



UNIVERSITY
OF OREGON
BULLETIN

University of Oregon
Dental School

P O R T L A N D • O R E G O N

CATALOG
I S S U E
1950-51

OREGON STATE SYSTEM OF HIGHER EDUCATION

UNIVERSITY OF OREGON BULLETIN

NUMBER 6

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UNIVERSITY OF OREGON
DENTAL SCHOOL

CATALOG

1950-51



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Portland, Oregon

Office of the State Board of Higher Education
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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.

1950-51 Academic Calendar

Fall Term, 1950-51

October 2-3, *Monday, Tuesday*.....Registration; aptitude testing of first-year students
 October 4, *Wednesday*.....Classes begin
 November 23, *Thursday*.....Thanksgiving Day, holiday
 December 18, *Monday*.....Classes end
 December 19-21, *Tuesday through Thursday*.....Term examinations
 December 21, *Thursday*.....Term ends

Winter Term, 1950-51

January 2, *Tuesday*.....Classes begin
 March 14, *Wednesday*.....Classes end
 March 15-17, *Thursday through Saturday*.....Term examinations
 March 17, *Saturday*.....Term ends

Spring Term, 1950-51

March 26, *Monday*.....Classes begin
 May 30, *Wednesday*.....Memorial Day, holiday
 June 12, *Tuesday*.....Classes end
 June 13-15, *Wednesday through Friday*.....Term examinations
 June 14, *Thursday*.....Commencement
 June 15, *Friday*.....Term ends

Summer Session, 1951

July 16 through August 17.....First five weeks
 August 20 through September 21.....Second five weeks

Fall Term, 1951-52

October 1-2, *Monday, Tuesday*.....Registration

University of Oregon Dental School

Faculty

PAUL C. PACKER, Ph.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, Professor of Dentistry.
 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., 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 Dentistry.
 JOSEPH A. PETTIT, M.D., Professor Emeritus of Dentistry.
 ALFRED P. WATSON, D.M.D., Instructor Emeritus in Chemistry.

PROFESSORS

ELLIS B. JUMP, Ph.D., D.M.D., Professor of Anatomy; Head of Department of Anatomy.
 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.
 ROBERT L. WALSH, D.D.S., Lieutenant Colonel, Dental Corps; Professor of Military Science and Tactics.

ASSOCIATE PROFESSORS

ERWIN T. BENDER, D.D.S., Associate Professor of Dentistry; Superintendent of Dental Clinics.
 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 Pathology.
 NILKANTH M. PHATAK, M.S., Ph.D., Associate Professor of Pharmacology; Head of Department of Pharmacology; Acting Head of Department of Physiology.

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.
 SAMUEL A. BRANDON, D.D.S., Clinical Associate in Dentistry.
 RALPH C. COOPER, D.M.D., Clinical Associate in Dentistry.
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 H. LAWRENCE GRIFFITH, B.S., D.M.D., Clinical Associate in Dentistry.
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 MILTON JOHNSON, D.M.D., Clinical Associate in Dentistry.
 ALFRED H. KASMAYER, 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.
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 GEORGE W. REDPATH, D.M.D., Clinical Associate in Dentistry.
 DENTON J. REES, D.M.D., Clinical Associate in Dentistry.
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 BEN VIDGOFF, M.D., Clinical Associate in Medicine.

ASSISTANT PROFESSORS

GEORGE E. BATTERSON, M.A., Educational Adviser.
 KENNETH A. CANTWELL, B.S., D.M.D., Assistant Professor of Dentistry; Acting Head of Department of Operative Dentistry.

* On leave of absence 1949-50.

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 TED RUSSELL, M.S., Business Manager and Registrar.
 THEODORE SUHER, M.S., D.M.D., Assistant Professor of Dentistry.
 VINSON M. WEBER, M.A., D.D.S., Assistant Professor of Dentistry.
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 RICHARD B. KELLER, D.D.M., Instructor in Dentistry.
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 PAUL MOE, D.M.D., Instructor in Dentistry.
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 WYNNE SAUNDERS, Instructor in Dental Science.
 PATRICK SCHOMMER, B.S., D.M.D., Instructor in Dentistry.
 ARTHUR SCHWARTZENHAUER, D.M.D., Instructor in Dentistry.
 BERNADETTE SCULLY, R.N., Instructor in Dental Science.
 WILLIAM E. SHERFEY, D.M.D., Instructor in Dentistry.
 WALLACE SUTHERLAND, B.S., D.M.D., Instructor in Dentistry.
 ROBERT F. WATKINS, D.M.D., Clinical Instructor in Dentistry.

FRANCES WILSON, B.S., R.T., Clinical Instructor in Dentistry.

LECTURERS

ARNO H. DENECKE, A.B., LL.B., Lecturer in Dental Ethics and Jurisprudence.

HERMAN DICKEL, M.D., Lecturer in Psychology.

GERHARD B. HAUGEN, M.D., Lecturer in Psychology.

JOSEPH E. WETMORE, Lecturer in Practice Management.

RESEARCH ASSISTANTS

JACK DEMENTE, Research Assistant.

DORIS OSBORNE, Research Assistant.

GLADYS B. MCLEAN, B.S., Tumor Registrar.

INTERNS

WILLIAM DAVIS, B.S., D.M.D., Intern, Multnomah County Hospital.

DONALD ELAND, D.M.D., Intern, Multnomah County Hospital.

LABORATORY TECHNICIANS

ROBERT BENNETT, Laboratory Technician.

ELDON G. GIPSON, Laboratory Technician.

WILLIAM E. GORMAN, Laboratory Technician.

LABORATORY ASSISTANTS

RUTH MAASS, Laboratory Assistant.

MARIE SLAWSON, Laboratory Assistant.

CLINICS

ERWIN T. BENDER, D.D.S., Superintendent of Clinics.

M. MONTE BETTMAN, D.M.D., In Charge of Periodontia Clinic.

KENNETH A. CANTWELL, B.S., D.M.D., In Charge of Operative Clinic.

R. MOTT ERWIN, JR., In Charge of Children's 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.

GUY A. WOODS, M.S., D.D.S., In Charge of Orthodontia Clinic.

