

**OREGON STATE SYSTEM
OF HIGHER EDUCATION**

BULLETIN

The Dental School of the University of Oregon

Portland, Oregon

**CATALOG
I S S U E
1954-55**

Oregon State System of Higher Education

BULLETIN

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Eugene, Oregon

for

**The Dental School
of the University of Oregon
Portland, Oregon**

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**809 N. E. Sixth Avenue
Portland, Oregon**

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 survey of higher education in Oregon by the U. S. Office of Education, includes all the state-supported institutions of higher education. The several institutions are elements in an articulated system, parts of an integrated whole. The educational program is 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, Oregon College of Education at Monmouth, Southern Oregon College of Education at Ashland, and Eastern Oregon College of Education at La Grande. Portland State Extension Center, the University of Oregon Medical School, and the Dental School of the University of Oregon are located in Portland.

Each of the institutions provides the general studies fundamental to a well-rounded education. At the three colleges of education, students who do not plan to become teachers may devote their time to general studies or (at Southern Oregon and Eastern Oregon colleges of education) to approved lower-division programs in certain 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.

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

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1954-55 Academic Calendar

Fall Term

September 30, 1954 through December 18, 1954

Registration.....September 30, October 1, 2
Classes begin.....October 4
Thanksgiving.....November 25
Classes end.....December 14
Final Examinations.....December 15, 16, 17, 18
Term ends.....December 18

Winter Term

January 3, 1955 through March 19, 1955

Classes begin.....January 3
Classes end.....March 15
Final Examinations.....March 16, 17, 18, 19
Term ends.....March 19

Spring Term

March 28, 1955 through June 10, 1955

Classes begin.....March 28
Memorial Day, holiday.....May 30
Classes end.....June 7
Commencement.....June 9
Final Examinations.....June 8, 9, 10
Term ends.....June 10

Summer Session, 1955

Six weeks.....Monday, August 8 through Friday,
September 16

Fall Term, 1955-56

Registration.....September 29, 30, October 1

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The Dental School of the University of Oregon

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Dentistry as a Career

A career in dentistry offers a variety of professional opportunities for capable young men and women. For adequate care of the dental health requirements of the United States, many more dentists are needed than are now practicing. Capacity enrollments in all the dental schools in the country cannot satisfy this need. With the number of dentists now being graduated each year (about 2,900), the present inadequate ratio of dentists to population in the United States will not be improved within the foreseeable future.

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

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

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

The Dental School Program

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

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

curriculum in close relation to the diagnostic and clinical application of the basic principles learned.

In the third and fourth years, intensive practice of specialized therapeutic 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 graduate program in bacteriology leading to the Master of Science degree; (4) a two-year program for the training of dental hygienists (see pp. 48). 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.

History of the Dental School

The Dental School of the University of Oregon was established through an act of the 1945 Oregon Legislature, which accepted the gift of the property of the North Pacific College of Oregon, located in Portland, and incorporated the college into the Oregon State System of Higher Education.

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

In 1908 the scope of the college was expanded to include a curriculum in pharmacy; this was discontinued in 1941. In 1910 the college erected the present home of the Dental School, at Northeast Sixth avenue 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 Dental School of the University of Oregon 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.M.D., Portland.....	1955
A. T. OBERG, D.D.S., Eugene.....	1956
J. WARNER HENDERSON, D.M.D., Hood River.....	1957
WILLIAM H. BURRELL, D.D.S., Stayton.....	1958
M. MONTE BETTMAN, D.M.D., Portland.....	1959

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

Facilities

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

Funds for the construction of a new \$2,200,000 Dental School building on the campus of the University of Oregon Medical School were appropriated by the 1953 Oregon Legislature and occupancy is expected by the summer of 1956.

Library

The Dental School Library contains 1,956 bound volumes and currently receives more than 180 periodicals. The books and periodicals are arranged on freely accessible open shelves.

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

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

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

Admission

In selecting dental student candidates, the Admissions Committee takes into account the following factors: (1) satisfactory completion of minimum pre dental course requirements; (2) college grades; (3) aptitude-test results from both the American Dental Association test and the Dental School aptitude test; (4) personal factors revealed in interviews and by letters of recommendation; (5) geographical consideration (the Dental School recognizes that its primary obligation is to provide an opportunity for dental education for residents of Oregon and, to a lesser extent, for residents of the Pacific Northwest—a limited number of applicants are accepted from other areas of the United States and from foreign countries; (6) the applicant's affiliations or close association with the dental profession; (7) the amount of college work completed (as a general rule, applicants who offer only the minimum pre dental college preparation should have somewhat better academic records than those who have completed three or more years of college work); (8) veteran status.

In general, the weight of these several factors follows the order in which they are listed above.

Applicants for admission are required: (1) to participate in a three-day orientation and aptitude-testing program administered by the Dental School in Portland—the program is given twice each year, during the Christmas vacation and at the close of the winter term; and (2) to take an aptitude test administered by the Council on Dental Education of the American Dental Association or a college-transfer test administered by the Educational Testing Service. The E.T.S.

test may be substituted for the A.D.A. test only with the approval of the Admissions Committee.

Because of the expense of the Dental School's orientation-aptitude program for students coming from a distance, the Admissions Committee will advise applicants whose acceptance is improbable on the basis of factors (1), (2), or (5), above, not to come to Portland for the program. For applicants living some distance from Portland, the interview—factor (4)—will be arranged at the time of the orientation-aptitude program.

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

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

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

Applicants are also encouraged to practice chalk-carving exercises in preparation for the A.D.A. carving-dexterity test and for the Dental School's test of technic ability. A suggested example may be seen in the A.D.A. *Dental Aptitude Manual for Dental School Applicants*, page 15. A copy of this manual is sent to all applicants who register for the A.D.A. test.

