Charge of Oral Roentgenology Clinic.
EVELYN HANNON, B.S., In Charge of Dental Hygiene Clinic.
HORACE M. MILLER, B.A., D.M.D., In Charge of Extraction Clinic.
DONALD R. PORTER, M.S., D.D.S., In Charge of Pedodontic Clinic.
NORMAN H. RICKLES, D.D.S., M.S., In Charge of Oral Tumor Registry.
BHIM SEN SAVARA, L.D.S., M.S., B.D.S., In Charge of Child Study Clinic.
MERRILL G. SWENSON, D.D.S., In Charge of Prosthetic Clinic.
ROBERT F. WATKINS, D.M.D., In Charge of Root Canal Clinic.
VINSON M. WEBER, M.A., D.D.S., In Charge of Postgraduate Clinic.
WYMAN H. WILSON, D.D.S., In Charge of Crown and Bridge Clinic.

Child Study Clinic

Staff

BHIM S. SAVARA, B.D.S., L.D.S., M.S., Associate Professor of Dentistry; Head of Child Study Clinic.
BILLYANNA NILAND, B.A., M.A., D.D.S., Research Associate.
MAURICE R. ZINGESER, B.A., M.S., D.D.S., Research Associate.
MARGARET MCKEEN, B.S., M.S., Research Associate.

Advisory Council

HAROLD J. NOYES, D.D.S., M.D., Dean of the Dental School, Chairman.
BHIM SEN SAVARA, B.D.S., L.D.S., M.S., Assistant Professor of Dentistry.
CHARLES BRADLEY, M.D., Associate Professor of Pediatrics, Director of Child Psychiatric Services, University of Oregon Medical School.
DON H. CARLSON, B.A., M.A., D.D.S., M.S.D., Assistant Professor of Dentistry; Head of Department of Orthodontics.
H. HARRISON CLARKE, Ed.D., Research Professor of Physical Education, University of Oregon.
FRANK G. EVERETT, M.S., D.M.D., M.D., Professor of Dentistry; Head of Department of Periodontology.
ALLAN J. HILL, JR., M.D., Professor of Pediatrics, University of Oregon Medical School.
LORNA V. KLIER, Assistant Professor of Nutrition.
DONALD R. PORTER, M.S., D.D.S., Associate Professor of Dentistry; Head of Department of Pedodontics.
MARSHALL L. SNYDER, M.S., Ph.D., Professor of Bacteriology; Head of Department of Bacteriology.

Service Divisions

ELIZABETH A. DRAPEAU, Secretary to the Dean.
FRED A. MATTHIAS, B.B.A., Assistant Business Manager.
LOUIS G. TERKLA, D.M.D., Secretary to the Faculty.
ERNEST A. HURLEY, D.M.D., Director of Admissions and Registrar.
THOMAS H. CAHALAN, M.S. in L.S., Librarian.
HELEN WRIGHT, Photographer and Illustrator.
DOROTHY BARKER, B.S., Public Affairs Representative.
REINHOLD SICHAU, Physical Plant Maintenance Engineer.

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Executive Committee: Dr. Keith Claycomb, Dr. Arthur Fry, Dr. Ernest Hurley, Dr. Louis Terkla, Dr. Erwin Bender, chairman.

Admissions: Dr. Keith Claycomb, Dr. Duane Paulson, Dr. Merrill Swenson, Dr. Ernest Hurley, chairman.

Aptitude Testing (A.D.A.): Mr. Dean Gatewood, Dr. Harry Lundeen, Miss Evelyn Hannon, Mr. George Batterson, chairman.

Aptitude Testing (U. of O.): Mr. George Batterson, Dr. Kenneth Cantwell, Mr. Dean Gatewood, Dr. Leo Connor, Dr. Ernest Hurley, Dr. David Mahler, Dr. Duane Paulson, Dr. Louis Terkla, Dr. Merrill Swenson, chairman.

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Dental Health Education: Mr. George Batterson, Dr. Demetrios Hadjimarkos, Mrs. Lorna Klier, Dr. Duane Paulson, Miss Evelyn Hannon, chairman.

Examination Procedures: Mr. Dean Gatewood, Dr. Harry Lundeen, Dr. Charles Stout, Dr. Don Carlson, chairman.

Exhibit: Dr. Don Carlson, Mr. George Batterson, Miss Dorothy Barker, Dr. Arthur Aplin, chairman.

Faculty Representatives to Meeting of American Association of Dental Schools, March 1958: Dr. Charles Stout, Dr. Harold Noyes.

Faculty Seminar: Dr. Louis Terkla, Dr. Robert Watkins, Dr. Vinson Weber, Mr. George Batterson, chairman.

Graduate Education: Dr. Keith Claycomb, Dr. Jeff Minckler, Dr. Nilkanth Phatak, Dr. Donald Porter, Dr. Ellis Jump, chairman.

Isotope Committee: Mr. Dean Gatewood, Dr. David Mahler, Dr. Nilkanth Phatak, Dr. Keith Claycomb, chairman.

Library: Mrs. Rachel Espey, Dr. Jan Muller, Dr. Norman Rickles, Mr. Thomas Cahalan, chairman.

Loan Fund: Dr. Erwin Bender, Dr. Ernest Hurley, Mr. Fred Matthias, chairman.

Research: Dr. Demetrios Hadjimarkos, Dr. Frank Everett, Dr. Donald Porter, Dr. Nilkanth Phatak, chairman.

Rules and Procedures: Dr. Erwin Bender, Dr. Arthur Fry, Mr. Fred Matthias, Dr. Ernest Hurley, chairman.

Scholarship: Dr. Kenneth Cantwell, Dr. Ellis Jump, Dr. Norman Rickles, Dr. Merrill Swenson, Dr. Keith Claycomb, chairman.

Student Advisory: Mr. George Batterson, Dr. Norman Rickles, Dr. Charles Stout, Dr. Laurel Setty, Dr. James Woodson, Dr. Keith Claycomb, chairman.

Student Affairs: Dr. Ernest Hurley, Dr. Vinson Weber, Dr. Louis Terkla, chairman.

General Information

Dentistry as a Career

A CAREER IN DENTISTRY offers a variety of professional opportunities for capable young men and women. For adequate care of the dental health requirements of the United States, many more dentists are needed than are now practicing. Capacity enrollments in all the dental schools in the country cannot satisfy this need. With the number of dentists now being graduated each year (about 3,000), the present inadequate ratio of dentists to population in the United States will not be improved within the foreseeable future.

The profession commands respect in the community, where the dentist serves as a cooperating colleague of the physician. His work embraces the prevention and cure of diseases of the oral cavity, the correction of maladjustments of the teeth, and the repair and replacement of infected teeth; and combines the application of basic scientific knowledge of the principles of dental and systemic medicine with technical and manual skills.

The graduate in dentistry may choose a career in several fields. He may become a general practitioner, or, with additional postgraduate training, specialize in such branches as oral surgery, orthodontics, periodontology, public health dentistry, etc. There are excellent and varied opportunities for service in the Dental Corps of the armed forces, in the Veterans Administration, and in the United States Public Health Service. There is a growing need for dental health administrators, for service in school and industrial health programs. One of the most urgent needs in dental education today is for dental research scientists. There is also a shortage of qualified dental educators to serve full time on the faculties of the dental schools of the country.

In addition to the requisite knowledge and skills, success in the dental profession requires a number of essential personal qualities. Some of these are: (1) willingness and ability to support high cultural, ethical, and moral values; (2) a liking for people and for unselfish social service; (3) understanding of human and public relations; (4) administration and business ability; (5) a broad understanding of the socio-economic goals of the community and nation, especially as these relate to the health of the American people.

The Dental School Program

NO COURSE OF INSTRUCTION can serve as a substitute for intelligence and the will to learn. A well-planned and well-taught curriculum can, however, provide favorable conditions for the most effective development of the student's native abilities. The content, sequence, and methods of instruction can implement the application of intelligence and encourage the desire to learn. This is the basic educational philosophy on which the course of study at the University of Oregon Dental School has been built.

The four-year undergraduate curriculum is planned as an unbroken, integrated educational experience, combining throughout work in the lecture room, the laboratory, and the clinic. The student comes in contact with patients early in his first year; he performs oral prophylaxis and assists advanced students in the simpler procedures of clinical practice, and, by the end of the first year, constructs a full denture for a clinic patient under close faculty supervision. The second-year program includes an increasing amount of clinical work. On the other hand, the basic

scientific and technical studies, which have been traditionally concentrated in the so-called "preclinical" years, are placed strategically through the four years of the curriculum in close relation to the diagnostic and clinical application of the basic principles learned.

In the third and fourth years, intensive practice of specialized therapeutic technics in the departmental clinics is supplemented by work in the general clinic, where each student is responsible, under supervision, for the diagnosis and treatment of the entire oral health problem of a patient.

The program of the Dental School includes at present: (1) the undergraduate curriculum for the training of capable practitioners of general dentistry, leading to the degree of Doctor of Dental Medicine; (2) postgraduate courses to help graduate dentists keep abreast with the new concepts and skills of the progressing science of dentistry; (3) graduate programs in bacteriology, biochemistry, anatomy, oral pathology, pedodontics, and physiology, leading to the Master of Science degree; graduate courses are also offered in the fields of dental materials and public health; (4) a two-year program for the training of dental hygienists, (see page 59). The Dental School is developing, in addition, a program of specialized advanced study and research in dentistry, as a part of its program of the graduate study.

History of the Dental School

THE UNIVERSITY OF OREGON DENTAL SCHOOL was established through an act of the 1945 Oregon Legislature, which accepted the gift of the property of the North Pacific College of Oregon, located in Portland, and incorporated the college into the Oregon State System of Higher Education.

The North Pacific College of Oregon was the outgrowth of a merger in 1900 of the North Pacific Dental College (founded in 1893 as the Tacoma College of Dental Surgery) and the Oregon College of Dentistry (founded in 1898). The Tacoma School had moved to Portland from Tacoma, Washington in 1899.

In 1908 the scope of the college was expanded to include a curriculum in pharmacy; this was discontinued in 1941. In 1924 a new charter, granted by the state of Oregon, made the institution a public trust, administered by a board of trustees.

For many years, the late Dr. Herbert C. Miller, serving variously as president of the board of trustees and dean, played a leading role in the growth and development of the college.

A two-year curriculum in dental hygiene was established in 1949. A graduate program leading to the M.S. degree was initiated in 1954.

Until 1956 the Dental School was housed in a building at Northeast Sixth Avenue and Oregon Street, erected for the North Pacific College in 1910. In the summer of 1956 the school moved into a new $2,200,000 building on the campus of the University of Oregon Medical School.

Facilities

THE NEW DENTAL SCHOOL BUILDING is a reinforced concrete and steel structure of modern design, with approximately 130,000 square feet of floor space. It will accommodate 80 undergraduate dental students and 20 dental hygiene students for each class, in addition to graduate and postgraduate students.

The floor levels are as follows: *Basement*—cafeteria. *Ground floor*—dental hygiene, postgraduate division, orthodontic and pedodontic graduate departments, child study clinic, department of illustration, and lecture and demonstration rooms

for clinical sections. *First floor* (main floor from street level)—public waiting room, information and appointment desks, record room, examination and diagnosis departments, oral surgery wing, operative clinic, lounges for students and faculty, departmental offices, and offices for research personnel. *Second floor*—loading deck, receiving department, student store, maintenance area, student health department, student lounge and coffee bar, and lecture rooms. *Third floor*—dental basic science laboratories, departmental offices (crown and bridge, operative dentistry, dental materials, etc.), demonstration rooms and demonstration amphitheater. *Fourth floor*—physiology, biochemistry laboratory, research laboratories, seminar rooms, and large lecture room. *Fifth floor*—microscopic-sciences laboratory, research laboratory, seminar rooms, and large lecture room. *Sixth floor*—library, administrative offices, faculty conference rooms. *Seventh floor*—anatomy and research laboratories. *Eighth floor*—animal quarters and research laboratories.

The building is connected with the ground floor of the University of Oregon Medical School Hospital by a tunnel at the fifth floor level.

Library

THE DENTAL SCHOOL LIBRARY contains 6,300 bound volumes, and currently receives more than 180 periodicals. The books and periodicals are arranged on freely accessible open shelves.

Dental School students also have the privilege of borrowing books and periodicals from the University of Oregon Medical School Library. All of the books in the several libraries of the Oregon State System of Higher Education are available through interlibrary loan.

The Dental School Library provides a reference and lending service for dentists in the Pacific Northwest area.

The Library receives many valuable gifts of books and periodicals from alumni and friends of the school. These include useful current materials as well as valuable older publications. An historical collection includes the library of Dr. J. R. Cardwell, a pioneer dentist who settled in Oregon in 1852.

Dental Student Store

THE DENTAL SCHOOL operates a book and supplies store, on a nonprofit basis, for the convenience of students. The selling price of all items is cost plus a small markup to pay for current operating costs.

(1) All items are sold for cash. Students should foresee their needs and make financial arrangements as needed, through earnings, school loans, or through private financing.

(2) The student "instrument and supply issue" consisting of instruments and supplies designated by the department in charge of teaching each course, must be purchased from the student store, and paid for at the time of payment of fees. The "instrument and supply issue" list includes the minimum materials needed by the student to accomplish the laboratory exercises required in each of his courses. Additional instruments and supplies, if desired by the student, may be purchased from the student store or from any dental supply house.

(3) The store is open for the purchase of supplies on an announced schedule planned to meet student convenience to best advantage.

(4) The store stocks only those items approved by the proper committees of the Dental School, but will handle special orders on request.

Scholarships and Awards

State Scholarships. Under authorization from the Oregon Legislature, the State Board of Higher Education awards annually a limited number of scholarships to superior students who are residents of the state of Oregon. The scholarships cover tuition and the laboratory and course fee; recipients must pay the incidental fee, the building fee, and special fees. Dental students, to qualify for state scholarships, must rank high in scholastic attainment at the Dental School and be in need of financial assistance. State scholarships at the Dental School are awarded on recommendation of the Scholarship Committee and approval of the dean. Application should be filed in the Registrar's Office not later than March 1.

State Scholarships for Foreign Students. A limited number of state fee scholarships are awarded annually to students from foreign countries attending the institutions of the Oregon State System of Higher Education. These scholarships cover tuition, the nonresident fee, and the laboratory and course fee. Application for Dental School foreign scholarships should be filed in the Registrar's Office not later than March 1.

John E. Argue Award in Ceramics. An award of $100 is presented each year by Mrs. Jean Argue Davidson to the senior student who has demonstrated the greatest clinical proficiency in porcelain restorations. The purpose of the award is to stimulate interest in attainment of the highest skill in dental ceramics, a field in which Mrs. Davidson's father, Dr. John E. Argue, was pre-eminent.

Society of Dentistry for Children Awards. An award from the American Society of Dentistry for Children is presented annually to the fourth-year student who demonstrates the greatest interest and skill in dental service for children. The award includes a certificate, a year's membership in the society, and a year's subscription to the *Journal of Dentistry for Children.* A year's membership in the society and a year's subscription to the society journal is also presented to the fourth-year student placing second in the competition.

Marshal Awards. In recognition of high academic attainment, a number of junior students are chosen each year to assist in various Dental School functions. Their first and principal responsibilities are discharged at commencement exercises.

Loan Funds

THE DENTAL SCHOOL has available funds for long-term student loans and for small emergency loans. Long-term loans are at present limited to a maximum of $600 a student, repayable within two years of date of note or one year after graduation, whichever date comes latest. For a student to obtain such a loan, he must be able to show a definite need and may be required to consult with the Loan Fund Committee concerning any or all portions of information which he furnishes in connection with the application. Proof may be required of any applicant for a loan showing the accuracy of the information given in his application for funds.

Administration of Loans. The loan funds are held in trust by the Dental School and are governed by uniform principles and policies, administered by the Dental School Loan Fund Committee. Applications for loans are made through the Business Office. The following regulations apply to student loans:

(1) Applicants for loans must have been enrolled in the Dental School for at least one year and have a cumulative GPA of at least 2.00.

(2) The service charge for emergency loans of $10.00 or less is 50 cents for one month, 75 cents for two months, and $1.00 for three months. The service charge for emergency loans of more than $10.00 is $1.00 for one month, $1.25 for two months, and $1.50 for three months. The service charge for all overdue emergency loans is 50 cents a month until paid in full.

(3) The interest rate for long-term loans is 4 per cent per year.

(4) Long-term loans are limited to $600 to any individual student.

(5) It is the policy of the Dental School to encourage repayment of loans as soon as the borrower is able to pay. The maximum loan period is two years, with the privilege of renewal if the borrower has in every way proved himself worthy of this consideration. Payment of loans in monthly installments as soon as possible after graduation is encouraged. The interest on renewed loans is 4 per cent per year if the borrower is still a student at the Dental School; the rate of interest on renewals made after the student leaves the Dental School is 6 per cent.

(6) The Dental School does not accept various forms of collateral which most money lenders require for the security of loans. The only security accepted is the signature of two responsible property owners as well as that of the student borrower. The co-signers must submit evidence of their ability to pay the note by filing a financial statement or by giving bank references. One co-signer must qualify by bank reference. It is desirable that one of the co-signers be the parent or guardian of the borrower. If a student is married, his or her spouse must also sign the loan application and note.

(7) The signature of the borrower is the only security required for an emergency loan.

(8) In considering applications, the following personal qualities of the student will weigh heavily in the minds of the members of the Loan Fund Committee: (a) scholastic record; (b) reputation for reliability, honesty, and industry; (c) need for aid and probability of wise expenditure; (d) amount of present indebtedness; (e) ability to repay; (f) effort which the student has made to assist himself.

Herbert C. Miller Loan Fund. This is an emergency loan fund established in honor of the late Dr. Herbert C. Miller, former president of North Pacific College of Dentistry. Loans are available to dental students and dental-hygiene students having a grade-point average of 2.00 or better. Loans are limited to $75 for a period of approximately ninety days. Application should be made to the Business Office of the Dental School.

Gillette Hayden Scholarship Loan Fund. The Association of American Women Dentists has established the Gillette Hayden Scholarship Loan Fund for promising junior and senior women dental students. The amount that can be borrowed and the terms of the loan are based on individual circumstances. Applications should be made through the Business Office.

American Dental Trade Association Senior Student Loan Fund. This loan fund is designed to assist deserving senior dental students to complete their undergraduate dental education. The sum of $350 is made available each year to each dental school. This sum may be disbursed in part or in whole for one or more loans. The interest rate is 3 per cent per annum, and the loan is due within two years from the first day of September immediately following graduation. Applications should be made through the Business Office.

Portland District Dental Society Women's Auxiliary Short Term Loan Fund. This short-term loan fund was established by the wives of the members of the Portland District Dental Society. The loan is for the period of approximately ninety days and is given to students on the basis of need. A 2.00 grade point average is required.

Ben Selling Loan Fund. This fund, a bequest from the late Mr. Ben Selling, is administered through his son, Dr. Laurence Selling. Applications for loans should be made through the Business Office of the Dental School.

Student Health Service

A STUDENT HEALTH SERVICE is maintained in cooperation with the University of Oregon Medical School to provide both preventive medical procedures and therapeutic care. Hospitalization in medical and surgical emergencies is provided for a maximum of fifteen days. Medical care is not provided for students' dependents.