MERRILL G. SWENSON, D.D.S., In Charge of Prosthetic Clinic.

SHIRLEY R. BARTLEIN, Secretary, Prosthetic Clinic.

RUBY H. DARBY, Assistant to Clinical Supervisor, Operative Clinic.

GLADYS EVERTON, Clerk, Operative Clinic.

JANE LEE FISHER, Cashier, Operative Clinic.

M. CATHERINE HIBBARD, Clerk, Operative Clinic.

LOUISE JOHNSTON, Cashier, Operative Clinic.

NANCY GRIFFIN JONES, Clerk, Operative Clinic.

ALYCE JORDON, Clerk, Operative Clinic.

EUNICE M. KAY, Cashier, Operative Clinic.

MARY LOU LAWSON, Secretary, Orthodontia Clinic.

BETTY LLOYD, Clerk, Child Study Clinic.

ROSETTA MARRION, Clerk, Radiology Clinic.

SUZANNE STOHKE, Clerk, Operative Clinic.

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MAUREEN R. WATSON, Clerk, Radiology Clinic.

BARBARA L. WESCOTT, Clerk, Child Study 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, Admissions Secretary.

JUNE E. HUBER, Secretary.

GLORIA A. PACELLA, Secretary to the Business Manager.

MARGARET C. BOYNTON, Secretary to the Registrar.

LEIGH ORA GILBERT, Postgraduate Clerk.

MARY M. MUIR, Faculty Secretary.

ELIZABETH DRAPEAU, 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.

SALLY L. ALLEN, Library Assistant.

DEPARTMENT OF ILLUSTRATION

RUSSELL CULBERTSON, Photographer.

FLORENCE M. REIFSTECK, Secretary.

PHYSICAL PLANT

THEAL B. WELLINGTON, Plant Maintenance Engineer.

HARVEY C. LACHAPPELL, Maintenance Repairman.

COMMITTEES*Admissions:*

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

Aptitude Testing:

Dr. Richard Evans
Mr. George Batterson
Dr. Horace Miller, chairman

Awards and Scholarships:

Dr. Howard M. Hackedorn
Dr. Guy Woods
Dr. William Clifford, chairman

Clinic:

Dr. Kenneth Cantwell
Dr. Horace M. Miller
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Mr. Ted Russell, chairman

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Dr. Howard M. Hackedorn
Dr. Merrill G. Swenson
Dr. Marshall L. Snyder, chairman

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Dr. Walter Froman
Dr. Earle Hussell
Dr. Vinson Weber, chairman

Publications:

Dr. Jeff Minckler
Dr. Merrill G. Swenson
Dr. Harold J. Noyes, ex officio
Dr. Marshall L. Snyder, 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 at the Dental School, 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 "preclinical" years, are placed strategically through the four years of the curriculum in close relation to the diagnostic and clinical application of the basic principles learned.

In the third and fourth years, intensive practice of specialized therapeutic 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) post-graduate 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. 39-46). 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
A. T. OBERG, D.D.S., Eugene.....	1951
L. W. PEATE, D.M.D., Klamath Falls.....	1952
FRANK PRIME, D.M.D., Salem.....	1953
M. MONTE BETTMAN, D.M.D., Portland.....	1954
J. H. ROSSMAN, D.D.S., Portland.....	1955

The officers of the Advisory Council are: Dr. J. H. Rossman, chairman; Dr. Frank Prime, vice-president; 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 5,050 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

THERE ARE each year many more applicants than can be admitted to the entering class of the University of Oregon Dental School. In selecting those who are admitted, the Admissions Committee takes into account the following factors, in addition to satisfaction of the minimum entrance requirements:

(1) College grades; (2) the amount of college work completed; (3) personal factors revealed in personal interviews and letters of recommendations; (4) 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; (5) veteran status; (6) the applicant's affiliations or close association with the dental profession.

In general, applicants who offer only the minimum of college preparation will need, for favorable consideration, somewhat higher grades than those who have completed three or more years of college work.

Applicants are requested to take either (a) an college-aptitude examination, administered by the Educational Testing Service, or (b) a qualifying examination, administered by the Council on Dental Education of the American Dental Association. Applicants should indicate, in their letter of application, which of these tests they wish to take. A fee of approximately \$10.00 may be charged for either of these examinations. Information concerning the college-aptitude examination may be obtained from the Educational Testing Service, Box 2416, Terminal Annex, Los Angeles 54, Cal. Information concerning the qualifying examination sponsored by the Council on Dental Education may be obtained from the Registrar of the Dental School.

In an attempt to improve the methods of judging candidates for admission, the Admissions Committee offers a three-day Orientation and Aptitude Course several times each year. Selected applicants are requested to participate. The results achieved in this course serve as a basis for counseling applicants, and are correlated with the subsequent records of students who are admitted. The course has proved helpful in facilitating students' transition from college to professional school. A fee of \$5.00 is charged to cover the cost of materials used.

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 date the photograph was taken.
- (3) An official transcript of all college work completed.
- (4) A statement of college work in process at the time of application, and of courses the applicant proposes to complete for satisfaction of entrance requirements; the statement must 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) 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 preidental curriculum at the University of Oregon. See page 17.

Although this two-year program satisfies the minimum admission requirements of the Dental School, students are strongly advised to devote three years to their preidental college education.

In selecting elective subjects to complete their preidental 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.

FOREIGN STUDENTS

A foreign student submitting credentials in a language other than English should present, with the original credentials, a literal translation signed 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. 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.

TRANSFER STUDENTS

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

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.

Preidental Curriculum

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

TWO-YEAR CURRICULUM

	Term hours		
	F	W	S
First Year			
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 and Theoretical Chemistry (Ch 204)	-	-	5
General Physics (Ph 201, 202, 203)	4-5	4-5	4-5
Social Science	3	3	3
Physical Education	1	1	1
Military Science	1	1	1
Elective (literature or social science)	3	3	3
	16-17	16-17	17-18

THREE-YEAR CURRICULUM

	Term hours		
	F	W	S
First Year			
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 and Theoretical Chemistry (Ch 204)	-	-	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	-
Rise of Experimental Science (Ph 341)	-	-	2
Basic Design (AA 195)	2	-	-
Elementary Sculpture (AA 293)	-	-	4
Electives	6-7	8-9	6-7
	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 pre-dental 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

TWO days at the opening of the fall term are devoted to the registration of students entering the first-year class. During this period, students entering in the fall of 1950 will take a series of aptitude tests. The aptitude tests, prepared by the Council on Dental Education of the American Dental Association, are intended to provide data which may make possible more-reliable selection of Dental School students in the future. At the present time, the tests are entirely exploratory; no student who has been accepted for admission will be prevented from enrolling or from continuing Dental School work because of scores on these tests. It is contemplated that all students applying for admission in the fall of 1951 will take the qualifying or college-aptitude examinations describe above under Admission (page 15).