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

Students planning to take the American Dental Association test should fill out the application form provided by the Dental School and send it directly to the Council on Dental Education, 222 East Superior Street, Chicago 11, Illinois. General information concerning the dates and locations of testing centers will be provided by the Council on Dental Education office. (The A.D.A. test will be given at the Dental School of the University of Oregon on October 1, 1954; January 14, 1955; and April 29, 1955.) The charge for the A.D.A. test is \$15.00.

Educational Testing Service Test. Information concerning the college-

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

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

The orientation-testing program extends through a three-day period (December 28, 29, and 30, 1954; March 22, 23, and 24, 1955). The time involved permits the examiner to estimate the potential ability of the applicant as indicated by progressive improvement, as well as his native ability.

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

Participants are encouraged to present any questions or problems concerning admission qualifications and procedures, the Dental School curriculum, dentistry as a profession, and adjustment to professional study that they may wish considered.

A fee of \$6.00 is charged to cover the cost of the program.

Orientation Program for High-School Students. A testing and orientation program similar to that described above for applicants for admission is also available for high-school students who wish to learn more about the dental profession and about the abilities and skills required in the profession. The program is offered once each year, about the middle of June (June 14, 15, 1954) at the Dental School in Portland.

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

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

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

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

Application Procedure

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

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

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

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

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

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

(6) A tentative budget for the four years at the Dental School, showing: available assets; expected annual income; anticipated expenses for fees, equipment, and supplies and personal and living expenses. In preparing this budget, the applicant should take account of the statement of costs on pages 24 and 26 of this Catalog, and should be careful to list all actual assets. Reference is always made to this budget when student financial problems are considered.

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

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

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

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

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

Admission Requirements

For admission to the professional curriculum in dentistry, the Dental School of the University of Oregon 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 (6 semester hours).

(2) *General Chemistry and Quantitative Analysis, with laboratory*—15 term hours (10 semester hours).

(3) *Organic Chemistry, with laboratory*—8 term hours (5 semester hours).

(4) *Biology (preferably Zoology), with laboratory*—12 term hours (8 semester hours).

(5) *Physics, with laboratory*—9-15 term hours (6-10 semester 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 curricula offered at the University of Oregon and Oregon State College (see pp. 21-22 and the general catalogs of these institutions). Any variation from this pre dental science pattern must be approved in advance, in writing, by the official pre dental adviser of the institution where the student is taking his pre dental work and by the Registrar of the Dental School. As a general rule, all required pre dental science courses should be the equivalent of the corresponding standard pre medical courses.

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

The Admissions Committee expects that all applicants presenting 135 term hours or more of pre dental work will have so arranged their pre dental program that they will qualify for the B.A. or B.S. degree after the completion of two or more years at the Dental School. To make this possible, the student's pre dental work must be carefully planned to insure the satisfaction of all requirements for the baccalaureate degree before entering the Dental School—except certain upper-division major courses for which science courses in the dental curriculum may be offered as substitutes. Pre dental students are urged to keep in close touch with their faculty advisers to insure that these requirements are met. The Dental School recommends that the pre dental student acquire as broad and liberal an educational background as possible before entering upon the highly specialized professional curriculum in dentistry.

Transfer Students

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

Foreign Students

A foreign student submitting credentials in a language other than English should present, with the original credentials, a literal translation certified by a consul of the country where the student's preparatory work was taken, and a full explanation, by the consul, of the educational status of the institution from which the credentials are submitted. The original credentials, the translations, 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 sufficient knowledge of the English language to enable him to understand lectures and demonstrations and to read and understand texts prescribed by the Dental School. This proficiency may, at the discretion of the Admissions Committee, be tested by qualifying examinations in spoken and written English.

Foreign students who apply for admission to the Dental School with advanced standing may be required to take qualifying examinations in the basic sciences or in clinical dentistry or in both. Rarely is it possible for a foreign student to qualify for graduation from the Dental School in less than two years; three or more years may be required.

Special Students

A person who, for any reason, is allowed to follow a program of study which differs significantly from the regular curriculum of any class is classified as a

special student. Special students pay the same fees as regular undergraduate students.

Predental Curriculum

Typical examples of three- and two-year predental curricula, shown below, may serve as useful guides to students preparing for admission to the Dental School. The specific courses listed should not be interpreted as rigid requirements. Advice concerning the acceptability of courses at a particular institution, toward meeting the basic predental requirements, may be obtained on request to the Registrar of the Dental School; a copy of the catalog of the institution in question should accompany the request.

The two- and three-year predental programs offered by the University of Oregon and Oregon State College satisfy fully the admission requirements of the Dental School. See the general catalogs of these institutions.

THREE-YEAR CURRICULUM

First Year

	Term Hours		
	F	W	S
General Chemistry including Qualitative Analysis.....	5	5	5
Mathematics	4	4	4
English Composition	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	4	4	..
Quantitative Analysis .....	..	..	5
General Zoology	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	4-5	4-5	4-5
Advanced Biology	4	4	..
Electives—sculpture, jewelry, mechanical drawing recommended.....	8-9	8-9	8-9
	16-18	16-18	16-18

TWO-YEAR CURRICULUM

First Year

General Chemistry (including Qualitative Analysis).....	4	4	4
General Zoology	4	4	4
Mathematics	4	4	4
English Composition	3	3	3
Physical Education	1	1	1
Military Science	1	1	1
	18	18	18

Second Year

	Term Hours		
	F	W	S
Organic Chemistry	4	4	..
Quantitative Analysis .....	..	..	5
General Physics	4-5	4-5	4-5
Social Science	3	3	3
Literature	3	3	3
Physical Education	1	1	1
Military Science	1	1	1

16-17 16-17 17-18

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

Two days at the opening of the fall term are devoted to registration. At the opening of the 1954-55 session, first-year students report for registration at 8:00 a.m. on Thursday, September 30; second-year students report at 1:00 p.m.; and third- and fourth-year students report at 9:00 a.m. Friday, October 1. Since the registration schedule is very crowded, promptness in reporting is essential.

