



UNIVERSITY
OF OREGON
BULLETIN

University of Oregon
Dental School

PORTLAND ● OREGON

CATALOG
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1951-52

OREGON STATE SYSTEM OF HIGHER EDUCATION

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UNIVERSITY OF OREGON
DENTAL SCHOOL

CATALOG

1951-52



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

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

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

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

1951-52 Academic Calendar

Fall Term, 1951-52

October 1, *Monday*.....Registration
October 2, *Tuesday*.....Classes begin
November 22, *Thursday*.....Thanksgiving Day, holiday
December 17, *Monday*.....Classes end
December 18-20, *Tuesday through Thursday*.....Term examinations
December 20, *Thursday*.....Term ends

Winter Term, 1951-52

January 2, *Wednesday*.....Classes begin
March 18, *Tuesday*.....Classes end
March 19-21, *Wednesday through Friday*.....Term examinations
March 21, *Friday*.....Term ends

Spring Term, 1951-52

March 31, *Monday*.....Classes begin
May 30, *Friday*.....Memorial Day, holiday
June 10, *Tuesday*.....Classes end
June 11-13, *Wednesday through Friday*.....Term examinations
June 12, *Thursday*.....Commencement
June 13, *Friday*.....Term ends

Summer Session, 1952

July 14 through August 15.....First five weeks
August 18 through September 19.....Second five weeks

Fall Term, 1952-53

September 29, *Monday*.....Registration

University of Oregon Dental School

Faculty*

CHARLES D. BYRNE, Ed.D., Chancellor, Oregon State System of Higher Education.

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

HAROLD J. NOYES, D.D.S., M.D., Dean of the Dental School.

TED RUSSELL, M.S., Business Manager and Registrar.

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.

VINSON M. WEBER, M.A., D.D.S., Head of Postgraduate Education; Secretary of the Faculty.

HERBERT C. COOPER, D.M.D., Professor Emeritus of Operative Dentistry.

HENRY C. FIXOTT, SR., D.M.D., Professor Emeritus of Radiodontia.

JOSEPH A. PETTIT, M.D., Professor Emeritus of Dentistry.

Professors

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

ARNOLD W. KIRCHOFF, D.D.S., Major, Dental Corps, Professor of Military Science and Tactics.

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

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

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.

Associate Professors

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

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

* The list published on these pages represents the Dental School faculty for the academic year 1950-51.

- FRANK G. EVERETT, M.S., D.M.D., M.D., Associate Professor of Dentistry; Acting Head of Department of Oral Pathology.
- HOWARD M. HACKEDORN, M.D., Associate Professor of Chemistry.
- JEFF MINCKLER, M.A., Ph.D., M.D., Associate Professor of Pathology; Acting Head of Department of General Pathology.
- NILKANTH M. PHATAK, M.S., Ph.D., Associate Professor of Pharmacology; Head of Department of Pharmacology; Acting Head of Department of Physiology.
- VINSON M. WEBER, M.A., D.D.S., Associate Professor of Dentistry; Head of Department of Postgraduate Education.

Associates

- WILLIAM BARNUM, D.M.D., Clinical Associate in Dentistry.
- JOHN C. BARTELS, D.M.D., Clinical Associate in Dentistry.
- M. MONTE BETTMAN, D.M.D., Clinical Associate in Dentistry; Head of Department of Periodontia.
- SAMUEL A. BRANDON, D.D.S., Clinical Associate in Dentistry.
- RALPH G. COOPER, D.M.D., Clinical Associate in Dentistry.
- RAY J. DAVIS, D.M.D., Clinical Associate in Dentistry.
- RALPH MOTT ERWIN, JR., D.M.D., Clinical Associate in Dentistry.
- RICHARD EVANS, B.S., D.M.D., Clinical Associate in Dentistry.
- JOHN D. FINLAY, B.S., D.M.D., Clinical Associate in Dentistry.
- HENRY C. FIXOTT, JR., D.M.D., Clinical Associate in Dentistry; Head of Department of Radiology.
- THOMAS D. HOLDER, B.A., D.M.D., Clinical Associate in Dentistry.
- CARL J. HOLLINGWORTH, M.D., Clinical Associate in Medicine.
- *MILTON JOHNSON, D.M.D., Clinical Associate in Dentistry.
- ALFRED H. KASMEYER, D.M.D., Clinical Associate in Dentistry.
- HERBERT A. KRUMBEIN, D.M.D., Clinical Associate in Dentistry.
- PAUL W. KUNKEL, D.M.D., Clinical Associate in Dentistry.
- †JOHN KURATLI, D.M.D., Clinical Associate in Dentistry.
- ROBERT L. LANDIS, M.A., D.M.D., Clinical Associate in Dentistry.
- RAYMOND LEROY, Ph.G., D.M.D., Clinical Associate in Dentistry.
- CHARLES H. MANLOVE, M.D., Clinical Associate in Pathology.
- THOMAS L. MEADOR, M.A., M.D., M.Ph., Clinical Associate in Medicine.
- ARNOL R. NEELY, D.M.D., Clinical Associate in Dentistry.
- FRANK C. PEARN, Ph.C., D.M.D., Clinical Associate in Dentistry.
- THOMAS D. PHILLIPS, D.M.D., Clinical Associate in Dentistry.
- GEORGE W. REDPATH, D.M.D., Clinical Associate in Dentistry.
- DENTON J. REES, D.M.D., Clinical Associate in Dentistry.
- ARTHUR SCHWARTZENHAUER, D.M.D., Clinical Associate in Dentistry.
- RICHARD P. STRAHL, D.M.D., Clinical Associate in Dentistry.
- BEN VIDGOFF, M.D., Clinical Associate in Medicine.

* On leave for military service.

† On leave of absence.

Assistant Professors

- GEORGE E. BATTERSON, M.A., Educational Adviser.
 WILLIAM S. CLIFFORD, D.M.D., Assistant Professor of Dentistry.
 DONALD G. REESE, B.S., D.M.D., Assistant Professor of Dentistry.
 TED RUSSELL, M.S., Business Manager and Registrar.
 BHIM SEN SAVARA, L.D.S., M.S., D.M.D., Assistant Professor of Dentistry.
 THEODORE SUHER, M.S., D.M.D., Assistant Professor of Dentistry; Acting Head of Department of Pedodontia.
 GUY A. WOODS, JR., M.S., D.D.S., Assistant Professor of Dentistry; Acting Head of Department of Orthodontia.

Assistants

- GEORGE J. COLLINGS, D.M.D., Clinical Assistant in Dentistry.
 WILLIAM R. DAVIS, D.M.D., Clinical Assistant in Dentistry.
 JOHN P. DICKSON, D.M.D., Clinical Assistant in Dentistry.
 DONALD G. ELAND, D.M.D., Clinical Assistant in Dentistry.
 GEORGE E. GULICK, D.M.D., Clinical Assistant in Dentistry.
 LYNN F. IHRINGER, D.M.D., Clinical Assistant in Pedodontia.
 HAROLD W. LUEDERS, M.D., Clinical Assistant in Pathology.

Instructors

- GEORGE E. BARKDOLL, Instructor in Dental Science.
 *ROBERT A. BISSETT, B.S., D.M.D., Instructor in Dentistry.
 DELBERT BLICKENSTAFF, B.S., Instructor in Pharmacology and Physiology.
 LOUISE L. BURKE, B.S., R.D.H., Instructor in Dental Hygiene.
 BARNEY C. BYBEE, B.S., D.M.D., Instructor in Dentistry.
 LORETTA F. CASE, R.N., B.S., Instructor in Dental Science.
 THOMAS H. CAHALAN, M.S. in L.S., Librarian.
 RUSSELL F. CULBERTSON, Instructor in Visual Education; Photographer.
 VINCENT K. DAVIS, M.S.D., D.M.D., Instructor in Dentistry.
 JOSEPH H. DELONG, D.M.D., Instructor in Dentistry.
 KATHERINE M. DOUGHERTY, R.D.H., Instructor in Dental Hygiene.
 *LOUIS E. EPPLETT, D.M.D., Instructor in Dentistry.
 WERNER FRAENKEL, Dr. Med. Dent., Instructor in Dentistry.
 WALTER C. FROMAN, JR., D.M.D., Instructor in Dentistry.
 EDWARD C. FUNK, D.M.D., Instructor in Dentistry.
 WILLIAM G. GALLAGHER, D.M.D., Instructor in Dentistry.
 MARGIT HELLEN, B.M., D.D.S., Instructor in Dentistry.
 ROBERT H. HOGENSEN, D.M.D., Instructor in Dentistry.
 CLARE HOLLY, Instructor in Histopathological Technics.
 WILLIAM W. HOWARD, B.S., D.M.D., Instructor in Dentistry.
 DONALD J. JEANNET, D.M.D., Instructor in Dentistry.

* On leave for military service.

JAMES L. JONES, D.M.D., Instructor in Dentistry.
LORNA M. KLIER, Instructor in Nutrition.
MATTHEW MASUOKA, D.M.D., Instructor in Dentistry.
RICHARD K. MINER, D.M.D., Instructor in Dentistry.
JOSEPH N. MORRIS, B.S., D.M.D., Instructor in Dentistry.
DONALD PASSMORE, A.S., D.M.D., Instructor in Dentistry.
*JOHN D. RYAN, D.M.D., Instructor in Dentistry.
WYNNE SAUNDERS, Instructor in Dental Science.
BERNADETTE SCULLY, R.N., Instructor in Dental Science.
RICHARD A. SHEARER, D.M.D., Instructor in Dentistry.
HENRY SHERWOOD, B.S., D.M.D., Instructor in Dentistry.
MARIE S. SLAWSON, B.S., Instructor in Bacteriology.
CHARLES C. STECHER, B.S., D.M.D., Instructor in Dentistry.
MYRON D. TEDFORD, B.S., M.S., Instructor in Anatomy.
ROBERT F. WATKINS, D.M.D., Instructor in Dentistry.
FRANCES WILSON, B.S., R.T., Instructor in Dental Science.
WILLIAM K. WRIGHT, D.M.D., Instructor in Dentistry.

Fellow

ROBERT R. SIDDOWNAY, D.M.D., Fellow in Oral Surgery.

Lecturers

JULIO L. BORTOLAZZO, Ed.D., Lecturer in Education.
JAMES C. CAUGHLAN, Ph.D., Lecturer in Educational Psychology.
ARNO H. DENECKE, A.B., LL.B., Lecturer in Dental Ethics and Jurisprudence.
HERMAN DICKEL, M.D., Lecturer in Psychology.
DON E. FOSTER, D.M.D., Lecturer in Practice Management.
CORNELIUS A. SABIN, B.A., Lecturer in Speech.

Research Assistants

DOROTHY DONNELLY, Research Assistant.
ROBERT E. SULLIVAN, Research Assistant.

Laboratory Technicians

ELDON P. GIPSON, Laboratory Technician.
CLYDE W. FENSE, Dental Technician.
FRANK M. WILSON, Laboratory Technician.

Laboratory Assistants

SHIRLEY N. CLARK, Laboratory Assistant, Child Study Clinic.
MAXINE T. DRAKE, Laboratory Assistant, Child Study Clinic.
FRANK GIMBLE, Laboratory Assistant, Department of Bacteriology.
WILLIAM E. GORMAN, Laboratory Assistant, Prosthetic Laboratory.
ROSETTA M. MARRION, Laboratory Assistant, Radiology Clinic.
EDWARD SAXEY, Laboratory Assistant, Department of Pathology.

* On leave for military service.

