

Oregon State System  
of Higher Education  
**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  
**1949-50**

Oregon State System  
of Higher Education  
**BULLETIN**

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UNIVERSITY OF OREGON  
DENTAL SCHOOL

# CATALOG

1949-50



Portland, Oregon

# State Board of Higher Education

	Term Expires
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GEORGE F. CHAMBERS, Salem.....	1951
LEIF S. FINSETH, Dallas.....	1952
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Office of the State Board of Higher Education  
Eugene, Oregon

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## Oregon State System of Higher Education

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

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

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

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

# University of Oregon Dental School

## Faculty

PAUL C. PACKER, PH.D., Chancellor, Oregon State System of Higher Education.

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

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

ERNEST E. STARR, D.M.D., Professor Emeritus of Pathology.

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.

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DONALD G. ELAND, D.M.D., Instructor in Dentistry.

RICHARD EVANS, B.S., D.M.D., Instructor in Dentistry.

WERNER FRAENKEL, Dr. Med. Dent., Instructor in Dentistry.

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CLARE HOLLY, Technician.

MILTON H. JOHNSON, D.M.D., Instructor in Dentistry.

ALFRED H. KASMEYER, D.M.D., Instructor in Dentistry.

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THOMAS D. PHILLIPS, D.M.D., Instructor in Dentistry.

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WYNNE SAUNDERS, Instructor in Dental Science.

BERNADETTE SCULLY, R.N., Instructor in Dental Science.

MORRIS H. STANSBURY, D.M.D., Instructor in Dentistry.

GUY A. WOODS, M.S., D.D.S., Instructor in Dentistry.

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

GLADYS B. MCLEAN, B.S., Research Associate.

MAXINE B. SHAW, B.S., Dietary Consultant.

JOSEPH E. WETMORE, Lecturer in Practice Management.

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

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 HARVEY C. LACHAPPELL, Maintenance Repairman.

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DR. H. M. HACKEDORN  
DR. MERRILL G. SWENSON  
DR. MARSHALL L. SNYDER, chairman

*Student Affairs:*

DR. HERBERT KRUMBEIN  
DR. VINSON WEBER  
DR. KENNETH P. AUSTIN, chairman

# 1949-50 Academic Calendar

## Fall Term, 1949-50

October 3-4, *Monday, Tuesday*..... Registration; aptitude testing of first-year students  
October 5, *Wednesday*..... Classes begin  
November 24, *Thursday*..... Thanksgiving Day, holiday  
December 20, *Tuesday*..... Classes end  
December 21-23, *Wednesday through Friday*..... Term examinations  
December 23, *Friday*..... Term ends

## Winter Term, 1949-50

January 3, *Tuesday*..... Classes begin  
March 15, *Wednesday*..... Classes end  
March 16-18, *Thursday through Saturday*..... Term examinations  
March 18, *Saturday*..... Term ends

## Spring Term, 1949-50

March 27, *Monday*..... Classes begin  
May 30, *Tuesday*..... Memorial Day, holiday  
June 13, *Tuesday*..... Classes end  
June 14-16, *Wednesday through Friday*..... Term examinations  
June 15, *Thursday*..... Commencement  
June 16, *Friday*..... Term ends

## Summer Session, 1950

June 19 through July 21..... First five weeks  
July 24 through August 25..... Second five weeks

## The Dental School Program

**N**O 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. 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

**T**HE 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

**T**HE 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
J. H. ROSSMAN, D.D.S., Portland.....	1950
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

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

## Facilities

**T**HE 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

**T**HE DENTAL SCHOOL Library contains 4,924 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

**T**HERE 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.

As an aid in selection, the Admissions Committee requires a personal interview with the applicant. All candidates for admission must be of good moral character and possess good health.

#### APPLICATION PROCEDURE

Application for admission to the Dental School should be made as soon as possible after November 1 of the year preceding matriculation, and should be addressed to the Admissions Committee, care of the Registrar's Office of the Dental School. The final date for filing application is March 15. The applicant's credentials should include the following:

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

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

(3) An official transcript of all college work completed.

(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 pre-dental curriculum at the University of Oregon. See pages 15-16.

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

In selecting elective subjects to complete their predental college programs, students are advised to choose courses in the social sciences and the humanities and to avoid concentration in the physical and biological sciences. It is highly 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.