The Health Service is open Monday through Friday, 9:00 a.m. to 12:00 noon and 1:00 to 3:00 p.m. The Health Service physician has clinic hours on Monday, Wednesday and Friday from 10:00 a.m. to 12:00 noon. On Saturday mornings care is available either in the Dental School office or in 34 Administration Building, Medical School. A charge for Health Service care is included in the incidental fee, paid at the time of registration (see page 30).

Student Organizations

THE ASSOCIATED STUDENTS of the University of Oregon Dental School, assisted by a faculty Committee on Student Affairs, supervises and directs all student activities, including assemblies, social events, and athletics. All Dental School students are members. The governing body of the Associated Students is the Student Council. The council includes representatives from each class.

Officers of the Student Council for 1957-58 were: Bob Sheridan, president; Clayton Gross, vice-president; Manning Barber, secretary; Merritt Barber, treasurer; Steve Matheson, athletic manager; Bob Peterson, editor.

American Dental Association. On admission to the Dental School, all students become junior members of the American Dental Association. Members of the faculty and outstanding dentists are guest speakers at the monthly meeting of the Dental School chapter. All students receive the *Journal* of the association.

Omicron Kappa Upsilon. Omicron Kappa Upsilon, national honorary dental society, maintains a chapter at the Dental School. Members of the graduating class whose scholarship ranks them among the highest 12 per cent of their class, and who are of good moral character and show evidence of professional earnestness, are eligible for membership.

Delta Phi Omega. Delta Phi Omega is an honorary group organized to encourage study of the basic science of dentistry; outstanding practitioners in the dental profession speak and demonstrate techniques at meetings of the group. Members are chosen from the top ten per cent of the junior and senior classes. Selection is based primarily on scholastic achievement; but consideration is also given to character, personality, and adherence to professional ethics.

Fraternities. The following dental fraternities maintain chapters at the Dental School: Delta Sigma Delta, Psi Omega, and Xi Psi Phi. Fraternity activities, rushing, and bidding are coordinated and regulated through the Interfraternity Council, composed of two representatives from each fraternity and a member of the faculty, who serves in an advisory capacity. Interfraternity Council representatives are responsible for the conduct of all members of their respective fraternities when this conduct affects the Dental School, directly or indirectly. The members of the council during 1957-58 were: Delta Sigma Delta, Clayton Gross, Steve Matheson; Psi Omega, Jim Bennett, Fred Buchanan; Xi Psi Phi (no representatives for 1957-58).

Alumni Association

THE ALUMNI ASSOCIATION of the University of Oregon Dental School has a membership of over 3,100 dental graduates. The members include graduates of the North Pacific College of Oregon, who were formally accorded the status of University alumni in the act of the 1945 Oregon Legislature which incorporated the college into the State System of Higher Education as a school of the University of Oregon. The association meets biennially at the Dental School for a three-day program of scientific papers and clinics. *Caementum*, the official alumni periodical, serves to inform the members of the activities of the association and to create a stronger bond of common interest among the alumni. The officers of the alumni association for 1957-58 were:

JAMES A. GARSON, D.M.D.....President
LOUIS B. SCHOEL, D.M.D.....First Vice-President
WILLIAM GYLLENBERG, D.M.D.....Second Vice-President
ROBERT WANDS, D.M.D.....Third Vice-President
JACK HAMIL, D.M.D.....Secretary-Treasurer
LOUIS G. TERKLA, D.M.D.....*Caementum* Editor

Admission and Requirements

Admission

IN SELECTING dental student candidates, the Admissions Committee takes into account the following factors, in addition to the satisfactory completion of minimum predental course requirements: (1) college grades; (2) amount of college work completed; (3) aptitude-test results from both the American Dental Association test and the Dental School test.

Consideration is also given to the following factors: personal factors revealed in interviews and in letters of recommendation; geographical considerations (the Dental School recognizes that its primary obligations is to provide an opportunity for dental education for residents of Oregon and, to a lesser degree, for residents of the eleven western states cooperating in the program of the Western Interstate Commission for Higher Education and for residents of the territories of Hawaii and Alaska—only a limited number of applicants are accepted from other parts of the United States or from foreign countries); and veteran status.

Applicants for admission are required: (1) to participate in a two-day orientation and aptitude-testing program administered by the Dental School in Portland, and (2) to take an aptitude test administered by the Council on Dental Education of the American Dental Association or a college-transfer test administered by the Educational Testing Service. The E.T.S. test may be substituted for the A.D.A. test only with the approval of the Admissions Committee.

Because of the expense to the student coming from a distance, the Admissions Committee will advise applicants who will probably not be accepted not to come to Portland for the Dental School's orientation-aptitude program.

At the time he files his original application form, the applicant should indicate at which testing period he will appear for the Dental School orientation-aptitude program.

The scores achieved on the aptitude test are for the exclusive use of the Admissions Committee, and will not be revealed to the applicant. The reason for this policy is to prevent the student from being influenced toward overconfidence or lack of confidence because of scores and interpretations derived from the tests. Low scores on these tests are not necessarily considered a disqualifying factor; in some instances the Admissions Committee accepts an applicant who has done poorly on one or both of the tests.

Preparation for Admission. Students planning to apply for admission to the Dental School are strongly advised to obtain as wide an understanding of the services and functions of the dental profession as possible, by talking with dentists in their local community and by reading in the professional journals. The following periodicals are recommended: *Journal of the American Dental Association, Journal of Dental Research,* and journals of state and district dental societies. Reading in these periodicals will help orient the student in: the principles and goals for the promotion of the nation's dental health; the dental health needs of the American public; the problem of dental manpower to meet these dental health needs; types of dental service and special fields of scientific, technical, and clinical activity; and the point of view of the dental profession in regard to present-day socio-economic situations affecting dental health service.

Information concerning the A.D.A. testing program is contained in the A.D.A. *Dental Aptitude Manual for Dental School Applicants.* A copy of this manual is sent to all applicants who register for the A.D.A. Test.

Western Interstate Commission for Higher Education. Nonresident students seeking certification under the provisions of the program of the Western Interstate Commission for Higher Education should so notify the Dental School at the time of application. Requests for certification should be addressed to the local commission office in the state of residence. Information and addresses of local offices in each state may be obtained on request to the Executive Secretary, Western Interstate Commission for Higher Education, Norlin Library, Boulder, Colorado.

Students entering the Dental School under the program of the Western Interstate Commission are not required to pay the nonresident fee, since this portion of Dental School fees is borne by the member state sponsoring the student.

Council on Dental Education Aptitude Test. The aptitude test administered by the Council on Dental Education of the American Dental Association consists of a battery of five separate tests, which aim to reveal both scholastic ability and technical ability for dentistry. The academic tests include an examination in the fields of science and in the understanding of scientific principles and a general aptitude or psychological examination. The technic battery includes a paper-pencil object-visualization and space line-and-form relationship test and a chalk-carving manual-dexterity test. A booklet issued by the American Dental Association, describing these tests and including sample test items, will be sent to the applicant when his application is received.

Students planning to take the American Dental Association test should fill out the application form provided by the Dental School and send it direct to the Council on Dental Education, American Dental Association, 222 East Superior Street, Chicago 11, Illinois. General information concerning the dates and locations of testing centers will be provided by the Council on Dental Education office. (The A.D.A. test will be given at the University of Oregon Dental School on October 3, 1958, January 9, 1959, and April 17, 1959.) The charge for the A.D.A. test is $15.00.

Educational Testing Service Test. Information concerning the college-transfer test administered by the Educational Testing Service may be obtained by writing to the E.T.S., Box 9896, Los Feliz Station, Los Angeles 27, California. Applicants for whom this test has been authorized by the Admissions Committee of the Dental School should make all arrangements directly with the E.T.S., and ask that the scores be sent to the Dental School. The cost of this test is $6.00.

Dental School Technic Testing and Orientation Program. In addition to the tests described above, the Dental School administers a somewhat more inclusive test of technical ability. This test and the accompanying orientation program are required of all applicants. The technic test resembles very closely some of the projects in elementary courses in dental technics. Testing activities include carving procedures using dental instruments and other laboratory procedures designed to indicate finger dexterity, depth perception, line-form and space-relationship discernment, finger strength and pressure discrimination, kinesthetic sense, and ability to follow steps in technic procedures.

The testing program extends through a two-day period (August 3 and 4, 1959). If the number of applicants desiring to take this test exceeds 160, another session will be scheduled shortly thereafter. The time involved permits the examiner to estimate the potential ability of the applicant as indicated by progressive improvement, as well as his native ability.

If an applicant for the 1959 entering class is not able to take the Dental School aptitude test until the August 1959 session, he may be granted conditional acceptance by the Admission Committee pending the completion and scoring of the test. If the score is satisfactory, the applicant will then receive an unconditional acceptance.

The orientation portion of the program consists of meetings of applicants, the dental faculty, dental students, and dental practitioners, where dentistry as a profession, its responsibilities, functions, and problems are freely discussed. Applicants are also given a thorough orientation to the life in a professional school and to particular points of emphasis stressed in the University of Oregon Dental School.

Participants are encouraged to present any questions or problems concerning admission qualifications and procedures, the Dental School curriculum, dentistry as a profession, and adjustment to professional study that they may wish considered. A fee of $6.00 is charged to cover the cost of the program.

Orientation Program for High-School Students. A testing and orientation program similar to that described above for applicants for admission is also available for high-school students who wish to learn more about the dental profession and about the abilities and skills required in the profession. The program is offered once each year, about the middle of June (June 22-23, 1959) at the Dental School in Portland.

Though generally similar to the program for applicants, this program places greater emphasis on vocational guidance. Included are discussions of academic preparation, types of professional service, and opportunities in the various branches of dental service. Technic projects are performed to test technic and artistical abilities required in dentistry.

To qualify for participation, the student should as a general rule rank in scholship within the upper 50 per cent of his class. Application cards may be obtained from high-school principals or vocational counselors. Further information may be obtained from the Registrar of the Dental School.

Speakers on Careers in Dentistry. At the request of college, university, and high-school vocational counselors, arrangements may be made for talks by members of the Dental School Admissions Committee to groups interested in learning about dental education and dentistry as a career. Requests for speaking engagements should be addressed to the chairman of the Admissions Committee or to the Dean of the Dental School.

In cases where members of the faculty are not available for speaking engagements, the Dental School may be able to arrange for a practicing member of the dental profession to represent the Admissions Committee.

Groups or individuals wishing to see the Dental School and its facilities are always welcome. Arrangements for visits may be made through the Dean's Office.

Application Procedure

Application for admission to the Dental School should be addressed to the Admissions Committee, care of the Registrar's Office of the Dental School. The applicant's credentials should include the following:

(1) Application on an official form, copies of which will be furnished by the Dental School Registrar.

(2) A recent photograph, endorsed on the back with the name of the applicant and the date the photograph was taken.

(3) An official transcript of all college work completed at the time of application. This transcript should cover a minimum of three terms of college work. (The applicant should also submit to the Dental School unofficial personal memoranda, term by term, of grades received after the filing of this transcript until he receives formal notice of admission to the Dental School. After the completion of his predental program, and before enrollment in the Dental School, he must file with the Registrar of the Dental School a final official transcript covering all his collegiate work.)

(4) A statement of college work in progress and the courses the applicant proposes to take before admission to the Dental School; the statement should list specific courses, with the credit which each carries.

(5) A personal letter, addressed to the Admissions Committee, stating in detail the reasons why the applicant has chosen a dental career; the letter should also include any other information which the applicant considers important for a thorough evaluation of his credentials.

(6) A tentative budget for the four years at the Dental School, showing: available assets; expected annual income; anticipated expenditures for fees, equipment, supplies, and personal and living expenses. In preparing this budget, the applicant should take account of the statement of costs on pages 29-31 of this Catalog, and should be careful to list all actual assets. Reference is always made to this budget when student financial problems are considered.

(7) A statement of the selective-service status of the applicant, including his code number and the number and address of his local selective-service board.

(8) The credit-evaluation fee of $5.00 (this fee is not refundable).

(9) A preference card indicating at which testing periods he will appear for the Dental School orientation-aptitude program.

When an applicant for admission is notified of acceptance, he must make a $25.00 deposit to reserve a place in the entering class; this deposit is applied on first-term fees. See page 30 for information on refunds.

If the applicant is still pursuing his predental studies or if certain procedures for admission have not been completed, the notice of acceptance will be "conditional." When all requirements and procedures are completed, a confirmatory "unconditional" acceptance will be sent to the applicant.

Application for admission should be filed as soon as possible after July 1 of the year preceding desired entrance. For example, applications for the entering class in the fall of 1959 should be filed during the summer of 1958. The final date for filing application is October 31 preceding the year of desired entrance. The Admissions Committee will begin selecting candidates for the next entering class soon after the opening of the academic year in October, and will meet periodically thereafter for purposes of selection until the class is filled. Applicants should understand that it is of decided advantage to file all credentials and complete all aptitude requirements as early as possible, to insure full consideration by the Admissions Committee. The Admissions Committee will not wait until the final filing date before beginning its selection procedures, so that acceptable applicants with all requirements fulfilled may be notified of committee action as soon as possible.

Admission Requirements

The University of Oregon Dental School strongly recommends that predental students devote at least three years to their predental education, and that they plan to earn the baccalaureate degree after the completion of one or two years of study at the Dental School. The minimum period of predental studies is two years; but only those students who have completed a two-year program with a superior grade-point average will be considered for admission to the Dental School. It is very improbable that a student completing the minimum two-year predental program with a grade-point average of less than 2.25 will be accepted for admission. No student with a predental grade-point average of less than 2.00 should apply for admission to the Dental School.

The Dental School requires, for admission, the completion of the following courses offered at the University of Oregon (or their equivalents in courses offered at other schools; students taking predental work at other institutions may check on equivalence by comparing the courses offered at their schools with the descriptions published in the University of Oregon Catalog):

English Composition (Wr 111, 112, 113). 9 term hours.

General Chemistry (Ch 201, 202, 203; Ch 204, 205, 206), including qualitative analysis and laboratory. 15 term hours.

Elementary Quantitative Analysis (Ch 320), with laboratory. 4 term hours.

General Biology (Bi 101, 102, 103), with laboratory. 12 term hours.

General Physics (Ph 201, 202, 203), with laboratory. 15 term hours.

The requirements listed above are included in the predental program offered at the University of Oregon, and term hour totals are indicated accordingly. Students in pre-dentistry at other institutions should keep in mind that course sequences may vary, with the result that the above total hours may not apply. In no case will the Dental School consider accepting less than 12 hours in general chemistry and four hours in quantitative analysis, or 12 term hours in general physics.

Recommended Elective Subjects. The Dental School recommends that the predental student, in addition to completing the basic requirements listed above, choose electives which will broaden their cultural background as well as strengthen their scientific training. Courses in the following fields are suggested: comparative anatomy, vertebrate embryology, genetics, mathematics, foreign language (completion of a second-year course), philosophy, public speaking, vocabulary for scientists, music and art appreciation, history, economics, sociology, psychology, literature, anthropology, and personnel management. Students are advised to explore their own interests and consult the catalogs of their institutions for other courses which will help them obtain the best possible general cultural education.

Students who plan to enter the Dental School before receiving a baccalaureate degree should arrange their predental studies so that they may qualify for the Bachelor of Arts or Bachelor of Science degree after the completion of two years of work at the Dental School. This will be possible only if they satisfy, in the course of their predental program, all requirements of the degree-granting institution for the bachelor's degree, except certain upper-division major requirements for which the institution may accept science courses taken as a part of the Dental School curriculum. Predental students are urged to consult their faculty advisers to insure that all undergraduate requirements are met.

The University of Oregon accepts a maximum of 48 term hours of professional work in dentistry as work in residence for a bachelor's degree, and accepts courses in the basic sciences, taken at the Dental School, toward the satisfaction of major requirements in biology or general science. The student is advised to become a candidate for a baccalaureate degree at the institution where he completed his predental studies. However, a student who has completed a three-year predental program at an accredited college or university which does not accept Dental School work toward course or major requirements may have his credits transferred to and receive his degree from the University of Oregon.

Transfer Students

A student transferring from another dental school in the United States may be granted advanced standing at the discretion of the Admissions Committee. Evidence of honorable dismissal from the dental school attended must be submitted. A minimum of two years of work in residence at the University of Oregon Dental School is required for eligibility for a degree.

Foreign Students

A foreign student submitting credentials in a language other than English should present, with the original credentials, a literal translation certified by a consul of the country where the student's preparatory work was taken, and a full explanation, by the consul, of the educational status of the institution from which

the credentials were submitted. The original credentials, the translations, and the explanation should be sent directly to the Dental School by the consul. Foreign credentials must satisfy the specific entrance requirements of the Dental School. A foreign student is required to have sufficient knowledge of the English language to enable him to understand lectures and demonstrations and to read and understand texts prescribed by the Dental School. This proficiency may, at the discretion of the Admissions Committee, be tested by qualifying examinations in spoken and written English.

Foreign students who apply for admission to the Dental School with advanced standing may be required to take qualifying examinations in the basic sciences or in clinical dentistry or in both. It is usually necessary for an applicant from a foreign country to come to the Dental School for a six-week evaluation program during the summer preceding the fall term in which he wishes to enter the school. If a student elects to attend the summer evaluation program, or if instructed to do so, he must not assume that participation in this program guarantees acceptance for admission to the Dental School at any level in the curriculum. Rarely is it possible for a foreign student entering with advanced standing to qualify for graduation from the Dental School in less than two years; three or more years may be required.

Special Students

A person who, for any reason, is allowed to follow a program of study which differs significantly from the regular curriculum of any class is classified as a special student. Special students pay the same fees as regular undergraduate students.

Registration Procedure

THE FIRST TWO DAYS of the fall term are devoted to registration. At the opening of the 1958-59 session, first-year students report for registration at 9:00 a.m. on Thursday, September 25; second-year students report at 1:00 p.m. on Thursday, September 25; third-year students report at 9:00 a.m. on Friday, September 26; and fourth-year students report at 1:00 p.m. on Friday, September 26. Since the registration schedule is very crowded, promptness in reporting is essential. Notification concerning registration procedure is mailed to each student prior to the opening of the session.

Voluntary Junior-Senior Patient Assignment

Junior and senior dental students are urged to take advantage of a voluntary before-term patient assignment program, under which students, between the close of the summer term (September 12, 1958) and the opening of the fall term (September 25, 1958) may arrange in advance with the patient appointment section for fall-term clinical patient assignments.

Scholarship Regulations

THE SCHOLARSHIP REQUIREMENTS of the University of Oregon Dental School for advancement or graduation conform to the policies of the Oregon State Board of Higher Education and the Council on Dental Education of the American Dental Association.

Grading System

Accomplishment by students in Dental School courses is graded in accordance with the following system: *A*, exceptional; *B*, superior; *C*, satisfactory; *D*, inferior; *I*, incomplete; *E*, conditional; *F*, failure; *W*, withdrawal.

Faculty regulations governing marks of *Incomplete, Condition, Withdrawal,* or *Failure* are as follows:

Incomplete. Work which has not been completed for just cause is given the grade of *Incomplete.* The student is allowed one term for the satisfactory completion of the work, or its equivalent; an extension of time may be granted in special cases. The summer interim is considered a term.