CLINICS

ERWIN T. BENDER, D.D.S., Superintendent of Clinics.
 M. MONTE BETTMAN, D.M.D., In Charge of Periodontia Clinic.
 LOUISE L. BURKE, B.A., R.D.H., In Charge of Dental Hygiene Clinics.
 KENNETH R. CANTWELL, B.S., D.M.D., In Charge of Operative Clinic.
 HENRY C. FIXOTT, JR., D.M.D., In Charge of Radiology Clinic.
 CHARLES H. MANLOVE, M.D., In Charge of Tumor Registry.
 HORACE M. MILLER, B.A., D.M.D., In Charge of Extraction Clinic.
 FRANK C. PEARN, D.M.D., In Charge of Root Canal Clinic.
 THEODORE SUHER, M.S., D.M.D., In Charge of Child Study and Pedodontia Clinic.
 MERRILL G. SWENSON, D.D.S., In Charge of Prosthetic Clinic.
 VINSON M. WEBER, M.A., D.D.S., In Charge of Postgraduate Clinic.
 GUY A. WOODS, JR., M.S., D.D.S., In Charge of Orthodontia Clinic.
 HELEN M. BROGAN, Secretary, Prosthetic Clinic.
 ESTHER CLASSEN, Clerk, Operative Clinic.
 RUBY H. DARBY, Assistant to Clinical Supervisor, Operative Clinic.
 GLADYS EVERTON, Clerk, Operative Clinic.
 FRANCES P. GIBSON, Secretary, Orthodontia Clinic.
 M. CATHERINE HIBBARD, Clerk, Operative Clinic.
 INEZ L. JOHNSON, Clerk, Operative Clinic.
 LOUISE JOHNSTON, Cashier, Operative Clinic.
 ALYCE JORDON, Clerk, Operative Clinic.
 ELSIE J. LARSON, Clerk, Operative Clinic.
 DONNA M. MOREAU, Clerk, Tumor Registry.
 ALICE M. SHIELDS, Clerk.
 MAUREEN R. WATSON, X-Ray Technician, Radiology Clinic.
 ISADORA M. WILLIAMS, Secretary, Prosthetic Clinic.

ADMINISTRATIVE AND SERVICE DIVISIONS**Administrative Office**

HAROLD J. NOYES, D.D.S., M.D., Dean.
 TED RUSSELL, M.S., Business Manager and Registrar.
 GEORGE E. BATTERSON, M.A., Educational Adviser.
 EUGENE WALTER BAUER, Assistant Office Manager.
 ZETTA DARLAND, Secretary to the Dean.
 PHYLLIS J. TERKLA, B.A., Admissions Secretary.
 JESSIE D. SNYDER, Secretary.
 GLORIA A. PACELLA, Secretary to the Business Manager.
 SHIRLEY A. HOUSTON, Secretary to the Registrar.
 LEIGH ORA GILBERT, Postgraduate Clerk.
 MARY M. MUIR, Faculty Secretary.
 ELIZABETH DRAPEAU, Secretary.
 MOREEN D. STANLEY, Secretary.

NADINE MORRIS, P.B.X. Operator and Receptionist.
DORA E. WITHAM, P.B.X. Operator and Receptionist.

Library

THOMAS H. CAHALAN, M.S. in L.S., Librarian.
JUDITH L. TAYLOR, B.A., Library Assistant.

Department of Illustration

RUSSELL F. CULBERTSON, Photographer.
FLORENCE M. REIFSTECK, Secretary.

Physical Plant

REINHOLD SICHAU, Plant Maintenance Engineer.
HARVEY C. LACHAPPELL, Maintenance Repairman.
WILLIAM BOETTCHER, Carpenter.

COMMITTEES

Admissions:

Dr. Erwin Bender
Mr. Ted Russell
Dr. Ellis Jump, chairman

Aptitude Testing:

Dr. Richard Evans
Dr. Joseph Morris
Mr. George Batterson, chairman

Awards and Scholarships:

Dr. William Wright
Dr. Guy Woods
Dr. William Clifford, chairman

Civil Defense:

Dr. Vinson Weber
Dr. Marshall Snyder
Major Arnold Kirchoff
Dr. Horace Miller, chairman

Clinic:

Dr. Kenneth Cantwell
Dr. Horace Miller
Dr. Guy Woods
Dr. Merrill Swenson
Dr. Erwin Bender, chairman

Commencement:

Dr. Vincent Davis
Dr. Joseph DeLong
Dr. Donald Reese, chairman

Curriculum:

Dr. Barney Bybee
Dr. Theodore Suher
Mr. George Batterson
Dr. Nilkanth Phatak, chairman

Examination Procedures:

Dr. Donald Passmore
Mr. Myron Tedford
Dr. Barney Bybee
Dr. Merrill Swenson, chairman

Executive:

Dr. Vinson Weber
Dr. Marshall Snyder
Dr. Merrill Swenson
Mr. Ted Russell
Dr. Erwin Bender, chairman

Library:

Dr. Howard Hackedorn
Dr. Donald Passmore
Mr. Thomas Cahalan, chairman

Loan Fund:

Dr. Marshall Snyder
Dr. Erwin Bender
Dr. Edward Funk
Mr. Ted Russell, chairman

Publications:

Dr. Merrill Swenson
Dr. Marshall Snyder
Dr. Jeff Minckler, chairman

Research:

Dr. Frank Everett
Dr. Theodore Suher
Dr. Marshall Snyder, chairman

Rules and Procedures:

Dr. Marshall Snyder
Dr. Erwin Bender
Mr. Ted Russell
Dr. Vinson Weber, chairman

Scholarship:

Dr. Erwin Bender
Dr. Jeff Minckler
Dr. Howard Hackedorn
Dr. Merrill Swenson
Dr. Marshall Snyder, chairman

Student Affairs:

Dr. Walter Froman
Dr. John Ryan
Dr. Vinson Weber, chairman

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 through performing oral prophylaxis and assisting advanced students in the simpler procedures of clinical practice; 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 "pre-clinical" 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 techniques 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; (2) postgraduate courses to help graduate dentists keep abreast with the new concepts and skills of the progressing science of dentistry; (3) a two-year program for the training of dental hygienists (see pp. 45-52). When faculty and facilities permit, the Dental School hopes to develop, in addition, a program of specialized advanced study and research in dentistry, as a part of the program of the Graduate School of the University of Oregon.

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 as a school of the University.

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 1910 the college erected the present home of the Dental School, at Northeast Sixth and Oregon streets. A second unit was completed in 1921. 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.

Advisory Council

THE ACT of the 1945 Oregon Legislature establishing the University of Oregon Dental School provided for the creation of an Advisory Council of five members to advise the State Board of Higher Education concerning the conduct of the school. The Advisory Council is appointed by the Governor of Oregon from the membership of the Oregon State Dental Association. The present Council members are:

	Term Expires
L. W. PEATE, D.M.D., Klamath Falls.....	1952
FRANK V. PRIME, D.M.D., Salem.....	1953
M. MONTE BETTMAN, D.M.D., Portland.....	1954
J. H. ROSSMAN, D.M.D., Portland.....	1955
A. T. OBERG, D.D.S., Eugene.....	1956

The officers of the Advisory Council are: Dr. J. H. Rossman, chairman; Dr. Frank Prime, vice-chairman; Dr. M. Monte Bettman, secretary.

Facilities

THE DENTAL SCHOOL is housed in a fireproof building, located on Northeast Sixth Avenue between Oregon and Pacific streets in Portland. The clinics, laboratories, classrooms, offices, etc., occupy 66,554 square feet of floor space. The unusually extensive glass area of the facade provides an abundance of natural light in the clinics and laboratories. Recent large expenditures for instructional equipment have greatly improved the facilities of the school.

Library

THE DENTAL SCHOOL Library contains 6,100 bound volumes and currently receives more than 150 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 Dental School. These include useful current material 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.

Admission

IN SELECTING dental student candidates, the Admissions Committee takes into account the following factors: (1) satisfactory completion of minimum pre-dental course requirements; (2) college grades; (3) aptitude-test results; (4) personal factors revealed in interviews and by letters of recommendation;

(5) geographical considerations (the Dental School recognizes that its primary obligation is to provide an opportunity for dental education for residents of Oregon and the Pacific Northwest); (6) veteran status; (7) the applicant's affiliations or close association with the dental profession; (8) the amount of college work completed (as a general rule, applicants who offer only the minimum pre-dental college preparation will need, for favorable consideration, somewhat higher grades than those who have completed three or more years of college work).

The following are required of applicants: (1) participation in a three-day orientation and technic-aptitude testing program administered by the University of Oregon Dental School; (2) an aptitude test administered by the Council on Dental Education of the American Dental Association, or a college-aptitude test administered by the Educational Testing Service.

Applicants should indicate in their letters of application whether they wish to take the Council on Dental Education aptitude test or the Educational Testing Service test.

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 examination in the fields of science reading and 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 mailed to the applicant when his application is received.

All dental schools in the United States are participating in the American Dental Association testing program. The test is offered several times each year. The results are sent directly from the American Dental Association office in Chicago to the schools which are interested in the particular applicant.

Those wishing to take the American Dental Association test should make application direct to the Council on Dental Education of the American Dental Association office, 222 East Superior Street, Chicago 11, Illinois. Information concerning dates and locations of testing centers will be provided by the American Dental Association office. Applicants planning to apply for admission to more than one dental school should take the American Dental Association test rather than the Educational Testing Service test described below, since the A.D.A. test is required by many dental schools. The charge for the American Dental Association test is \$10.00.

Educational Testing Service Test. Information concerning the test administered by the Educational Testing Service may be obtained by writing Box 9896, Los Feliz Station, Los Angeles 27, California. The Educational Testing Service battery does not include a test of manual-dexterity skills. The charge for the E.T.S. test is \$6.00.

Dental School Technic Testing and Orientation Program. In addition to the tests described above, the University of Oregon Dental School administers a somewhat more inclusive test of technical ability; the test is given several times each year. This test and the accompanying orientation program is required of all applicants. The technic tests resemble 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 and orientation extends through a three-day period. 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.

The orientation portion of the three-day 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 expected 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.

Because of the time and expense incurred, the Admissions Committee selects candidates for the tests and orientation conferences after a preliminary screening on the basis of other qualifications. Applicants who have been selected through this screening process will receive invitations to participate in the orientation and testing program. A fee of \$5.00 is charged to cover the cost of materials used.

Orientation Program for High-School and College Students. A testing and orientation program similar to that described above for applicants for admission is also available for high-school and college students who wish to learn more about the dental and dental-hygiene professions and about the abilities and skills required in these professions. This special program is offered once each year, about the middle of June, 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 health service, and the performance of technic projects to test technic and artistic abilities required in dentistry and dental hygiene.

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

Application Procedure

Application for admission to the Dental School should be made as soon as possible after November 1 of the year preceding matriculation, and should be addressed to the Admissions Committee, care of the Registrar's Office of the Dental School. The final date for filing application is March 15. 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.
- (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 he 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 expenses for fees, equipment, and supplies; and personal and living expenses.

(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).

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.

Admission Requirements

For admission to the professional curriculum in dentistry, the University of Oregon Dental School requires the completion of a minimum of two academic years (90 term hours, 60 semester hours) of college preparation, with a grade-point average of 2.00 or higher. This college work must include:

- (1) English Composition—9 term hours.
- (2) General Chemistry, with laboratory—15 term hours.
- (3) Organic Chemistry, with laboratory—8 term hours.
- (4) Biology, with laboratory—12 term hours.
- (5) Physics, with laboratory—12-15 term hours.

The courses in science presented for the satisfaction of these requirements must be of the same level as those listed in the predental curricula offered at the University of Oregon and Oregon State College (see pp. 20-21 and the general catalogs of these institutions). Any variation from this predental science pattern must be approved in advance, in writing, by the official predental adviser of the institution where the student is taking his predental work and by the Registrar of the Dental School. As a general rule, all required predental science courses should be the equivalent of the corresponding standard premedical courses.

Although the two-year predental program satisfies the minimum admission requirements of the Dental School, students are encouraged to devote additional time to their predental education, whenever possible.

In selecting elective subjects to complete their predental college programs, students are advised to choose courses in the social sciences and the humanities and to avoid concentration in the physical and biological sciences. It is desirable that the student acquire as broad and liberal an educational background as possible, before entering upon the highly specialized professional work of the Dental School.