**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.

**Predental Curriculum**

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

**TWO-YEAR CURRICULUM**

	Term hours		
	F	W	S
<b>First Year</b>			
General Chemistry (Ch 201, 202, 203) .....	5	5	5
General Zoology (Bi 201, 202, 203) .....	4	4	4
Mathematics .....	4	4	4
English Composition (Rht 111, 112, 113) .....	3	3	3
Physical Education .....	1	1	1
Military Science .....	1	1	1
	18	18	18
<b>Second Year</b>			
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
<b>First Year</b>			
General Chemistry (Ch 201, 202, 203) .....	5	5	5
Mathematics .....	4	4	4
English Composition (Rht 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
<b>Second Year</b>			
Organic Chemistry (Ch 226, 227) .....	4	4	-
Analytical and Theoretical Chemistry (Ch 204) .....	-	-	5
General Zoology (Bi 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
<b>Third Year</b>			
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 pre dental 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

**T**WO days at the opening of the fall term are devoted to the registration of students entering the first-year class. During this period, in addition to formal enrollment, the student takes a series of aptitude tests, and receives a preliminary introduction to the facilities of the school and to his responsibilities in relation to its ideals and regulations.

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.

## Scholarship Regulations

**T**HE 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.

Unsatisfactory work may receive the following grades: *Incomplete*, for work not completed for reasons satisfactory to the instructor; *Condition*, for work of a borderline quality; *F*, failure. Faculty regulations governing these grades are:

*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 is granted the privilege of re-examination or the opportunity to complete special assignments covering his deficiency, or both; in case the student fails in his re-examination, further re-examination is not allowed. *D* is the highest grade that may be given when a *Condition* is removed. If not removed within one academic year, a *Condition* automatically 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

**U**NDERGRADUATE 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
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 (over night).....	25

### 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 .....	25.00	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 \$175,000. 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

**T**HE 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

**T**HE 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 1948-49 are: Owen Wiley, president; Don Manchester, vice-president; T. F. Johnson, secretary; William Howard, treasurer; Malcolm Severy, editor; Jack Collings, athletic manager.

**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 1948-49 are: Psi Omega: Sigurd Liseth, Jack Over; Delta Sigma Delta: John Wold, Raymond Campbell; Xi Psi Phi: Fred Brunton, Boyd Jacobson; 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 present editor is Dr. William L. Barnum, '40.

The officers of the Alumni Association for 1948-49 are:

LEO L. MCKENNA, D.M.D.	President
ROBERT L. JEFFCOTT, D.M.D.	First Vice-President
ROBERT HAMFSON, D.M.D.	Second Vice-President
LLOYD JACOBSON, D.M.D.	Third Vice-President
DAVID E. WEBER, D.M.D.	Secretary-Treasurer
WILLIAM L. BARNUM, D.M.D.	Editor
THOMAS HOLDER, D.M.D.	Assistant 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 systemic disturbance, oral health, and dento-facial development. The child's record is documented by physical measurements, roentgenographic records, photographs, oral casts, and detailed information on general and oral health.

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 disturbance 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. Limited dental service, based on the clinic fee schedule of the Dental School, is provided for children from families of low incomes.

## Department of Illustration

**T**HROUGH 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, sound 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

**T**HE 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

	Lect.	Clock hours				Term hours
		Conf.	Lab.	Clinic	Total	
<b>First Year</b>						
DO 311.....Dental Orientation.....	11	—	—	—	11	1
DO 312.....Technical Composition.....	11	—	—	—	11	1
Pr 412, 413, 414.....Prosthetic Tech. & Clin.....	22	—	165	66	253	9
Pr 418.....Prosthetic Technic.....	11	—	66	—	77	3
Pr 411.....Materials.....	11	—	44	—	55	2
Op 419.....Operative Technic.....	11	—	44	—	55	3
An 420, 421, 422.....General Anatomy.....	44	11	165	—	220	9
An 424.....Embryology.....	11	—	—	—	11	1
An 418.....Oral Histology.....	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 414, 415, 416.....Biochemistry.....	33	11	88	—	132	6
	236	22	754	88	1,100	47
<b>Second Year</b>						
DO 312.....Journal Club.....	—	11	—	—	11	—
Phy 430.....Growth and Development.....	11	—	—	—	11	1
Ord 429.....Orthodontia.....	11	—	44	—	55	3
Pr 420, 421, 422.....Prosthetic Technic.....	33	—	121	—	154	6
Pr 424, 425, 426.....Prosthetic Clinic.....	—	—	—	132	132	3
Pr 428.....Clinical Prosthesis.....	11	—	—	—	11	1
Op 420.....Operative Technic.....	22	—	88	—	110	4
Op 422.....Oral Prophylaxis Clinic.....	—	—	—	22	22	1
Op 423.....Operative Clinic.....	—	—	—	55	55	2
Op 428.....Operative Clinic.....	—	—	—	44	44	1
An 428.....Oral Histology.....	22	11	44	—	77	4
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	—	—	11	22	1
Pth 423.....Oral Pathology.....	11	—	22	—	33	2
Phy 420, 421, 422.....Physiology.....	66	—	132	—	198	10
	264	33	550	264	1,111	48
<b>Third Year</b>						
DO 312.....Journal Club.....	—	11	—	—	11	—
Ord 430.....Orthodontia.....	11	—	33	—	44	2
Ord 431.....Orthodontia.....	11	—	—	—	11	1
Ord 432.....Ortho. Pedodontia Conf.....	—	11	—	—	11	1
Pr 430.....Clinical Prosthesis.....	11	—	—	—	11	1
Pr 436.....Ceramics.....	11	—	33	—	44	2
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