Condition. When a further evaluation of a student's work is required, a grade of *Condition* may be given. The student has the opportunity of removing a *Condition* either by re-examination or by completion of special assignments covering his deficiencies, or by both. *D* is the highest grade that may be granted on re-evaluation. September 15 is the deadline for removal of conditions; they may, however, be removed before this date if such action is mutually agreeable to both the student and instructor.

Withdrawal. The grade of *W* is given for satisfactory performance at the time of withdrawal. Normally a student must withdraw from all courses prior to the fourth week before the end of the term to receive a grade of *W* for satisfactory performance. A grade of *F* will be given in every course in which the work was failing at the time of withdrawal. Students who withdraw after the fourth-week deadline will normally receive a grade of *F* in all courses.

For just cause the faculty or Executive Committee may grant permission for extension of time limits for withdrawals and for removal of incompletes and conditions.

Failure. Work which is not of a quality acceptable for credit receive a grade of *F*. To continue toward the completion of his Dental School work, the student must repeat a course in which he has received the grade of *F*, or complete an acceptable substitute course with a satisfactory grade. Unless special permission for extension of time is granted, the student must comply with this regulation within one academic year.

Grades given at the end of the fall or winter term in sequential courses are provisional if the instructor so indicates on the grade sheet. Provisional grades will not be recorded on the student's permanent record; a final permanent grade will be recorded at the end of the course or school year. The provisional grade represents the best possible evaluation of the student at the time.

No provisional grades may be carried beyond the end of the academic (school) year, which closes at the end of the spring term.

A student's general scholastic standing is estimated in terms of his "grade-point average" (GPA). Grade points are computed on the basis of 4 points for each credit hour of *A* grades, 3 points for each credit hour of *B*, 2 points for each credit hour of *C*, 1 point for each credit hour of *D*, and 0 points for each credit hour of *E* or *F*. Grades of *Incomplete* are disregarded in the computation of points. The grade-point average is the quotient of total points divided by total credit hours in which grades of *A, B, C, D, E, or F*, are received.

Scholarship Requirements

Scholastic regulations are administered through the Scholarship Committee (for didactic subjects) and the Clinic Committee (for clinical subjects). These committees, at the end of each academic year, present reports to the faculty on the

academic standing of all students, with recommendations for appropriate action in cases of unsatisfactory scholarship.

To qualify for advancement or graduation, the student is required to maintain a grade-point average of 2.00 or higher for each year's work. For failure to maintain this minimum satisfactory average, the student may be dismissed from the school or required to repeat the work of the year for which his scholarship is deficient, at the option of the faculty.

The Executive Committee or the faculty may place any student on probation whose general performance is questionable. Any student on probation may be dropped from school or removed from probation at any time by action of the faculty.

Senior students who are deficient in scholarship may be dropped by faculty action. A senior student who fails to complete all unit and proficiency requirements for graduation with his class is expected to make up all deficiencies within a period of one additional term. A student who does not qualify for graduation within this period may, upon recommendation of the faculty, be permitted to repeat the work of the senior year.

Students who are required to repeat a course or a year's work may be assigned a modified program involving some new content or experience. The material to be covered is determined by the Scholarship and Clinic Committees.

National Board Examinations

The National Board Examinations of the American Dental Association are given at the Dental School twice each year for dental students and members of the dental profession who wish to take these examinations in lieu of the science and didactic parts of state board examinations. At present approximately 30 state dental boards recognize a passing grade in the National Board Examinations as equivalent to a passing grade in the state didactic examinations. In these states, demonstration of clinical proficiency is usually the only additional requirement for qualification for dental practice.

The National Board Examinations are not required by the state boards of dental examiners. At the present time, however, virtually all eligible students at the University of Oregon Dental School take these examinations.

Foreign students who have applied for citizenship in the United States are eligible to take the National Dental Board Examination.

The dates when the examinations will be given in 1958-59 are December 1-2, 1958 and March 30-31, 1959.

Fees and Expenses

UNDERGRADUATE STUDENTS at the Dental School pay uniform regular fees each term during the four years of the professional curriculum. Dental School fees for the academic year 1958-59 total $191 per term for residents of Oregon and $282 for nonresidents.

Special fees are fees paid under the special conditions indicated. Increases in costs of materials, supplies, and equipment may necessitate upward adjustments in the laboratory and course fees and in other incidental fees.

The Board of Higher Education reserves the right to make changes in the schedule of fees without notice.

Regular fees, special fees, deposits, and other instructional expenses are listed below:

Special Fees and Deposits

Evaluation fee (not refundable)	$ 5.00
Dental-aptitude test fee	6.00
Late-registration fee (paid by students registering on third day following the registration dates of any term), per day—no maximum	1.00
Transcript fee (first one free), subsequent copies, each	1.00
Entrance deposit	25.00

Regular Fees

Tuition, per term	$ 60.00
Laboratory and course fee, per term	107.50
Incidental fee, per term	16.50
Building fee, per term	7.00
Total, per term, residents of Oregon	$191.00
Nonresident fee, per term (in addition to fees for resident students)	91.00
Total, per term, nonresidents	$282.00
Part-time fee (for students registered for 6 term hours or less), per term hour	$17.00 (minimum $34.00)
Summer-term clinic fee, six weeks	25.00
Auditor's fee:	
Lecture courses, per term hour	5.00
Laboratory courses, per term hour	7.50

Refund of Fees and Deposits

Fee Refunds. Students who withdraw from the Dental 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 State Board of Higher Education, and is on file in the Dental School Business Office. 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.

Deposit Refunds. The $25 entrance deposit, paid by the entering student on acceptance of application for admission, applies on first-term fees. If the deposit is made prior to January 15, it is not refundable after February 15, if the student relinquishes his place in the entering class. If the deposit is made after January 15, it is not refundable after a period of thirty days following notice of acceptance.

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 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, (e) a student who has been a resident of Hawaii or Alaska for two years immediately preceding admission to the Dental School, or (f) 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 convincingly demonstrated his intention to become a citizen.

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 considering intent include length of time within the state, age and family status of student, residence of near relatives, place of voting, ownership of property, source of financial support, record of employment and schooling (intent cannot be demonstrated by school attendance alone).

(2) A student whose official records show his own or his parent's 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 her parents' 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.

Books, Equipment, and Supplies

The estimated cost of books, equipment, and supplies during the four years of the dental curriculum is shown below:

	Books	Equip. and Supplies	Total†
First year	$270.00	$900.00	$1,170.00
Second year	140.00	400.00	540.00
Third year	115.00	190.00	305.00
Fourth year	75.00	35.00	110.00

Living Expenses

Single rooms may be obtained in Portland for about $40.00 a month; two- and three-room apartments rent for about $85.00 a month; the rate for room and board averages $75.00 a month. The Dental School has no dormitory facilities. The Registrar's Office is often notified of available housing near the Dental School, and posts such listings for the convenience of students. Students accepted for admission to the Dental School are advised to arrange for housing before the opening of the school year.

* This twelve-month period must include at least six consecutive months during which the student was not enrolled for full-time work in a collegiate educational institution.

† The cost of books, equipment and supplies totaled for each year represent minimum costs derived from required books and supplies schedules submitted by the several departments. Approximately $150.00 additional expenditure for each year should be anticipated; this represents supplementary expenditures for replacing expendable supplies throughout the year and for the voluntary purchase by the student of instruments and equipment that, while not on the required department list of equipment and supplies, are nevertheless voluntarily purchased by many students. When budgeting the cost of equipment and supplies for the four years, the student is therefore advised to anticipate an average of at least $150.00 a year more than the totals noted.

Degree Curricula

Undergraduate Curriculum

THE PURPOSE OF THE UNDERGRADUATE CURRICULUM leading to the D.M.D. degree is the training of able general practitioners of dentistry. The organization and content of each course, the methods of instruction, and the sequence of courses are all directed to provide a unified and integrated educational experience leading to professional objectives.

The individual courses, to a far greater extent than brief catalog descriptions can reveal, are constructed to correlate with the instruction the student is receiving at the same time in other classrooms and laboratories and in the clinics—and to anticipate practical applications and relationships learned in immediately subsequent terms.

The traditional division of the dental curriculum into "preclinical" and "clinical" years has been broken down, in order that the student may grasp the clinical significance of didactic instruction in the basic sciences and laboratory work in technics without educationally unsound delay. The student meets the patient during his first term at the Dental School, and, before the end of his first year, performs selected operations in the fields of prosthetics and oral prophylaxis. Study in the basic sciences, on the other hand, is placed throughout the four-year curriculum in close time relationship to clinical applications.

The curriculum is sufficiently flexible to allow, within certain limits, special arrangements for students with ability and learning power that enable them to progress more rapidly than their class. They may be provided with additional course content, and may be introduced to clinic work ahead of their classmates; in the clinics they are encouraged to gain wider experience rather than continue the unnecessary repetition of like operations.

In the third and fourth years, elective courses in applied and experimental science are offered, to encourage individual study along lines of special interest and to provide a review, in relation to clinical applications, of fundamental scientific concepts learned during the first two years of the curriculum.

Within the framework of the required program, time is allowed for independent research and for experience in selected problems of clinical practice. Throughout the four-year program, seminars, conferences, and discussion groups are provided to insure individual attention to student problems and a close personal relationship between students and faculty.

The summer clinics, which are open to all students, provide an opportunity for supplementary clinical practice and experience under faculty supervision. No credit toward graduation is given for these clinics.

Courses, Time, and Credit

First Year*

		Clock hours					Credit
		Lec.	Conf.	Lab.	Clinic	Total	hours
DO 311	Dental Orientation	11	....	....	4	15	1
DO 312	Technical Composition	11	....	....	....	11	2

* In addition to required courses, the following elective courses are offered for first-year students:

An 401. Special Studies: Microtechnic. 11 clock hours laboratory. 1 credit hour.

An 415. Human Genetics. 11 clock hours lecture. 1 credit hour.

DO 401. Special Studies: Principles of Learning and Instruction (dental education) 11 clock hours. 1 credit hour.

First Year (continued)

		Clock hours					Credit
		Lec.	Conf.	Lab.	Clinic	Total	hours
DO 313	Dental Orientation	....	....	....	4	4	....
DO 314	Dental History	11	....	....	....	11	1
Pr 401	Special Studies	....	....	11	....	11	....
Pr 412, 413, 414	Prosthetic Technic & Clinic	22	....	132	66	220	6
Pr 418	Prosthetic Technic	11	....	66	....	77	3
DM 411	Materials	11	....	33	....	44	2
Op 418	Operative Technic Lectures	22	....	....	....	22	2
Op 419	Operative Technic Lab.	....	....	66	....	66	2
*An 419	Gen. Gross Anatomy & Embryology	33	11	99	....	143	6
An 412, 413	Oral Histology	22	....	44	....	66	4
An 411	General Histology	22	....	66	....	88	4
Op 411, 412, 413	Dental Anatomy	22	....	99	....	121	5
Per 414	Oral Hygiene	11	....	....	....	11	1
Per 415, 416	Oral Prophylaxis	....	....	....	22	22	1
BCh 411, 412	Biochemistry	44	....	88	....	132	6
Phy 418	Physiology	11	....	22	....	33	2
Phy 419	Physiology	22	....	33	....	55	3
		297	11	759	96	1,163	51

Second Year

		Clock hours					Credit
		Lec.	Conf.	Lab.	Clinic	Total	hours
Bac 428	Principles of Immunity	11	....	....	....	11	1
DO 315	Civil Defense	....	11	....	....	11	....
DO 322	Journal Club	....	11	....	....	11	....
Phy 428	Growth & Development	11	....	....	....	11	1
Ord 428	Orthodontic Technic	....	....	33	....	33	1
CB 420, 421, 422	Crown & Bridge Technic	....	....	198	....	198	6
Pr 424, 425, 426	Prosthetic Clinic	....	....	....	110	110	3
Op 420	Operative Technic Lectures	11	....	....	....	11	1
Op 421	Operative Technic Lab.	....	....	66	....	66	2
Op 423	Operative Technic Lectures	....	11	....	....	11	1
Op 424	Operative Technic Lab	....	....	44	....	44	2
Op 428	Operative Clinic	....	....	....	33	33	....
An 421	Head & Neck Anatomy	22	....	66	....	88	4
An 422	Neuroanatomy & Physiology	11	....	....	....	11	1
Pth 420, 421, 422	General Pathology	44	11	110	....	165	8
Ro 420, 421, 422	Oral Roentgenology	22	....	11	....	33	3
OS 421	Local Anes. & Exod.	11	....	....	11	22	1
OS 422	Local Anes. & Exod.	....	....	....	22	22	....
OPth 423	Oral Pathology	11	....	22	....	33	2
Per 420	Oral Prophylaxis	....	....	....	11	11	1
Phy 420	Physiology	22	....	66	....	88	5
Phy 429	Physiology of Occlusion	11	....	....	....	11	1
Ped 422	Pedodontics	22	....	....	....	22	2
Ped 429	Pedodontic Technic	....	....	44	....	44	2
OD 429	Oral Diagnosis & Treatment	11	....	....	....	11	1
		209	44	660	187	1,100	49

Third Year‡

		Clock hours					Credit
		Lec.	Conf.	Lab.	Clinic	Total	hours
†Do 332	Journal Club	....	11	....	....	11	....
Ord 433, 434	Orthodontics	22	....	....	....	22	2
Ord 438	Orthodontics (Dem.-Conf.)	....	11	....	....	11	1
Ord 439	Orthodontic Conference	....	11	....	....	11	1
Pr 430	Princ. of Clin. Pros.	11	....	....	....	11	1
CB 431	Princ. of Cr. & Br.	11	....	....	....	11	1
DM 432	Materials	....	33	....	....	33	3
CB 436	Ceramics	11	....	33	....	44	2
Op 437	Root Canal Therapy	11	....	22	....	33	2
Op 430	Prine. of Clin. Op. Dentistry	11	....	....	....	11	1
Ped 431	Pedodontics	11	....	....	....	11	1

* Includes An 401, Special Studies: Embryology.

† Not offered 1958-59 and not included in total clock hours or credit.

‡ In addition to required courses, elective work in applied experimental science is offered for third-year students under one of the departmental Special Studies numbers (401). Laboratory, 22 clock hours; 1 eredit hour.

Third Year (continued)

		Clock hours					Credit
		Lec.	Conf.	Lab.	Clinic	Total	hours
OS 438	Anesthesia	11	11	....	....	22	1
Bac 430	Bacteriology	33	....	66	....	99	6
Ph 430	Caries Prevention	11	....	....	....	11	1
OD 430	Oral Diag. & Treatment	11	....	....	....	11	1
OD 431	Clin. Diagnostic Meth.	....	....	22	....	22	1
*OD 439	Clinical Conference	....	11	....	....	11	1
Nu 435	Nutrition	11	....	....	....	11	1
Med 439	Princ. of Medicine	11	....	....	....	11	1
OS 430, 431, 432	Oral Surgery	33	....	....	22	55	4
Per 439	Periodontology	11	....	....	30	41	2
OPth 434	Oral Pathology	11	....	22	....	33	2
Phc 438, 439	Pharmacology	33	....	22	....	55	4
Pr 633, 634, 635 Op 633, 634, 635 Cp 633, 634, 635 CB 630, 631, 632 Ped 630, 631, 632	Prosth. Cl. Practice Oper. Cl. Practice General Cl. Practice Crn. & Br. Cl. Practice Pedodontic Cl. Practice	....	....	....	388	388	10
Nu 630, 631, 632	Nutrition Clinic	....	....	....	....	....	1
OD 437, 438	Clinical Conference	....	33	....	....	33	3
Ro 630, 631, 632	Oral Roentgenology Clinic	....	....	....	....	....	1
		264	99	187	440	990	54

Fourth Year†

		Clock hours					Credit
		Lec.	Conf.	Lab.	Clinic	Total	hours
DO 441	Dental Econ. & Hist.	11	....	....	....	11	1
DO 445	Dental Ethics & Juris.	11	....	....	....	11	1
DO 407	Seminar	....	11	....	....	11	..
PH 440, 441	Public Health	22	....	....	....	22	2
Pr 440	Princ. of Cl. Prosth.	11	....	....	....	11	1
CB 441	Princ. of Cr. & Br.	11	....	....	....	11	1
Op 440	Princ. of Cl. Op. Dent.	11	....	....	....	11	1
Ped 440	Ped.-Ortho. Conf.	....	11	....	....	11	1
OS 644	Anesthesia Clinic	....	....	....	11	11	1
Med 443, 444, 445	Hospital Clinics	....	....	....	18	18	1
OPth 441	Pathology Conf.	....	11	....	....	11	1
Med 440, 442	Princ. of Medicine	22	....	....	....	22	2
*OS 440	Clinical Surgery	11	....	....	....	11	1
Per 440	Periodontology	11	....	....	....	11	1
Per 640	Perio. Clinic	....	....	....	30	30	1
†An 445	Applied Anatomy	....	11	....	....	11	1
OPth 445	Oral Pathology	11	....	22	....	33	2
Phc 440	Pharmacology	11	....	22	....	33	2
Phc 445	Dent. Materia Medica	11	....	....	....	11	1
Phc 446	Applied Therapeutics	11	....	....	....	11	1
OD 440, 441	Clinical Conference	....	22	....	....	22	1
Pr 643, 644, 645 Op 643, 644, 645 Cp 643, 644, 645 CB 640, 641, 642 Ped 640, 641, 642	Prosth. Cl. Practice Operative Cl. Practice General Cl. Practice Crn. & Br. Cl. Practice Pedodont. Cl. Practice	....	....	....	707	707	20
Ro 640, 641, 642	Roentgenology Cl. Pract.	....	....	....	....	....	1
Nu 640, 641, 642	Nutrition Clinic	....	....	....	....	....	1
		154	55	44	766	1,019	44

* Not offered 1958-59 and not included in total clock hours or credit.

† In addition to required courses, the following elective courses are offered for fourth-year students:

401. Special Studies (applied experimental scienee). 22 clock hours laboratory. 1 credit hour.

DO 401. Special Studies: Psychiatry of the Patient. 11 clock hours lectures. 1 credit hour.

DO 442. Practice Management. 11 clock hours lectures. 1 credit hour.

Ord 401. Special Studies: Cleft Palate Rehabilitation. 11 clock hours lectures. 1 credit hour.

DM 401. Special Studies: Dental Materials. 11 clock hours leetures. 1 credit hour.

Recapitulation

	Clock hours					Credit hours
	Lec.	Conf.	Lab.	Clinic	Total	
First year	297	11	759	96	1,163	51
Second year	209	44	660	187	1,100	49
Third year	264	99	187	440	990	54
Fourth year	154	55	44	766	1,019	44
Total	924	209	1,650	1,489	4,272	198

Graduate Program

GRADUATE WORK leading to the Master of Science degree is offered at the Dental School for students planning careers in dental education and research. Graduate courses in the clinical fields are also open to graduate dentists preparing for practice in the several specialties. Holders of graduate degrees in the basic sciences are allowed one year of credit by some specialty boards toward specialty requirements.

Graduate major programs have been arranged in the fields of anatomy, bacteriology, biochemistry, oral pathology, pedodontics, pharmacology, and physiology. Supplementary courses carrying graduate credit are offered in public health and dental materials.

Admission to Graduate Status

For admission to graduate study, the applicant must hold the B.A. or B.S. degree from an accredited college or university or an acceptable professional degree. He must also have the recommendation by the head of the Dental School department concerned and the approval by the Graduate Committee and the dean of the Dental School. Application forms are available at the office of the Registrar.