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

Satisfactory work by students in Dental School courses is graded in accordance with the following system: *A*, exceptional accomplishment; *B*, superior; *C*, average; *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 four 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. These fees total \$116.50 per term for residents of Oregon and \$166.50 for non-residents. 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.....	46.00
Incidental fee, per term.....	5.50
Building fee, per term.....	5.00
Nonresident fee, per term.....	50.00

SPECIAL FEES

Part-time fee—for students registered for 6 term hours or less, per term hour (minimum \$10.00).....	\$ 6.50
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 pre dental 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
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
Microscope rental fee, per term.....	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 defined a nonresident student as a person who comes into Oregon from another state for the purpose of attending one of the institutions under the control of the Board.

In order to draw a clear line between resident and nonresident students, the Board has ordered that all students in the institutions under its control who have not been domiciled in Oregon for more than one year immediately preceding the day of their first enrollment in the institution shall be termed nonresident students, with the following exceptions:

(1) Students whose father (or mother, if the father is not living) is domiciled in the state of Oregon.

(2) Children of regular employees of the Federal government in the state of Oregon.

(3) Students in summer sessions.

Residence may not be established through enrollment in an Oregon public or private college or university for one or more years immediately preceding application for admission into the Dental School.

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	\$77.00	\$558.00	\$635.00
Second year	75.00	345.00	420.00
Third year	74.00	166.00	240.00
Fourth year	25.00	130.00	155.00

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 \$55.00 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.

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.

Commencement Marshals Awards. Ten third-year students are chosen each year on the basis of high scholastic standing to serve as marshals at the Dental School 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 1949-50 are: Homer Stephens, president; Jack Over, vice-president; William Dowdy, secretary; B. Alfred Alder, treasurer; James Noel, athletic manager; Robert E. Lee, 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 1949-50 are: Delta Sigma Delta, Johan Wold, Raymond Campbell; Xi Psi Phi, Elsworth Foreman, Boyd Jacobsen; Psi Omega, Jack Over, Sigurd Liseth; 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 1949-50 are:

DAVID E. WEBER, D.M.D.	President
HAROLD M. KRAMER, D.M.D.	First Vice-President
CHARLES BALLARD, D.M.D.	Second Vice-President
LEONARD GEE, D.M.D.	Third Vice-President
CARL E. LIEBE, D.M.D.	Secretary-Treasurer
THOMAS D. HOLDER, D.M.D.	Caementum Editor
JAMES A. GARSON, 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 Registrar 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 facilities of the clinic are available, for consultation, to the general public and to members of the medical and dental professions.

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, and other illustrative 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. Before the end of the first year, the student begins work in the clinics, performing selected operations in the fields of prosthetics and 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.

The required work allows sufficient time within the daily schedule for independent study and research and for special 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

		First Year				Total hours	Term
		Lect.	Conf.	Lab.	Clinic		
DO 311.....	Dental Orientation.....	11	....	....	....	11	1
DO 312.....	Technical Composition.....	11	....	....	....	11	1
Pr 412, 413, 414.....	Prosthetic Technic & Clinic.....	22	....	165	66	253	9
Pr 418.....	Prosthetic Technic.....	11	....	66	....	77	3
Pr 411.....	Materials.....	....	....	22	....	22	1
Op 419.....	Operative Technic.....	11	....	44	....	55	3
An 420, 421.....	General Anatomy.....	33	....	99	....	132	6
An 418.....	Oral History.....	5	....	17	....	22	1
An 423.....	General Histology.....	22	....	66	....	88	4
An 425, 426.....	Dental Anatomy.....	33	....	99	....	132	6
Op 411.....	Oral Hygiene.....	11	....	....	....	11	1
Op 412.....	Oral Prophylaxis.....	....	....	....	22	22	..
BCh 415, 416.....	Biochemistry.....	44	....	88	....	132	6
Phy 419.....	Physiology.....	11	....	....	....	11	1
Phy 420.....	Physiology.....	11	....	33	....	44	2
		236	....	699	88	1,023	45
		Second Year					
DO 312.....	Journal Club.....	....	11	....	....	11	-
Phy 430.....	Growth & Development.....	11	....	....	....	11	1
Ord 429.....	Orthodontia.....	....	....	44	....	44	2

	Clock hours				Total	Term hours	
	Lect.	Conf.	Lab.	Clinic			
Pr 420, 421, 422.....	Prosthetic Technic.....	.....	121	.....	121	3
Pr 424, 425, 426.....	Prosthetic Clinic.....	.....	.....	132	132	3
Pr 423.....	Ceramics.....	.....	22	.....	22	1
Pr 428.....	Clinical Prosthesis.....	11	.....	.....	11	1
Op 420.....	Operative Technic.....	22	.....	66	88	4
Op 423.....	Operatic Clinic.....	.....	11	.....	77	3
Op 428.....	Operative Clinic.....	.....	.....	44	44	1
An 422.....	Head and Neck Anatomy.....	22	.....	66	88	4
An 428.....	Oral Histology.....	22	11	44	77	4	
An 427.....	Neuroanatomy & Physiology.....	11	.....	.....	11	1
Bac 420.....	Disease Resistance.....	11	.....	.....	11	1
Pth 420, 421.....	General Pathology.....	33	11	99	143	6	
Rad 420, 421.....	Dental Radiology.....	22	.....	.....	22	2
OS 421.....	Local Anaes. & Exodontia.....	11	.....	.....	33	4
Pth 423.....	Oral Pathology.....	11	.....	22	33	2
Phy 421, 422.....	Physiology.....	33	.....	99	132	6
Phy 431.....	Physiology of Occlusion.....	11	.....	.....	11	1
		231	44	583	286	1,144	48