Third Year (continued)

		Clock hours				Total	Term hours
		Lect.	Conf.	Lab.	Clinic		
Op 432.....	Caries Prevention.....	11	—	44	—	55	3
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	—	—	44	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.....						
CP 433, 434, 435.....	General Clinic. Pr.....						
		297	66	308	451	1,122	53

Fourth Year

DQ 441.....	Dental Econ. & History.....	11	—	—	—	11	1
DO 442.....	Dental Ethics & Jurisp.....	11	—	—	—	11	1
DO 445.....	Practice Mgt. (elective).....	11	—	—	—	11	—
DO 401.....	Seminar.....	—	11	—	—	11	—
PH 440, 441, 442.....	Public Health.....	33	—	—	—	33	3
Pr 440.....	Clinical Prosthesis.....	11	—	—	—	11	1
Op 440.....	Clin. Operative Dent.....	11	—	—	—	11	1
Ped 441.....	Pedo.-Orthodontia Conf.....	—	11	—	—	11	1
OS 444.....	Anaesthesia Clinic.....	—	—	—	11	11	1
Med 443, 444, 445.....	Hospital Clinics.....	—	—	—	18	18	3
Pth 441.....	Pathology Conference.....	—	11	—	—	11	1
401.....	Special Studies (applied experimental science).....	—	—	22	—	22	1
Med 440, 441.....	Principles of Medicine.....	22	—	—	—	22	2
OS 440.....	Clinical Surgery.....	11	—	—	—	11	1
Per 440.....	Periodontia.....	11	—	—	—	11	1
Per 441.....	Periodontia Clinic.....	—	—	—	22	22	1
An 440.....	Surgical Anatomy.....	11	—	—	—	11	1
Pth 445.....	Oral Pathology.....	11	—	22	—	33	2
Phc 440.....	Pharmacology.....	11	—	22	—	33	2
Phc 445.....	Dental Materia Medica.....	11	—	—	—	11	1
Phc 446.....	Applied Therapeutics.....	11	—	—	—	11	1
Pr 443, 444, 445.....	Prosthetic Clinic. Pr.....	}	}	}	}	}	}
Op 443, 444, 445.....	Operative Clinic. Pr.....						
CP 443, 444, 445.....	General Clinic. Pr.....						
Phy 445.....	Applied Physiology Conf.....	—	11	—	—	11	1
		187	44	66	711	1,008	47

RECAPITULATION

First year.....	236	22	754	88	1,100	47
Second year.....	264	33	550	264	1,111	48
Third year.....	297	66	308	451	1,122	53
Fourth year.....	187	44	66	711	1,008	47
	984	165	1,678	1,514	4,341	195

## 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. Assistant Professor: Lois Douglas.

Instructors: Werner Fraenkel, Margit Hellen, Clara Helly, Milton Johnson.

**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, 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, Hellen.

An 422. **General Anatomy.** 3 hours.

First 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, 11 hours; laboratory, 66 hours; conferences, 11 hours. Drs. Jump, Fraenkel, Hellen.

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, Hellen, Mrs. Douglas.

An 424. **Embryology.** 1 hour.

First year. Development of the systems and organs, correlated with topographic studies in An 420, 421, An 422. Lectures, 11 hours. Drs. Jump, Hellen.

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. Dr. Johnson and assistant.

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, Hellen, Miss Holly.

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.

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

Bac 420. **Disease Resistance.** 1 hour.

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

Bac 435. **Bacteriology.** 6 hours.

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.

**BIOCHEMISTRY**

Associate Professor: Howard M. Hackedorn. Instructor: Joan Barnes.