Voluntary Junior-Senior Patient Assignment

Junior and senior dental students are urged to take advantage of a voluntary before-term patient assignment service, in which students, between the close of the summer-term (September 17, 1954) and the opening of the fall term (September 30, 1954), may contact the patient appointment section to arrange for fall term clinical patient assignments.

With the early clinical patient assignments the clinical student may avoid possible time delay in obtaining a patient at the opening of the fall term.

Scholarship Regulations

The scholarship requirements of the Dental School of the University of Oregon conform to University standards, and to the requirements of the Council on Dental Education of the American Dental Association.

Grading System

Accomplishment by students in Dental School courses is graded in accordance with the following system: *A*, exceptional; *B*, superior; *C*, satisfactory; *D*, inferior; *I*, incomplete; *E*, conditional; *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 a re-examination, or by completion of special assignments covering his deficiencies, or by both. *D* is the highest grade that may be granted on re-evaluation.

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.

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

A student's general scholastic standing is estimated in terms of his "grade-point average" (GPA). Grade points are computed on the basis of 4 points for each term hour of *A* grades, 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.

National Board Examinations

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

demonstration of clinical proficiency is usually the only additional requirement for qualification for dental practice.

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

Fees and Expenses

Undergraduate students at the Dental School pay uniform regular fees each term during the four years of the professional curriculum. The Board of Higher Education reserves the right to change the schedule of fees without notice. Dental School fees for the academic year 1954-55 total \$145.00 per term for residents of Oregon and \$205.00 for nonresidents. Regular fees, special fees, deposits, and other instructional expenses are listed below:

Regular Fees

Tuition, per term.....	\$ 60.00
Laboratory and course fee, per term.....	75.50
Incidental fee, per term.....	4.50
Building fee, per term.....	5.00
Total, per term, residents of Oregon.....	\$145.00
Nonresident fee, per term (in addition to fees for resident students)....	60.00
Total, per term, nonresidents.....	\$205.00
Part-time fee (for students registered for 6 term hours or less), per term hour	\$10.00 (minimum, \$20.00)
Summer-term clinic fee:	
Ten weeks.....	\$ 32.50
Five weeks.....	16.25
Six weeks.....	20.00
Auditor's fee:	
Lecture courses, per term hour.....	\$ 4.00
Laboratory courses, per term hour.....	6.50

Special Fees and Deposits

Evaluation fee (not refundable).....	\$ 5.00
Dental-aptitude test fee.....	\$ 6.00
Late-registration fee (paid by students registering on third day following the registration dates of any term), per day—no maximum.....	1.00
Transcript fee (First one free, where multiple copies are simultaneously desired charge for additional copies 50c each. Subsequently, first copy at any one time is \$1, and additional copies furnished simultaneously, 50c each.....)	.50-1.00
Entrance deposit.....	25.00

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

Regulations Governing Nonresident Fee

The Oregon State Board of Higher Education has ruled that any person who comes into the state of Oregon for the purpose of attending one of the institutions under the control of the Board, and who for any reason is not qualified for classification as a resident of the state of Oregon, shall pay the nonresident fee, except: (a) a student who holds a degree from an accredited college or university and is registered in a curriculum other than professional dentistry, law, or medicine, (b) a student attending summer session, (c) a student paying part-time fees, (d) a student whose parent is a regular employee of the Federal government stationed in Oregon, or (e) a student whose father is domiciled in the state of Oregon as defined under (1) below.

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

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

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

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

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

Books, Equipment, and Supplies

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

	Books	Equip. and Supplies	Total
First year	\$120.00	\$640.00	\$760.00
Second year	130.00	400.00	530.00
Third year	85.00	190.00	275.00
Fourth year	40.00	150.00	190.00

Living Expenses

Single rooms may be obtained in Portland for about \$30.00 a month; two- and three-room apartments rent for about \$65.00 a month; the rate for room and board averages \$75.00 a month. The Dental School has no dormitory facilities. Several Dental School fraternities provide living accommodations for their members. Because of the present housing shortage, students accepted for admission to the Dental School are advised to arrange for housing before the opening of the school year.

Scholarships, Awards, and Loan Funds

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

State Scholarships for Foreign Students. A limited number of state fee scholarships are awarded annually to students from foreign countries attending the institutions of the Oregon State System of Higher Education. These scholarships cover tuition, the nonresident fee, and the laboratory and course fee. Application should be made through the office of the dean of the Dental School not later than March 15.

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

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

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

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

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

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.

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. A mandatory annual chest X-ray is provided each student. 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 Dental School of the University of Oregon, assisted by a faculty Committee on Student Affairs, supervises and directs all student activities, including assemblies, social events, and athletics. All Dental School students are members. The governing body of the Associated Students is the Student Council. The council includes representatives from each class. Officers of the Student Council for 1953-54 were Gene Bunch, president; Leonard Holmes, vice-president; David Mooers, secretary; Orville Boyle, treasurer; William Chetwood, athletic manager; Bud Peterson, editor.

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

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

Delta Phi Omega. Delta Phi Omega is an honorary group organized to encourage study of the basic science of dentistry; outstanding practitioners in the dental profession speak and demonstrate techniques at meetings of the group. Members 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; but consideration is also given to character, personality, and adherence to professional ethics.