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 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 are submitted. The original credentials, the translation, and the

explanation should be sent directly to the Dental School by the consul. Foreign credentials must satisfy not only the specific entrance requirements of the Dental School but also the general admission requirements of the University of Oregon. A foreign student is required to have a 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. Rarely is it possible for a foreign student to qualify for graduation from the Dental School in less than two years; three or more years may be required.

Special Students

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

Predental Curriculum

THE two-year and three-year predental curricula offered by the University of Oregon at Eugene, which are shown below, may serve as a useful guide to students preparing for admission to the Dental School at other institutions.

TWO-YEAR CURRICULUM

First Year

	Term hours		
	F	W	S
General Chemistry (Ch 201, 202, 203).....	5	5	5
General Zoology (Bi 201, 202, 203).....	4	4	4
Mathematics	4	4	4
English Composition (Wr 111, 112, 113).....	3	3	3
Physical Education	1	1	1
Military Science	1	1	1
	18	18	18

Second Year

Organic Chemistry (Ch 226, 227).....	4	4	..
Analytical Chemistry (Ch 220).....	..	..	5
General Physics (Ph 201, 202, 203).....	4-5	4-5	4-5
Social Science	3	3	3
Literature	3	3	3
Physical Education	1	1	1
Military Science	1	1	1
	16-17	16-17	17-18

THREE-YEAR CURRICULUM

First Year

	Term hours		
	F	W	S
General Chemistry (Ch 201, 202, 203).....	5	5	5
Mathematics	4	4	4
English Composition (Wr 111, 112, 113).....	3	3	3
Social Science or Literature	3	3	3
Physical Education	1	1	1
Military Science	1	1	1
	17	17	17

Second Year

Organic Chemistry (Ch 226, 227).....	4	4	--
Analytical Chemistry (Ch 220).....	--	--	5
General Zoology (Bi 201, 202, 203).....	4	4	4
Literature or Social Science	3	3	3
Physical Education	1	1	1
Military Science	1	1	1
Electives	3-5	3-5	3-4
	16-18	16-18	17-18

Third Year

General Physics (Ph 201, 202, 203).....	4-5	4-5	4-5
Advanced Biology	4	4	--
Electives—Sculpture (AA 293) and Jewelry (AA 257) recommended.....	8-9	8-9	8-9
	16-18	16-18	16-18

With a proper choice of preidental electives, students completing the three-year curriculum may qualify for the Bachelor of Arts or Bachelor of Science degree from the University of Oregon, after one or more years of Dental School work. The University accepts a maximum of 48 term hours of professional work in dentistry toward a bachelor's degree; courses in the basic sciences, taken at the Dental School, may be counted toward the satisfaction of major requirements in biology or general science.

A student who completes a three-year preidental program at another accredited college or university may find it possible to qualify for a bachelor's degree, under similar conditions, at his own institution.

Registration Procedure

ONE DAY at the opening of the fall term is devoted to registration. At the opening of the 1951-52 session, first-year students report for registration at 8:00 a.m. on Monday, October 1; second-year students report at 10:00 a.m.; and third- and fourth-year students report at 1:00 p.m. Since the registration schedule is very crowded, promptness in reporting is essential.

Scholarship Regulations

THE SCHOLARSHIP requirements of the Dental School conform to the general standards of the University of Oregon, and to the requirements of 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.

Unsatisfactory work may receive the following grades: *Condition*, for work of a borderline quality; *F*, failure.

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

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.

Condition. 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. *C* is the highest grade that may be granted on re-evaluation. If not removed within one academic year, a *Condition* becomes an *F*.

Failure. To continue toward the completion of his Dental School work, the student must repeat a course in which he has received a 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.

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 term hour of *A* grade, 3 points for each term hour of *B*, 2 points for each term hour of *C*, 1 point for each term hour of *D*, and 0 points for each term hour of *Condition* 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 term hours in which grades of *A*, *B*, *C*, *D*, *F*, or *Condition* are received.

Scholarship Requirements

Scholarship 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.

Any student whose general academic performance is questionable may be placed on probation. A student on probation may be dropped from the Dental School at any time by action of the faculty.

A senior student who fails to complete all requirements for graduation with his class is expected to make up all deficiencies within a period of one additional term; except by special permission, a student who does not qualify for graduation within this period must 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.

Fees and Expenses

UNDERGRADUATE students at the Dental School pay uniform regular fees each term during the four years of the professional curriculum. The Board of Higher Education reserves the right to change the schedule of fees without notice. Dental School fees for the academic year 1951-52 total \$140.00 per term for residents of Oregon and \$200.00 for nonresidents. Regular fees, special fees, deposits, and other instructional expenses are listed below:

Regular Fees

Tuition, per term.....	\$60.00
Laboratory and course fee, per term.....	69.50

Incidental fee, per term	5.50
Building fee, per term.....	5.00
Nonresident fee, per term.....	60.00

Special Fees

Part-time fee—for students registered for 6 term hours or less, per term hour (minimum \$16.00).....	\$ 8.00
Summer clinic fee (5 weeks).....	16.25
Auditor's fee, lecture courses, per term hour.....	4.00
Auditor's fee, laboratory courses, per term hour.....	6.50
Credit-evaluation fee—payable when transcript of preidental credits is submitted	5.00
Orientation and Aptitude Course fee.....	5.00
Late-registration fee—paid by students registering on the third day following registration day or later; per day (maximum, \$5.00).....	1.00
Microscope rental fee, per term.....	5.00
Microscope rental fee, overnight.....	.25
Transcript fee—one furnished without cost.....	1.00
Graduation fee—paid by all students obtaining a degree.....	15.00

Deposits

Entrance deposit—payable on acceptance of application.....	\$25.00
General deposit—paid once each year.....	10.00
Auditor's breakage deposit, for laboratory courses.....	5.00

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 \$10.00 general deposit and the auditor's \$5.00 breakage deposit, less any deductions which may have been made, are refunded when the student's enrollment is terminated.

The \$25.00 entrance deposit, paid by entering students on acceptance of application, applies on first-term tuition. If the applicant does not enter the Dental School, the deposit will be refunded if the Registrar is notified not less than one month before the scheduled registration day.

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, or (e) a student whose father is domiciled in the state of Oregon as defined under (1) below.

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

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

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

(2) A student whose official records show his own or his 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 his parent's previous domicile has been abandoned and a new one established in Oregon in accordance with these regulations. A resident student will be reclassified as nonresident at any time his Oregon domicile is lost.

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.....	\$90.00	\$640.00	\$730.00
Second year.....	90.00	400.00	490.00
Third year.....	85.00	190.00	275.00
Fourth year.....	40.00	150.00	180.00

Living Expenses

Single rooms may be obtained in Portland for about \$20.00 a month; two- and three-room apartments rent for about \$60.00 a month; the rate for room and board averages \$65.00 a month. The Dental School has no dormitory facilities. Several

Dental School fraternities provide living accommodations for their members. Because of the present housing shortage, students accepted for admission to the Dental School are advised to arrange for housing before the opening of the school year.

Scholarships, Awards, and Loan Funds

State Scholarships. A limited number of state fee scholarships are awarded annually to superior students who are in need of financial assistance. The scholarships cover tuition and the laboratory and course fee. Recipients must, however, pay the incidental fee, the building fee, and special fees. Applications should be made through the office of the dean of the Dental School not later than March 15.

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 should be made through the office of the dean of the Dental School not later than March 15.

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 the 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.

Marshall 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.

Herbert C. Miller Emergency Loan Fund. Loans from this fund are available to dental students having a grade-point average of 2.00 or better. Loans are limited to a period of sixty days. Application should be made to the Business Office.

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 office of the dean of the Dental School.

University of Oregon Loan Funds. The University of Oregon administers student loan funds totaling approximately \$215,000. Except in the case of a few funds which are specifically restricted to University students at Eugene, students at the Dental School are eligible for loans from these loan funds on the same basis as students on the campus at Eugene. Regulations governing loans are on file in the Dental School Business Office.

Student Health Service

THE Student Health Service provides physical examinations, diagnostic service, and emergency care for Dental School students. The service does not include medical or surgical treatment beyond diagnosis and emergency attention.

Nursing and first aid are provided during school hours by members of the Dental School staff; at other times emergency care is available for students through an arrangement with physicians on the faculty of the University of Oregon Medical School.

All entering first-year students are given a physical examination, including intra-oral X-ray, visual acuity test, laboratory analysis, and chest examination and X-ray. All fourth-year students are given a similar examination before graduation. Any student may obtain a free physical examination on application at the Health Service. The school may require a student to take a physical examination at any time.

Student Organizations

THE Associated Students of the University of Oregon Dental School, assisted by a faculty Committee on Student Activities, 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. The officers of the Student Council for 1950-51 are: Hugh M. Amsberry, president; Robert D. Brogan, vice-president; W. Boyd Jacobsen, treasurer; Walter N. Johnson, secretary; Theodore R. Norman, athletic manager; Francis W. Ericksen, 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 include two students from each of the dental fraternities having chapters at the Dental School and two unaffiliated students. Selection is based primarily on scholastic achievement; 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 1950-51 are: Delta Sigma Delta, Ralph T. Tjarnberg, John P. Anderson; Xi Psi Phi, Gordon J. Stratford, Ronald C. Rabe; Psi Omega, Kenneth R. Jensen, William Tempel (president); faculty adviser, Dr. Harold J. Noyes.

Alumni Association

THE University of Oregon Dental School Alumni Association has a membership of over 3,000 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 annually 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 1950-51 are:

CARL E. LIEBE, D.M.D.....	President
THOMAS D. HOLDER, D.M.D.....	First Vice-President
DOUGLAS SUTHERLAND, D.M.D.....	Second Vice-President
CLYDE R. FLOOD, D.M.D.....	Third Vice-President
ARNOL R. NEELY, D.M.D.....	Secretary-Treasurer
JAMES A. GARSON, D.M.D.....	Caementum Editor
ROBERT R. ANDERSON, D.M.D.....	Assistant Caementum Editor

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 program includes: (1) short refresher courses, and (2) longer sequences of instruction in special phases of dental practice. Short courses are also offered for dental assistants, to improve their efficiency and widen their sphere of useful service to the dentist.

Plans for the development of the postgraduate program call for courses in: (1) standard clinical methods and technics (refresher); (2) new technics and procedures; (3) methods of diagnosis; (4) applied basic science; (5) office procedures and practice management; (6) socio-economic aspects of dental practice, including public health and industrial dentistry; (7) technics and procedures in special fields, such as children's dentistry, periodontia, oral surgery, etc.—with differentiated instruction for the general practitioner and for the specialist; (8) methods, objectives, and technics of dental pedagogy.

Special facilities for postgraduate study include a fully equipped nine-chair postgraduate clinic, with an adjoining classroom; a laboratory adjacent to the clinic for casting, investing, and other clinical laboratory procedures; and a laboratory for instruction in dental technics. The science laboratories, Library, and other facilities of the 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 refresher program has several phases: (1) Ten-week courses providing 70 hours of instruction in each of several special subjects; each class meets for 7 hours one day a week; a postgraduate student may take one or as many as five subjects during the ten-week period. (2) Two-week courses, meeting 7 hours a day, five days a week for the two-week period. (3) Evening courses given in a series of from two to ten sessions.

A full-year course in dental care for children includes instruction and clinical experience at the Dental School, hospital clerkships at the Doernbecher Hospital and the University of Oregon Medical School, and field work arranged in cooperation with the Oregon State Board of Health.

Information concerning the postgraduate schedule of courses and concerning fees will be provided, on request, by the Postgraduate Department 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 systematic 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.

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.

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 knowledge in the dental sciences.

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.

Department of Illustration

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 application to the field of professional dental education. The department produces lantern slides, 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.

Curriculum in Dentistry

Leading to the D.M.D. Degree

THE PURPOSE of the undergraduate curriculum 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 reciprocal 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 year, 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 within the framework of the required course of study, 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.