Acceptance of admission to graduate status is regarded as a declaration of intent to complete a program of graduate study.

Standards of Performance

Graduate students enrolled in the same courses with undergraduate dental students are graded on exactly the same basis as the dental students, and are expected to perform scholastically at a higher level than the average dental student in the same course; special work, not required of dental students, may be assigned at the discretion of the instructor. No graduate credit is granted for course grades lower than *C*, and the student must maintain a minimum yearly average of *B* to continue registration in the Dental School as a graduate student.

Admission to Candidacy for a Graduate Degree

Admission to graduate status does not in itself entitle a student to become a candidate for a graduate degree. Admission to candidacy is granted only after the student has demonstrated the thoroughness of his preparation and his ability to do work of graduate character.

Admission to candidacy is determined by the Graduate Committee, on the recommendation of the head of the student's major department and after a review of his graduate scholastic record.

Requirements for a Graduate Degree

(1) Residence: Academic residence is established by registration as a graduate student in the Dental School. To qualify for the M.S. degree, the student

must have spent a minimum of three academic terms in residence as a graduate student. Although it is preferable that residence be continuous, it is recognized that interruption may be unavoidable. All work leading to the M.S. degree must be completed within seven years of initial registration.

(2) Duration of Candidacy: A student working for the master's degree must be a candidate for the degree for at least one academic term.

(3) Graduate Record Examination: All graduate students must take this examination either before entrance or within the first term of residence. The examination is given periodically at the several institutions in the Oregon State System of Higher Education and at most colleges and universities in the United States.

(4) Hours of Graduate Work Required:

(a) For the M.S. degree 30 hours of academic credit are required in the major and 15 credit hours in a minor of one or more related fields.

(b) The normal course load registration is 15 hours per term. Graduate students employed as assistants or fellows may not register for more than 12 credit hours per term.

(c) Not more than 15 hours of acceptable graduate credit may be transferred from another institution.

(5) Thesis Requirement: The candidate for the M.S. degree must present a written report of experimental investigations carried out during the course of graduate study. This thesis must be acceptable to the head of the student's major department and to the Graduate Committee. Ordinarily the thesis is a report of experimental work conducted by the student under the close supervision of his major instructor.

(6) Oral Thesis Examination: An oral examination covering the subject of the thesis is required. The examining committee is appointed by the chairman of the Graduate Committee and the head of the department concerned. The examination must take place at least ten days prior to the date of commencement.

(7) Fee Schedule: Graduate students pay the following regular fees:

Tuition	$ 10.00
Laboratory and course fee	36.00
Incidental fee	10.00
Building fee	7.00
Total	$63.00

Graduate students employed as graduate assistants, research assistants, or fellows pay the following regular fees:

Incidental fee	$10.00
Building fee	7.00
Total	$17.00

Description of Courses

Dental Orientation

DO 311. **Dental Orientation.** 1 credit hour fall.

First year. The ideals of the dental profession: its aims, purposes, public and individual responsibilities. The objectives and methods of the dental curriculum. Introduction to the use of the Library and other Dental School facilities. Introduction to dental history, methods of professional study. Groups of four or five students in rotation are scheduled for supervised clinical observation among the several clinics, including the patient examination, X-ray, and treatment planning rooms. During the last half of the term, the student works in the clinic on exercises designed to acquaint him with clinical discipline, operation of the chair, chair positions, and procedures for observation of the oral cavity through the use of the explorer and mirror. Students are paired in these exercises, one serving as patient and the other as observer. Gross dental defects and restorations are recorded on regular clinical forms, and are marked on plaster casts of the upper and lower dental arches of the students participating. Lectures, 11 clock hours; clinical orientation, 4 clock hours. Mr. Batterson, clinical staff, and members of the profession.

DO 312. **Technical Composition.** 2 credit hours winter.

First year. Methods by which dental information is obtained from published sources; evaluation of material; methods of effective expression, with particular reference to the writing of technical notes, laboratory exercises, examinations, and original compositions. Course requirements include the writing of a 2,500-word technical paper, the topic for which is chosen from among the fields of dental history, dental science, technic, diagnosis and clinical practice. The final steps in the organization and composition of the paper are done in conference with the instructor and with other course instructors in departments to which the paper's topic is related. Lectures, 11 clock hours; lectures supplemented by Journal Club, second and third years, 22 clock hours. Mr. Batterson, staff.

DO 313. **Dental Orientation.** No credit, winter.

First year. Groups of three or four students are assigned in rotation for observation of and assistance to upper-class students in the examination rooms of the several clinics. First-year students record dental defects on clinical charts and observe case-history taking diagnostic procedures, and planning of treatment. Clinical orientation, 4 clock hours. Clinical staff, Mr. Batterson.

DO 314. **Dental History.** 1 credit hour winter.

First year. A historical perspective of salient developments in dental and medical progress that have relevance for interpreting contemporary professional objectives and action. Stress is laid on the professional, social, scientific, and political-economic relations of the profession. The student, in addition to text and periodical literature reading, is required to write a 2,000-word historical review of a selected topic, including comparisons with notable present-day developments and trends. Lectures, 11 clock hours; supplemented by student-instructor workshop conferences. Mr. Batterson, staff.

DO 322. **Journal Club.** No credit.

Second year. Presentation of papers on scientific, technical, and clinical topics in dentistry, using journal articles as basic source material; critical discussion. The class is conducted as a study-club meeting, with the students assuming major responsibility for choice of topics, arrangements of the program, and discussion. Members of the professions outside of the Dental School regularly participate. Conference, 11 clock hours. Mr. Batterson, staff.

DO 332. **Journal Club.** No credit.

Third year. Continuation of DO 322, with greater emphasis on clinical topics. Conference, 11 clock hours. Mr. Batterson, staff. Not offered 1958-59.

DO 401. **Special Studies.** Credit to be arranged.

DO 401. **Special Studies: Civil Defense.** Credits to be arranged, spring.

Second year. Practical civil defense against regular and atomic warfare and for disaster relief. First-aid procedures for dental personnel, including treatment of shock, wounds, bleeding, fractures, and burns. Demonstration and practice of bandaging and dressing, and of artificial respiration. Blood typing and transfusions. The role of the faculty, students, and civil-service employees in civil-defense first-aid measures for Dental School personnel. Development of skills in venipuncture through the use of the plastic arm. Before graduation fourth-year students must demonstrate ability to perform practical first-aid measures. Lectures and demonstrations, 11 clock hours. Dr. Miller, Mr. Batterson.

DO 401. **Special Studies: Principles of Learning and Instruction.** 1 credit hour spring.

First year. Elective. Guiding principles of learning and education, with implications and applications in dental education. Objectives, principles, and methods of teaching, course building, and evaluation. The vertical curriculum of the University of Oregon Dental School; the lecture, seminar, conference, and demonstration, with consideration of effective use in dental education; special attention to technic and clinical teaching, and to use of visual aids; presentation of dental clinics for professional groups. Classroom tests, measurements, and evaluation devices. Adult-education methods for practicing dentists, with applications to public speaking and the giving of dental health guidance to the patient; use of exhibits and mimeographed guides. Lectures and demonstrations, 11 clock hours. Mr. Batterson, Dental School faculty, resource personnel.

DO 407. **Seminar.** No credit, spring.

Fourth year. Lectures and informal discussions related to topics in dental sociology and economics, designed to assist the student in his adjustment to the practice of dentistry, and to direct his attention to professional and civic responsibilities and opportunities for service. Seminar, 11 clock hours. Guest speakers, Mr. Batterson.

DO 441. **Dental Economics and History.** 1 credit hour spring.

Fourth year. Lectures and conferences to develop critical thinking on contemporary socio-economic trends related to the dental profession, and to develop the ability to evaluate current professional points of view in the light of dental history. Students are given the major responsibility for selection of socio-economic topics and for arranging the conference program. Conference, 11 clock hours. Mr. Batterson, staff, and visiting lecturers.

DO 442. **Practice Management.** 1 credit hour spring.

Fourth year. Elective. Practical consideration of methods and problems associated with operating and maintaining a dental office; fiscal, personnel, and property management. Lectures, 11 clock hours. Mr. Matthias, Mr. Bauer.

DO 445. **Dental Ethics and Jurisprudence.** 1 credit hour fall.

Fourth year. Intended to develop considered judgment on matters relating to dental ethics, and an attitude of responsibility toward moral obligations incurred by members of the dental profession. Phases of law and jurisprudence related to the practice of dentistry. Lectures, 11 clock hours. Mr. Fraser, Mr. Wicks.

DENTAL HYGIENE COURSES

DO 316. **Civil Defense and First Aid.** 2 credit hours winter.

Lectures and demonstrations, 22 clock hours. Mr. Batterson, Red Cross and civil-defense officials, Dental School Civil Defense Committee.

Anatomy

Department Head: Dr. Jump. Professor: Jump. Assistant Professors: Tedford, Setty. Instructors: Holly, Stevens.

An 401. **Special Studies.** Credit to be arranged.

An 401. **Special Studies: Microtechnique.** 1 credit hour spring.

An elective course open to a limited number of students. Instruction and practical laboratory exercises designed to give a basic understanding of the preparation of tissue sections for the purpose of study, diagnosis, and research. Lectures and laboratory, 11 clock hours. Miss Holly.

An 411. **General Histology.** (G) 4 credit hours winter.

First year. The structural elements of tissues and organs considered systematically, with special attention to criteria of normality, in preparation for later courses in pathology. Lectures, 22 clock hours; laboratory, 66 clock hours. Drs. Jump, Setty, Miss Holly, Miss Stevens.

*An 412, 413. **Oral Histology.** 4 credit hours spring.

* An 412 and An 413 both taught in spring term for a total of 4 credit hours.

First year. Histological structure of the hard and soft tissues of the mouth; provides basic understanding essential for work in operative dentistry and oral diagnosis. Special emphasis on modes of development of all oral structures. Individual student projects introduce the student to current dental literature and to basic investigative technics. Lectures, 22 clock hours; laboratory, 44 clock hours. Dr. Jump, Dr. Setty, Miss Holly.

An 415. **Human Genetics.** 1 credit hour spring.

An elective course open to all students. Instruction designed to provide an understanding of the fundamental principles of heredity and their application to the field of dentistry. Lectures and conferences, 11 clock hours. Dr. Setty.

An 419. **General Gross Anatomy and Embryology.** (G) 6 credit hours fall.

First year. General anatomy of the trunk and extremities. Conducted by means of lectures, demonstrations, and dissection of the human body. The systemic and functional approach is emphasized, rather than the traditional regional approach. The sequence presents the fundamental facts about the body on which other preclinical and clinical sciences, such as physiology, biochemistry, pathology, and pharmacology, depend. Lectures, 33 clock hours; laboratory, 99 clock hours. Includes special studies: Embryology (An 401), conferences, 11 clock hours. Drs. Setty, Jump.

An 421. **Head and Neck Anatomy.** (G) 4 credit hours winter.

Second year. Anatomy of the head and neck. Intensive study of the head and neck, from both regional and systemic points of view. Clinical applications stressed. Lectures, 22 clock hours; laboratory, 66 clock hours. Drs. Jump, Setty, Miss Holly, Miss Stevens.

An 422. **Neuroanatomy and Physiology.** 1 credit hour winter.

Second year. Functional classification of nervous activity. Principal fiber tracts of the central nervous system, reflex centers, and morphological structures of the brain studied as a basis for interpreting reflex action and the signs and symptoms of diseases. Lectures and demonstrations, 11 clock hours. Dr. Jump.

An 445. **Applied Anatomy.** 1 credit hour spring.

Fourth year. A topographical review of the applied anatomy of the oral region. Clinical application of anatomical relationships. Student panel presentations are followed by group discussion of the significant anatomical considerations and problems in dental practice and diagnosis. Conference, 11 clock hours. Science and clinical staffs. Not offered 1958-59.

GRADUATE COURSES

An 501. **Research.** Credit to be arranged.

An 503. **Thesis.** Credit to be arranged.

An 505. **Reading and Conference.** Credit to be arranged.

An 511. **Advanced Anatomy.** Credit to be arranged.

Discussion and experience in the basic methods used in anatomical investigation. Detailed study of the nervous system of the head and neck. Other selected problems explored in accordance with special interests of students. Prerequisite: An 411, An 419, An 421 or equivalent; consent of instructor. Drs. Setty and Jump.

DENTAL HYGIENE COURSES

An 211, 212, 213. **Human Biology.** 6, 5, 2 credit hours.

Lectures, 99 clock hours; laboratory, 132 clock hours. Dr. Setty, Miss Holly, Miss Stevens.

Bacteriology

Department Head: DR. SNYDER.* Acting Department Head: MRS. SLAWSON. Professor: SNYDER. Instructors: SLAWSON, BOUFFORD. Lecturer: SEARS. Research Assistant: MACHO.

Bac 401. **Special Studies.** Credit to be arranged.

Bac 428. **Principles of Immunity.** 1 credit hour fall.

Second year. Material dealing with basic concepts of infection and resistance, with accompanying role of hypersensitivity, presented in a series of lectures with demonstrations. Lectures, 11 clock hours. Dr. Snyder.

Bac 430. **Bacteriology.** (G) 6 credit hours fall.

Third year. The principles of bacteriology, with special attention to diseases associated with the mouth. Utilization of the general principles of bacteriology in clinical practice. Laboratory exercises on: methods of pure culture; morphology, physiology, and serology as a basis for classification; problems of sterilization and disinfection; diagnostic procedures ordinarily used by the dentist in practice; representative pathogenic bacteria. Lectures, 33 clock hours; laboratory, 66 clock hours. Dr. Snyder, assistants.

GRADUATE COURSES

Bac 501. **Research.** Credit to be arranged.

Bac 503. **Thesis.** Credit to be arranged.

Bac 505. **Reading and Conference.** Credit to be arranged.

Bac 511. **Advanced Bacteriology.** 5 credit hours.

Application of methods of bacteriology and immunology for the identification of microbiological agents of disease. Special emphasis on the higher bacteria and spirochetes of the oral flora, with some consideration of their metabolism and nutritional requirements. Clock hours of lecture and laboratory to be arranged. Dr. Snyder, research assistants.

DENTAL HYGIENE COURSE

Bac 113. **Bacteriology.** 5 credit hours spring.

Lectures, 22 clock hours; laboratory, 66 clock hours. Mrs. Slawson, Dr. Snyder.

Biochemistry

Department Head: DR. CLAYCOMB. Associate Professor: CLAYCOMB. Assistant Professor: GATEWOOD.

BCh 401. **Special Studies.** Credit to be arranged.

* On sabbatical leave 1957-58.

BCh 411, 412. **Biochemistry.** (G) 3 credit hours each term.

First year. Review of physical and organic chemistry. Enzymes, digestion, absorption of foods, detoxification and putrefaction; components and functions of blood, mechanism of coagulation, oxygen and carbon-dioxide transport, acid-base balance, water balance; vitamins, hormones and their role in intermediary metabolism; energy and tissue metabolism, including biological oxidation and reduction, muscle metabolism, anaerobic and aerobic carbohydrate metabolism with the integration of lipids and proteins. Lectures, 44 clock hours; laboratory, 88 clock hours. Dr. Claycomb, Mr. Gatewood.

GRADUATE COURSES

BCh 501. **Research.** Credit to be arranged.

BCh 503. **Thesis.** Credit to be arranged.

BCh 505. **Reading and Conference.** Credit to be arranged.

BCh 511. **Advanced Biochemistry.** Credit to be arranged.

Designed to illustrate the role of hormones and trace elements in intermediary and hard tissue metabolism, including selected methods of analysis with special reference to use and application of radioactive isotopic tracers. Prerequisite: BCh 411, 412. Dr. Claycomb, Mr. Gatewood.

DENTAL HYGIENE COURSES

Ch 111, 112, 113. **Chemistry.** 4, 4, 3 credit hours.

Lectures, 99 clock hours; laboratory, 66 clock hours. Dr. Claycomb, Mr. Gatewood.

Crown and Bridge

Department Head: DR. WILSON. Professor: WILSON. Associate Professor: LANG. Associate: BARTELS. Assistant Professor: LUNDEEN. Instructors: MOOREHEAD, PRUITT. Clinical Assistants: JORDAN, KELLY, PETERSON.

CB 401. **Special Studies.** Credit to be arranged.

CB 420, 421, 422. **Crown and Bridge Technic.** 2 credit hours each term.

Second year. Crown and bridge prosthesis. Lectures, demonstrations, and laboratory procedures for fixed restorations; project assignments cover the principles of various types of replacements and their relation to biological needs. Laboratory, 198 clock hours. Drs. Lang, Lundeen, Moorehead, Pruitt.

CB 431. **Principles of Crown and Bridge.** 1 credit hour fall.

Third year. Clinical problems met in third-year crown and bridge clinical practice. Lectures and demonstrations, 11 clock hours. Dr. Wilson.

CB 436. **Ceramics.** 2 credit hours winter.

Third year. Construction of jacket crowns and porcelain inlays. The student completes all procedures except the making of the tooth preparation in the mouth. Lectures, 11 clock hours; laboratory, 33 clock hours. Drs. Bartels, Pruitt.

CB 441. **Principles of Crown and Bridge.** 1 credit hour winter.

Fourth year. Correlated with fourth-year clinical operative problems. Lectures and demonstrations, 11 clock hours. Dr. Wilson.

CB 630, 631, 632. **Crown and Bridge Clinical Practice.** Credit to be arranged.

Third year. Clinical practice of crown and bridge prosthesis, supplemented by lectures and demonstrations in difficult technics. Drs. Wilson, Jordan, Kelly.

CB 640, 641, 642. **Crown and Bridge Clinical Practice.** Credit to be arranged.

Fourth year. Continuation of CB 630, 631, 632, with emphasis on full-mouth rehabilitation. Drs. Lang, Lundeen, Moorehead, Wilson.

Dental Materials

Department Head: DR. MAHLER. Assistant Professor: MAHLER. Instructors: ARMEN, G. MILLER. Research Assistant: ELDER.

DM 401. **Special Studies: Dental Materials.** Credit to be arranged.

Fourth year. An elective course. Discussion of materials and technics not presented in the dental curriculum. Lectures and conferences, 11 clock hours. Dr. Mahler.

DM 411. **Dental Materials.** (G) 1 credit hour fall.

First year. Review of the fundamental nature of matter. Physical properties of materials; clinical considerations. Gypsum products, impression materials, synthetic resins, and dental cements. Lectures, 11 clock hours. Dr. Mahler.

DM 412. **Dental Materials.** (G) 2 credit hours fall.

First year. Introduction to dental materials with particular emphasis on their use in clinical dentistry and instruction in correct manipulative procedures. Gypsum materials, impression materials, cements and amalgam. Lectures, 11 clock hours; laboratory, 33 clock hours. Dr. Mahler.

DM 432. **Dental Materials.** (G) 3 credit hours spring.

Third year. Designed to present the fundamental nature and physical properties of dental materials, and their significance in clinical practice; evaluation of manipulative procedures and technics for achievement of optimum results; problems and limitations associated with the use of these materials. Lectures, 33 clock hours. Dr. Mahler.

GRADUATE COURSE

DM 511. **Advanced Dental Materials.** 2 credit hours.