Fraternities. The following dental fraternities maintain chapters at the Dental School: Delta Sigma Delta, Psi Omega, and Xi Psi Phi.

Fraternity activities, rushing, and bidding are coordinated and regulated through the Interfraternity Council, composed of two representatives from each fraternity, and a member of the faculty, who serves in an advisory capacity. Inter-

fraternity 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 1953-54 were: Delta Sigma Delta, William R. Laney, William H. Paul; Xi Psi Phi, William W. Quigley, John F. Daly, Jr.; Psi Omega, William E. Chetwood, Eugene L. Bunch.

Alumni Association

The Dental School of the University of Oregon 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 biennially at the Dental School for a three-day program of scientific papers and clinics. *Caementum*, the official alumni periodical, serves to inform the members of the activities of the association and to create a stronger bond of common interest among the alumni. The officers of the Alumni Association for 1953-54 are:

ARNOL NEELY, D.M.D.....	President
JOSEPH F. HAMIL, D.M.D.....	First Vice-President
WILLIAM J. NEWBY, D.M.D.....	Second Vice-President
WILLIAM C. KYNOCK, D.M.D.....	Third Vice-President
GRANVILLE MAUDSLEY, D.M.D.....	Secretary-Treasurer
JAMES GARSON, D.M.D.....	Caementum Editor
LOUIS TERKLA, D.M.D.....	Assistant Caementum Editor

Graduate Degrees

Graduate education in the Dental School leading to the M.S. degree is offered in the Department of Bacteriology. This represents the beginning toward specialized study for those interested in research and teaching in basic science and allied clinical dental fields. For further detail individuals should apply to the Director of Admissions.

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. 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 lab-

oratory 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 co-operation with the Oregon State Board of Health.

The fees for postgraduate courses are as follows:

Nonclinical courses:	
6-hour courses	\$ 15.00
12-hour courses	25.00
35-hour courses	50.00
70-hour courses	100.00
Clinical courses:	
35-hour courses in which enrollment is limited to eight.....	75.00
35-hour courses in which enrollment is limited to six.....	100.00
70-hour courses	150.00

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

Child Study Clinic

The Child Study Clinic has been established for the study of the oral health problems of children in relation to the growth, development, and physical health of the whole child. Children registered in the clinic are received for periodic observation, and for the systematic recording of individual physical growth, regional and systemic disturbance, oral health, and dento-facial development. The child's record is documented by physical measurements, roentgenographic records, photographs, oral casts, and detailed information on general and oral health; roentgenographic records of the head are made with the Broadbent Bolton cephalometer.

Through work in the Child Study Clinic, undergraduate and postgraduate students acquire an understanding of the changes that take place in the dentition and face of the growing child, and of the reciprocal relation between systemic disturbances and oral disease.

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

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

The Child Study Clinic is directed by an advisory council, a complete listing of which is given on page 11.

Oral Tumor Registry

The Registry has been established for the purpose of compiling and studying the tumors and related lesions of the oral cavity. Support of the Registry is

derived from the American Cancer Society and the National Cancer Institute of the United States Public Health Service. Administration is under the Department of Oral Pathology and is closely coordinated with the teaching activities of that department.

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

Research

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

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

Department of Illustration

Through the Department of Illustration, in cooperation with the several instructional departments, the Dental School is developing materials and methods for audio-visual instruction, in application to the field of professional dental education. The department produces lantern slides, film strips, motion pictures, photographs, sound recordings, and other audio-visual instructional aids, and collects similar materials produced by other agencies.

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

Curriculum in Dentistry

Leading to the D.M.D. Degree

The purpose of the undergraduate curriculum is the training of able general practitioners of dentistry. The organization and content of each course, the methods of instruction, and the sequence of courses are all directed to provide a unified and integrated educational experience leading to professional objectives.

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

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

in the basic sciences, on the other hand, is placed throughout the four-year curriculum in close time relationship to clinical applications.

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

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

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

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

TABLE OF COURSES, TIME, AND CREDIT
First Year

	Clock hours					Term hours
	Lect.	Conf.	Lab.	Clinic	Total	
DO 311.....Dental Orientation.....	11	....	....	4	15	1
DO 312.....Technical Composition.....	11	....	....	....	11	2
DO 313.....Dental Orientation.....	....	....	....	4	4	....
PR 412, 413, 414.....Prosthetic Technic & Clinic.....	22	....	135	66	220	8
PR 418.....Prosthetic Technic.....	11	....	66	....	77	3
DM 411.....Materials.....	11	....	....	....	11	1
DM 412.....Materials.....	11	....	22	....	33	2
Op 419.....Operative Technic.....	22	....	66	....	88	4
An 415.....Human Genetics.....	11	....	....	....	11	1
An 419.....Gen. Gross Anatomy & Embryology.....	33	....	99	....	132	6
An 412, 413.....Oral Histology.....	22	....	44	....	66	4
An 411.....General Histology.....	22	....	66	....	88	4
Op 411, 412, 413.....Dental Anatomy.....	22	....	99	....	121	5
Per 414.....Oral Hygiene.....	11	....	....	....	11	1
Per 415, 416.....Oral Prophylaxis.....	....	....	....	22	22	1
Bch 411, 412.....Biochemistry.....	44	....	88	....	132	6
Phy 418.....Physiology.....	11	....	22	....	33	2
Phy 419.....Physiology.....	22	....	33	....	55	3
	297	0	737	96	1,130	54