TABLE OF COURSES, TIME, AND CREDIT

		Clock hours				Term hours
		Lect.	Conf.	Lab.	Clinic Total	
First Year						
DO 311.....	Dental Orientation.....	11	....	....	....	11
DO 312.....	Technical Composition.....	11	....	....	....	11
Pr 412, 413, 414.....	Prosthetic Technic & Clinic.....	22	....	165	66	253
Pr 418.....	Prosthetic Technic.....	11	....	66	....	77
Pr 411.....	Materials.....	....	....	22	....	22
Op 419.....	Operative Technic.....	11	....	44	....	55
An 420, 421.....	General Anatomy.....	33	....	99	....	132
An 418.....	Oral History.....	11	....	22	....	33
An 423.....	General Histology.....	22	....	66	....	88
An 425, 426.....	Dental Anatomy.....	33	....	99	....	132
An 428.....	Oral Histology.....	11	....	22	....	33
Op 411.....	Oral Hygiene.....	11	....	....	....	11
Op 412.....	Oral Prophylaxis.....	....	....	....	22	22
BCh 415, 416.....	Biochemistry.....	44	....	88	....	132
Phy 419.....	Physiology.....	11	....	....	....	11
Phy 420.....	Physiology.....	11	....	33	....	44
		253	....	726	88	1,067
						48
Second Year						
DO 312.....	Journal Club.....	....	11	....	....	11
Phy 430.....	Growth & Development.....	11	....	....	....	11
Ord 429.....	Orthodontia.....	....	....	44	....	44
Pr 420, 421, 422.....	Prosthetic Technic.....	....	....	121	....	121
Pr 424, 425, 426.....	Prosthetic Clinic.....	....	....	....	132	132
Pr 423.....	Ceramics.....	....	....	22	....	22
Pr 428.....	Clinical Prosthesis.....	11	....	....	....	11
Op 420.....	Operative Technic.....	22	....	66	....	88
Op 423.....	Operative Clinic.....	....	11	....	77	88
Op 428.....	Operative Clinic.....	....	....	....	44	44
An 422.....	Head and Neck Anatomy.....	22	....	66	....	88
An 427.....	Neuroanatomy & Physiology.....	11	....	....	....	11
Bac 420.....	Disease Resistance.....	11	....	....	....	11
Pth 420, 421.....	General Pathology.....	33	11	99	....	143
Rad 420, 421.....	Dental Radiology.....	22	....	....	....	22
OS 421.....	Local Anaes. & Exodontia.....	11	....	....	33	44
Pth 423.....	Oral Pathology.....	11	....	22	....	33
Phy 421, 422.....	Physiology.....	33	....	99	....	132
Phy 431.....	Physiology of Occlusion.....	11	....	....	....	11
		209	33	539	286	1,067
						44
Third Year						
DO 312.....	Journal Club.....	....	11	....	....	11
Ord 430.....	Orthodontia.....	11	....	33	....	44
Ord 431.....	Orthodontia.....	....	11	....	....	11
Ord 432.....	Orthodontia Conference.....	....	11	....	....	11
Ord 433.....	Orthodontia.....	11	....	....	....	11
Pr 430.....	Clinical Prosthesis.....	11	....	....	....	11
Pr 431.....	Crown and Bridge.....	11	....	....	....	11
Pr 432.....	Materials.....	11	....	22	....	33
Pr 436.....	Ceramics.....	....	....	22	....	22
Op 437.....	Root Canal Therapy.....	11	....	22	....	33
Op 430.....	Clin. Operative Dentistry.....	11	....	....	....	11
Ped 430.....	Pedodontia.....	11	....	22	....	33
OS 434.....	Anaesthesia.....	11	....	....	....	11
Bac 435.....	Bacteriology.....	33	....	66	....	99
Op 432.....	Caries Prevention.....	11	....	22	....	33

	Clock hours				Term hours	
	Lect.	Conf.	Lab.	Clinic Total		
401.....Special Studies (applied experimental science).....	....	....	22	....	22	1
OD 430, 431.....Oral Diagnosis & Treat.....	22	22	....	....	44	2
OD 432.....Clin. Diagnostic Meth.....	....	....	22	....	22	1
OD 433.....Diagnostic Clinic.....	22	....	....	....	22	2
Nu 435.....Nutrition.....	11	....	....	....	11	1
Rad 435.....Dental Rad. Clinic.....	....	....	....	11	11	1
Med 439.....Principles of Medicine.....	11	....	....	....	11	1
OS 430, 431, 432.....Oral Surgery.....	33	....	....	22	55	4
Per 438, 439.....Periodontia.....	22	....	....	22	44	2
Pth 434.....Oral Pathology.....	11	....	22	....	33	2
Phc 438, 439.....Pharmacology.....	33	....	22	....	55	4
Pr 433, 434, 435.....Prosthetic Clinic. Pr. }.....	....	....	....	396	396	10
Op 433, 434, 435.....Operative Clinic. Pr. }.....	....	....	....	396	396	10
CP 433, 434, 435.....General Clinic. Pr. }.....	....	....	....	396	396	10
	308	55	297	451	1,111	54

Fourth Year

DO 441.....Dental Econ. & History.....	11	....	....	....	11	1
DO 442.....Dental Ethics & Jurisp.....	11	....	....	....	11	1
DO 445.....Practice Mgt. (elective).....	11	....	....	....	11	--
DO 407.....Seminar.....	....	11	....	....	11	..
PH 440, 441.....Public Health.....	22	....	....	....	22	2
Pr 440.....Clinical Prosthesis.....	11	....	....	....	11	1
Pr 441.....Crown and Bridge.....	11	....	....	....	11	1
Op 440.....Clin. Operative Dentistry.....	11	....	....	....	11	1
Ped 441.....Pedo. Orthodontia Conf.....	....	11	....	....	11	1
OS 444.....Anaesthesia Clinic.....	....	....	....	11	11	1
Med 443, 444, 445.....Hospital Clinics.....	....	....	....	18	18	3
Pth 441.....Pathology Conference.....	....	11	....	....	11	1
401.....Special Studies (applied experimental science).....	....	....	22	....	22	1
Med 440, 441.....Principles of Medicine.....	22	....	....	....	22	2
OS 440.....Clinical Surgery.....	11	....	....	....	11	1
Per 440.....Periodontia.....	11	....	....	....	11	1
Per 441.....Periodontia Clinic.....	....	....	....	22	22	1
An 440.....Surgical Anatomy.....	11	....	....	....	11	1
Pth 445.....Oral Pathology.....	11	....	22	....	33	2
Phc 440.....Pharmacology.....	11	....	22	....	33	2
Phc 445.....Dental Materia Medica.....	11	....	....	....	11	1
Phc 446.....Applied Therapeutics.....	11	....	....	....	11	1
Pr 443, 444, 445.....Prosthetic Clinic. Pr. }.....	....	....	....	715	715	20
Op 443, 444, 445.....Operative Clinic. Pr. }.....	....	....	....	715	715	20
CP 443, 444, 445.....General Clinic. Pr. }.....	....	....	....	715	715	20
Phy 445.....Applied Physiology Conf.....	....	11	....	....	11	1
OD 443.....Diagnostic Clinic.....	....	22	....	....	22	--
	187	66	66	766	1,085	47

RECAPITULATION

First Year.....	253	....	726	88	1,067	48
Second Year.....	209	33	539	286	1,067	44
Third Year.....	308	55	297	451	1,111	54
Fourth Year.....	187	66	66	766	1,085	47
	957	154	1,628	1,591	4,330	193

Description of Courses

DENTAL ORIENTATION

DO 311. Dental Orientation. 1 hour fall.

First year. The ideals of the dental profession; its aims, purposes, and public and individual responsibilities. The objectives and methods of the dental curriculum. Introduction to the use of the Library and other Dental School facilities. Lectures, 11 hours. Dr. Noyes, staff, and members of the profession.

DO 312. Technical Composition. 1 hour 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. Lectures, 11 hours; lectures supplemented by Journal Club, second and third years, 22 hours. Mr. Batterson, staff.

DO 401. Special Studies. Hours to be arranged.**DO 407. Seminar.** Hours to be arranged.

Fourth year. Lectures and informal discussions 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. Dr. Noyes.

DO 441. Dental Economics and History. 1 hour fall.

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. 11 hours. Mr. Batterson, staff, and visiting lecturers.

DO 442. Dental Ethics and Jurisprudence. 1 hour winter.

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 hours. Mr. Denecke.

DO 445. Practice Management. Spring, no credit.

Elective. Practical consideration of methods and problems associated with operating and maintaining a dental office; fiscal, personnel, and property management. Lectures, 11 hours. Dr. Foster.

ANATOMY

Department Head: Dr. Jump.

Professor: Ellis B. Jump. Instructors: Werner Fraenkel, Margit Hellen, Clare Holly, Myron Tedford.

An 401. Special Studies. Hours to be arranged.**An 418. Oral Histology.** 2 hours spring.

First year. Instruction continued in An 428. 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, 11 hours; laboratory, 22 hours. Drs. Jump, Hellen.

An 420, 421. General Anatomy. 4, 2 hours.

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 hours; laboratory, 99 hours. Drs. Jump, Hellen, Fraenkel, Mr. Tedford.

An 422. Head and Neck Anatomy. 4 hours fall and 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 hours; laboratory, 66 hours. Credit granted at end of winter term. Drs. Jump, Hellen, Mr. Tedford.

An 423. General Histology. 4 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 hours; laboratory, 66 hours. Dr. Jump, Mr. Tedford.

An 427. Neuroanatomy and Physiology. 1 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 disease. Lectures and demonstrations, 11 hours. Drs. Jump, Phatak.

An 425, 426. Dental Anatomy. 2, 4 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 replaces individual teeth or parts of teeth, in wax, on mounted plaster models. Consideration given, during the last term, to the deciduous teeth. The instruction is offered under the supervision of the Department of Operative Dentistry. Lectures, 33 hours; laboratory, 99 hours. Drs. Wright, Stecher, Suher.

An 428. Oral Histology. 2 hours spring.

First year. For description, see An 418. Lectures, 11 hours; laboratory, 22 hours.

An 440. Surgical Anatomy. 1 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 hours. Dr. Jump.

BACTERIOLOGY

Department Head: Dr. Snyder.

Professor: Marshall L. Snyder. Associate: Robert Landis. Instructor: Marie Slawson.

Research Assistant: Dorothy Donnelly.

Bac 401. Special Studies. Hours to be arranged.**Bac 420. Disease Resistance.** 1 hour fall.

Second year. Fundamental concepts of infection by and resistance to microbial agents of disease, as a basis for understanding pathological principles. Lectures and demonstrations covering the classification of agents of disease, the problems of virulence and invasion, nonspecific and specific defense mechanisms, and hypersensitivity. 11 hours. Dr. Snyder.

Bac 435. Bacteriology. 6 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 hours; laboratory, 66 hours. Drs. Snyder, Landis, and assistants.

BIOCHEMISTRY

Associate Professor: Howard M. Hackedorn.

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

BCh 415, 416. **Biochemistry.** 4, 2 hours fall, winter.

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 concerned with tissue metabolism, with particular emphasis on bone and mineral metabolism; energy and tissue metabolism, including biological oxidation and reduction, muscle metabolism, anaerobic and aerobic carbohydrate metabolism with the integration of lipids and proteins; detailed study of composition of tissue. Lectures, 44 hours; laboratory, 88 hours. Dr. Hackedorn.

GENERAL CLINICAL PRACTICE

Associate Professors: Erwin T. Bender, Kenneth R. Cantwell. Associates: Ray Davis, Thomas D. Phillips, Arthur Schwanzenhauer. Assistant Professor: Theodore Suher. Instructors: Vincent Davis, Edward Funk, William Gallagher, James L. Jones, Donald Passmore, John Ryan, Robert Watkins.

CP 433, 434, 435. **General Clinical Practice.** Hours to be arranged.