Designed for graduate students in other departments. Fundamental mechanisms and theories behind the behavior of dental materials discussed on an advanced level. Evaluation of more recent research findings in dental materials. Emphasis on topics pertinent to the fields of the students enrolled in the course. Prerequisite: DM 432 or equivalent. Lectures and conferences, 22 clock hours. Dr. Mahler.

DENTAL HYGIENE COURSE

DM 232. **Dental Materials.** 2 credit hours spring.

Lecture, 11 clock hours; laboratory, 22 clock hours. Dr. Mahler.

General Clinic Practice

In Charge of General Clinic: DR. BENDER. Associate Professors: BENDER, FRY.

CP 633, 634, 635. **General Clinic Practice.** Credit to be arranged.

Third year. Provides clinical experience in the comprehensive treatment of oral disease. The student's general clinic patient and departmental assignment is so coordinated that the student is responsible for complete dental health care of a patient. The student may be referred from one department to another to assure continuity and correlation of the patient's diagnosis and treatment plan. Necessary interclinic and departmental records of service completed and work in progress, as well as of student-patient scheduling, are maintained. Students receive unit and hour credit in the individual clinics in which different dental health services are performed. The entire oral health problem of each patient is determined by examination, laboratory aids, and interdepartmental consultation. A treatment program is prepared and, after approval, executed by the student under supervision. Treatment and observation of the patient continues to be the responsibility of the student until graduation. Dr. Bender, department heads, and staff

CP 643, 644, 645. **General Clinical Practice.** Credit to be arranged.

Fourth year. For description, see CP 633, 634, 635. Dr. Bender, department heads, and staff.

General Pathology

Acting Department Head: DR. MINCKLER. Professor: MINCKLER. Clinical Associates: BEEMAN, LIUM, STRAUMFJORD. Instructor: BRUNNER.

Pth 401. **Special Studies.** Credit to be arranged.

Pth 420, 421, 422. **General Pathology.** (G) 4, 3, 1 credit hours.

Second year. Introduction to general pathological principles based on the reaction of tissues to injury. Examination of gross and microscopic changes in tissues. Students attend autopsies and prepare protocols for presentation to the class; during the last term autopsy conferences are held each week, at which students in groups report the cases observed. Systemic pathology reviewed through a weekly lecture and 3-hour laboratory period. Throughout the course, the student practices descriptive technic, observes the preparation of slides on his own cases, and takes part in preparing a photographic display of pertinent material from his cases. Lectures, 44 clock hours; conference, 11 clock hours; laboratory, 110 clock hours. Drs. Minckler, Beeman, Lium, Miss Brunner,.

Nutrition

Assistant Professor: KLIER. Instructor: GOOD

Nu 401. **Special Studies.** Credit to be arranged.

Nu 435. **Nutrition.** 1 credit hour fall.

Third year. Clinical application of principles of nutrition to dentistry for children; relation of diet to oral health, caries incidence, and general health. The principles of nutrition are applied throughout clinic practice. Lectures, 11 clock hours. Mrs. Klier and visiting faculty lecturers.

Nu 630, 631, 632. **Nutrition Clinic.** 1 credit hour total.

Nu 640, 641, 642. **Nutrition Clinic.** 1 credit hour total.

Third and fourth years. Clinical application of the principles of nutrition to dentistry. The cooperation of departments of Pedodontics, Prosthetics, Orthodontics, Periodontology, and Oral Surgery is enlisted to resolve nutritional problems in diagnosis and treatment. Mrs. Klier, Mrs. Good.

DENTAL HYGIENE COURSE

Nu 220. **Nutrition.** 3 credit hours fall.

Lectures, conferences and menu planning. 33 clock hours. Mrs. Good.

Operative Dentistry

Department Head: DR. CANTWELL. Professor: CANTWELL. Associate Professor: TERKLA. Associates: DAVIS, RYAN. Assistant Professor: WATKINS. Instructors: APLIN, CONNOR, QUINN, VOIGT, WAGONER, WONG. Clinical Assistants: W. B. JOHNSON, MANNY, MURPHY, SKILLERN, DESTOPPELAAR.

Op 401. **Special Studies.** Credit to be arranged.

Op 411, 412, 413. **Dental Anatomy.** 2, 2, 1 credit hours.

First year. Designed to teach, in minute detail, the morphology of all the permanent teeth. The student makes drawings and carves teeth in wax or plaster, using extracted teeth and plaster models as guides. The student also restores the teeth in whole or in part on articulated models, with attention to occlusal forces and functional contours which are important in the construction of restorations of the teeth in the mouth. Consideration given to the primary teeth during the spring term. Lectures, 22 clock hours; laboratory, 99 clock hours. Drs. W. B. Johnson, De Stoppelaar.

Op 418. **Operative Technic Lectures.** 2 credit hours spring.

First year. Introduction to operative dentistry; classification and nomenclature of cavity preparation; principles of cavity preparation and design in relation to the histological structure of the teeth, caries-immune areas, and occlusal forces; composition, properties, uses, and manipulation of filling materials; investing and casting technics. Lectures, 22 clock hours. Dr. Terkla.

Op 419. **Operative Technic Laboratory.** 2 credit hours spring.

First year. After familiarization with the cutting instruments, the student prepares each type of cavity first in a plaster tooth and then in an extracted human tooth. All preparations in extracted teeth are filled with the appropriate material, which may include cohesive gold foil, silver amalgam, inlay gold, silicate cement, zinc phosphate cement, or self-curing resin. All preparations are completed within established time limits. Laboratory, 66 clock hours. Drs. Terkla, Ryan, Murphy, Connor, Watkins.

Op 420. **Operative Technic Lectures.** 1 credit hour fall.

Second year. A continuation of restorative principles and procedures begun in the first year; relationships of dental anatomy to restorative procedures; use of reversible hydrocolloids in the indirect technic of making gold castings; principles in the restoration of broken-down teeth; principles of the invisible gold-foil preparations. Lectures, 11 clock hours. Dr. Terkla.

Op 421. **Operative Technic Laboratory.** 2 credit hours fall.

Second year. The student continues to prepare cavities and employ all restorative materials. Cavity preparations are more detailed than in the first year, and are performed entirely in extracted human teeth mounted in the jaws of a manikin; the use of the mouth mirror and imitation of actual patient conditions are stressed; all preparations, insertions, and finishes are performed in limited time periods. Laboratory, 66 clock hours. Drs. Terkla, Ryan.

Op 423. **Operative Technic Lectures.** 1 credit hour winter.

Second year. Introduction to the use of the rubber dam in operative dentistry, including a motion picture and demonstrations on rubber-dam applications; the order of permanence and comparison of the qualities of all filling materials; factors governing the choice of restorative materials; the treatment of the pulp; clinic orientation; chair positions; patient handling; pain control. Lectures, 11 clock hours. Dr. Terkla.

Op 424. **Operative Technic Laboratory.** 2 credit hours winter.

Second year. The student continues to prepare and fill cavities on extracted human teeth mounted in the jaws of a manikin; the technics of pulp treatments are performed; extensive restorations are fabricated. All work is performed under the rubber dam in limited time periods. Laboratory, 44 clock hours. Drs. Terkla, Connor, Ryan.

Op 428. **Operative Clinic.** No credit spring.

Second year. Introduction to clinical routine. The student applies the rubber dam on a fellow student for two clinical periods. He then receives his first patient and, after completing the history, diagnosis, and treatment plan, begins restorative procedures. The student is in charge of the administration of local anesthetic to his patient, and may perform any operation designated on the treatment plan. Clinic, 33 clock hours. Drs. Terkla, Skillern, Wagoner, Voigt.

Op 430. **Principles of Clinical Operative Dentistry.** 1 credit hour spring.

Third year. Review of the basic principles of operative dentistry and their specific application in the junior operative clinic. Review of technical procedures. Discussion of some of the findings reported in the current literature. Lectures and conferences, 11 clock hours. Dr. Cantwell.

Op 437. **Root Canal Therapy.** 2 credit hours winter.

Third year. Disease of dental pulp and periapical tissues; principles of prevention and treatment. Emphasis on the value of preservation of strategic teeth with diseased pulp; methods of preservation of the teeth without detriment to the patient's health. Lectures, 11 clock hours; laboratory, 22 clock hours. Dr. Watkins.

Op 440. **Principles of Clinical Operative Dentistry.** 1 credit hour winter.

Fourth year. Discussion of current clinical problems which arise in the senior operative clinic. New technics; discussion of findings reported in the current literature. Review of basic principles and some of the more difficult technical procedures. Lectures and conferences, 11 clock hours. Dr. Cantwell.

Op 633, 634, 635. **Operative Clinical Practice.** Credit to be arranged.

Third year. Clinical application of the principles and technics taught in the operative technic courses. The student completes the diagnosis and the treatment plan for an assigned patient. The treatment plan is checked by the section instructor before any operative procedures are started. The student conducts his practice in a manner similar to that of a graduate practitioner, under the guidance and control of the section instructor. It is the student's responsibility to make and keep appointments with the patients. Each student must complete a minimum number of operations, of an acceptable quality. He must conduct himself and deal with patients on a high professional level. Drs. Cantwell, Terkla, Skillern, Voigt, Wagoner.

Op 643, 644, 645. **Operative Clinical Practice.** Credit to be arranged.

Fourth year. A continuation of Op 633, 634, 635. Clinical demonstrations are arranged for the students during the fall term. Emphasis on the students' ability to produce a creditable operation in a reasonable length of time. A series of practical examinations given during the spring term, the student places a specific restoration with which he receives no advice nor help from an instructor. The tests have a specific time limitation and the finished restoration must be of an acceptable quality. Drs. Cantwell, Connor, Davis, Aplin, Quinn, Watkins.

DENTAL HYGIENE COURSE

Op 112. **Dental Anatomy.** 4 credit hours fall.

Lectures, 22 clock hours; laboratory, 66 clock hours. Dr. Strange.

Oral Diagnosis

Department Head: DR. FRY. Professors: D. J. ANDERSON, CANTWELL, EVERETT, FIXOTT, JR., JUMP, MILLER, PHATAK, SNYDER, SWENSON, WILSON. Associate Professors: BENDER, FRY, LANG, PORTER, RICKLES. Associates: BRANDON, HOLDER, NEELY. Assistant Professors: CARLSON, CLIFFORD, KLIER, STOUT, WATKINS. Instructors: APLIN, GOOD, MOOREHEAD, TEUSCHER. Clinical Assistants: J. ANDERSON, POPE.

OD 401. **Special Studies.** Credit to be arranged.

OD 429. **Oral Diagnosis and Treatment.** 1 credit hour spring.

Second year. Case histories, detailed clinical examination, use of laboratory diagnostic aids. As class preparation, students are assigned to observe diagnostic and treatment planning procedures in the diagnostic clinic. They participate by assisting with patient charting and by listening to the recording discussions of case history factors in question. Lectures, 11 clock hours. Drs. Fry, Bender.

OD 430. **Oral Diagnosis and Treatment.** 1 credit hour fall.

Third year. Pain of dental origin; application of applied therapy and therapeutic technics to the treatment of oral disease. Lectures, 11 clock hours. Drs. Fry, Bender.

OD 431. **Clinical Diagnostic Methods.** 1 credit hour winter.

Third year. The analysis and interpretation of clinical laboratory tests as an aid in differential, oral, and systemic diagnosis. Lectures, supplemented by clinical applications, 22 clock hours. Drs. Minckler, Snyder, Bender, Fry.

OD 437. **Clinical Conference.** 1 credit hour winter.

Third year. Through independent study, the student prepares a comprehensive case history—diagnosis and treatment materials, illustrative models,

and a written report in preparation for presentation of the complete analysis in OD 438 in winter term. Student preparation, 11 clock hours. Drs. Fry, Bender, staff.

OD 438. **Clinical Conference.** 2 credit hours spring.

Third year. Students present complete case-history factors for selected diagnosis and treatment problems. On the basis of the presentation, the class constructs a diagnosis and treatment plan that will assure the patient effective and complete dental health service. The student presenting the clinical case history must justify the reason for arriving at a given treatment plan. The student provides a written case history, plaster models, radiograms, and other aids to diagnosis and treatment planning. Clinical conferences and demonstrations, 22 clock hours. Drs. Fry, Bender, staff.

OD 439. **Clinical Conference.** 1 credit hour spring.

Third year. Student-faculty clinical conferences concerning patient case histories chosen for their teaching value. Conference, 11 clock hours. Drs. Fry, Bender, staff.

OD 440. **Clinical Conference.** No credit, fall.

Fourth year. Through independent study, the student prepares a comprehensive case history—diagnosis and treatment materials, illustrative models, and a written report in preparation for presentation of the complete analysis in OD 441 in the winter term. Student preparation, 11 clock hours. Drs. Fry, Bender, staff.

OD 441. **Clinical Conference.** 1 credit hour winter.

Fourth year. The student assumes the responsibility to present a comprehensive case-history analysis before the class, departmental faculty, and visiting consultants. The student first presents the case-history factors which are pertinent to arriving at a complete diagnosis and treatment plan. The class and faculty consultants then correlate and evaluate the case-history factors and their validity for a successful plan of treatment. The student who originally presented the case-history factors now explains the treatment plan he had constructed in his original work up of the case. The faculty and consultants provide a final constructive criticism of the student's plan for treatment. Conference, 11 clock hours. Drs. Fry, Bender, clinical and science staffs, visiting consultants.

Oral Pathology

Department Head: DR. RICKLES. Associate Professor: RICKLES. Associates: HART, JACOBSON, M. JOHNSON, LOSLI, NELSON, SIDDOWAY. Instructor: HOLLY.

OPth 401. **Special Studies.** Credit to be arranged.

OPth 423. **Oral Pathology.** (G) 2 credit hours spring.

Second year. Study of anomalies in the shape and number of teeth, discolorations and stains of the teeth, enamel hypoplasia, regressive changes in dentin and pulp. The pathology of dental caries, pulp disease, and periapical lesions. Laboratory work consists of observation and description of gross and microscopic evidence of these processes. Lectures, 11 clock hours; laboratory, 22 clock hours. Dr. Rickles, staff.

OPth 434. **Oral Pathology.** (G) 2 credit hours fall.

Third year. Study of tooth resorption, the pathology of periodontal disease, impactions, tooth fracture, healing of extraction wounds, and superficial lesions of the oral mucosa. Laboratory work consists of observation and description of histopathological material illustrating the subjects covered in the lectures. Lectures, 11 clock hours; laboratory, 22 clock hours. Dr. Rickles, staff.

OPth 441. **Oral Pathology Conference.** 1 credit hour spring.

Fourth year. Consideration of differential diagnosis of oral lesions. The significance of biopsy and other diagnostic methods. Presentation of cases and

procedures in diagnosis. Considerations of pathological principles in therapeutics; an integration of pathological principles in relation to the mouth. The role of the dentist in the cancer detection and education program. The course requirements include a case history, pathological description, and discussion of a pathological entity. The student is given a full year to complete the requirement. Conference, 11 clock hours. Drs. Rickles, Jacobson, Losli, oral pathology and clinical staff.

OPth 445. **Oral Pathology.** (G) 2 credit hours winter.

Fourth year. Study of odontogenic tumors and cysts, oral lesions of specific and nonspecific etiology, benign and malignant oral and facial tumors. Laboratory work consists of study of histopathological materials illustrating the conditions discussed in the lectures. Lectures, 11 clock hours; laboratory, 22 clock hours. Dr. Rickles, staff.

GRADUATE COURSES

OPth 501. **Research.** Credit to be arranged.

OPth 503. **Thesis.** Credit to be arranged.

OPth 505. **Reading and Conference.** Credit to be arranged.

OPth 511, 512, 513. **Advanced Oral Pathology.** Credit to be arranged.

Designed to elucidate in specific detail the basic pathological processes, with special reference to inflammation degeneration and neoplasia. Evaluation of original work pertaining to these subjects is stressed. Practical application of principles by correlations of histological slides with the clinical manifestations of various lesions. Prerequisites: OPth 423, 434, 445; Pth 420, 421, 422 or equivalent; or consent of Oral Pathology Department. Dr. Rickles, staff.

DENTAL HYGIENE COURSES

OPth 321. **Pathology.** 2 credit hours fall.

Lectures, 22 clock hours. Dr. Rickles and Oral Pathology staff.

OPth 322. **Pathology.** 2 credit hours winter.

Lectures, 22 clock hours. Dr. Rickles and Oral Pathology staff.

Oral Roentgenology

Department Head: Dr. Fixott, Jr. Professor: Fixott, Jr. Associate: Neely

Ro 401. **Special Studies.** Credit to be arranged.

Ro 420, 421. **Oral Roentgenology.** 1 credit hour each term, fall and winter.

Second year. Physical principles involved in the production of Roentgen rays. Technic of making radiographs of the teeth and oral cavity. Processing, interpretation, and care of films. Diagnostic and therapeutic applications of radiology in dentistry. Lecture and demonstration, 22 clock hours. Drs. Fixott, Neely.

Ro 422. **Oral Roentgenology.** 1 credit hour spring.

Second year. Clinical application of radiodontology. Clinic, 11 clock hours. Drs. Fixott, Neely.

Ro 630, 631, 632. **Oral Roentgenology Clinic.** 1 credit hour total.

Third year. Roentgenology staff.

Ro 640, 641, 642. **Oral Roentgenology Clinic.** Total of 1 credit hour for three terms.

Fourth year. Roentgenology clinic staff.

DENTAL HYGIENE COURSES

Ro 320, 321, 322. **Oral Roentgenology.** 2, 2, 1 credit hours.

Lectures, 22 clock hours; laboratory, 22 clock hours; clinic, 66 clock hours. Drs. Fixott, Neely.

Oral Surgery

Head of Local Anesthesia and Exodontia Clinic: DR. MILLER. Professor: MILLER. Associate: BRANDON. Assistant Professor: MULLER. Instructors: CASE, JENSEN, SCULLY.

OS 401. **Special Studies.** Credit to be arranged.

OS 421. **Local Anesthesia and Exodontia.** 1 credit hour spring.

Second year. Obtaining and evaluating the case history of the patient; consultation with the physician; obtaining necessary laboratory tests; analysis of the patient's individual problem; determination of the anesthetic risk and selection of local and general anesthetic for the case; use of premedication; choice and use of instruments; sterile technic; various injections in local anesthesia and exodontic operations; technic of tooth removal; postoperative treatment. Lectures, demonstrations and clinical practice, 22 clock hours. Drs. Miller, Brandon, Muller, Jensen, Miss Scully.

OS 422. **Local Anesthesia and Exodontia: Clinical Observation.** Credit to be arranged.

Second year. 22 clock hours.

OS 430, 431, 432. **Oral Surgery.** 1, 2, 1 credit hours.

Third year. Fundamental principles of oral surgery, and the application of these principles to the practice of dentistry. Instruction in the diagnosis of surgical disorders found in the oral cavity and in the treatment of these conditions. Lectures and demonstrations, 33 clock hours; clinic, 22 clock hours minimum (additional hours by arrangement). Drs. Brandon, Miller, Alford, Mrs. Case, Miss Scully.

OS 438. **General Anesthesia.** 1 credit hour winter.