Second Year

DO 401.....Civil Defense.....	....	11	....	....	11	....
DO 322.....Journal Club.....	....	11	....	....	11	....
Phy 428.....Growth & Development.....	11	....	....	....	11	1
Ord 428.....Orthodontia Technic.....	....	....	33	....	33	1
CB 420, 421, 422.....Crown & Bridge Technic.....	....	....	198	....	198	6
Pr 424, 425, 426.....Prosthetic Clinic.....	....	....	....	110	110	3
Pr 428.....Princ. of Clinical Pros.....	11	....	....	....	11	1
Op 420.....Operative Technic.....	11	....	66	....	77	3
Op 423.....Operative Clinic.....	....	11	44	....	55	3
Op 428.....Operative Clinic.....	....	....	....	33	33	1
An 421.....Head & Neck Anatomy.....	22	....	66	....	88	4
An 422.....Neuroanatomy & Physiology.....	11	....	....	....	11	1
Pth 420, 421, 422, 423.....General Pathology.....	44	11	110	....	165	8

	Lect.	Clock hours				Term hours
		Conf.	Lab.	Clinic	Total	
Ro 420, 421, 422.....Dental Roentgenology.....	22	....	11	....	33	3
OS 421.....Local Anaes. & Exod.....	11	....	....	11	22	1
OS 422.....Local Anaes. & Exod.....	....	....	....	22	22	....
OPth 423.....Oral Pathology.....	11	....	22	....	33	2
Per 420.....Oral Prophylaxis.....	....	....	....	11	11	1
Phy 420.....Physiology.....	22	....	66	....	88	5
Phy 429.....Physiology of Occlusion.....	11	....	....	....	11	1
Ped 422.....Pedodontia.....	22	....	....	....	22	2
Ped 429.....Pedodontia Technic.....	....	....	44	....	44	2
OD 429.....Oral Diagnosis & Treatment.....	11	....	....	....	11	1
	220	44	660	187	1,111	50

Third Year

DO 332.....Journal Club.....	....	11	....	....	11	....
Ord 433, 434.....Orthodontia.....	22	....	....	....	22	2
Ord 438.....Orthodontia (Dem-conf.).....	....	11	....	....	11	1
Ord 439.....Orthodontia Conf.....	....	11	....	....	11	1
Pr 430.....Princ. of Clinical Pros.....	11	....	....	....	11	1
CB 431.....Princ. of Cr. & Br.....	11	....	....	....	11	1
DM 432.....Materials.....	....	11	....	....	11	1
CB 436.....Ceramics.....	11	....	33	....	44	2
Op 437.....Root Canal Therapy.....	11	....	22	....	33	2
Op 430.....Princ. of Clinical Operative Dentistry.....	11	....	....	....	11	1
Ped 431.....Pedodontia.....	11	....	....	....	11	1
OS 438.....Anaesthesia.....	11	11	....	....	22	1
Bac 430.....Bacteriology.....	33	....	66	....	99	6
Ped 432.....Caries Prevention.....	11	....	....	....	11	1
401.....Special Studies (applied experimental science).....	....	....	22	....	22	1
OD 430.....Oral Diagnosis & Treat.....	11	....	....	....	11	1
OD 431.....Clinical Diagnostic meth.....	....	....	22	....	22	1
Od 432.....Diagnostic Clinic.....	22	....	....	....	22	2
Nu 435.....Nutrition.....	11	....	....	....	11	1
Med 439.....Princ. of Medicine.....	11	....	....	....	11	1
OS 430, 431, 432.....Oral Surgery.....	33	....	....	22	55	4
Per 439.....Periodontia.....	11	....	....	15	26	1
Oph 434.....Oral Pathology.....	11	....	22	....	33	2
Phc 438, 439.....Pharmacology.....	33	....	22	....	55	4
Pr 633, 634, 635.....Prosthetic Cl. Practice.....	}	....	....	403	403	10
Op 633, 634, 635.....Operative Cl. Practice.....						
CP 633, 634, 635.....General Cl. Practice.....						
CB 630, 631, 632.....Crown & Bridge Cl. Pract.....						
Ped 630, 631, 632.....Pedodontia Cl. Practice.....	....	....	....	....	....	....
Nu 630, 631, 632.....Nutrition Clinic.....	....	....	....	....	....	....
OD 438, 439.....Clinical Conference.....	....	22	....	....	22	2
	286	77	209	440	1,012	51

Fourth Year

DO 441.....Dental Econ. & History.....	11	....	....	....	11	1
DO 445.....Dental Ethics & Juris.....	11	....	....	....	11	1
DO 442.....Practice Management.....	11	....	....	....	11	....
DO 407.....Seminar.....	....	11	....	....	11	....
PH 440, 441.....Public Health.....	22	....	....	....	22	2
Pr 440.....Princ. of Cl. Prosthesis.....	11	....	....	....	11	1
CB 441.....Princ. of Cr. & Br.....	11	....	....	....	11	1
Op 440.....Princ. of Cl. Op. Dentistry.....	11	....	....	....	11	1
Ped 440.....Ped-Ortho. Conf.....	....	11	....	....	11	1
OS 644.....Anaesthesia Clinic.....	....	....	....	11	11	1
Med 443, 444, 445.....Hospital Clinics.....	....	....	....	18	18	3
OPth 441.....Pathology Conference.....	....	11	....	....	11	1
401.....Special Studies (applied experimental science).....	....	....	22	....	22	1
Med 440, 442.....Principles of Medicine.....	22	....	....	....	22	2
OS 440.....Clinical Surgery.....	11	....	....	....	11	1