Third Year

DO 312.....	Journal Club.....	.....	11	.....	.....	11	..
Ord 430.....	Orthodontia.....	11	.....	33	.....	44	2
Ord 431.....	Orthodontia.....	.....	11	.....	.....	11	1
Ord 432.....	Orthodontia Conference.....	.....	11	.....	.....	11	1
Ord 433.....	Orthodontia.....	11	.....	.....	.....	11	1
Pr 430.....	Clinical Prosthesis.....	11	.....	.....	.....	11	1
Pr 431.....	Crown and Bridge.....	11	.....	.....	.....	11	1
Pr 432.....	Materials.....	11	.....	22	.....	33	1
Pr 436.....	Ceramics.....	.....	.....	22	.....	22	1
Op 437.....	Root Canal Therapy.....	11	.....	22	.....	33	2
Op 430.....	Clin. Operative Dentistry.....	11	.....	.....	.....	11	1
Ped 430.....	Pedodontia.....	11	.....	22	.....	33	2
OS 434.....	Anaesthesia.....	11	.....	.....	.....	11	1
Bac 435.....	Bacteriology.....	33	.....	66	.....	99	6
Op 432.....	Caries Prevention.....	11	.....	22	.....	33	2
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.....	.....	.....	.....	.....	.....	.....
Op 433, 434, 435.....	Operative Clinic. Pr.....	.....	.....	.....	396	396	10
CP 433, 434, 435.....	General Clinic. Pr.....	.....	.....	.....	.....	.....	.....
		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

	Clock hours				Total	Term hours	
	Lect.	Conf.	Lab.	Clinic			
Med 440, 441.....	Principles of Medicine.....	22	.....	.....	.....	22	2
OS 440.....	Clinical Surgery.....	11	.....	.....	.....	11	1
Per 440.....	Periodontia.....	11	.....	.....	22	22	1
Per 441.....	Periodontia Clinic.....	.....	.....	.....	.....	11	1
An 440.....	Surgical Anatomy.....	11	.....	.....	.....	33	2
Pth 445.....	Oral Pathology.....	11	.....	22	.....	33	2
Phc 440.....	Pharmacology.....	11	.....	.....	.....	11	1
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.....	.....	.....	.....	.....	.....	.....
CP 443, 444, 445.....	General Clinic. Pr.....	.....	11	.....	.....	11	1
Phy 445.....	Applied Physiology Conf.....	.....	22	.....	.....	22	..
OD 443.....	Diagnostic Clinic.....	.....	.....	.....	.....	.....	.....
		187	66	66	766	1,085	47

RECAPITULATION

First Year.....	236	.....	699	88	1,023	45
Second Year.....	308	44	583	286	1,144	48
Third Year.....	308	55	297	451	1,111	54
Fourth Year.....	187	66	66	766	1,085	47
	962	165	1,645	1,591	4,363	194

Description of Courses

DENTAL ORIENTATION

DO 311. Dental Orientation. 1 hour.

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. Phatak, Mr. Batterson, staff, and members of the profession.

DO 312. Technical Composition. 1 hour.

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.

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.

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.

DO 442. Dental Ethics and Jurisprudence. 1 hour.

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. 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. Mr. Wetmore.

ANATOMY

Department Head: Dr. Jump.

Professor: Ellis B. Jump. Associate: Milton Johnson.
Instructors: Werner Fraenkel, Clare Holly, Earle Hussell.

An 401. Special Studies. Hours to be arranged.

An 418. Oral Histology. 1 hour.

First year. Histological structure of hard tissues, providing basic understanding in relation to work in operative technic. Lectures, 5 hours; laboratory, 17 hours. Credit granted on completion of An 428 during second year. Dr. Jump and assistant.

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, Fraenkel.

An 422. Head and Neck Anatomy. 4 hours.

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. Drs. Jump, Fraenkel.

An 423. General Histology. 4 hours.

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. Drs. Jump, Fraenkel, Miss Holly.

An 427. Neuroanatomy and Physiology. 1 hour.

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. The student is expected to acquire a detailed knowledge of the anatomy of human teeth and their relation to supporting structures. The functional morphology of the teeth, with illustrations drawn from comparative anatomy. Lectures, 33 hours; laboratory, 99 hours. Drs. Johnson, Hussell.

An 428. Oral Histology. 4 hours.

Second year. Detailed examination of the hard and soft tissues of the mouth. Significance of pathological changes for clinical dentistry. Collateral reading in dental literature required. Lectures, 22 hours; laboratory, 44 hours; conferences, 11 hours. Drs. Jump, Fraenkel.

An 440. Surgical Anatomy. 1 hour.

Fourth year. A topographic review of the anatomy of the oral region. Clinical application of anatomical relationships. Lectures, 11 hours. Dr. Jump.

BACTERIOLOGY

Department Head: Dr. Snyder.

Professor: Marshall L. Snyder. Associate: Robert Landis. Instructor: Dorothy Donnelly.
Assistant: Marie Slosson.

Bac 401. Special Studies. Hours to be arranged.

Bac 420. Disease Resistance. 1 hour.

Second year. Fundamental concepts of infection by and resistance to microbic 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.

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. Assistant: Doris Osborne.

BCh 401. Special Studies. Hours to be arranged.

BCh 415, 416. Biochemistry. 4, 2 hours.

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, Miss Osborne.

GENERAL CLINICAL PRACTICE

Associate Professor: Erwin T. Bender. Associates: Ray Davis, Richard Evans, Donald Reese.
Assistant Professors: Kenneth A. Cantwell, Theodore Suher.
Instructors: Vincent Davis, Paul Moe, Joseph Morris, Donald Passmore,
Thomas Phillips, Arthur Schwartzenhauer, 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. Assistants: Robert H. Buck, Elmer A. Jones.

Research Associate: Gladys B. McLean. Laboratory Assistant: Ruth Maass.

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

Pth 420, 421. **General Pathology.** 4, 2 hours.