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

**BCh 414, 415, 416. Biochemistry.** 2 hours each term.

First year. Chemical reactions that take place in the regulation of normal body functions; maintenance of general health, and formation of the teeth. Food, its digestion, assimilation, and elimination in health and disease. Vitamins and their relations to growth and health. Quantitative and qualitative blood and urine examinations, calcium determination, tissue analysis, etc., performed in preparation for clinical application in the third and fourth years. Lectures, 33 hours; laboratory, 88 hours; conference, 11 hours. Dr. Hackedorn, Mrs. Barnes.

**GENERAL CLINICAL PRACTICE**

Associate Professor: Erwin T. Bender. Associates: Ray Davis, H. Lawrence Griffith.  
Assistant Professors: James Burkhart, Kenneth A. Cantwell, Theodore Suher.  
Instructors: Vincent K. Davis, Richard Evans, Paul Moe, Donald Passmore,  
Thomas D. Phillips, Donald G. Reese.

**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.

**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. Dietary Consultant: Maxine Shaw.

**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. Shaw.

## OPERATIVE DENTISTRY

Acting Department Head: Dr. Cantwell.

Associates: John C. Bartels, Ray Davis, H. Lawrence Griffith, Frank C. Pearn.  
 Assistant Professors: James Burkhardt, Kenneth A. Cantwell, William S. Clifford,  
 Theodore Suher, Vinson Weber.

Instructors: Vincent K. Davis, Richard Evans, Paul Moe, Donald Passmore,  
 Thomas D. Phillips, Donald G. Reese.

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. Tooth-brushes 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, 132 hours. Drs. Cantwell, Weber, Passmore.

Op 422. **Oral Prophylaxis Clinic.** 1 hour.

Second year. Continuation of clinical experience provided in Op 412, with greater student responsibility for effectiveness of technic, speed, and handling of the patient. Clinic, 22 hours. Dr. Clifford.

Op 423. **Operative Clinic.** 2 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, 44 hours. Drs. Cantwell, Weber, Passmore.

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, V. K. Davis, Weber, Passmore, 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.** 3 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 of technics for determining caries susceptibility. Lectures, 11 hours; laboratory, 44 hours. Drs. Snyder, Bender, Everett, Suher, Mrs. Shaw.

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, Burkhart, Cantwell, Clifford, Ray, Davis, Evans, Griffith, Moe, Passmore, Phillips, Reese, 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, Burkhart.

**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, Burkhart, Cantwell, Clifford, Ray, Davis, V. K. Davis, Evans, Griffith, Moe, Passmore, Phillips, Reese, Suher, Weber.

### ORAL DIAGNOSIS

Professors: Harold J. Noyes, Marshall L. Snyder, Merrill G. Swenson.

Associate Professors: Erwin T. Bender, Associates: M. Monte Bettman, Henry C. Fixott, Jr., M. Lawrence Griffith, Paul W. Kunkel, Charles H. Manlove, Arno R. Neely, Frank C. Pearn, George W. Redpath, Richard P. Strahl.

Assistant Professors: Frank G. Everett, William S. Clifford, Lois Douglas, Theodora Suher. Dietary Consultant: Maxine Shaw.

**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.

**OD 432. Clinical Diagnostic Methods.** 1 hour.

Third year. Performance of laboratory diagnostic tests. Laboratory, 22 hours. Drs. Snyder, Bender, Manlove, Mrs. Douglas.

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

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

### ORAL SURGERY

Professor: Horace M. Miller. Associates: Samuel A. Brandon, Arno R. Neely.

Instructors: Loretta F. Case, Donald G. Eland, Richard Evans, Alfred H. Kasmeyer, Bernadette Scully.

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

**OS 421. Local Anaesthesia and Exodontia.** 1 hour.

Second year. Evaluation of the patient's individual problem; the hazards of anaesthesia; selection of the proper local anaesthetic and instruments; sterile

technic in local anaesthesia; technic of tooth removal. Lectures, demonstrations, and clinical practice, 11 hours. Drs. Miller, Eland, 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 demonstration, 33 hours; clinic, 22 hours minimum (additional hours by arrangement). Drs. Brandon, Miller, Eland, Evans, Kas-meyer, Mrs. Case, 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 contra-indications; 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. Mrs. Case.

### ORTHODONTIA

Department Head: Dr. Stoffel.

Professors: Harold J. Noyes, Henry C. Stoffel. Associates: Ralph G. Cooper, Denton J. Rees.  
Instructor: Guy A. Woods.

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

**Ord 429, 430. Orthodontia.** 3, 2 hours.

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, 22 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 Rhs 430 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-Pedodontia 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.

### PATHOLOGY

Associates: Robert Landis, Charles H. Manlove. Assistant Professors: Frank G. Everett, Lois Douglas.