	Clock hours					Term hours
	Lect.	Conf.	Lab.	Clinic	Total	
Per 440.....Periodontia.....	11	....	....	....	11	1
Per 640.....Periodontia Clinic.....	....	....	....	30	30	1
An 445.....Applied Anatomy.....	....	11	....	....	11	1
OPth 445.....Oral Pathology.....	11	....	22	....	33	2
Phc 440.....Pharmacology.....	11	....	22	....	33	2
Phc 445.....Dental Materia Medica.....	11	....	....	....	11	1
Phc 446.....Applied Therapeutics.....	11	....	....	....	11	1
OD 440, 441.....Clinical Conference.....	....	22	....	....	22	2
Pr 643, 644, 645.....Prosthetic Cl. Pract.....	}	....	....	707	707	20
Op 643, 644, 645.....Operative Cl. Pract.....						
Cp 643, 644, 645.....General Cl. Pract.....						
CB 640, 641, 642.....Crown & Bridge Cl. Pract.....						
Ped 640, 641, 642.....Pedodontia Cl. Pract.....						
Nu 640, 641, 642.....Nutrition Clinic.....						
Ro 640, 641, 642.....Roentgenology Cl.....	....	....	....	....	....	....
	176	66	66	766	1,074	48

RECAPITULATION

	Lect.	Conf.	Lab.	Clinic.	Total	Term hours
First year.....	297	....	737	96	1,130	54
Second year.....	220	44	660	187	1,111	50
Third year.....	286	77	209	440	1,012	51
Fourth year.....	176	66	66	766	1,074	48
	979	187	1,672	1,489	4,327	203

Description of Courses

Dental Orientation

DO 311. Dental Orientation. 1 hour fall.

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

DO 312. Technical Composition. 2 hours winter.

First year. Methods by which dental information is obtained from published sources; evaluation of material; methods of effective expression, with particular reference to the writing of technical notes, laboratory exercises, examinations, and original compositions. Lectures, 11 hours; lectures supplemented by Journal Club, second and third years, 22 hours. Mr. Batterson, staff.

DO 313. Dental Orientation. No credit, winter.

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

DO 322. Journal Club. No credit.

Second year. Presentation of papers on scientific, technical, and clinical topics

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

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

Third year. Continuation of DO 322, with greater emphasis on clinical topics. Conference, 11 hours. Mr. Batterson, staff.

DO 401. Special Studies. Hours to be arranged.

DO 401. Special Studies: Civil Defense. Hours to be arranged, winter.

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

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. Guest speakers, Mr. Batterson.

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

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

DO 442. Practice Management. Spring, no credit.

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

DO 445. Dental Ethics and Jurisprudence. 1 hour winter.

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

Anatomy

Department Head: DR. JUMP.† Acting Department Head: MYRON TEDFORD.

Professors: ELLIS B. JUMP, MAJOR DOUGLAS WENDT. Associate Professor: JEFF MINCKLER. Assistant Professors: MYRON TEDFORD, LAUREL R. SETTY. Instructor: MARGIT HOLSTI.

An 401. Special Studies. Hours to be arranged.

An 415. Special Studies: Human Genetics. 1 hour spring.

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

* Not offered 1954-55.

† Leave of absence 1954-55.

An 411. General Histology. 4 hours winter.

First year. The structural elements of tissues and organs considered systematically, with special attention to criteria of normality, in preparation for later courses in pathology. Lectures, 22 hours; laboratory, 66 hours. Mr. Tedford. Dr. Setty.

An 412, 413. Oral Histology. 2 hours each term.

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

An 419. General Gross Anatomy and Embryology. 6 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. Dr. Holsti, Mr. Tedford.

An 421. 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. Dr. Setty, Major Wendt, Mr. Tedford.

An 422. Neuroanatomy and Physiology. 1 hour winter.

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

An 445. Applied Anatomy. 1 hour spring.

Fourth year. A topographical review of the applied anatomy of the oral region. Clinical application of anatomical relationships. Student panel presentations are followed by group discussion of the significant anatomical considerations and problems in dental practice and diagnosis. Conference, 11 hours. Not offered 1954-55. Science and clinical staffs.

Bacteriology

Department Head: DR. SNYDER.

Professor: MARSHALL L. SNYDER. Instructor: MARIE SLAWSON.

Assistants: MARJORIE GARDNER, WILBUR G. DEACON.

Bac 401. Special Studies. Hours to be arranged.**Bac 430. Bacteriology. (G)** 6 hours fall.

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

Graduate Courses

Bac 501. Research. Hours to be arranged.**Bac 503. Thesis.** Hours to be arranged.

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

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

Application of methods of bacteriology and immunology for the identification of microbiological agents of disease. Special emphasis on the higher bacteria and spirochetes of the oral flora, with some consideration of their metabolism and nutritional requirements. Lecture, 22 hours; laboratory, 66 hours. Dr. Snyder, assistants.

Biochemistry

Acting Department Head: DR. CLAYCOMB.

Assistant Professor: CECIL K. CLAYCOMB. Assistant: MARCIA N. MCCHESENEY.

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

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

First year. Review of physical and organic chemistry. Enzymes, digestion, absorption of foods, detoxification and putrefaction; components and functions of blood, mechanism of coagulation, oxygen and carbon-dioxide transport, acid-base balance, water balance; vitamins, hormones 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. Claycomb, Mrs. McChesney.

Graduate Courses

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

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

Crown and Bridge

Department Head: DR. WILSON.

Associate Professors: WYMAN H. WILSON, VINSON WEBER.* Associates: JOHN C. BARTELS, DALE KING. Assistant Professor: ROBERT LANG. Instructors: DORIS L. DENNIS, PAUL KUNKEL, JAMES TREZONA.

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

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

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

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

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

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

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

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

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

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

Third year. Clinical practice of crown and bridge prosthesis, supplemented by lectures and demonstrations of difficult technics. Drs. Wilson, Lang, King, Kunkel, Trezona.

* On leave for military service.