Second year. Principles of pathological processes, including tissue injury and repair, inflammation, circulatory disturbances. Degenerative changes, cysts, benign and malignant tumor formation. Tissue, organ, and organ-system response to specific disease processes. The class is divided into sections for autopsy examinations and discussion of necropsy reports. Lectures, 33 hours; conference, 11 hours; laboratory, 99 hours. Drs. Minckler, Buck, Jones.

MILITARY SCIENCE AND TACTICS

Professor: Lt. Col. Robert L. Walsh.

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 Department in the treatment and evacuation of battle casualties. At the end of their 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. Under present pay scales, students in the advanced course receive a total monetary return of \$872, including travel expenses and pay at camp. Lectures, 1 hour a week throughout the four years of the dental curriculum. Lt. Col. Walsh.

NUTRITION

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

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

Nu 435. **Nutrition.** 1 hour.

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

Acting Department Head: Dr. Cantwell.

Associates: John C. Bartels, Ray J. Davis, R. Mott Erwin, Richard Evans, Robert Landis, Frank C. Pearn, Donald G. Reese.

Assistant Professors: Kenneth A. Cantwell, William S. Clifford, Theodore Suher, Vinson Weber.

Instructors: Vincent K. Davis, Walter C. Froman, Earle Hussell, Lorna M. Klier, Mathew Masuoka, Paul Moe, Joseph Morris, Donald Passmore, Thomas D. Philips, Patrick Schommer, William E. Sherfey, Arthur Schwartzenhauer, Robert F. Watkins.

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

Op 411. **Oral Hygiene.** 1 hour.

First year. Principles and methods of mouth hygiene and prophylaxis. Foreign deposits on the teeth, calculus, plaques and stains, and their removal. Toothbrushes and toothbrushing methods, dentifrices, mouthwashes. Orientation of the student to clinical applications of oral hygiene. Lectures and demonstrations, 11 hours. Dr. Clifford.

Op 412. **Oral Prophylaxis.** No credit.

First year. A general study of the hygiene of the oral cavity. The relationship between the bacterial flora of the mouth and oral hygiene. Consideration of patient management, postoperative care, and measures effective in prevention of oral disease. Orientation of the student to clinical practice through application of prophylactic principles in the clinic. Clinic, 22 hours. Drs. Clifford, Passmore.

Op 419, 420. **Operative Technic.** 3, 4 hours.

First and second years. Study of the use of operative-dentistry instruments. Cavity preparation. Mechanical principles, and their relationship to the gross and microscopic structure of the teeth. Physical, chemical, and aesthetic properties of filling materials; manipulation of these materials. Methods of excluding moisture from the field during operation. Lectures, 33 hours; laboratory, 110 hours. Drs. Cantwell, Weber, Passmore, Froman, Hussell.

Op 423. **Operative Clinic.** 3 hours.

Second year. Simple clinic operative practices. Students serve as assistants to third- and fourth-year clinic students, and observe and apply initial operative principles—chair positions, rubber-dam insertion, cavity examination, filling of no. 1 cavities. Demonstrations, 11 hours; laboratory or clinic, 77 hours. Drs. Cantwell, Weber, Passmore, Froman, Hussell.

Op 428. **Operative Clinic.** 1 hour.

Second year. Operative clinic practice. Students are assigned operations consistent with their ability and experience. Demonstrations, 11 hours; clinic, 33 hours. Drs. Cantwell, Weber, Passmore, Froman, Hussell, Operative Clinic staff.

Op 430. **Clinical Operative Dentistry.** 1 hour.

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.

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. Snyder, Bender, Everett, Suher, 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, V. K. Davis, Evans, Masuoka, Moe, Passmore, Reese, Schommer, Suher, Weber.

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

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.

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, V. K. Davis, Erwin, Froman, Kasmeyer, Landis, Moe, Joseph Morris, Phillips, Reese, Sherief, Suher, Swartzenhauer, Watkins.

ORAL DIAGNOSIS

Professors: Harold J. Noyes, Marshall L. Snyder, Merrill K. Swenson, Horace M. Miller.

Associate Professors: Erwin T. Bender, Frank G. Everett, Jeff Minckler.

Associates: M. Monte Bettman, R. Mott Erwin, John D. Finley, Henry C. Fixott,

H. Lawrence Griffith, Paul W. Kunkel, Robert L. Landis, Charles H.

Manlove, Thomas H. McAllister, Arnel R. Neely, Frank C.

Pearn, George W. Redpath, Richard P. Strahl.

Assistant Professors: Kenneth R. Cantwell, William S. Clifford, Theodore Suher.

Instructor: Lorna M. Klier.

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.

Third year. Performance of laboratory diagnostic tests. Laboratory, 22 hours. Drs. Minckler, Snyder, Bender.

OD 433. Diagnostic Clinic. 2 hours.

Third and fourth years. Application to clinical practice of knowledge gained in OD 430, 431, OD 432. Clinic (third year), 22 hours; conference (fourth year), 22 hours. Drs. Bender, Bettman, Clifford, Everett, Finley, Fixott, Griffith, Kunkel, Landis, Manlove, McAllister, Miller, Neely, Noyes, Pearn, Redpath, Snyder, Swenson, Strahl, Suher, Mrs. Klier.

OD 443. Diagnostic Clinic. No credit.

Fourth year. Student and faculty clinical conference regarding patient cases drawn from the Department of Oral Diagnosis. The student works up and presents a complete case history with all pertinent factors which have a direct bearing on diagnosis and a treatment plan. Conference, 22 hours. Dr. Swenson and faculty members from all clinical and science departments.

ORAL PATHOLOGY

Acting Department Head: Dr. Everett.

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

Instructors: Clare Holly, Wallace Sutherland, Arthur Swartzenhauer,

Francis Wilson. Research Associate: Gladys B. McLean.

Laboratory Assistant: Ruth Maass.

Pth 423. Oral Pathology. 2 hours.

Second year. Study of general pathological conditions occurring in the mouth,

such as inflammation, edema, degenerative changes in the oral tissues. Laboratory work consists of observation and description of gross and microscopic evidence of these processes. Lectures, 11 hours; laboratory, 22 hours. Drs. Everett, Evans, Sutherland, Swartzenhauer.