Third year. History of anesthesia. Agents employed, including nitrous oxide and oxygen, ethyl chloride, and their physiological action; stages of anesthesia. Principles governing the selection of anesthetics for children and adults. Methods of administration. Indications and contra-indications; care of patients, before and after anesthesia. Practice in administration of general anesthesia. Theory and practical demonstration of all recent developments in anesthetic agents and methods. Lectures and demonstrations, 22 clock hours. Mrs. Case, Dr. Miller.

OS 440. **Clinical Surgery.** 1 credit hour fall.

Fourth year. Procedures in maxillofacial surgery. Lectures, 11 clock hours. Not offered 1958-59.

OS 644. **Anesthesia Clinic.** 1 credit hour fall.

Fourth year. Advanced lecture-demonstrations in general anesthesia, including anaesthol, sodium pentothal, vinethene trilene, and curare. Simultaneous student application of these procedures in the oral surgery clinic, through clinical observation of general anesthesia applied to exodontia. The student is a member of the surgical team which administers general anesthetics and operates; practical application of all new equipment by students. Lectures and demonstrations, 11 clock hours, accompanied by clinical application. Mrs. Case, Drs. Miller, Muller, Alford, Jensen.

Orthodontics

Department Head: DR. CARLSON. Professor: NOYES. Associates: R. ANDERSON, KLEIN, MATTHEWS. Assistant Professor: CARLSON. Clinical Assistant: J. ANDERSON.

Ord 401. **Special Studies.** Credit to be arranged.

Ord 401. **Special Studies: Cleft Palate Rehabilitation.** 1 credit hour fall.

Fourth year. Elective. Lectures by specialists in the fields of orthodontics, otolaryngology, pediatrics, pedodontics, plastic surgery, prosthodontics, psy-

chiatry, and speech pathology, providing a cooperative diagnosis and treatment for children with cleft palates. The dental student observes comprehensive treatment of cleft palate conditions and the services of the various specialists in dentistry and medicine during the procedures for the complete rehabilitation of a cleft palate handicapped patient. Upon completeion of the course, a senior student may provide treatment for one of these patients by making a prosthetic appliance or assisting in the placement of an orthodontic appliance. Lectures, 11 clock hours. Drs. R. Anderson, Carlson.

Ord 428. **Orthodontics.** 1 credit hour winter.

Second year. Laboratory training in technics, including impression taking, model preparation, freehand soldering, wire bending, band forming, and construction of simple appliances. Laboratory, 33 clock hours. Drs. Carlson, Klein, R. Anderson.

Ord 433, 434. **Orthodontics.** 1 credit hour each term, fall and winter.

Third year. Etiology; classification of malocclusions; indications for and time of initiation of treatment; tissue changes incident to tooth movement; the nature of tooth movement. Nature and mechanism of tooth-moving appliances and orthodontic retention. Prognosis. Lectures, 22 clock hours. Drs. Noyes, Carlson.

Ord 438. **Orthodontics.** 1 credit hour winter.

Third year. A demonstration course, conducted with groups of between ten and twenty students. Principles developed in Phy 428, Phy 429, and Ord 433, 434 are illustrated. Diagnostic methods and case analyses; treatment and retention planning and prognoses. Demonstrations, 11 clock hours. Drs. Carlson, Klein, J. Anderson.

Ord 439. **Orthodontic Conference.** 1 credit hour spring.

Third year. The class sections in Ord 438 continue under the same instructor. Paired students prepare and present an orthodontic case for discussion following the principles demonstrated in earlier courses. Conferences, 11 clock hours. Drs. Carlson, Klein, J. Anderson, Matthews.

Pedodontics

Department Head: DR. PORTER. Associate Professor: PORTER. Associate: SUHER. Instructor: PAULSON. Clinical Assistants: COGAN, OVER.

Ped 401. **Special Studies.** Credit to be arranged.

Ped 422. **Pedodontics.** 1 credit hour winter and spring.

Second year. Didactic and technical phases of dentistry for children in general dental practice. Physical growth and development of children. Lectures, 22 clock hours. Drs. Paulson, Porter, guest lecturers.

Ped 429. **Pedodontics.** 2 credit hours spring.

Second year. Laboratory application of principles presented in Ped 422 and the performance of technical procedures in preparation for clinical application. Laboratory, 44 clock hours. Drs. Porter, Paulson, Cogan.

Ped 431. **Pedodontics.** 1 credit hour winter.

Third year. Consideration of psychological growth and development and their clinical applications. Advanced principles of clinical dentistry for children. Special emphasis of diagnosis, treatment planning, prosthetic appliances, and the interception of malocclusion. Lectures, 11 clock hours. Drs. Porter, Paulson.

Ped 440. **Pedodontic-Orthodontic Conference.** 1 credit hour fall.

Fourth year. Through the media of small group conferences (ten to twenty students), consideration is given problems arising in pedodontic practice. Discussion of pertinent literature and student clinical problems. Pedodontic and Orthodontic staff.

Ped 630, 631, 632. **Pedodontic Clinical Practice.** Credit to be arranged. Third year.

Ped 640, 641, 642. **Pedodontic Clinical Practice.** Credit to be arranged. Fourth year.

Graduate Program in Pedodontics

The graduate program in pedodontics is designed to provide training for competence in the administration of complete remedial and therapeutic care for the child—so that normal growth and development of the dento-facial complex may be expressed. The program includes study of treatment for the chronically ill and for the mentally and physically handicapped child, whose dental care is so inaccessible today. The student receives instruction in the professional aspects of the pedodontics specialty in preparation for teaching. Emphasis is placed on the evaluation of scientific methodology, to encourage the student to contribute to the advancement of his profession through the critical interpretation of new knowledge.

The graduate student's 30-credit-hour major is satisfied by required courses supplemented by electives selected in consultation with the departmental staff. The courses are designed to qualify the graduate to evaluate objectively the principles involved in the child's oral and general health, as well as to perform capably as a diagnostician and clinician in the specialized field of dentistry for children.

The approach is through conferences and seminars, with discussions emphasizing correlations with allied fields, evaluation and diagnostic methods, and rationalization of treatment principles. The conferences are supported by laboratory and clinical programs to provide application of this knowledge.

The graduate student participates in hospital rounds and conferences to integrate the principles of medicine with the complete dental care of the child and to gain experience in the performance of services for the hospitalized patient. The student also participates in the team approach utilized in the care of the cleft palate child. Problems of the cerebral palsied, the paralytic, the mentally retarded, and other handicapped children are evaluated in terms of the needs of these children.

The student's minor (15 credit hours) is taken in graduate courses offered by the basic science departments of the Dental School or graduate-credit courses offered by the Medical School and the Portland State Extension Center. Certain of these courses are required for the M.S. degree in pedodontics, such as anatomy, statistics, dental materials, and oral pathology. Others may be elected.

All candidates must submit a thesis, which must be accepted before the degree is awarded. The thesis, based upon original investigative work, is directed by two advisers associated with the fields of investigation.

A final oral examination is conducted by the faculty of the Department of Pedodontics and other qualified guest examiners, selected by the head of the department.

GRADUATE COURSES

Ped 501. **Research.** Credit to be arranged.

Ped 503. **Thesis.** Credit to be arranged.

Ped 505. **Reading and Conference.** Credit to be arranged.

Ped 507. **Seminar.** Credit to be arranged.

Ped 511, 512, 513. **Advanced Pedodontics Practice.** Credit to be arranged (maximum, 9 hours).

Application of treatment principles discussed in conferences and seminars in relation to diagnosis and direction of complete oral health. Rehabilitation

of oral health for preschool, cleft palate, and handicapped ambulatory children emphasized. Clinical application of advanced operative, interceptive orthodontics, endodontic, surgical, and prosthetic procedures. Nutritional and preventive aspects of child care.

Ped 514. **Hospital Inservice Practice.** Credit to be arranged (maximum 4 hours).

Designed to permit the student to become familiar with hospital procedures and the problems associated with care of the debilitated child. The student participates in ward rounds of pediatric patients and in conferences concerning these patients, administers to the dental needs of the patients, and works with the hospital anesthesiology staff where necessary.

Periodontology

Department Head: DR. EVERETT. Professor: EVERETT. Associates: GRAY, HOLDER, PASSMORE, POTTER, THOMPSON, TUCHLER. Assistant: WILLIAMS.

Per 401. **Special Studies.** Credit to be arranged.

Special studies and seminar involving research and advanced clinical course work for students who show special interest. Elective.

Per 414. **Oral Hygiene.** 1 credit hour winter.

First year. Principles and methods of mouth hygiene and prophylaxis. Foreign deposits on the teeth, calculus, plaques and stains, and their removal. Toothbrushes and toothbrushing methods, dentrifices, mouthwashes. Orientation of the student to clinical applications of oral hygiene. Lectures and demonstrations, 11 clock hours. Drs. Everett, Holder, Potter, Williams, Passmore, Gray, Thompson.

Per 415, 416. **Oral Prophylaxis.** 1 credit hour each term, winter and spring.

First year. Orientation to clinical practice through application of prophylactic principles in the clinic. Patient management, measures effective in prevention of oral disease, use and care of instruments, development of manual dexterity. The student observes oral abnormalities and diseases, such as the periodontoclasia, caries, lesions, and other hard- and soft-tissue changes affecting the oral hygiene of the patient. Clinic, 22 clock hours. Drs. Everett, Holder, Potter, Williams, Passmore, Gray, Thompson.

Per 420. **Oral Prophylaxis.** 1 credit hour fall.

Second year. Advanced oral prophylaxis clinic. Clinic, 11 clock hours. Drs. Everett, Holder, Potter, Williams, Passmore, Gray, Thompson.

Per 439, 440. **Periodontology.** 2, 1 credit hours, spring and fall.

Third and fourth years. Review of the histology of the periodontal tissues. The taking of a correct case history. Etiology, prevention, diagnosis, and treatment of periodontal diseases. In the diagnostic phase, the value of clinical observation, interpretation of roentgenograms, study models, smears, biopsies, and nutritional studies are shown in appropriate cases. In the treatment phase instrumentation is stressed, as are demonstrations of methods of improving occlusion, and of gingival surgery and splinting. Contouring of individual dental restorations in the prevention and treatment of periodontal disease, with consideration of gingival margins, contouring, contacts, and occlusion. The place of fixed and removable partial appliances in periodontal therapeutics. Methods of home care. Clinical application of the principles of periodontology in the prevention and treatment of periodontal disease. Lectures, 22 clock hours; clinic, 30 clock hours. Drs. Everett, Holder, Potter, Williams, Passmore, Gray, Thompson.

Per 640. **Periodontology Clinic.** 1 credit hour fall and winter.

Fourth year. The student continues to care for the patients with periodontal disease whom he treated in Per 439, with study of the effects of previous therapy. Treatment methods for advanced cases of periodontal disease. Clinic, 30 clock hours. Drs. Everett, Holder, Williams, Passmore, Gray, Thompson.

Pharmacology

Department Head: Dr. Phatak. Professor: Phatak. Associate: Germain. Assistant Professor: Reese. Instructor: Case.

Phc 401. **Special Studies.** Credit to be arranged.

Phc 438, 439, 440. **Pharmacology.** (G) 2 credit hours each term.

Third and fourth years. History and development of the rational use of drugs in medicine. Posology; factors modifying drug action and mechanisms. Study of systemic effects of drug action on various body functions. Action and use of general and local anesthesia. Toxicology. Prescription writing. Laboratory work develops a scientific attitude in the handling of pharmacological data and in the appraisal of therapeutic procedures. Lectures, 44 clock hours; laboratory, 44 clock hours. Drs. Phatak, Reese, Mr. Germain, Mrs. Case.

Phc 445. **Dental Materia Medica.** 1 credit hour winter.

Fourth year. Study of the medicinal substances and pharmaceutical preparations used in dentistry; active principles; nature of action. Dental prescriptions and formulae, dosages, forms in which drug preparations are available for use. Lectures, 11 clock hours. Drs. Reese, Phatak, Mr. Germain.

Phc 446. **Applied Therapeutics.** 1 credit hour spring.

Fourth year. Conference discussion of the application of the science of pharmacology and the knowledge of specific medicinal substances to the treatment of specific oral-dental diseases. Conference, 11 clock hours. Drs. Phatak, Reese, Mr. Germain, and clinic staff.

GRADUATE COURSES

Phc 438, 439, 440 or equivalent are prerequisite to all courses in the Phc 500 series.

Phc 501. **Research.** Credit to be arranged.

Phc 503. **Thesis.** Credit to be arranged.

Phc 505. **Reading and Conference.** Credit to be arranged.

Phc 511. **Advanced Human Pharmacology.** 5-6 credit hours.

Special studies of neuromuscular and cardiorespiratory effects as modified by the use of local and general anesthetics, analgesics, sedatives, autonomic drugs, tranquilizers, and antihistamines in dental practice. Lectures and conferences, 22-33 clock hours; laboratory and clinic, 132 clock hours.

DENTAL HYGIENE COURSE

Phc 321. **Pharmacology (Materia Medica).** 2 credit hours winter.

Lectures, 22 clock hours. Drs. Phatak, Reese.

Physiology

Department Head: Dr. D. J. Anderson. Professors: D. J. Anderson, Noyes. Associate Professor: Savara. Associate: R. Anderson. Instructors: Berquist, Case.

Phy 401. **Special Studies.** Credit to be arranged.

Phy 418. **Physiology.** 2 credit hours winter.

First year. An introductory study of physiology, integrated with other dental science courses. Basic physical-chemical principles applicable to cellular functions as well as to more complex living organized systems. Lectures, 11 clock hours; laboratory, 22 clock hours. Dr. D. J. Anderson, Mrs. Boufford.

Phy 419, 420. **Physiology.** (G) 3, 5 credit hours.

First and second years. Fundamental mechanisms governing human body functions. Normal and abnormal deviations of functions. Detailed study of

the circulatory, respiratory, digestive, metabolic, excretory, and neuromuscular activities of the body. Lectures, 44 clock hours; laboratory and conferences, 99 clock hours. Drs. D. J. Anderson, Berquist, Mrs. Case.

Phy 428. **Growth and Development.** 1 credit hour winter.

Second year. Growth, development, and function of the structural mechanism of the human face from birth to senescence. Designed to provide an understanding of oral physiology, and of the coordination and interrelation of facial structure; the clinical significance of this knowledge. Lectures, 11 clock hours. Drs. Noyes, Savara.

Phy 429. **Physiology of Occlusion.** 1 credit hour spring.

Second year. Anatomical relations of the head and neck and their significance. Comparative study of various types of dentures, to provide an understanding of the basic principles of all forms. Forces of occlusion. Lectures, 11 clock hours. Dr. R. Anderson.

GRADUATE COURSES

Phy 501. **Research.** Credit to be arranged.

Phy 503. **Thesis.** Credit to be arranged.

Phy 505. **Reading and Conference.** Credit to be arranged.

Phy 511. **Advanced Physiology.** Credit to be arranged.

Special laboratory projects on advanced human and mammalian physiology. Applications of advanced technic in the studies of organ or tissue activity, with special reference to nerve, muscle and endocrine function. Instruction by lecture, conference, laboratory, and clinic. Drs. Phatak, Reese, Mrs. Boufford.

DENTAL HYGIENE COURSE

Phy 220. **Growth and Development.** 1 credit hour fall.

Lectures, 11 clock hours. Dr. Savara.

Principles of Medicine

Professors: EVERETT, FIXOTT, JR., MINCKLER, NOYES. Associate Professor: RICKLES. Associate: VIDGOFF. Assistant Professor: WOODWORTH.

Med 401. **Special Studies.** Credit to be arranged.

Med 439. **Principles of Medicine.** 1 credit hour spring.

Third year. Review of specific interrelationships between dentistry and medicine, with special attention to differential neurological problems of dental significance. Special management of the cardiorespiratory and diabetic patient, blood dyscrasies, and management of office emergencies. Lectures, 11 clock hours. Dr. Minckler, visiting lecturers.

Med 440, 442. **Principles of Medicine.** 1 credit hour each term, fall and winter.

Application of the principles of medicine to dental diagnosis and treatment, and for the preventive diagnosis and treatment of human body diseases where oral and systemic factors are interrelated. Problems common to medicine and dentistry presented with emphasis on the manner in which oral diseases reflect general systemic disease. Attention given to the early recognition of disease symptoms, in order that proper dental and medical care can be developed. Treatment in office emergencies; how, when, and where to seek medical assistance; cooperation with the physician; interprofessional ethical relationships. Consideration also given to the endocrine system, nutritional deficiencies, and psychiatric principles in the handling of patients, and to occupational hazards in dentistry. Lectures, case-history reports, and conferences, 22 clock hours. Dr. Woodworth.

Med 443, 444, 445. **Hospital Clinics.** 1 credit hour total.

Fourth year. A series of clinical clerkships utilizing local hospitals and health agencies, where the resident and nonresident staffs provide supervision and

instruction in the integration of dental care with other health services; observation of patients at the bedside and in outpatient clinics. Clinic, 18 clock hours. Dr. Noyes, and staff of the division of dental and oral medicine, University of Oregon Medical School.

Prosthetics

Department Head: DR. SWENSON. Professor: SWENSON. Clinical Associates: DE LONG, HOWARD, JOHNSON, KRUMBEIN, MORRIS. Assistant Professor: STOUT. Instructors: ADAMS, BOYLE, MACHO.

Pr 401. **Special Studies: Preclincal Lecture Demonstration.** Credit to be arranged, winter.

First year. A preclinical lecture demonstration course for orientation to bridge the change from technic laboratory work to clinical procedures. Lectures and demonstrations, 11 clock hours. Dr. De Long.

Pr 412. **Prosthetic Technic.** 3 credit hours fall.

First year. Introduction to the construction of complete denture laboratory procedures. Lectures, 11 clock hours; laboratory, 66 clock hours. Drs. Krumbein, Howard, Morris, Macho.

Pr 413. **Prosthetic Technic.** 3 credit hours winter.

First year. Continuation of Pr 412 to completion of the technic phase of complete denture construction. Lectures, 11 clock hours; laboratory, 66 clock hours. Drs. Krumbein, Howard, Morris, Macho.

Pr 414. **Prosthetic Clinic.** Credit to be arranged, spring.

First year. Clinical experience following Pr 401. Two students work together to construct a complete set of dentures for a patient. Clinic, 66 clock hours. Drs. Swenson, Stout, Johnson, Boyle, Adams, Macho.

Pr 418. **Prosthetic Technic.** 3 credit hours spring.

First year. Introduction to the construction of partial denture laboratory procedures. Lectures, 11 clock hours; laboratory, 66 clock hours. Drs. Krumbein, Howard, Morris, Macho.

Pr 424. **Prosthetic Clinic.** 1 credit hour fall.

Second year. An intermediary clinic demonstration course following the student's first-year experience with patients, to correlate technic procedures and clinic practice. Clinic demonstration, 22 clock hours. Dr. De Long.

Pr 425. **Prosthetic Clinic.** 1 credit hour winter.

Second year. Complete denture clinical experience; applications of demonstrations given in Pr 424. Clinic, 44 clock hours. Drs. Swenson, Stout, Adams, Boyle, Macho, Johnson.

Pr 426. **Prosthetic Clinic.** 1 credit hour spring.

Second year. Continuation of clinical experience in complete denture practice; introduction to partial denture construction with clinical experience. Clinic, 44 clock hours. Drs. Swenson, Stout, Johnson, Boyle, Adams, Macho.