CB 640, 641, 642. **Crown and Bridge Clinical Practice.** Hours to be arranged. Fourth year. Continuation of CB 630, 631, 632, with emphasis on full-mouth rehabilitation. Drs. Wilson, Lang, King, Kunkel, Trezona.

Dental Materials

Assistant Professor: BARNEY C. BYBEE. Instructor: JAMES F. RUSSELL.
Visiting Lecturer: GILBERT J. HUNT.

DM 411. **Dental Materials.** 1 hour. Fall term. First year.

An introduction to the basic physical properties of materials used in dentistry, the measurement of these properties and an introduction to the science of metallography. Lecture: 11 hours. Drs. Hunt, Bybee.

DM 412. **Dental Materials.** 2 hours. Winter term. First year.

Introduction to the physical properties, composition, manipulation and application of the commonly used dental materials. Performance of projects involving practical use of materials. Lecture: 11 hours; laboratory, 22 hours. Drs. Bybee, Russell.

DM 432. **Dental Materials.** 1 hour conference. Junior year.

Review of Dental Materials, consideration of special problems emphasizing practical applications to problems arising in the use of dental materials at the Dental School. Conference, 11 hours. Dr. Bybee.

General Clinic Practice

Professor: HORACE M. MILLER. Associate Professors: ERWIN T. BENDER, KENNETH R. CANTWELL, FRANK G. EVERETT, RULON H. JOHNSON, JOSEPH N. MORRIS.
Associates: JOHN C. BARTELS, RAY J. DAVIS, RICHARD W. EVANS, THOMAS D. HOLDER, ROBERT NELSON, GORDON R. POTTER. Assistant Professors:
DEMETRIOS M. HADJIMARKOS, FRANCIS V. HOWELL, JAN J. MULLER,
DONALD R. PORTER. Instructors: CHARLES F. BLINKA, JR., DON
H. CARLSON, PAUL JOHNSON, JAMES F. RUSSELL, LOUIS G.
TERKLA, RAYMOND A. WENSINK.

CP 633, 634, 635. **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 643, 644, 645. **General Clinical Practice.** Hours to be arranged.

Fourth year. For description, see CP 633, 634, 635. General Clinic staff.

General Pathology

Acting Department Head: DR. MINCKLER.

Associate Professor: JEFF MINCKLER. Associates: A. PETER CRANE, ALFONSO ESCOBAR,
GEORGE D. MCGEARY. Instructor: MARJORIE J. LARSON.

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

Pth 420, 421, 422. **General Pathology.** 4, 3, 1, hours.

Second year. Introduction to general pathological principles based on the reaction of tissues to injury. Examination of gross and microscopic changes in tissues. Students attend autopsies and prepare protocols for presentation to the class; during the last term autopsy conferences are held each week, at which students in groups report the cases observed. Systematic pathology reviewed through a weekly lecture and 3-hour laboratory period. Throughout

the course, the student practices descriptive technic, observes the preparation of slides on his own cases, and takes part in preparing a photographic display of pertinent material from his cases. Lectures, 44 hours; conference, 11 hours; laboratory, 110 hours. Drs. Minckler, McGeary, Crane, Escobar, Miss Larson.

Pth 423. **Autopsy Conference.** No credit.

Military Science and Tactics

Professor: MAJOR DOUGLAS C. WENDT.

Administrative Assistant: MASTER SERGEANT PAUL F. MARTIN.

*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 and Air Force Medical Services in the treatment and evacuation of patients. Students enrolled in the advanced course receive a monthly monetary return for subsistence. Lectures, 1 hour a week. Major Wendt, Sergeant Martin.

Nutrition

Instructors: DORIS A. GOOD, LORNA V. KLIER. Lecturer: CHEDWAH STEIN.

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

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

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

Nu 630, 631, 632, Nu 640, 641, 642. **Nutrition Clinic.** Hours to be arranged. Third and fourth years.

Clinical application of the principles of nutrition to dentistry for those in the teen-ager group of adults. The cooperation of departments of Orthodontia, Periodontia, and Oral Surgery are enlisted to resolve nutritional problems in diagnosis and treatment. Mrs. Klier, Mrs. Good.

Operative Dentistry

Department Head: DR. CANTWELL.

Associate Professor: KENNETH R. CANTWELL. Associates: JOHN C. BARTELS, JAMES J. BELL, RAY J. DAVIS, RICHARD W. EVANS, THOMAS D. HOLDER, ROBERT NELSON, FRANK C. PEARN, BURNES E. PETERSON, JOHN RYAN. Assistant Professors: WILLIAM S. CLIFFORD, ERNEST A. HURLEY, MILTON JOHNSON, ROBERT F. WATKINS. Instructors: CHARLES F. BLINKA, ROBERT L. FOSTER, JOHN O. GLESMANN,† PAUL H. JOHNSON, JAMES F. RUSSELL, A. LYNN RYAN, HENRY SHERWOOD, LOUIS G. TERKLA.

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

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

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

* The present military science and tactics program at the Dental School will be dropped at the end of spring term 1954.

† On leave for military service.

Op 419. Operative Technic. 4 hours spring.

First year. Introduction to operative dentistry; classification and nomenclature of cavity preparation; principles of cavity preparation and design in relation to the histological structure of the teeth, self-cleansing areas, and occlusal forces; composition, properties, uses, and manipulation of filling materials, including silver amalgam, cohesive gold foil, inlay gold, silicate and oxyphosphate of zinc cements, and self-curing plastics; investing and casting technics. After familiarization with the cutting instruments, the student prepares each cavity first in a plaster tooth and then in an extracted natural tooth. All preparations in the natural teeth are filled with the appropriate materials and finished in limited time periods. Lectures, 22 hours; laboratory, 66 hours. Drs. Terkla, Ryan, Russell, Blinka.