Third year. Provides clinical experience in the treatment of oral disease. The entire oral health problem of each patient is determined by examination, laboratory aids, and departmental consultation. A treatment program is prepared and, after approval, executed under supervision by the student who has the care of the patient. Treatment and observation of the patient continues to be the responsibility of the student until graduation. General Clinic staff.

CP 443, 444, 445. **General Clinical Practice.** Hours to be arranged.

Fourth year. For description, see CP 433, 434, 435. General Clinic staff.

GENERAL PATHOLOGY

Acting Department Head: Dr. Minckler.

Associate Professor: Jeff Minckler. Associate: Charles H. Manlove. Instructors: Clare Holly, Frances Wilson. Assistant: Harold Lueders.

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

Pth 420, 421. **General Pathology.** 4, 2 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. Systematic 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, 33 hours; conference, 11 hours; laboratory, 99 hours. Drs. Minckler, Lueders, Miss Wilson.

MILITARY SCIENCE AND TACTICS

Professor: Major Arnold W. Kirchoff.

- Mil 411, 412, 413. Reserve Officers Training (First Year). 1 hour each term.
 Mil 421, 422, 423. Reserve Officers Training (Second Year). 1 hour each term.
 Mil 431, 432, 433. Reserve Officers Training (Third Year). 1 hour each term.
 Mil 441, 442, 443. Reserve Officers Training (Fourth Year). 1 hour each term.

Elective. Emphasis on the organization and methods used by the United States Army Medical Service in the treatment and evacuation of battle casualties. At the end of the second or third year, those who participate in the advanced course (Mil 431, 432, 433, Mil 441, 442, 443) are required to attend a six-week summer camp. Students enrolled in the advanced course receive a monthly monetary return for subsistence, plus travel expenses and pay while in camp. Lectures, 1 hour a week throughout the four years of the dental curriculum. Major Kirchoff.

NUTRITION

Associate Professor: Nilkanth M. Phatak. Instructor: Lorna Klier.

- Nu 401. Special Studies. Hours to be arranged.
 Nu 435. Nutrition. 1 hour fall.

Third year. Application of the principles of dietetics as a practical therapeutic tool. Nutrition therapy in dental practice. Lectures, 11 hours. Dr. Phatak, Mrs. Klier.

OPERATIVE DENTISTRY

Department Head: Dr. Cantwell.

Associate Professors: Kenneth R. Cantwell, Theodore Suher. Associates: John C. Barthels, Ray J. Davis, R. Mott Erwin, Jr., Thomas D. Phillips, Frank C. Pearn, Arthur Schwartz-hauer. Assistant Professor: William S. Clifford. Instructors: Walter C. Froman, Edward C. Funk, William Gallagher, Donald J. Jeannet, Lorna Klier, Matthew Masuoka, John D. Ryan, Richard A. Shearer, Robert F. Watkins, William K. Wright.

- Op 401. Special Studies. Hours to be arranged.
 Op 411. Oral Hygiene. 1 hour winter.

First year. Principles and methods of mouth hygiene and prophylaxis. Foreign deposits on the teeth, calculus, plaques and stains, and their removal. Tooth-brushes and toothbrushing methods, dentifrices, mouthwashes. Orientation of the student to clinical applications of oral hygiene. Lectures and demonstrations, 11 hours. Drs. Holder, Shearer.

- Op 412. Oral Prophylaxis. Fall and winter, no credit.

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 periodontoclasia, caries, lesions, and other hard- and soft-tissue changes affecting the oral hygiene of the patient. Dr. Holder.

- Op 419. Operative Technic. 3 hours spring.

First year. Introductory course in operative dentistry. Principles of cavity

preparation and cavity design in relation to the histological structure of the teeth and the occlusal forces that the restoration will receive. The student first prepares cavities in plaster teeth, and then applies the skills acquired to extracted permanent teeth to familiarize himself with the hardness and cutting qualities of the enamel and dentin. Lectures, 11 hours; laboratory, 44 hours. Drs. Cantwell, Watkins, Froman.

Op 420. Operative Technic. 4 hours fall.

Second year. Instruction, extending through the fall and winter terms, integrated with Op 423. Continuation of cavity-preparation instruction begun in Op 419. The physical, chemical, and aesthetic properties of the various filling materials. The student places fillings of cast gold, gold foil, silver amalgam, silicates, and self-curing plastics. Laboratory technic is accompanied by 11 hours of advanced oral-prophylaxis clinic. Lectures and demonstrations, 33 hours; laboratory and clinic, 143 hours. Drs. Cantwell, Watkins, Froman, Funk, Holder, Shearer.

Op 423. Operative Clinic. 3 hours winter.

Second year. For description, see Op 420.

Op 428. Operative Clinic. 1 hour spring.

Second year. Application of rubber dams, patient management, clinical routine. The student spends the last half of the term in the general clinic, performing simple operations and observing clinical procedures. Demonstrations, 11 hours; clinic, 33 hours. Drs. Cantwell, Watkins, Froman, Funk.

Op 430. Clinical Operative Dentistry. 1 hour spring.

Third year. Brief review of Op 419, 420. Particular attention to carious lesions and to operations for the repair of carious teeth. Lectures and demonstrations, 11 hours. Dr. Cantwell.

Op 432. Caries Prevention. 2 hours winter.

Third year. Intensive study of the problem of dental caries, with special reference to methods of prevention. Anatomical relations, epidemiology, diagnosis, and therapy. Laboratory study and demonstrations of technics for determining caries susceptibility and of technics of prevention. Lectures, 11 hours; laboratory, 22 hours. Drs. Suher, Savara, Noyes, Snyder, Everett, Mrs. Klier.

Op 433, 434, 435. Operative Clinical Practice. Hours to be arranged.

Third year. Clinical application of principles learned in Op 419, 420, Op 430. Drs. Bender, Cantwell, Clifford, Funk, Gallagher, Jeannet, Jones, Masuoka, Shearer, Stecher, Suher, Wright.

Op 437. Root Canal Therapy. 2 hours winter.

Third year. Diseases 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 hours; laboratory, 22 hours. Drs. Pearn, Evans.

Op 440. Clinical Operative Dentistry. 1 hour winter.

Fourth year. Guidance in clinical operative technic. Review of histological structures of the teeth in relation to operative dentistry. Review of cavity preparation in detail by classes, including instrumentation. Types of filling materials—cements, silicates, amalgam inlays, gold foil. Clinical problems discussed and clarified in conference sessions. Lectures and conferences, 11 hours. Dr. Cantwell.

Op 443, 444, 445. Operative Clinical Practice. Hours to be arranged.

Fourth year. Continuation of Op 433, 434, 435, supplemented by demonstrations and lectures on difficult technics. Drs. Bender, Cantwell, Clifford, R. J. Davis, Erwin, Froman, Funk, Gallagher, Masuoka, Phillips, Ryan, Shearer, Suher, Stecher, Schwartzenhauer, Watkins.

ORAL DIAGNOSIS

Professors: Harold J. Noyes, Marshall L. Synder, Merrill K. Swenson, Horace M. Miller.
Associate Professors: Erwin T. Bender, Kenneth R. Cantwell, Frank G. Everett, Jeff Minckler, Nilkanth M. Phatak, Vinson M. Weber. **Associates:** Monte M. Bettman, Ralph M. Erwin, Jr., Henry C. Fixott, Jr., Paul W. Kunkel, Charles H. Manlove, Arnol R. Neely, Frank C. Pearn, George Redpath, Richard P. Strahl. **Assistant Professors:** William S. Clifford, Theodore Suher. **Instructors:** Barney C. Bybee, Lorna Klier, Joseph N. Morris.

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

OD 430, 431. **Oral Diagnosis and Treatment.** 1 hour each term.

Third year. Case histories, detailed clinical examination, use of laboratory diagnostic aids. Pain of dental origin; application of applied therapy and therapeutic technics to the treatment of oral disease. Lectures, 22 hours; clinical conferences, 22 hours. Drs. Bender, Noyes, Snyder, Everett, Fixott, Manlove, Minckler.

OD 432. **Clinical Diagnostic Methods.** 1 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 hours. Drs. Minckler, Snyder, Bender.

OD 433. **Diagnostic Clinic.** 2 hours spring.

Third year. Students present complete case-history factors for selected patient diagnosis and treatment problems. On the basis of a consideration of this 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 must justify the reason for arriving at a given treatment plan. The student provides plaster models, radiograms, and other aids to diagnosis and treatment planning. Clinical conferences and demonstrations, 22 hours. Drs. Bender, Bettman, Bybee, Clifford, Everett, Fixott, Kunkel, Manlove, Miller, Morris, Noyes, Pearn, Redpath, Snyder, Swenson, Strahl, Suher, Weber, Mrs. Klier.

OD 443. **Diagnostic Clinic.** No credit, fall and spring.

Fourth year. Student and faculty clinical conferences concerning patient cases. Conferences, 22 hours. Dr. Swenson, clinical and science staffs, visiting lecturers.

ORAL PATHOLOGY

Acting Department Head: Dr. Everett.

Associate Professor: Frank G. Everett. Associates: Richard Evans, Robert Landis.

Instructors: Clare Holly, Francis Wilson.

Pth 423. **Oral Pathology.** 2 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 and pulp disease. Laboratory work consists of observation and description of gross and microscopic evidence of these processes. Lectures, 11 hours; laboratory, 22 hours. Drs. Everett, Evans.

Pth 434. **Oral Pathology.** 2 hours fall.

Third year. Study of periapical lesions, tooth resorption, periodontal disease, impactions, tooth fracture, and healing of extraction wounds. Laboratory work consists of observation and description of histopathological ma-

terial illustrating the subjects covered in the lectures. Lectures, 11 hours; laboratory, 22 hours. Drs. Everett, Evans.

Pth 441. Oral Pathology Conference. 1 hour spring.

Fourth year. Faculty and student presentation of problems bearing on clinical oral pathology. Review of principles and disease processes encountered. Conference, 11 hours. Dr. Landis, oral pathology and clinical staffs.

Pth 445. Oral Pathology. 2 hours winter.

Fourth year. Study of odontogenic tumors and cysts, oral lesions of specific and unspecific etiology, benign and malignant oral and facial tumors. Laboratory work consists in study of histopathological material illustrating the conditions discussed in the lectures. Lectures, 11 hours; laboratory, 22 hours. Drs. Everett, Evans.

ORAL SURGERY

Professor: Horace M. Miller. **Associate:** Samuel A. Brandon. **Instructors:** Robert A. Bissett, Loretta F. Case, Bernadette Scully, William K. Wright. **Assistants:** George J. Collings, William R. Davis, John P. Dickson, Donald G. Eland.
Fellow: Robert R. Siddoway.

OS 401. Special Studies. Hours to be arranged.

OS 421. Local Anaesthesia and Exodontia. 1 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 anaesthetic risk and selection of local and general anaesthetic for the case; use of premedication; choice and use of instruments; sterile technic in local anaesthesia and exodontia operations; technic of tooth removal; postoperative treatment. Lectures, demonstrations, and clinical practice, 44 hours. Drs. Miller, Siddoway, Scully.

OS 430, 431, 432. Oral Surgery. 1, 2, 1 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 hours; clinic, 22 hours minimum (additional hours by arrangement). Drs. Brandon, Miller, Siddoway, Davis, Bissett, Miss Scully.

OS 434. Anaesthesia. 1 hour winter.

Third year. History of anaesthesia. Agents employed and their physiological action; stages of anaesthesia. Principles governing the selection of anaesthetics for children and adults. Methods of administration. Indications and contraindications; care of patients, before and after anaesthesia. Practice in administration of general anaesthesia. Lectures and demonstrations, 11 hours. Mrs. Case.

OS 440. Clinical Surgery. 1 hour.

Fourth year. A lecture course dealing with procedures in maxillofacial surgery. Lectures, 11 hours.

OS 444. Anaesthesia Clinic. 1 hour fall.