Pth 434. Oral Pathology. 2 hours.

Third year. Study of specific lesions commonly occurring in the oral tissues. Special consideration of manifestations and characteristics. Correlated with Op 432. Lectures, 11 hours; laboratory, 22 hours. Drs. Everett, Evans, Sutherland, Swartzenhauer.

Pth 441. Pathology Conference. 1 hour.

Fourth year. Faculty-student presentation of clinical problems bearing on oral and systemic disease. Discussion and analysis concerning problems of immediate oral treatment; review of principles and processes involved. 11 hours. Dr. Landis and pathology and clinical staff.

Pth 445. Oral Pathology. 2 hours.

Fourth year. Consideration of serious malignant disease and other morbid conditions less frequently encountered. Lectures, 11 hours; laboratory, 22 hours. Drs. Everett, Evans, Sutherland, Swartzenhauer.

ORAL SURGERY

Professor: Horace M. Miller. Associate: Samuel A. Brandon.

Instructors: Loretta F. Case, George J. Collings, Richard B. Keller, Bernadette Scully.

OS 401. Special Studies. Hours to be arranged.**OS 421. Local Anaesthesia and Exodontia. 1 hour.**

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; technic of tooth removal; postoperative treatment. Lectures, demonstrations, and clinical practice, 44 hours. Drs. Miller, Keller, Collings, Miss 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, Keller, Collings, Miss Scully.

OS 434. Anaesthesia. 1 hour.

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. Lectures, demonstrations, and clinical practice, 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.

Fourth year. Clinical application of anaesthesia technics. Clinic, 11 hours. Drs. Miller, Brandon, Keller, Collings.

ORTHODONTIA

Acting Department Head: Dr. Woods.

Professor: Harold J. Noyes. Associates: Ralph G. Cooper, Denton J. Rees.
Assistant Professor: Guy A. Woods. Instructors: Margit Hellen, Earle Hussell.

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.

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.

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.

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. Erwin.

Professor: Harold J. Noyes. Associates: William Barnum, R. Mott Erwin, Jr.
Assistant Professor: Theodore Suher. Instructor: Margit Hellen.

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. Erwin, Barnum, Suher.

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

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

Associates: M. Monte Bettman, Walter Thompson.
Assistant Professor: William S. Clifford. Instructor: Donald Passmore.

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. Drs. Bettman, Passmore.

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

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

PHARMACOLOGY

Department Head: Dr. Phatak.

Associate Professor: Nilkanth M. Phatak. Associate: H. Lawrence Griffith.
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. Dr. Phatak, Mrs. Case, Mr. Blickenstaff.

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

Fourth year. Study of the medicinal substances and pharmaceutical preparations used in dentistry; active principles; nature of action. Lectures, 11 hours. Dr. Phatak.

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

Fourth year. Application of the science of pharmacology and the knowledge of specific medicinal substances to the treatment of specific oral-dental diseases. Lectures, 11 hours. Drs. Griffith, Phatak.

PHYSIOLOGY

Acting Department Head: Dr. Phatak.

Professor: Harold J. Noyes. Associate Professor: Nilkanth M. Phatak.
Instructors: Delbert Blickenstaff, Loretta F. Case.

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

Phy 419. **Physiology.** 1 hour.

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. Drs. Phatak, Noyes, Jump, Hackedorn, Snyder, Woods.

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 circu-

latory, respiratory, digestive, metabolic, excretory, neuromuscular, and psychic activities of the body. Lectures, 66 hours; laboratory, 132 hours. Dr. Phatak, Mrs. Case.

Phy 430. Growth and Development. 1 hour.

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.

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.

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. 11 hours. Dr. Phatak and clinic staff.

PRINCIPLES OF MEDICINE

Professor: Harold J. Noyes. Associate: Ben Vidgoff.

Instructors: Loretta F. Case, Donald G. Eland. Assistant: William R. Davis.

Med 401. Special Studies. Hours to be arranged.

Med 439, 440, 441. Principles of Medicine. 1 hour each term.

Third and fourth years. The nature of systemic disease due to infection, degenerative processes, endocrine dyscracias, allergic and nutritional disorders. Consideration given to pathological entities identified with organs and organ systems. Emphasis on the oral manifestations of systemic disease and on the relation of oral disease to systemic disturbance. Lectures, 33 hours. Drs. Noyes, Vidgoff, and visiting lecturers.

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.

Professor: Merrill G. Swenson. Associates: Alfred H. Kasmeyer, Herbert A. Krumbein, Donald G. Reese, Raymond LeRoy. Instructors: Don A. Buswell, Barney C. Bybee, Werner Fraenkel, John F. Gearin, Richard K. Miner, Joseph Morris, Robert D. Morris, Donald Passmore. Assistant: George 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 primary 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. Drs. Krumbein, Gulick, Fraenkel.

Pr 418. Prosthetic Technic. 3 hours.

First year. Instruction in the primary principles and technics of partial-denture construction. Lectures, 11 hours; laboratory, 66 hours. Drs. Krumbein, Gulick, Fraenkel.

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. Drs. Kasmeyer, Swenson, Joseph Morris, Hussell.

Pr 423. Ceramics. 1 hour.

Second year. Planned to familiarize the student with ceramic procedures related to Pr 421, 422 and Pr 425, 426. Demonstrations and laboratory, 22 hours. Dr. Reese.

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

Second year. Introduction to clinical partial-denture prosthesis, following completion of Pr 418; continuation of clinical experience in complete-denture construction. Clinic, 132 hours. Drs. Swenson, Bybee, Buswell, Gearin, Miner, Joseph Morris, R. D. Morris.

Pr 428. Clinical Prosthesis. 1 hour.

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

Pr 430. Clinical Prosthesis. 1 hour.

Third year. Lectures coordinating the theory of crown, bridge, partial-denture, and complete-denture prosthesis with clinical applications in Pr 433, 434, 435. Lectures, 11 hours. Dr. Swenson.

Pr 431. Crown and Bridge Prosthesis. 1 hour.

Third year. Lectures supplementing third-year crown and bridge clinical experience; special procedures and problems which will be met in clinical practice. Lectures, 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. Bybee, Swenson.