Pr 430. **Didactic Principles of Clinical Prosthesis.** 1 credit hour fall.

Third year. Lectures and demonstrations coordinating the theory of crown and bridge, partial denture, and complete denture prosthesis with clinical applications in Pr 633, 634, 635. Lectures and demonstrations, 11 clock hours. Dr. Swenson.

Pr 440. **Didactic Principles of Clinical Prosthesis.** 1 credit hour winter.

Fourth year. Lectures and demonstrations coordinating advanced prosthetic theory—including crown and bridge, partial denture and complete denture—with clinical applications in Pr 643, 644, 645. Lectures and demonstrations. 11 clock hours. Dr. Swenson.

Pr 633, 634, 635. **Prosthetic Clinical Practice.** Credit to be arranged.

Third year. The clinical aspects of partial denture and complete denture prosthesis, and the primary correlation of these phases. Drs. Swenson, Stout, Johnson, Adams, Boyle, Macho.

Pr 643, 644, 645. **Prosthetic Clinical Practice.** Credit to be arranged.

Fourth year. Clinical applications of the interrelationships of crown and bridge, partial denture, and complete denture prosthesis. Each student performs several complete oral-cavity restorations. Applications of the procedures of prosthesis to office practice. Drs. Swenson, Stout, Johnson, Adams, Boyle, Macho.

Public Health

Department Head: DR. HADJIMARKOS. Professor: HADJIMARKOS. Lecturer: BARNUM.

PH 401. **Special Studies.** Credit to be arranged.

PH 430. **Caries Prevention.** 1 credit hour fall.

Third year. The magnitude of the dental caries problem. The use of laboratory animals for research in dental caries. Mechanism of the caries process. The influence of nutrition on dental caries. Current methods and techniques for caries prevention. Lectures, 11 clock hours. Dr. Hadjimarkos.

PH 440, 441. **Public Health.** 2 credit hours winter.

Fourth year. The course is planned to convey to the student basic knowledge and understanding of public health practices and methods. Special emphasis given to the place of dentistry in the field of public health and to the responsibilities and role of the dentist in dental public health. Lectures and field work. Lectures, 22 clock hours. Dr. Hadjimarkos and associates.

GRADUATE COURSES

PH 505. **Reading and Conference.** Credit to be arranged.

PH 511, 512. **Epidemiology of Dental Disease.** Credit to be arranged.

Provides an understanding and appreciation of the utilization of the epidemiological method as a research tool in dentistry. Special attention given to the epidemiological aspects of dental caries, periodontal disease, and malocclusion, and to the methods and technics used in conducting epidemiological investigations. Dr. Hadjimarkos.

PH 514. **Preventive and Public Health Aspects of Dentistry.** 2 credit hours.

Current preventive dental-disease measures as they apply in the private practice of dentistry as well as on the community level. Dr. Hadjimarkos.

DENTAL HYGIENE COURSES

PH 117. **Personal and Community Hygiene.** 1 credit hour fall.

Lectures, 11 clock hours. Miss Hannon.

PH 222. **Caries Prevention.** 2 credit hours fall.

Lectures, 11 clock hours. Dr. Hadjimarkos. Clinic and demonstrations, 22 clock hours. Dr. Snyder, Mrs. Klier, Mrs. Good, Dental Hygiene staff.

PH 223. **Public Health.** 2 credit hours winter.

Lectures, 22 clock hours. Dr. Hadjimarkos and representatives from the field of public health.

PH 224. **First Aid.** 2 credit hours winter.

Lectures, demonstrations, and practice, 22 clock hours. Mr. Hicks.

PH 320, 321, 322. **Dental Health Education.** 2 credit hours each term.

Lectures, 33 clock hours. Miss Hannon, Mrs. Espey, Dr. Barnum.

Special Programs

Postgraduate Study

THE DENTAL SCHOOL'S program of postgraduate study is designed to provide, for the graduate dentist, an opportunity to continue his professional education during his years of practice. The postgraduate program includes short refresher courses and longer sequences of instruction in special phases of dental practice.

Plans for the development of the postgraduate program call for courses in: (1) standard clinical methods and techniques (refresher); (2) new techniques and procedures; (3) methods of diagnosis; (4) applied basic science; (5) office procedures and practice management; (6) techniques and procedures in special fields, such as children's dentistry, prosthetics, periodontology, oral surgery, etc., with differentiated instruction for the general practitioner and for the specialist; (7) methods, objectives, and techniques of dental pedagogy.

Special facilities for postgraduate study include a fully equipped twelve-chair postgraduate clinic, with an adjoining classroom; a laboratory adjacent to the postgraduate clinic for casting, investing, and other clinical laboratory procedures, and for instruction in dental techniques. The science laboratories, Library, and other facilities of the Dental School are also available to postgraduate students.

The postgraduate faculty includes regular members of the Dental School faculty, members of the dental profession in the Portland area, and visiting clinical instructors from other areas.

The postgraduate program has several phases: (1) year-long courses which meet once a month and have a membership organization similar to a study club; (2) courses which vary in length from two days to two weeks; (3) one-year full-time courses in certain fields, including periodontology, pedodontics, and oral surgery.

Information concerning the postgraduate schedule of courses will be provided, on request, by the Department of Postgraduate Education of the Dental School.

The courses are announced several times each year through brochures mailed to all alumni and dentists in the northwest area. The length of course, names of instructors, course content and tuition fee information are included in each announcement.

A program for training of dental assistants has been organized by the department of Postgraduate Education in cooperation with the American Dental Assistants Association and the Portland Extension Center of the Oregon State System of Higher Education. The requirements for certification as outlined by the American Dental Assistants Association are met by the course. It is composed of two parts, one primarily theory and the other laboratory. The theory consists of 39 two-hour weekly evening meetings with a tuition fee of $50.00, while the laboratory consists of 25 weekly meetings of two hours each with a tuition fee of $35.00. For further information write the Department of Postgraduate Education of the Dental School.

Child Study Clinic

THE CHILD STUDY CLINIC has been established for the study of the oral health problems of children in relation to the growth, development, and physical health of the whole child. Children registered in the clinic are received for periodic

observation, and for the systematic recording of individual physical growth, regional and systemic disturbance, oral health, and dento-facial development. The child's record is documented by physical measurements, roentgenographic records, photographs, oral casts, and detailed information on general and oral health; roentgenographic records of the head are made with the Broadbent-Bolton cephalometer.

Data collected are used for teaching purposes in the Departments of Physiology, Pedodontics, and Orthodontics. Through work in the Child Study Clinic, undergraduate and postgraduate students acquire an understanding of the changes that take place in the dentition and face of the growing child, and of the reciprocal relation between systemic disturbances and oral disease.

The staff of the Child Study Clinic conducts research projects planned to provide a better understanding of the dental problems of children.

The facilities of the clinic are available, for consultation, to the general public and to members of the medical and dental professions.

The Child Study Clinic is directed by an Advisory Council, listed on page 13.

Oral Tumor Registry

THE ORAL TUMOR REGISTRY compiles data on tumors and related lesions of the oral cavity. Financial support of the registry is provided by the American Cancer Society and the National Cancer Institute of the United States Public Health Service. The registry is administered by the Department of Oral Pathology and is closely coordinated with the teaching and research activities of that department.

The registry material includes complete histories, surgical procedures, and follow-up reports, together with tissue, microscopic sections, X-rays, and gross and microscopic photographs. This information is available to the health professions for study and research.

Cleft Palate Clinic

THE CLEFT PALATE CLINIC of the Dental School has been established, in cooperation with the Crippled Children's Division of the University of Oregon Medical School, to provide more complete treatment for cleft palate patients. Children seen in the clinic receive a complete dento-facial appraisal, consisting of an oral examination of the hard and soft tissues in the mouth, cephalometric headplates, impressions for study casts, and facial and intra-oral photographs. Physical measurements are made to assess the physical growth and maturation of the patient, and these records are evaluated to determine treatment required.

The patient's dentist, the physician staff of the Crippled Children's Division of the Medical School, and the staff of the Cleft Palate Clinic, provide coordinated treatment through a Dento-Plastic Speech Clinic. Specialists participating in the work of the clinic include plastic surgeons, otolaryngologists, orthodontists, pediatricians, pedodontists, speech pathologists and therapists, and medical social consultants.

Research

RESEARCH is an integral part of the educational program of the Dental School. Undergraduate students may elect a limited number of hours of special study, in which they participate, with members of the faculty, in the extension of knowl-

edge in the dental sciences. With rare exceptions, research is a requirement in graduate programs leading to the M.S. degree.

Research by members of the faculty has, in recent years, been aided by grants from the Oregon chapter of the American Cancer Society, the Oregon State Board of Dental Examiners, the Oregon State Board of Health, the United States Public Health Service, and the Office of Naval Research of the United States Navy.

Audio-Visual Instruction

THROUGH THE DEPARTMENT OF ILLUSTRATION, in cooperation with the several instructional departments, the Dental School is developing materials and methods for audio-visual instruction in the field of professional dental education. The department produces transparencies, film strips, motion pictures, photographs, sound recordings, and other audio-visual instructional aids, and collects similar materials produced by other agencies.

The materials produced by the department are available for loan, through the Dental School Library, to schools, members of the dental profession, and Dental School students.

Dental Hygiene

THE UNIVERSITY OF OREGON DENTAL SCHOOL introduced a two-year curriculum leading to a Certificate in Dental Hygiene in the fall of 1949, following the enactment of a statute by the Oregon Legislature defining the practice of dental hygiene and providing for the licensing of dental hygienists.

The major emphasis in the practice of dental hygiene is on the prevention of dental diseases through such typical services as oral prophylaxis, topical application of sodium fluoride to the teeth, and instruction of patients in the maintenance of oral health.

Graduates in dental hygiene may earn the Bachelor of Science degree, with a major in health education, after two additional years of study on the Eugene campus of the University of Oregon. Under a similar arrangement, they may earn the B.S. degree, with a major in general science, after two additional years of study at Oregon State College in Corvallis, or a B.S. degree in general studies at Portland State College after two additional years of work at that institution.

As an alternative the student may enroll at the University in Eugene, at Oregon State College, or at Portland State College for her freshman year, transfer to the Dental School for the two-year dental hygienist program, and return to one of these three institutions for her senior year to complete the requirements for a B.S. degree.

The baccalaureate degree is not granted by the Dental School, but by the institution at which the student takes the two additional years of study. The student should consult her college adviser concerning institutional requirements.

Opportunities for Dental Hygienists

IT HAS BEEN ESTIMATED that 32,500 dentists working exclusively for the children of the United States for one year would be required to care for these children's current dental needs. There are, however, only about 84,000 practicing dentists in the United States to serve both adults and children. Because of limited dental manpower and the accumulated dental needs of the public, the dentist must ordinarily spend the greater portion of his time in restorative work for adults, and can give relatively less attention to preventive work for children.

A major responsibility in the expanding field of preventive dental health must, therefore, be assumed by the dental hygienist, working under the supervision of the dentists. There are approximately 10,000 dental hygienists now practicing in the United States; there is a demand for many times this number. The student of dental hygiene may look forward to a very useful and interesting career as a needed member of the health professions.

The following are typical opportunities for service for qualified dental hygienists:

In a private dental office—performing oral prophylaxes; applying sodium fluoride to the surfaces of the teeth; instructing in the care of the mouth; maintaining a patient recall system; exposing and processing X-ray films; occasionally aiding the dentist in oral operations.

In the public schools—cooperating with school and health officials in instruction for mouth hygiene; recording dental health conditions and statistical data; performing oral prophylaxes and giving sodium-fluoride applications; delivering dental health talks before school children and P.T.A. groups.

In public health agencies—performing duties similar to those in the public

schools; serving in clinics and hospitals for indigent children and adults; cooperating with public health officials and dentists in dental health education (the dental hygienist may assume considerable responsibility for organization and administration of programs).

In private industry—performing preventive dental health functions similar to those in private practice; serving in health clinics maintained by industrial organizations for their employees.

It is anticipated that the greatest future demand for dental hygienists will be in private dental practice. An increasing number of graduate hygienists are, however, being employed in the public health programs maintained by the schools and the state and local health departments.

Admission

THE REQUIREMENTS FOR ADMISSION to the curriculum for dental hygienists include: (1) graduation from a standard high school, (2) courses in biology and chemistry of high-school level or above, (3) the completion of the aptitude tests for dental hygiene of the American Dental Hygienists Association. The dates for these tests for 1958-59 are October 17, 1958 and February 13, 1959. They are given at the Dental School and begin at 9:00 a.m.

Except under special circumstances, only women over 18 years of age are admitted. A personal interview, a physical examination, and participation in a prematriculation orientation program may be required. Transcripts of work completed in high school or college should be sent direct from the school where work was completed to the Registrar of the University of Oregon Dental School.

The Admissions Committee selects the entering class each year on a competitive basis. The following factors are considered by the committee:

(1) Standing in high-school graduating class. Graduates in the upper fourth of their class are given preference.

(2) College or junior-college work. Although not required for admission, some college or junior-college experience has been found to facilitate adjustment to the professional curriculum in dental hygiene. Students planning to attend college for a year or more before applying for admission to the dental hygiene curriculum are urged to arrange, in consultation with their advisers, a program which will involve no duplication of courses and which will satisfy requirements for a baccalaureate degree, if the student wishes to qualify for a degree. Information concerning desirable courses may be obtained from: Dr. Franklin B. Haar, professor of health education, University of Oregon, Eugene; Dr. Howard Impecoven, Registrar, Portland State College, Portland; or Dr. F. A. Gilfillan, dean of the School of Science, Oregon State College, Corvallis. Students attending other colleges or universities should consult their academic advisers. (See page 59 for information concerning a bachelor's degree for dental hygiene students.)

(3) Residence. Preference is given to residents of Oregon.

(4) Personal qualifications. Careful consideration is given to the candidate's sincerity of interest, character and personality, personal appearance, and health. Willingness to place public service first is a paramount requirement for anyone planning to enter one of the health professions. A basically ethical attitude, habits of dignity, tact, courtesy, neatness and poise, and a pleasant social manner are essential qualities of a successful dental hygienist. Since the hygienist will work under the supervision of a dentist, and with the general public and members of other professions, ability to accept criticism and to cooperate under administrative

direction is very important. General manual dexterity and adeptness in the use of small instruments are indispensable. The dental hygiene student should be in good health and have good posture, vision, and hearing.

(5) Aptitude tests. The results from the dental hygiene aptitude tests of the American Dental Hygienists Association are considered.

Admission Procedure. Formal application for admission to the dental hygiene curriculum must be submitted not later than March 1. The following credentials must be submitted:

(1) Application on an official form, copies of which will be supplied on request by the Dental School Registrar.

(2) A recent photograph, endorsed on the back with the name of the applicant and the date the photograph was taken.

(3) An official transcript of all high-school and college work completed at the time of application. (If the applicant is still in high school, the transcript should cover one-half of her senior year's work.)

(4) A statement of high-school or college work in progress and of the courses the applicant proposes to take before admission to the dental hygiene curriculum. (The statement should list specific courses.)

(5) A personal letter, addressed to the Admissions Committee, stating in detail the reasons why the applicant has chosen a dental hygiene career. (The letter should also include any other information which the applicant considers important for a thorough evaluation of her credentials.)

(6) A tentative budget for the two years the student will spend at the Dental School, showing: available assets; expected annual income; anticipated expenditures for fees, equipment, supplies, and personal and living expenses. (In preparing this budget, the applicant should take account of the statement of costs on page 62 of this Catalog, and should be careful to list all actual assets.)

(7) The credit-evaluation fee of $5.00 (this fee is not refundable).

(8) The applicant's preference as to the date on which she wishes to participate in the Aptitude Testing Program.

Application may be made after the completion of one-half of the student's final year in high school or at any time during her current year of college attendance. Since the laws of the state of Oregon require that dental hygienists must be 20 years of age before they can be licensed to practice, the applicant must reach her eighteenth birthday by November 1 of the year in which she desires to enter the dental hygiene curriculum. The instructional program begins in the fall term; new students are not admitted at any other time. Each entering class is limited to a maximum of twenty students.

Aptitude Testing Program. The University of Oregon Dental School is a testing center for the Dental Hygiene Aptitude Testing Program of the American Dental Hygienists Association. With these tests it is possible to predict with increased accuracy the probable success of students in the dental hygiene curriculum and to provide more specific vocational guidance.

These tests are a requirement for admission to the dental hygiene program at the University of Oregon Dental School. However, the aptitude results, in themselves, are not the sole basis upon which an applicant will be considered for admission. The dates when the tests may be taken at the Dental School are October 17, 1958 or February 13, 1959. Applicants are not permitted to take the test more than once a year (for example, an applicant who is tested in October 1958 may not be tested again until October 1959 or later). The February 1959 testing period is intended primarily for applicants to the class entering in 1959, but 1960 applicants may register for this testing period.

In order to allow sufficient time for processing, all applications for the aptitude test must be received by the American Dental Hygienists Association, 522 Fifth Ave., New York 36, N.Y., approximately two weeks before the testing period. Applicants are asked to mail the application card and fee for the Aptitude Testing Program direct to the American Dental Hygienists Association.

The testing program requires one-half day's attendance at the school. The fee for the program is $9.00. A brochure describing these tests is sent to all applicants for admission to the dental hygiene curriculum.

Registration

THE FIRST TWO DAYS of the fall term are devoted to registration. At the opening of the 1958-59 session, first-year dental hygiene students report at 9:00 a.m. on Thursday, September 25, 1958, second-year students report at 1:00 p.m. on Thursday, September 25. Information on registration procedures is mailed to each student before the opening of the session.

Fees and Expenses

STUDENTS IN THE DENTAL HYGIENE CURRICULUM pay the same regular fees as dental students: a total of $191.00 per term for residents of Oregon or a total of $282.00 for nonresidents. For a detailed table of fees, see page 30.

The total cost of books, equipment, and supplies required during the two years of the dental hygiene program is estimated at $300.00. The required equipment includes: prophylactic instruments, shoes, uniforms, and laboratory coats. All books, supplies, and instruments are purchased from the student store. No substitutions are permitted. It is estimated that the total cost of the two-year program, exclusive of living costs, is about $1,500 for residents of Oregon and about $2,000 for nonresidents.

The Dental School has no dormitory or other housing facilities for dental hygiene students. Living costs will vary according to the type of facility. Single rooms may be obtained in Portland for about $40.00 a month; two- and three-room apartments may be rented for about $85.00 a month. Students accepted for admission are advised to arrange for housing *before the opening of the school year.*

The student's registration fees cover the cost of physical examinations, diagnostic service, and emergency care through the Student Health Service. See page 20.

Facilities

THE CLASSROOMS, LABORATORIES, AND CLINICS of the Dental School are made available for the instruction of dental hygiene students. Teaching materials furnished include microscopes and laboratory equipment. Under special arrangements, practical experience is furnished the student through the facilities of the Portland public schools' dental health program.

The Dental School Library is a source for reference reading and study, and serves as the center of much of the instruction.

Through the two years of study, a counselor from the Dental School faculty is assigned the special duty of providing guidance and assistance with problems relating to curriculum, course instruction, scholarship, personal and housing difficulties, etc. Selected members of the regular Dental School teaching staff with special ability and interest in dental hygiene instruction are responsible for classroom, laboratory, and clinic teaching.