Fourth year. Advanced lecture-demonstrations in general anaesthesia, including anaesthol, sodium pentothal, vinethene trethylene, and curare. Simultaneous student application of these procedures in the oral surgery clinic, through clinical observation of general anaesthesia applied to exodontia. The student is a member of the surgical team which administers general anaes-

thetics and operates under them. Lectures and demonstrations, 11 hours, accompanied by clinical application. Mrs. Case.

ORTHODONTIA

Acting Department Head: Dr. Woods.

Professor: Harold J. Noyes. Associates: Ralph G. Cooper, Denton J. Rees. Assistant Professor: Guy A. Woods, Jr. Instructors: Vincent K. Davis, Margit Hellen.

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

Ord 429, 430. **Orthodontia.** 2 hours each term.

Second and third years. Etiology; classification of malocclusions; indications for treatment and for 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. Laboratory training in technics includes impression taking, model forming, freehand soldering, wire bending, band forming, and construction of simple appliances. Lectures, 11 hours; laboratory, 77 hours. Drs. Noyes, Cooper, Rees, Woods.

Ord 431. **Orthodontia.** 1 hour winter.

Third year. A demonstration course, conducted with groups of between ten and twenty students. Principles developed in Phy 430, Phy 431, and Ord 429, 430 are illustrated; demonstrations of diagnostic methods and appliance therapy in orthodontic treatment and retention. Demonstrations, 11 hours. Orthodontia staff.

Ord 432. **Orthodontia Conference.** 1 hour spring.

Third year. Consideration of children's oral health problems from the standpoint of pedodontic and orthodontic concepts, including the physical growth and systemic background of the child. Students present their own patients, with analyses and recommendations, for conference discussion and criticism. Conference groups limited to between ten and twenty students. 11 hours. Orthodontia and pedodontia staffs.

Ord 433. **Orthodontia.** 1 hour winter.

Third year. Nature of tooth movement. Nature and mechanism of tooth-moving appliances. Orthodontic retention. Prognosis. Lectures, 11 hours. Dr. Noyes.

PEDODONTIA

Department Head: Dr. Suher.

Professor: Harold J. Noyes. Associates: R. Mott Erwin, Jr., Robert L. Landis. Assistant Professors: Bhim Sen Savara, Theodore Suher. Assistants: John P. Dickson, Lynn F. Ihringer.

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

Ped 430. **Pedodontia.** 2 hours.

Third year. The didactic and technical phases of children's dentistry in general dental practice. Services through the years of childhood and the developmental stages of dentition. Technical procedures performed in the laboratory in preparation for clinical application. Lectures, 11 hours; laboratory, 22 hours. Drs. Suher, Savara, Ihringer, Landis.

Ped 441. **Pedodontia-Orthodontia Conference.** 1 hour fall.

Fourth year. Continuation of Ord 432. Further consideration of problems in the light of the student's experience with child appraisal and care. As far as possible, patients are chosen from the Child Study Clinic. Clinic, 11 hours. Pedodontia and Orthodontia staffs.

PERIODONTIA

Department Head: Dr. Bettman.

Associate Professor: Frank G. Everett. Associates: M. Monte Bettman, Thomas D. Holder.
Assistant Professor: William S. Clifford.

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

Per 438, 439, 440. **Periodontia.** 1 hour each term.

Third and fourth years. Review of the gross and microscopic anatomy, pathology, and physiology of the tissues that support the teeth. Diagnosis of periodontal diseases; etiology, prevention, and treatment. Demonstration of instrumentation in periodontal treatment; laboratory practice in use of instruments. Lectures and demonstrations, 33 hours; clinic, 22 hours. Drs. Bettman, Passmore.

Per 441. **Periodontia Clinic.** 1 hour.

Fourth year. Clinical applications of the principles of periodontia. Clinic, 22 hours. Drs. Bettman, Clifford, Everett, Holder.

PHARMACOLOGY

Department Head: Dr. Phatak.

Associate Professor: Nilkanth M. Phatak. Assistant Professor: Donald G. Reese.
Instructors: Delbert Blickenstaff, Loretta F. Case.

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

Phc 438, 439, 440. **Pharmacology.** 2 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 anaesthesia. Toxicology. Prescription writing. Laboratory work develops a scientific attitude in the handling of pharmacological data and in the appraisal of therapeutic procedures. Lectures, 44 hours; laboratory, 44 hours. Drs. Phatak, Reese, Mrs. Case.

Phc 445. **Dental Materia Medica.** 1 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 hours. Drs. Phatak, Reese.

Phc 446. **Applied Therapeutics.** 1 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. Conferences, 11 hours. Drs. Phatak, Reese, and clinic staff.

PHYSIOLOGY

Acting Department Head: Dr. Phatak.

Professor: Harold J. Noyes. Associate Professor: Nilkanth M. Phatak. Assistant Professors: Donald G. Reese, Guy A. Woods, Jr. Instructors: Delbert Blickenstaff, Loretta F. Case.

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

Phy 419. Physiology. 1 hour 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 hours. Dr. Phatak.

Phy 420, 421, 422. Physiology. 3, 4, 3 hours.

Second year. Fundamental mechanisms governing human body functions. Normal and abnormal deviations of the functions. Detailed study of the circulatory, respiratory, digestive, metabolic, excretory, neuromuscular, and psychic activities of the body. Lectures, 44 hours; laboratory, 132 hours. Dr. Phatak, Mr. Blickenstaff, Mrs. Case.

Phy 430. Growth and Development. 1 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 hours. Drs. Noyes, Woods.

Phy 431. Physiology of Occlusion. 1 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 hours. Dr. Woods.

Phy 445. Applied Physiology Conference. 1 hour winter.

Fourth year. Study of specific principles and concepts from physiology and biochemistry that relate to oral tissues. Consideration of secretions and enzymatic processes of significance in clinical dental problems. Conference, 11 hours. Drs. Phatak, Reese, Mr. Blickenstaff, and clinic staff.

PRINCIPLES OF MEDICINE

Professor: Harold J. Noyes. Associate Professors: Frank G. Everett, Jeff Minckler. Associate: Ben Vidgoff. Instructor: Loretta F. Case. Assistants: George J. Collings, William R. Davis, John P. Dickson, Donald G. Eland.

Med 401. Special Studies. Hours to be arranged.**Med 439. Principles of Medicine.** 1 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 dyscrasias, and management of office emergencies. Lectures, 11 hours. Drs. Minckler, Noyes, visiting lecturers.

Med 440. Principles of Medicine. 1 hour fall.

Fourth year. An elementary course in endocrinology; normal and abnormal functions of endocrine glands, including metabolic bone diseases; metabolic disturbances affecting oral-systemic conditions; clinical implications. Lectures, 11 hours. Dr. Vidgoff.

Med 441. Principles of Medicine. 1 hour spring.

Training in the observation of signs and symptoms of oral and systemic disease entities. Emphasis on respiratory and circulatory disturbances. Diagnosis of oral systemic disease from the study of the skin; identification of the more common skin lesions. Consideration of gait, involuntary movements, and seizures, and their significance in relation to systemic and oral diagnosis. The various forms of arthritis. Anatomical, physiological, and pathological aspects of pain. Lectures, 11 hours. Dr. Everett.

Med 443, 444, 445. Hospital Clinics. 1 hour each term.

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 hours. Drs. Noyes, Davis, Eland, and hospital staff.

PROSTHESIS

Department Head: Dr. Swenson.

Professors: Merrill G. Swenson, Arnold W. Kirchoff. Associates: John C. Bartels, Alfred H. Kasmeyer, Herbert A. Krumbein, Raymond LeRoy. Assistant Professor: Donald G. Reese. Instructors: George E. Barkdoll, Barney C. Bybee, Joseph DeLong, Louis E. Epplett, Robert H. Hogensen, William W. Howard, Richard K. Miner, Joseph N. Morris, Donald Passmore, Henry Sherwood. Assistant: George E. Gulick.

Pr 401. Special Studies. Hours to be arranged.**Pr 411. Materials.** 1 hour.

First year. Introduction to manipulation and application of dental materials. Performance of projects involving practical use of materials. Laboratory, demonstrations, and discussion, 22 hours. Drs. Bybee, LeRoy.

Pr 412, 413, 414. Prosthetic Technic and Clinic. 4, 3, 2 hours.

First year. Instruction in the elementary principles concerned in rendering complete-denture service. Manipulation of prosthetic materials; technical laboratory procedures in preparation for the application of these technics in the oral cavity. The student works in the clinic during the third term. Lectures, 22 hours; laboratory, 165 hours; clinic, 66 hours. Dr. Krumbein, staff.

Pr 418. Prosthetic Technic. 3 hours.

First year. Instruction in the elementary principles and technics of partial-denture construction. Lectures, 11 hours; laboratory, 66 hours. Dr. Krumbein, staff.

Pr 420, 421, 422. Prosthetic Technic. 1 hour each term.

Second year. Crown and bridge prosthesis. Laboratory procedures of fixed restorations; project assignments cover the principles of various types of replacements and their relation to biological needs. Laboratory, 121 hours. Dr. Kasmeyer, staff.

Pr 423. Ceramics. 1 hour.

Second year. Planned to familiarize the student with primary ceramic procedures related to Pr 421, 422 and Pr 425, 426. Demonstrations and laboratory, 22 hours. Drs. Bartels, Passmore.

Pr 424, 425, 426. Prosthetic Clinic. 1 hour each term.

Second year. Continuation of clinical experience in complete-denture construction. Introduction to partial-denture prosthesis, following completion of Pr 418. Clinic, 132 hours. Drs. Swenson, DeLong, Hogensen, Howard, Kirchoff, Miner, Morris, Sherwood.

Pr 428. Clinical Prosthesis. 1 hour.

Second year. Theory of clinical prosthesis, and demonstration of procedures, providing a background for Pr 424, 425, 426. Lectures and demonstrations, 11 hours. Dr. Swenson.

Pr 430. Clinical Prosthesis. 1 hour.

Third year. Lectures and demonstrations coordinating the theory of crown-

and-bridge, partial-denture, and complete-denture prosthesis with clinical applications in Pr 433, 434, 435. Lectures and demonstrations, 11 hours. Dr. Swenson.

Pr 431. Crown-and-Bridge Prosthesis. 1 hour.

Third year. Lectures and demonstrations illustrating clinical problems met in third-year crown-and-bridge clinical practice. Lectures and demonstrations, 11 hours. Dr. Kasmeyer.

Pr 432. Materials. 1 hour.

Third year. Advanced study of the physical properties, manipulation, uses, and manufacture of the various materials used in dentistry. Lectures, 11 hours; laboratory, 22 hours. Drs. LeRoy, Bybee.

Pr 433, 434, 435. Prosthetic Clinical Practice. Hours to be arranged.

Third year. The clinical aspects of crown-and-bridge, partial-denture, and complete-denture prosthesis, and the primary correlation of these phases. Clock hours to be allocated out of clinical schedule. Drs. Swenson, DeLong, Hogensen, Howard, Kasmeyer, Kirchoff, Miner, Morris, Passmore, Sherwood.

Pr 436. Ceramics. 1 hour.

Third year. Construction of jacket crowns and porcelain inlays. The student completes all procedures except the making of the tooth preparation in the mouth. Laboratory, 22 hours. Drs. Bartels, Passmore.

Pr 440. Clinical Prosthesis. 1 hour.

Fourth year. Lectures and demonstrations coordinating advanced prosthetic theory—including crown and bridge, partial denture, and complete denture—with clinical applications in Pr 443, 444, 445. Lectures and demonstrations, 11 hours. Dr. Swenson.

Pr 441. Crown-and-Bridge Prosthesis. 1 hour.

Fourth year. Lectures, correlated with fourth-year clinical operative problems. Lectures and demonstrations, 11 hours. Dr. Kasmeyer.

Pr 443, 444, 445. Prosthetic Clinical Practice. Hours to be arranged.