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. Drs. Swenson, Bybee, Buswell, Gearin, Kasmeyer, Miner, Joseph Morris, R. D. Morris, Passmore.

Pr 436. Ceramics. 1 hour.

Third year. Construction of porcelain 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, Reese.

Pr 440. Clinical Prosthesis. 1 hour.

Fourth year. Lectures coordinating advanced prosthetic theory—including

crown and bridge, partial denture, and complete denture—with clinical applications in Pr 443, 444, 445. Lectures, 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. Drs. Swenson, Bybee, Buswell, Gearin, Kasmeyer, Miner, Joseph Morris, R. D. Morris, Passmore.

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: Maurine Watson, Rosetta Marrion.

Rad 401. Special Studies. Hours to be arranged.

Rad 420, 421. Dental Radiology. 1 hour each term.

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.

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

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 75,000 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 functions 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 \$116.50 per term for residents of Oregon or a total of \$166.50 for nonresidents. For a detailed table of fees, see pages 19-20.

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; bite blocks, scaling instruments; straight hand piece, contra-angle, mouth mirror, tongue blades, rubber cups, mandrels; uniform, shoes.

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 22.

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 wide reference reading and study, and serves as the center of much of the instruction.

Throughout the two years of study, a counsellor from the Dental School faculty is assigned the special duty of providing personnel guidance and of 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 pages 18-19, above).

TABLE OF COURSES, TIME, AND CREDIT

	First Year					Term hours
	Lect.	Conf.	Lab.	Clinic	Total	
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 Pathology.....	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 Hygienists.....	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
LH 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.

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.

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. Drs. Bolling, Jump.

DH 117. Anatomy and Physiology. 3 hours.

First year. A course in structural and functional anatomy and physiology, designed especially for hygienists. Lectures, 22 hours; laboratory, 22 hours. Drs. Jump, Phatak, Fraenkel, Mr. Blickenstaff.

DH 119. Bacteriology. 4 hours.

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. A combined general and oral histology course. Overview of the structural elements of tissues and organs; identification of normal and abnormal tissue. Hard and soft tissues of the oral cavity; significance of readily identified gross pathological changes. Lecture, 22 hours; laboratory, 55 hours. Miss Holly, Dr. Jump.

DH 124. Caries Prevention. 2 hours.

First year. Study of the problem of dental caries, with special reference to methods of prevention. Evaluation of therapy technics and methods. Laboratory study of technics for determining caries susceptibility. Lecture, 11 hours. Clinic and demonstration, 22 hours. Drs. Snyder, Suher, Everett.

DH 130, 131. Dental Anatomy. 3, 2 hours.

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. Hussell.

DH 133. Chemistry. 4 hours.

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, Miss Osborne.

DH 139. Dental Technics. 2 hours.

First year. Dental technics and materials. Characteristics and technics of manipulation of such materials as abrasives, artificial stone, impression ma-

terials, 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. Hussell.

DH 142, 143. Oral Radiology. 1, 3 hours.

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.

First year. Detailed study of the principles and methods of mouth hygiene and prophylaxis. Foreign deposits on the teeth, calculus plaques, stain. Tooth brushes and tooth-brushing 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. Drs. Hussell, Clifford, and members of the operative staff.

DH 146. Oral Hygiene and Prophylaxis. 4 hours.

First year. A continuation of oral-hygiene and prophylaxis-clinic practice begun in DH 145; demonstrations of topical application of sodium fluoride. The hygienist, insofar as facilities are available, is assigned the performance of prophylaxis technic for patients in county hospitals and other clinics. County hospital officials and dental staffs provide supervision under the general direction of the clinical staff at the Dental School. Lectures, 11 hours; demonstrations, 11 hours; Dental School clinic practice, 33 hours; hospital clinic practice, 99 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.

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. Case, staff.

DH 157. Technical Composition for Hygienists. 1 hour.

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.

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. Drs. Minckler, Everett, Landis.

DH 220. Anatomy and Physiology. 4 hours.

Second year. Continuation of DH 117. Lectures, 33 hours; laboratory, 22 hours.

DH 223. Growth and Development. 3 hours.

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. Drs. Noyes, Suher.

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

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. Dr. Phatak.

DH 227. Public Health. 2 hours.

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. Lectures, 22 hours. Drs. Snyder, Meador.

DH 229. Nutrition. 2 hours.

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.

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. Members of the dental profession and selected speakers from public schools, public health services, etc.

DH 234. Dental Health Program Planning. 2 hours.

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 in public schools, 22 hours. Public school officials and members of the Dental School clinical staff.

DH 237. Orthodontia. 1 hour.

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

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. Woods.

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

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. Relationship with the public and public school officials. Lectures, 11 hours. Drs. Noyes, Weber, Mr. Batterson, speakers from public schools.

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. General Clinic staff.

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

Second year. The student is assigned to a public school health clinic to perform oral hygiene, prophylactic, and other preventive measures. The student cooperates with members of the dental profession and public school officials in carrying out the aims and methods of the public school dental health program. During the spring term the student is assigned to a private dental office where she receives practical "on the job" training under the supervision of a practicing dentist. The student is expected to maintain a recall system and, under surveillance of the supervising dentist, assume full responsibility for a schedule of patients for which oral-hygiene, prophylactic, and preventive measures are indicated. Supervision for students in clinical clerkships is maintained jointly by the clinical staff of the Dental School, public health and public school officials, and members of the dental profession, in cooperation with the Oregon State Dental Association. Conference, 11 hours; clinical clerkships, 297 hours.

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.