Instructors: Richard Evans, Clara Holly.

Assistant: John A. Newman. Research Associate: Gladys B. McLean.

Acting Department Head: Dr. Manlove.

**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, edema, 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. Manlove, Landis, Newman, Mrs. Douglas.

**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.

**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.

**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. Pathology and Clinical staffs.

**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.

**PEDODONTIA**

Department Head: Dr. Erwin.

Professor: Harold J. Noyes. Associate: William Barnum, R. Mott Erwin, Jr.

Assistant Professor: Theodore Suher.

**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.

**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, path-

ology, and physiology of the tissues that support the teeth. Diagnosis of periodontal diseases; etiology, prevention, and treatment of these diseases. Lectures and demonstrations, 33 hours. Dr. Bettman.

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

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

### PHARMACOLOGY

Department Head: Dr. Phatak.  
Associate Professor: Nilkanth M. Phatak. Associate: H. Lawrence Griffith.  
Instructor: Loretta F. Case.

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

Phc 438, 439, 440. **Pharmacology.** 2 hours each term.

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

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. Griffith.

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. Dr. Griffith.

### PHYSIOLOGY

Acting Department Head: Dr. Phatak.  
Professor: Harold J. Noyes. Associate Professor: Nilkanth M. Phatak.  
Instructor: Loretta F. Case.

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

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

Second year. Fundamental mechanisms governing human body functions. Normal and abnormal deviations of the functions. Detailed study of the circulatory, respiratory, digestive, metabolic, excretory, neuromuscular, and psychic activities of the body. Lectures, 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. Dr. Noyes.

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.

**PRINCIPLES OF MEDICINE**

Professor: Harold J. Noyes. Associates: Carl J. Hollingworth, Thomas L. Meador, Ben Vidgoff.  
 Instructor: Loretta F. Case. 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 dyscrasias, 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, Meador, Davis, 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, hospital staffs.

**PROSTHESIS**

Department Head: Dr. Swenson.

Professors: Merrill G. Swenson, Robert L. Walsh. Associate Professor: Kenneth P. Austin.  
 Associates: Glenn Garrett, Herbert A. Krumbein, John Kuratli, Raymond LeRoy.  
 Instructors: Donald Eland, Alfred H. Kasmeyer, Patrick O'Brien, Donald Passmore,  
 Donald G. Reese, Morris H. Stansbury, Warren Swanson.  
 Assistant: George E. Gulick.

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

Pr 411. **Materials.** 2 hours.

First year. Physical properties, manipulation, uses, and manufacture of the various materials used in dentistry. Lectures and demonstrations, 11 hours; laboratory, 44 hours. Drs. Swenson, 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. Austin, 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.** 2 hours 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. Lectures, 33 hours; laboratory, 121 hours. Drs. Kuratli, Swenson, Swenson, Kasmeyer.

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, Austin, O'Brien, Stansbury, Walsh.

**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. 11 hours. Dr. 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, Austin, Swanson, O'Brien, Stansbury, Walsh, Kasmeyer, Passmore.

**Pr 436. Ceramics. 2 hours.**

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. Lectures, 11 hours; laboratory, 33 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. 11 hours. Dr. Swenson.

**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, Austin, Swanson, O'Brien, Stansbury, Walsh, Kasmeyer, Passmore.

**PUBLIC HEALTH**

Professor: Marshall L. Snyder. Associate: Thomas L. Meador.

**PH 401. Special Studies. Hours to be arranged.****PH 440, 441. Public Health. 1 hour each term.**

Fourth year. Introduction to public health; principles of preventive medicine. Use of vital statistics. Public health programs in the community. Study of programs in industry, schools, Federal and local governmental agencies. Lectures, 22 hours. Drs. Meador, Snyder.

**PH 442. Public Health. 1 hour.**

Fourth year. Public health aspects of diseases important to the daily health problems encountered in dental practice, with special reference to the agents causing oral and respiratory infection. Lectures, 11 hours. Dr. Snyder.

**RADIOLOGY**

Department Head: Dr. Fixott, Jr.

Associates: Henry C. Fixott, Jr., Arnol 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. 2 hours. Dr. Fixott.

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

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

## Enrollment and Degrees, 1947-48

	Men	Women	Total
<b>Enrollment:</b>			
First year .....	75	-	75
Second year .....	72	1	73
Third year .....	85	-	85
Fourth year .....	36	-	36
Special, auditor .....	2	-	2
Total enrollment .....	270	1	271
Degrees conferred (D.M.D.) .....	35	-	35

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