Fourth year. Clinical applications of the interrelationships of crown, bridge, partial-denture, and complete-denture prosthesis. Each student performs several complete oral-cavity restorations. Applications of the procedures of prosthesis to office practice. Clock hours to be allocated out of clinical schedule. Drs. Swenson, DeLong, Hogensen, Howard, Kasmeyer, Kirchoff, Miner, Morris, Passmore, Sherwood.

PUBLIC HEALTH

Professor: Marshall L. Snyder. Associate: Thomas L. Meador. Instructor: Barney C. Bybee.

PH 401. Special Studies. Hours to be arranged.

PH 440, 441. Public Health. 1 hour each term.

Principles of preventive medicine and medical statistics, with special reference to the development of medical and dental public health programs in industry, schools, Federal and local health agencies. Lectures, 22 hours. Drs. Snyder, Meador, Bybee.

RADIOLOGY

Department Head: Dr. Fixott, Jr.

Associates: Henry C. Fixott, Jr., Arrol R. Neely. Instructor: Wynne Saunders.

Technicians: Rosetta Marrion, Maureen Watson.

Rad 401. Special Studies. Hours to be arranged.

Rad 420, 421. **Dental Radiology.** 1 hour each term, winter and spring.

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. 22 hours. Dr. Fixott.

Rad 435. **Dental Radiology Clinic.** 1 hour fall.

Third year. Clinical application of radiodontia. Clinic, 11 hours. Drs. Fixott, Neely, Mrs. Saunders.

PUBLIC HEALTH

PH 400. **Public Health.** 1 hour each term. Principles of public health and their application to the development of health and local health services. 2 hours. Dr. Neely.

RADIOLOGY

PH 400. **Public Health.** 1 hour each term. Principles of public health and their application to the development of health and local health services. 2 hours. Dr. Neely.

Dental Hygiene

THE Oregon Legislature in 1949 enacted a law defining the practice of dental hygiene and providing for the licensing of dental hygienists. In the fall of the same year, the University of Oregon Dental School introduced a two-year curriculum leading to a Certificate in Dental Hygiene.

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.

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 take care of these children's current dental needs. There are, however, only about 80,000 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 dentist. There are approximately 5,300 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 a student who completes the two-year curriculum offered by the University of Oregon Dental School and passes a state board examination:

(1) *In a private dental office*—performing oral prophylaxis; applying sodium fluoride to the surfaces of the teeth; instructing in the care of the mouth; maintaining a patient recall system; taking X-rays, developing and mounting films; occasionally aiding the dentist in oral operations.

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

(3) *In public health agencies*—performing duties similar to those in the public schools; participating in the work of mobile-unit dental clinics; 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).

(4) *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 trained hygienists are, however, being employed in the public health programs maintained by the schools and by state and local health departments.

Admission

GRADUATION from a standard high school is required for admission to the curriculum for dental hygienists. Except under special circumstances, only women citizens of the United States between the ages of 18 and 30 are admitted. A personal interview, a physical examination, and participation in a prematriculation orientation and testing program may be required.

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) High-school work in biology and chemistry. While not at present required, high-school courses in these fields give the student an advantage in the hygienist curriculum. (Beginning with the class entering in the fall of 1953, high-school courses in biology and chemistry will be required for admission.)

(3) College or junior-college work. While not required for admission, some college or junior-college experience will facilitate adjustment to professional training.

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

(5) 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 services. A basic 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 hygienist student should have good health, good vision, and good hearing.

Admission Procedure. Further information concerning the hygienist curriculum may be obtained by writing to the Registrar of the Dental School. Application forms will be furnished on request. It is recommended that application for admission, on the official application form, together with other information requested by the Admission Committee, be submitted before May 15; the final date for filing application is July 1. Application may be made after the completion of the first half of the student's final year in high school. 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 12 students.

Fees and Expenses

STUDENTS in the dental hygienist curriculum pay the same regular fees as dental students: a total of \$140.00 per term for residents of Oregon or a total of \$200.00 for nonresidents. For a detailed table of fees, see pages 22-24.

The total cost of books, equipment, and supplies required during the two years of the hygienist program is estimated at \$200.00. The required equipment includes: dental engine, prophylactic instruments, straight hand piece, contra-angle, uniform, shoes. It is estimated that the total cost of the two-year program, exclusive of living costs, is about \$1,200 for residents of Oregon and about \$1,560 for non-residents.

The Dental School has no dormitory or other housing facilities for dental hygienist students. Single rooms may be obtained in Portland for from \$15.00 to \$20.00 a month; two- and three-room apartments may be rented for about \$50.00 a month. Because of the current housing shortage, students accepted for admission are advised to arrange for housing before the opening of the school year. All students under 21 years of age, who do not live at home, must obtain approval of their living quarters from the director of the dental hygiene program.

The student's registration fees cover the cost of physical examinations, diagnostic service, and emergency care through the Student Health Service. See page 26.

Facilities

THE classrooms, laboratories and clinics of the Dental School are made available for hygienist instruction. 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 and the Multnomah County Hospital.

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

Throughout 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 hygienist instruction are responsible for classroom, laboratory, and clinic teaching.

Dental Hygienist Curriculum

THE two-year curriculum in dental hygiene offered by the University of Oregon 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.

A close relationship is maintained, throughout the six terms of the program, between instruction in science and technic and experience in the clinics, to provide immediate application of scientific concepts to clinical practice. Many of the science courses correlate the content of several of the traditional course fields, and are taught by members of the faculties of the several departments involved.

The student begins the performance of clinical work for patients early in the first year of the program. Practical "on the job" experience is provided through clinical clerkships in county hospitals and public schools, to supplement practice in the Dental School clinics.

Since the dental hygienist may expect to devote her major attention to the dental health needs of children, special attention is given, beginning in the first

year, to oral prophylaxis, topical application of sodium fluoride, and caries prevention, with hospital clerkships providing opportunities for observation and care of children's dental needs. In the second year, students are assigned to the Child Study Clinic of the Dental School, where emphasis is placed on the clinical study of child growth and development. The second-year program also includes experience in the orthodontic phases of children's dentistry.

Since the dental hygienist's practice is closely coordinated with professional dental practice, she must have a thorough understanding of the whole 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, radiology, child study, orthodontic, oral surgery, and anaesthesia clinics.

Opportunity is provided for elective courses in subjects of special interest to students. Such courses are offered in child psychology, practice management, educational methods, visual education, public relations, socio-economic problems of the dental profession, etc.

Scholarship regulations for hygienist students are the same as for dental students (see pp. 21-22 above).

TABLE OF COURSES, TIME, AND CREDIT

		Clock hours				Term hours
		Lect.	Conf.	Lab.	Clinic Total	
First Year						
DH 111.....	Hygienist Orientation.....	11	....	....	....	11 1
DH 114.....	Biology.....	22	....	44	....	66 3
DH 117.....	Anatomy & Physiology.....	22	....	22	....	44 3
DH 119.....	Bacteriology.....	22	....	44	....	66 4
DH 121.....	General & Oral Histology.....	22	....	55	....	77 4
DH 124.....	Caries Prevention.....	11	22	....	....	33 2
DH 130, 131.....	Dental Anatomy.....	22	....	99	....	121 5
DH 133.....	Chemistry.....	33	....	33	....	66 4
DH 139.....	Dental Technics.....	11	....	33	....	44 2
DH 142, 143.....	Oral Radiology.....	22	....	22	....	44 4
DH 145, 146.....	Oral Hygiene & Prophylaxis.....	44	....	....	198	242 8
DH 151, 152, 153.....	Clinical Observation.....	....	33	....	66	99 3
DH 154.....	Personal Hygiene & First Aid.....	11	....	....	....	11 1
DH 157.....	Technical Comp. for Hygienist.....	11	....	....	....	11 1
		264	55	352	264	935 45
Second Year						
DH 214.....	General & Oral Pathology.....	22	....	44	....	66 3
DH 220.....	Anatomy & Physiology.....	33	....	22	....	55 4
DH 223.....	Growth & Development.....	22	....	....	22	44 3
DH 226.....	Pharmacology (Materia Medica).....	11	....	33	....	44 2
DH 227.....	Public Health.....	22	....	....	....	22 2
DH 229.....	Nutrition.....	11	22	....	....	33 2
DH 231.....	Speech & Public Relations.....	11	....	....	....	11 1
DH 234.....	Dental Health Program Planning.....	11	....	22	....	33 2
DH 237.....	Orthodontia.....	11	....	....	22	33 1
DH 240.....	Educ. Methods & Princ. of Learn.....	11	....	....	....	11 1
DH 243, 244, 245.....	Clinical Practice: Oral Hygiene.....	....	33	....	154	187 9
DH 246, 247, 248.....	Clinical Practice: Clerkships.....	....	11	....	297	308 10
DH 307.....	Seminar.....	11	....	....	....	11 1
DH 301.....	Special Studies (electives).....	....	....	....	....	77 7
		176	66	121	495	935 48

Description of Courses

DH 111. Hygienist Orientation. 1 hour fall.

First year. The ideals and function of the hygienist in professional work. Public and individual responsibilities. Rules and regulations of the school, study habits, mental hygiene. Guidance and counsel, student health; hygienist social economics, adjustment counseling. Lectures and conferences, 11 hours. Members of the hygienist and dental professions.

DH 114. Biology. 3 hours fall.

First year. Introduction to general anatomy; basic life processes, with material from fields of plant and animal biology, biochemistry, physiology, physics, histology, and other sciences. Provides a general background for science courses presented in subsequent terms. Lectures, 22 hours; laboratory and demonstration, 44 hours. Mr. Tedford.

DH 117. Anatomy and Physiology. 3 hours.

First year. Instruction integrated in a two-term sequence with DH 121. Structural and functional anatomy; physiological considerations associated with a study of the gross anatomy of the organs. Related study of oral and general histology, with emphasis on the identification of normal and abnormal tissue, hard and soft tissues of the oral cavity, and the significance of readily identified gross pathological changes. Lectures, 44 hours, laboratory, 77 hours. Drs. Fraenkel, Hellen, Mr. Tedford, Miss Holly.

DH 119. Bacteriology. 4 hours winter.

First year. Basic principals of bacteriology, including infection and disease resistance. Special attention to diseases associated with the oral cavity. Laboratory exercises on methods of pure culture, morphology, and physiology, as a basis for classification. Problems of sterilization and disinfection about which the hygienist is concerned. Lectures, 22 hours; laboratory, 44 hours. Dr. Snyder, Miss Donnelly, Mrs. Slawson.

DH 121. General and Oral Histology. 4 hours.

First year. For description, see DH 117.

DH 124. Caries Prevention. 2 hours spring.

First year. 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. Lecture, 11 hours. Clinic and demonstration, 22 hours. Drs. Suher, Savara, Snyder.

DH 130, 131. Dental Anatomy. 3, 2 hours, fall and winter.

First year. 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 hours; laboratory, 99 hours. Dr. Reese.

DH 133. Chemistry. 4 hours fall.

First year. Designed especially to develop an understanding of chemical reactions that take place in the regulation of body function, with particular concern for the formation of healthy teeth and supporting structures. Basic biochemistry for the understanding of nutrition, with emphasis on vitamins in relation to growth and health. Lectures, 33 hours; laboratory, 33 hours. Dr. Hackedorn.

DH 139. Dental Technics. 2 hours fall.

First year. Dental technics and materials. Characteristics and technics of manipulation of such materials as abrasives, artificial stone, impression materials, denture bases, porcelain cements, waxes, alloys of the precious metals and amalgam; care and maintenance of dental instruments and equipment. Lectures, 11 hours; laboratory, 33 hours. Dr. Reese.

DH 142, 143. Oral Radiology. 1, 3 hours, fall and winter.

First year. Technic of taking radiographs of the teeth and oral cavity. Processing and care of films. General overview of film interpretation designed to enable the hygienist to identify gross abnormalities of teeth and supporting structures, and to chart or report intelligently. Lectures, 22 hours; laboratory, 22 hours. Dr. Fixott, Mrs. Saunders.