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 16, 1949

DOCTOR OF DENTAL MEDICINE

Adkison, Robert W.; Yakima, Wash.	Lamberton, Clark M.; Portland
Bjorklund, Leon Vernon; Kirkland, Wash.	Leakey, John E.; Portland
Bookhalter, Paul; Winnipeg, Manitoba	Lloyd, Chester; Mona, W. Va.
Braden, Beverly E.; Spokane, Wash.	Lundgreen, Lynn; Monroe, Utah
Buswell, Don Averett; Ogden, Utah	Manchester, Don; Spokane, Wash.
Bybee, Barney Campbell; Portland	Marshall, Frederick J.; Vancouver, B.C.
Carmichael, Robert M.; Powell River, B.C.	Martin, Gardner M.; Vancouver, B.C.
Clark, Robert LaFrance; Portland	Masuoka, Matthew M.; Portland
Collings, George J.; Portland	Mercer, Abram G.; Portland
Davis, John Robert; Nephi, Utah	Miner, Richard K.; Springfield, Utah
Deans, Donald Bruce; Kelowna, B.C.	Morris, Joseph N.; Walluku, T.H.
Dyke, John A.; Olympia, Wash.	Morris, Robert D.; Portland
Epstein, Louis; Saskatoon, Saskatchewan	Munzie, Wesley P.; Vancouver, B.C.
Ferguson, Clinton C.; Tacoma, Wash.	Nelson, Jack D.; Kent, Wash.
Fewell, Jack; Tacoma, Wash.	Nicholl, Corey J.; Saskatoon, Saskatchewan
Fishman, Joseph; Wynyard, Saskatchewan	Nyhus, Harry Omar; Port Angeles, Wash.
Ford, Jack Wendell; Olympia, Wash.	Ouderkirck, Kenneth L.; Portland
Foster, Don E.; Yakima, Wash.	Parsons, Terrance G.; Westminster, B.C.
Froman, Walter Charles; Portland	Piderman, Rene J.; Port Coquitlam, B.C.
Gamble, Glen S.; Portland	Pierce, Jack Y.; Winnipeg, Manitoba
Gardner, Claude W.; Vancouver, B.C.	Poulson, Paul H.; Boise, Ida.
Gearin, John Francis; Newberg	Rankin, Clifford H.; Spokane, Wash.
Robert Guerin; Portland	Rouchat, Raymond C.; Powell River, B.C.
Haddad, Abe; Vancouver, B.C.	Sanderman, Marshall S.; Portland
Hagen, Norman R.; Parkland, Wash.	Schmuland, Oscar; Nanaimo, B.C.
Hall, Leonard E.; Stevensville, Mont.	Shane, Howard A.; Spokane, Wash.
Hall, Rex P.; Burley, Ida.	Smith, James M.; Coos Bay
Hartvigsen, Boyd A.; Pocatello, Ida.	Smordin, Sidney B.; Dauphin, Manitoba
Hatcher, Clarence H.; Longview, Wash.	Staniloff, Coleman K.; Saskatoon, Saskatchewan
Hilton, LaMar B.; Salt Lake City, Utah	Sture, Vernon J.; Gresham
Hoffman, John H.; Milwaukee, Wis.	Sutherland, Wallace F.; Seattle, Wash.
Hurst, Clyde F.; Logan, Utah	Telford, Robert B.; Vancouver, B.C.
Hutchinston, Harold; Seattle, Wash.	Touhey, Thomas B.; Vancouver, B.C.
Jensen, Sterling M.; Salt Lake City, Utah	Traxler, Fred W.; Glendale, Calif.
Johnson, Ewing M.; Clarkston, Wash.	Uchiyama, Sam T.; Weiser, Ida.
Johnson, Terrence F.; Portland	Van Houten, John T.; Victoria, B.C.
Jonas, Edmund A.; New York, N.Y.	Vernon, Thomas A.; Vancouver, B.C.
Kanter, Joseph; Coos Bay	Vickar, Joseph; Brooksby, Saskatchewan
Kay, F. Arthur; Richmond, Wash.	Watkins, Robert P.; Hoquiam, Wash.
Killas, Kosta; Prince Rupert, B.C.	White, Rodney S.; Vancouver, Wash.
Kelly James; Merrit, B.C.	Wiley, Owen; Burkburnett, Tex.
Koski, Roy E.; Eugene	Willing, Don W.; Portland
Laird, Jack S.; Coquille	

Enrollment and Degrees, 1948-49

	Men	Women	Total
Enrollment:			
First year.....	79	--	79
Second year.....	64	--	64
Third year.....	67	1	68
Fourth year.....	85	--	85
Special, auditor.....	4	1	5
Graduate.....	1	--	1
Total enrollment.....	300	2	302
Degrees conferred (D.M.D.).....	85	--	85

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Enrollment and Degrees, 1948-49

Year	Men	Women	Total
1948	55	1	56
1947	53	1	54
1946	52	1	53
1945	51	1	52
1944	50	1	51
1943	49	1	50
1942	48	1	49
1941	47	1	48
1940	46	1	47
1939	45	1	46
1938	44	1	45
1937	43	1	44
1936	42	1	43
1935	41	1	42
1934	40	1	41
1933	39	1	40
1932	38	1	39
1931	37	1	38
1930	36	1	37
1929	35	1	36
1928	34	1	35
1927	33	1	34
1926	32	1	33
1925	31	1	32
1924	30	1	31
1923	29	1	30
1922	28	1	29
1921	27	1	28
1920	26	1	27
1919	25	1	26
1918	24	1	25
1917	23	1	24
1916	22	1	23
1915	21	1	22
1914	20	1	21
1913	19	1	20
1912	18	1	19
1911	17	1	18
1910	16	1	17
1909	15	1	16
1908	14	1	15
1907	13	1	14
1906	12	1	13
1905	11	1	12
1904	10	1	11
1903	9	1	10
1902	8	1	9
1901	7	1	8
1900	6	1	7
1899	5	1	6
1898	4	1	5
1897	3	1	4
1896	2	1	3
1895	1	1	2
1894	0	1	1
1893	0	1	1
1892	0	1	1
1891	0	1	1
1890	0	1	1
1889	0	1	1
1888	0	1	1
1887	0	1	1
1886	0	1	1
1885	0	1	1
1884	0	1	1
1883	0	1	1
1882	0	1	1
1881	0	1	1
1880	0	1	1
1879	0	1	1
1878	0	1	1
1877	0	1	1
1876	0	1	1
1875	0	1	1
1874	0	1	1
1873	0	1	1
1872	0	1	1
1871	0	1	1
1870	0	1	1
1869	0	1	1
1868	0	1	1
1867	0	1	1
1866	0	1	1
1865	0	1	1
1864	0	1	1
1863	0	1	1
1862	0	1	1
1861	0	1	1
1860	0	1	1
1859	0	1	1
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