Dental Hygiene Curriculum

THE TWO-YEAR CURRICULUM in dental hygiene offered by the Dental School is planned to provide the professional education and training needed by the

dental hygienist for her specialized responsibilities in preventive dental health service.

During the first year the emphasis is on standard college courses in the arts and sciences. Preclinical instruction in dental prophylaxis begins, however, in the first term, and actual clinical experience in the second term.

Courses in the arts and sciences continue in the second year; but major attention is given to clinical application of professional knowledge and skills. During the spring term of the second year, the student receives field experience in dental health education in the Portland public schools and in hospitals.

Since the function of the dental hygienist is the promotion of dental health, emphasis is placed on the preventive aspects of dental prophylaxis, including diet control and the topical application of sodium fluoride to children's teeth.

Since the dental hygienist's practice is closely coordinated with professional dental practice, she must have a thorough understanding of the field of dentistry; to insure such an understanding, the student is assigned observation periods in the several clinical departments of the Dental School, including the operative, prosthetic, child study, orthodontic, oral surgery, and anesthesia clinics.

Scholarship regulations for dental hygiene students are the same as for dental students (see page 27).

Courses, Time, and Credit

First Year

		Clock hours					Credit
		Lec.	Conf.	Lab.	Clinic	Total	hours
DH 111	Hygienist Orientation	11	....	....	....	11	....
An 211, 212	Human Biology	55	22	110	....	187	10
Sp 225	Public Speaking	33	....	....	....	33	3
DO 316	Civil Defense and First Aid	22	....	....	....	22	2
DM 232	Dental Materials	11	....	22	....	33	2
Ch 111	Chemistry	55	....	33	....	88	6
Bac 113	Bacteriology	22	....	66	....	88	5
Op 112	Dental Anatomy	22	....	66	....	88	4
DH 118, 119, 120	Dental Hygiene	33	22	66	132	253	9
PH 117	Personal and Community Hygiene	11	....	....	....	11	1
Wr 111, 112, 113	English Composition	99	....	....	....	99	9
Psy 201	General Psychology	33	....	....	....	33	3
		418	33	363	132	946	62

Second Year

		Clock hours					Credit
		Lec.	Conf.	Lab.	Clinic	Total	hours
An 213	Human Biology	22	....	33	....	55	3
Ch 212	Chemistry	44	....	33	....	77	5
Phc 321	Pharmacology (Materia Medica)	22	....	....	....	22	2
PH 222	Caries Prevention	11	....	....	22	33	2
Ro 320, 321, 322	Oral Roentgenology	22	....	22	66	110	5
OPth 321, 322	Pathology	33	11	....	....	44	4
Phy 220	Growth and Development	11	....	....	....	11	1
Nu 220	Nutrition	33	....	....	....	33	3
Ph 320, 321, 322	Dental Health Education	33	....	....	....	33	3
DH 320, 321, 322	Dental Hygiene	....	33	....	330	363	11
DH 323	Field Experience	....	....	66	....	66	2
PH 223	Public Health	22	....	....	....	22	2
DH 232, 233	Dental Procedures	22	....	....	44	66	3
DH 229	Ethics and Jurisprudence	11	....	....	....	11	1
Soc 204	General Sociology	33	....	....	....	33	3
DH 230	Dental Economics	11	....	....	....	11	1
DH 231	Professional Adjustment	11	....	....	....	11	....
		341	44	154	462	1,001	51

Description of Courses

FIRST YEAR

An 211, 212. **Human Biology.** 5 credit hours each term winter and spring.

Fundamental biological principles, with material from representative plant and animal forms. Winter and spring: structural and functional anatomy, with special emphasis on the human body; physiological consideration integrated with a study of development; gross and microscopic anatomy of the organs. Lectures, 55 clock hours; laboratory, 110 clock hours. Drs. Setty, Jump, Miss Holly, Miss Stevens.

Bac 113. **Bacteriology.** 5 credit hours spring.

Basic principles of bacteriology, including infection and disease resistance. Special attention to diseases associated with the oral cavity. Laboratory exercises and methods of pure culture, morphology, and physiology, as a basis for classification. Problems of sterilization and disinfection with which the hygienist is concerned. Lectures, 22 clock hours; laboratory, 66 clock hours. Mrs. Slawson, staff.

Ch 111. **Chemistry.** 6 credit hours spring.

Designed to provide an integrated background in the fields of inorganic, organic, and biological chemistry relating to the intermediary metabolism of carbohydrates, minerals, and lipids. Lectures, 55 clock hours; laboratory, 33 clock hours. Dr. Claycomb, Mr. Gatewood.

DH 111. **Hygienist Orientation.** No credit.

Orientation to the Dental School regulations and facilities; use of the Library; study methods. An introduction to the scope, opportunities, and ethics of dental hygiene. Lectures, 11 clock hours. Dental School faculty.

DH 118, 119, 120. **Dental Hygiene.** 4, 3, 2 credit hours.

The causes, manifestations, and effects of stains and hard deposits on the teeth. Principles and methods for removal of these deposits; laboratory technics and instrumentation on manikins. Technics and principles of patient dental health education. Orientation to clinical procedures and patient management. Experience in the performance of oral prophylaxis; topical application of sodium fluoride. Lectures, 33 clock hours; laboratory, 66 clock hours; clinic, 132 clock hours. Miss Hannon, Mrs. Espey, Miss Ryan, Mrs. Whitford.

DM 232. **Dental Materials.** 2 credit hours spring.

Designed to familiarize the student with dental materials and their place in restorative dentistry. General manipulative technics discussed and demonstrated. Lectures, 11 clock hours; laboratory, 22 clock hours. Dr. Mahler.

DO 316. **Civil Defense and First Aid.** 2 credit hours winter.

Includes the ten-hour standard Red Cross first-aid program, the Red Cross home-nursing program, and projects and lectures on those phases of local, state, and national civil defense activities and methods which will provide a thorough orientation for the responsibilities of the dental hygienist in time of national emergency. Lectures and demonstrations, 22 clock hours. Mr. Batterson, Red Cross and civil-defense officials, Dental School Civil Defense Committee.

Op 112. **Dental Anatomy.** 4 credit hours fall.

Designed to provide a working knowledge of human teeth and their supporting structures; anatomy, nomenclature; laboratory work includes study of models and natural teeth, and the drawing of the most typical forms of each tooth. Lectures, 22 clock hours; laboratory, 66 clock hours. Dr. Strange.

Ph 117. **Personal and Community Hygiene.** 1 credit hour fall.

General and specific factors influencing personal and community health; heredity, environment, behavior. Desirable health practices throughout life. Philosophy and objectives of personal hygiene; interdependence with community hygiene. Introduction to public health problems and precepts. Lectures, 11 clock hours. Miss Hannon.

Psy 201. **General Psychology.** 3 credit hours winter.

Introductory study of behavior and conscious processes. Survey of experimental studies, with reference to motivation, learning, thinking, perceiving, and individual differences. Lectures, 33 clock hours. Dr. Goodman, General Extension Division of the State System of Higher Education.

Sp 225. **Public Speaking for Business and Professional Men and Women.** 3 credit hours winter.

A practical course in speaking. Poise on the floor; improvement of diction and voice; organization of speech material and presentation in direct conversational style. Persuasion in speaking; sales talks. Study of motives that impel men to action and ways of reaching these motives. Lectures, 33 clock hours. Mr. English.

Wr 111, 112, 113. **English Composition.** 3 credit hours each term.

Fundamentals of English composition; frequent written themes. Special attention to correctness in fundamentals and to organization of papers. Lectures, 99 clock hours. Mrs. Henley, Dr. Ford, General Extension Division of the State System of Higher Education.

SECOND YEAR

An 213. **Human Biology.** 3 credit hours fall.

Gross and microscopic anatomy of oral organs. The teeth, periodontal structures, and glands and muscles concerned with oral function; embryological and physiological aspects of oral tissues. Lectures, 22 clock hours; laboratory, 33 clock hours. Drs. Setty, Jump, Miss Holly, Miss Stevens.

Ch 212. **Chemistry.** 5 credit hours fall.

Continuation of Ch 111. Fundamental concepts relating to the metabolism of proteins, structure and functions of enzymes, and influence of vitamins and hormones in both the normal and abnormal states. Lectures, 44 clock hours; laboratory, 33 clock hours. Dr. Claycomb, Mr. Gatewood.

DH 229. **Ethics and Jurisprudence.** 1 credit hour spring.

Fundamental ethics and professional application, with particular reference to dental hygiene; ethical working arrangements, attitudes toward service to individual patients and the community at large, professional loyalty, membership in professional organizations. Legal status of dentistry and dental hygiene. Lectures, 11 clock hours. Miss Hannon.

DH 230. **Dental Economics.** 1 credit hour spring.

Practical consideration of methods and problems associated with operating and maintaining a dental practice—operating the office, patient recall systems, property management. The relationship of the dental and dental hygiene offices. Lectures, 11 clock hours. Mr. Matthias.

DH 231. **Professional Adjustment.** Credit to be arranged.

Lectures and informal discussions related to topics in dental hygiene and dental sociology and economics, designed to assist the dental hygiene student in her adjustment to the practice of her profession, and to direct attention to professional and civic responsibilities and opportunities for service. Seminar, 11 clock hours. Guest speakers.

DH 232, 233. **Dental Procedures.** 3 credit hours fall and winter.

Designed to familiarize the student with procedures used in dentistry. Fall: operative, prosthetics, and crown and bridge procedures briefly explained in lectures and demonstrations and through a series of planned observations in the clinical departments of the Dental School. Winter: special lectures and observations in pedodontics, orthodontics, and oral surgery. Fall: lectures, 11 clock hours; observation, 22 clock hours; winter: lectures, 11 clock hours; observation, 22 clock hours. Dr. R. H. Anderson, clinical staff.

DH 320, 321, 322. **Dental Hygiene.** 2, 3, 6 credit hours.

Continued prophylaxis experience. The student learns increasingly complex techniques. Dental engine polishing supplements porte polishing. Topical ap-

plication of sodium fluoride solution. Routine examination and charting of oral conditions. Patient recall recording and notification. Field experience includes a few hours of hospital service. This course is closely correlated with work in dental health education, caries prevention, nutrition, and pathology. Fall: conference, 11 clock hours; clinic, 66 clock hours. Winter: conference, 11 clock hours; clinic, 99 clock hours. Spring: conference, 11 clock hours; clinic, 165 clock hours. Miss Hannon, Mrs. Espey, Mrs. Whitford, Miss Ryan.

DH 323. **Field Experience.** 2 credit hours spring.

Observation and participation in the dental health program of the Portland public schools. Inspections and classroom talks. Research surveys; recording and compilation of data. Field experience, 66 clock hours. Dr. Barnum and staff, dental hygiene staff.

Nu 220. **Nutrition.** 3 credit hours fall.

Basic principles of nutrition. The value of adequate nutrition in the maintenance of general health and in the prevention of dental disease. Lectures, conference, and demonstration diet planning, 33 clock hours. Mrs. Good.

OPth 321. **Pathology.** 2 credit hours fall.

A general survey of pathological processes to provide the hygienist with a workable knowledge of the principles of disease. Man's knowledge of pathology; the trends in learning from the time of Hippocrates to present-day research findings. Applications of basic pathology to the specific disease entities of the mouth shown by observation, demonstration, and microscopic examination. Lectures, 22 clock hours. Dr. Rickles, oral pathology staff.

OPth 322. **Pathology.** 2 credit hours winter.

The basic pathological processes and their appearance in the mouth. Consideration of the diseases of the teeth and the oral structures. Lectures, 22 clock hours. Dr. Rickles, oral pathology staff.

PH 222. **Caries Prevention.** 2 credit hours fall.

Study of the problem of dental caries, with special reference to methods of prevention. Evaluation of therapy technics and methods. Topical application of sodium fluoride. Laboratory study of technics for determining caries susceptibility. Lectures, 11 clock hours. Dr. Hadjimarkos. Clinic and demonstration, 22 clock hours. Dr. Snyder, Mrs. Klier, Mrs. Good, dental hygiene staff.

PH 223. **Public Health.** 2 credit hours winter.

History of the public health movement in the United States. Community health needs and services, including control of communicable disease, elementary statistics. Health agencies, official, quasi-official, voluntary, and private. Health programs and administration at the various levels, city, county, state and Federal. Dental health needs and socio-economic problems. Dental health programs. The role of the dental hygienist in public health dentistry. Lectures, 22 clock hours. Dr. Hadjimarkos and representatives from the field of public health.

PH 320, 321, 322. **Dental Health Education.** 1 credit hour each term.

Philosophy of modern education applicable to teaching of dental health. Motivating the child to adopt acceptable dental health attitudes and practices. Adapting lessons to the various age levels. Collection, preparation, evaluation, and use of dental health education literature and materials, including visual aids. Study of established dental health educational programs. Individual and group activities and projects. Lectures, 33 clock hours. Miss Hannon, Dr. Barnum.

Phc 321. **Pharmacology (Materia Medica).** 2 credit hours spring.

Drugs having direct application to oral tissues; medicinal substances; pharmaceutical preparations; active principles of dentrifices, mouth washes, astringent agents, disinfectants, schlerozing agents; detergents; local anesthetics. Local and systemic toxicological considerations: Laboratory experience includes preparation and handling of therapeutic agents. Lectures, 22 clock hours. Drs. Phatak, Reese.

Phy 220. **Growth and Development.** 1 credit hour fall.

Designed to provide an understanding of oral physiology and of the coordination and interrelationship of facial structure. Special emphasis on principles of occlusion and on the effect of malocclusion on the mental and dental health of the patient. Study of problems of children in relationship to growth, development, and physical health. Experience in the recording of individual physical growth, oral health, and dentofacial developments in the Child Study Clinic. Lectures, 11 clock hours. Dr. Savara.

Ro 320, 321, 322. **Oral Roentgenology.** 2, 2, 1 credit hours.

Technique of exposing radiographs of the teeth and oral cavity; processing and care of films. General explanation of film interpretation designed to enable the hygienist to identify normal structure of the teeth and supporting tissues and their gross abnormalities, and to chart or report intelligently. Lectures, 22 clock hours; laboratory, 22 clock hours; clinic, 66 clock hours. Drs. Fixott, Neely, oral roentgenology staff.

Soc 204. **General Sociology.** 3 credit hours winter.

The basic findings of sociology concerning the individual, culture, group life; social institutions and factors of social change. Lectures, 33 clock hours. Mrs. Renfroe, General Extension Division of the State System of Higher Education.

Degrees Conferred June 12, 1957

Doctor of Dental Medicine

Daniel Richard Andriesian, Drain, Oregon
Kenneth R. Berg, Portland, Oregon
Robert F. Bobo, Phoenix, Arizona
Albion E. Borgholthaus, Payette, Idaho
Homer Newton Bowman, Enterprise, Oregon
Laurel Edward Brown, Portland, Oregon
Ronald E. Brunk, Salem, Oregon
James B. Brutsch, Milwaukie, Oregon
Bert Culver Buffington, Eugene, Oregon
D. Elwyn Cameron, Henderson, Nevada
Dalton L. Cooley, Portland, Oregon
G. Barton Cross, Halsey, Oregon
Delmar C. Daniel, Portland, Oregon
Richard Myron Decker, Portland, Oregon
Hubert Lyle Dickinson, Portland, Oregon
Thomas Joseph Dryden, Portland, Oregon
Willard Douglas Dryden, Klamath Falls, Oregon
Austin Dean Earhart, Portland, Oregon
Kai Hip Eng, Seattle, Washington
Tommie L. Fisher, Scio, Oregon
Boyd M. Frampton, Hillsboro, Oregon
James E. Gant, Bandon, Oregon
W. La Von Gifford, Portland, Oregon
Robert Eugene Goodwin, Hastings, Nebraska
Richard Gail Grubb, Portland, Oregon
Norman Wayne Hanley, Portland, Oregon
Robert J. Harland, Rickreall, Oregon
Hal Georg Hart, Salem, Oregon
Helmuth G. Hermann, Oswego, Oregon
Eriel Hugh Hinds, Jr., Portland, Oregon
Wallace Clayton Hodge, Pendleton, Oregon
John E. Holt, Portland, Oregon
Theodore Lybarger Johnson, Springfield, Oregon
Richard Lloyd Jones, Jr., Portland, Oregon
Robert Allen Jones, Portland, Oregon
Duane Virgil Jue, Portland, Oregon
Raymond Peter Koch, Portland, Oregon
Lyndle M. Lamberton, Portland, Oregon
Biruta Steinbergs Le Poullouin, Eugene, Oregon
Claude Allen Lewis, Portland, Oregon
David Charles Lundberg, Portland, Oregon
David Henry Maas, Portland, Oregon
Robert F. MacDonald, Portland, Oregon
Albert F. Macho, Portland, Oregon
Niclaus Herbert Marineau, Portland, Oregon
James D. Martin, Salt Lake City, Utah
Gordon D. Marx, Medford, Oregon
Robert Evan Mathis, Coos Bay, Oregon
George Edward Miller, Jr., Portland, Oregon
Howard I. Morrison, Portland, Oregon
Pratt M. Munson, Portland, Oregon
Gordon J. Nelson, Portland, Oregon
Kenneth D. Oler, Shelby, Idaho
Irvin Walter Pachal, Portland, Oregon
Ronald C. Packard, Portland, Oregon
Robert E. Pattison, Jr., Salem, Oregon
James E. Pinardi, Portland, Oregon
Russell Alvin Radke, Portland, Oregon
Walter B. Reeves, Portland, Oregon
Eugene A. Rimkeit, Portland, Oregon
Carlton Stanley Rondeau, Corvallis, Oregon
Bhim Sen Savara, Portland, Oregon
John Norman Say, Portland, Oregon
Herbert K. Shinn, Portland, Oregon
Kenneth Dale Sipe, Portland, Oregon
Ronald M. D. Waddell, Portland, Oregon
Edward E. Wah, John Day, Oregon
Henry G. Watts, South Bend, Washington
William C. Webster, Portland, Oregon
Richard Gale Weldon, Portland, Oregon
Gordon Lewis Wiltshire, Jr., Portland, Oregon
Franklin Griffith Wise, Portland, Oregon
John I. Woronuk, Portland, Oregon
Edward R. Zarosinski, Klamath Falls, Oregon

Master of Science in Bacteriology

William Sims, London, England

Certificate in Dental Hygiene

Roberta R. AmStein, San Bernardino, California
Georgia Ashby, Medford, Oregon
Roberta A. Collver, Portland, Oregon
Darlene S. Haglund, Springfield, Oregon
Sheila Jeanne Hammond, Portland, Oregon
Wilma G. Magee, Portland, Oregon
Sydney L. Paxton, Portland, Oregon
Muriel A. Peterson, Seattle, Washington
Patricia Jan Richey, Cottage Grove, Oregon
Sally Joy Schini, Coeur d'Alene, Idaho
Suzanne Gay Scholz, Eugene, Oregon
Lois T. Whitford, Miami Springs, Florida
Geraldine E. Wolfe, Portland, Oregon

Enrollment 1957-58*

	Men	Women	Total
Dentistry:			
First year	79	0	79
Second year	71	1	72
Third year	72	0	72
Fourth year	74	0	74
Special	4	0	4
	300	1	301
Dental hygiene:			
First year	0	18	18
Second year	0	15	15
Total enrollment	300	34	334

* As of March 31, 1958.

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