DH 145. Oral Hygiene and Prophylaxis. 4 hours winter.

First year. Detailed study of the principles and methods of mouth hygiene and prophylaxis. Foreign deposits on the teeth, calculus plaques, stain. Toothbrushes and toothbrushing methods. Dentifrices and mouth washes. Orientation in technics and methods of handling the clinical patient. Oral prophylactic technics, use and care of instruments, prophylaxis operative and post-operative care, and methods effective in the prevention of oral diseases. The hygienist student applies oral-hygiene and prophylaxis methods in operations for clinical patients. Lectures, 22 hours; technic and clinic, 66 hours. Mrs. Burke, Mrs. Dougherty.

DH 146. Oral Hygiene and Prophylaxis. 4 hours.

First year. A continuation of oral-hygiene and prophylaxis-clinic practice begun in DH 145. Students may be assigned to observation of oral-health conditions of Multnomah County Hospital patients. Lectures, 11 hours; demonstrations, 11 hours; Dental School clinic practice, 132 hours.

DH 151, 152, 153. Clinical Observation. 1 hour each term.

First year. Observational experience, orientation, and learning activities directed towards thorough acquaintance with the nature, purposes, and methods of dental operations performed in the following clinics of the Dental School: operative, prosthetics, exodontia, oral surgery, orthodontia, child study, and general anaesthesia. Clinic observation, 66 hours; conference, 33 hours. Clinic staff.

DH 154. Personal Hygiene and First Aid. 1 hour spring.

First year. Personal-hygiene habits. Body hygiene, cleanliness, deodorization, care of breath, hair, finger nails, and hands. Choice of clothing, shoes, and personal adornment. Maintenance of good health, protection against common diseases. Hygienic consideration for the patient. First-aid care for office operating accidents. Emergency attention for persons with heart trouble, diabetes, etc. Use of emergency equipment, drugs, and therapeutic measures. Lectures, 11 hours. Mrs. Burke, Mrs. Case.

DH 157. Technical Composition for Hygienists. 1 hour fall.

First year. Methods by which dental and dental-hygienist information is obtained from published sources; evaluation of material. Technics for effective written expression, with particular emphasis on the preparation of brief laboratory notes, practical clinical records, case histories, papers, and talks in the field of dental hygiene and prophylaxis. Lectures and writing workshop, 11 hours. Mr. Batterson and members of the staff.

DH 214. General and Oral Pathology. 3 hours winter.

Second year. An overview and survey of general and oral pathological processes, providing the hygienist with a working understanding of principles basic to the understanding of health and disease. The response of the organ system to specific diseases. Pathologic conditions of the oral cavity, such as inflammation, edema, and degenerative changes in these tissues. Nature of

benign and malignant tumors. Observation, demonstration, and microscopic examination. Lectures, 22 hours; laboratory, 44 hours. Dr. Landis.

DH 220. Anatomy and Physiology. 4 hours fall.

Second year. Functional correlations of body structures and mechanisms; regulation of activity of various organs and organ systems under normal environmental conditions; modification of organ functions in adaptive behavior. Lectures, 33 hours; laboratory, 22 hours. Dr. Phatak, Mr. Blickenstaff.

DH 223. Growth and Development. 3 hours fall.

Second year. Designed to provide an understanding of oral physiology and of the co-ordination and interrelationship of facial structure. Special emphasis on principles of occlusion and on the effect of malocclusion upon the mental and dental health of the patient. Study of problems of children in relationship to growth, development, and physical health. Experience provided in the recording of individual physical growth, oral health, and dento-facial development. Lectures, 22 hours; Child Study Clinic, 22 hours. Dr. Suher.

DH 226. Pharmacology (Materia Medica). 2 hours winter.

Second year. Drugs having direct application to oral tissues; medicinal substances; pharmaceutical preparations; active principles of dentifrices, mouth washes, astringent agents, disinfectants, schlerozing agents; detergents; local anaesthetics. Local and systemic toxicological considerations. Laboratory experience includes preparation and handling of therapeutic agents. Lectures, 11 hours; laboratory or demonstration, 33 hours. Drs. Phatak, Reese.

DH 227. Public Health. 2 hours fall.

Second year. An introduction to public health, with special consideration of health programs in the community, industries, Federal and local government agencies, and public schools. Purposes, organization, administration. Special attention to the general evaluation of dental health programs, so that the hygienist may be prepared to establish the most desirable working relationship with these agencies and programs. Observation of selected community health centers and agencies in Portland. Lectures, 22 hours. Drs. Snyder, Meador.

DH 229. Nutrition. 2 hours spring.

Second year. Basic principles of nutrition. The value of adequate nutrition in the maintenance of general health and in the prevention of dental disease. Lectures, 11 hours; conference and demonstration-diet planning, 22 hours. Dr. Phatak, Mrs. Klier.

DH 231. Speech and Public Relations. 1 hour fall.

Second year. The building of practical talks before public groups. Preparation of data, organization, and effective presentation. The use of illustrative devices. Development of poise and confidence. Working with other professional groups (educators, health officials, parent-teachers organizations, etc.). Lectures and seminars, 11 hours. Member of the dental profession and selected speakers from public schools, public health services, etc.

DH 234. Dental Health Program Planning. 2 hours winter.

Second year. Organization, administration, and methods of community and school dental health programs. Special problems, deficiencies of present systems, evaluation of educational, clinical, and preventive measures in these programs; opportunities for hygienists. The student is expected to construct, in a public-school workshop, a plan for a hypothetical community or school preventive dental health program. Special consideration given to the part that the dental hygienist may play in the plan. Lectures, 11 hours; workshop, 22 hours. Mrs. Burke.

DH 237. Orthodontia. 1 hour winter.

Second year. Consideration of etiology and classification of malocclusions, with special consideration of oral and facial tissues related to tooth move-

ment. Relationship of malocclusion to dental hygiene. Survey of orthodontic technics, recording of case histories, including record of the remedial progress of the patient and the effect upon mental and oral health. Lectures, 11 hours; clinic observation, 22 hours. Dr. Noyes.

DH 240. Educational Methods and Principles of Learning. 1 hour fall.

Second year. An introduction to educational technics and methods that are effective in the education of individuals and public groups. Emphasis on basic principles and practical methods. Topics for study include: Planning a meeting, construction of the agenda, arranging topics, personnel and materials. Seminar and panel, technics. Avenues for dissemination of information, radio scripts, newspaper articles, etc. General survey of learning activities effective in public or classroom group situations. Question-and-answer technics. Use of visual aids. Basic organization of school systems. Relationship with the public and public school officials. Lectures, 11 hours. Dr. Bortolazzo.

DH 243, 244, 245. Clinical Practice: Oral Hygiene. 3 hours each term.

Second year. Performance of oral prophylaxis, topical application of sodium fluoride, and other clinical therapeutic technics within the area of hygienist responsibility. Within limits of the hygienist function and under direction of the clinic staff, the student takes responsibility for preventive oral health of the patient. Treatment and observation of a patient continues to be the responsibility of the student until graduation. Conference, 33 hours; clinic, 154 hours. Mrs. Burke, Mrs. Dougherty.

DH 246, 247, 248. Clinical Practice: Clerkships. 2, 2, 6 hours.

Second year. Fall: the student is assigned to the Dental Division of the Portland Public Schools after a series of preparatory lectures, to perform oral hygiene, prophylactic, and other preventive measures; the student cooperates with members of the dental profession and school officials in carrying out the public school dental health program; supervision is maintained jointly by the clinical staff of the Dental School, school officials, and members of the dental profession, in cooperation with the Dental Health Advisory Committee of the Portland District Dental Society. Winter: school clerkships are supplemented by hospital clerkships, where the student may perform oral prophylaxis in clinics and at the bedside with portable equipment. Spring: the student receives clinical practice at the Dental School, which may be accompanied by further clerkship experience in hospitals or in situations simulating private dental office practice. Conference, 11 hours; clinical clerkship, 297 hours. Dr. Barnum, Mrs. Burke.

DH 301. Special Studies. Hours to be arranged.

Second year. Elective studies in areas of special need and interest, for the student whose professional objective may be clearly preformulated for a special field of hygienist practice. Instruction may be given in practice management, social economics for the hygienist, visual-education technics, child psychology, special dental technics such as radiology. Members of the Dental School faculty.

DH 307. Seminar. 1 hour spring.

Second year. Talks and informal discussions by members of the dental and dental-hygienist professions, public officials, educators, etc. Designed to assist the hygienist to adjust to professional practice, civic responsibilities, and opportunities for special service. Conferences, 11 hours. Members of the hygienist and dental professions.

Degrees Conferred June 15, 1950

Doctor of Dental Medicine

Alexander, William E.; Portland
 Baker, Eugene W.; Portland
 Bartol, Donald C.; Portland
 Benson, Orron R.; Portland
 Bissett, Robert A.; Tigard
 Booth, Thomas H.; Portland
 Brown, Kenneth H.; Meridian, Idaho
 Brunton, Fred M.; Ladner, B.C.
 Bullen, Dennis C.; Vancouver, B.C.
 Burton, Alfred W.; Vancouver, B.C.
 Burton, Ralph A. J.; Vancouver, B.C.
 Cacchioni, Thomas A.; Vancouver, B.C.
 Caley, Charles B.; Portland
 Campbell, Raymond H.; Moscow, Idaho
 Carmichael, David J.; Calgary, Alberta
 Cary, John F.; Portland
 Chambers, William J.; New Westminster, B.C.
 Comstock, Teddy J.; Nampa, Idaho
 Cooper, Douglas S.; New Westminster, B.C.
 DeLong, Joseph H.; Portland
 Dickson, John P.; Portland
 Dowdy, William C.; Portland
 Eakins, James J.; Nanaimo, B.C.
 Eby, John C.; Portland
 Epplett, Louis E.; Portland
 Eustace, Douglas L.; La Grande
 Gallagher, William G.; Portland
 Hogensen, Robert H.; Portland
 Horne, Harry Deane.; Portland
 Howard, William W.; Portland
 Hyslop, Donald D.; Nanaimo, B.C.
 Jeannet, Donald J.; Portland

Jefferies, Wilfred A.; Vancouver, B.C.
 Johnson, Grant L.; Logan, Utah
 Jones, James Lloyd; Portland
 Lee, Robert E.; Portland
 Lund, Leo N.; Portland
 McClure, Arthur O.; Portland
 McCullough, William L.;
 San Francisco, Calif.
 McGovern, Frederick J.; Spokane, Wash.
 Milburn, William R.; Victoria, B.C.
 Nixon, Robert C.; Forest Grove
 'Olafsson, Garder; Reykjavik, Iceland
 Olsen, John William; Nyssa
 Oyamada, Paul H.; Yokohama, Japan
 Price, John H.; Portland
 Ray, Eugene G.; Medford
 Roberts, Frank C.; Medford
 Royle, Howard G.; Portland
 San, Wai Lam; Hong Kong
 Severy, Malcolm; Seattle, Wash.
 Shearer, Richard A.; Portland
 Sherwood, Henry; Portland
 Shoemaker, Vernal; Portland
 Siddoway, Robert R.; Portland
 Simmons, Milton F.; Fort Lewis, Wash.
 Snedden, Angus P.; Spokane, Wash.
 Stecher, Charles C.; Vancouver, Wash.
 Stephens, Homer F.; Provo, Utah
 Tinkle, James W.; Portland
 Whalon, Lawrence J.; Ontario
 Wright, William K.; Portland
 Zollinger, Keith W.; Rexburg, Idaho

Enrollment 1949-50

	Men	Women	Total
Dentistry:			
First year.....	75	....	75
Second year.....	72	....	72
Third year.....	65	....	65
Fourth year.....	66	1	67
Special and auditors.....	4	....	4
	282	1	283
*Dental hygiene, first year.....	....	12	12
	282	13	295

* The curriculum in dental hygiene was introduced in the fall of 1949.

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