Op 420. Operative Technic. 3 hours fall.

Second year. A continuation of restorative principles and procedures begun in the freshman year. Cavity preparations are more detailed and are performed entirely in extracted natural teeth mounted in the jaws of a manikin; the use of the mouth mirror is stressed; all types of filling materials are used in the restoration of natural teeth; all preparations, insertions, and finishes are performed in limited time periods. Lectures, 11 hours; laboratory, 66 hours. Drs. Terkla, Ryan, Russell, Blinka.

Op 423. Operative Technic and Clinic. 3 hours winter.

Second year. Introduction to the use of the rubber dam in operative dentistry, including a movie and demonstrations on rubber dam application; the order of permanence and comparison of the qualities of all filling materials; factors governing the choice of restorative materials; clinic orientation; chair positions; patient handling; pain control. In the laboratory, the student continues to prepare and fill cavities on extracted natural teeth mounted in the jaws of a manikin. All work is performed under the rubber dam in limited time periods. Lectures, 11 hours; laboratory, 44 hours. Drs. Terkla, Ryan, Russell, Blinka.

Op 428. Operative Clinic. 1 hour spring.

Second year. Introduction to clinical routine. The student applies the rubber dam on a fellow student until adequate experience is obtained in all arch segments. During the last part of the term, clinical routine, patient handling, and pain control are reviewed; the student may perform simple operations on clinical patients or observe the clinical procedures carried out by upperclassmen. Clinic, 33 hours. Drs. Terkla, Ryan, Russell, Blinka.

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

Third year. A brief review of the principles of all clinical operative procedures; detailed analyses and corrections of difficulties encountered during clinical operative dentistry in the junior year. Lectures and conferences, 11 hours. Dr. Cantwell.

Op 437. Root Canal Therapy. 2 hours winter.

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

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

Fourth year. Introduction of advanced operative procedures; analysis and correction of difficulties encountered in the senior operative sections; review and detailed discussion of all cavity preparations with special emphasis on instrumentation. Lectures and conferences, 11 hours. Dr. Cantwell.

OP 633, 634, 635. Operative Clinical Practice. Hours to be arranged.

Third year. Clinical application of principles learned in Op 419, Op 420, Op 430. Drs. Bender, Blinka, Cantwell, Clifford, Foster, Peterson, Russell, Terkla.

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

Fourth year. Continuation of Op 633, 634, 635, supplemented by demonstrations and lectures on difficult technics. Drs. Bender, Cantwell, Clifford, Davis, Johnson, Nelson, John Ryan, Sherwood, Watkins.

Oral Diagnosis

Professor: MARSHALL L. SNYDER. Associate Professors: ERWIN T. BENDER, KENNETH R. CANTWELL, FRANK G. EVERETT, JEFF MINCKLER, NILKANTH M. PHATAK, VINSON M. WEBER,* WYMAN H. WILSON. Associate: JAMES V. WOODWORTH. Assistant Professors: BARNEY BYBEE, WILLIAM S. CLIFFORD, FRANCIS V. HOWELL, ROLON H. JOHNSON, ROBERT L. LANG. Instructors: CHARLES F. BLINKA, JR., DORIS A. GOOD, LORNA V. KLIER, JAMES F. RUSSELL, LOUIS G. TERKLA.

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

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

Second year. Case histories, detailed clinical examination, use of laboratory diagnostic aids. Lectures, 11 hours. Dr. Bender.

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

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

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

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

OD 432. **Diagnostic Clinic.** 2 hours spring.

Third year. Students present complete case-history factors for selected patient diagnosis and treatment problems. On the basis of a consideration of this presentation, the class constructs a diagnosis and treatment plan that will assure the patient effective and complete dental health service. The student presenting the clinical case must justify the reason for arriving at a given treatment plan. The student provides plaster models, radiograms, and other aids to diagnosis and treatment planning. Clinical conferences and demonstrations, 22 hours. Drs. Bender, Bybee, Clifford, Everett, Howell, Johnson, Lang, Wilson, Mrs. Klier, Mrs. Good.

OD 438, 439. **Clinical Conference.** 1 hour each term.

Third year. Student and faculty clinical conferences concerning patient cases chosen for their teaching value. Conference, 22 hours. Drs. Bender, Cantwell, Clifford, Everett, Fixott, Howell, Lang, Minckler, Wilson, Mrs. Klier, Mrs. Good.

OD 440, 441. **Clinical Conference.** 1 hour each term.

Fourth year. Continuation of conference experiences in OD 438, 439. Conference, 22 hours. Dr. Bender, clinical and science staffs, visiting lecturers.

Oral Pathology

Department Head: DR. HOWELL.

Associate Professor: FRANK G. EVERETT. Assistant Professors: FRANCIS V. HOWELL, MILTON JOHNSON. Instructors: WILLIAM WESCOTT, CLARE HOLLY.

Clinical Assistant: JOHN F. GEARIN.

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

OPth 423. **Oral Pathology.** 2 hours spring.

Second year. Study of anomalies in the shape and number of teeth, discolorations and stains of the teeth, enamel hypoplasia, regressive changes in dentin and pulp. The pathology of dental caries and pulp disease. Laboratory work

* On leave for military service.

consists of observation and description of gross and microscopic evidence of these processes. Lectures, 11 hours; laboratory, 22 hours. Drs. Howell, Johnson, Gearin, Wescott.

OPth 434. Oral Pathology. 2 hours fall.

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

OPth 441. Oral Pathology Conference. 1 hour spring.

Fourth year. Consideration of differential diagnosis of oral lesions. The significance of biopsy and other diagnostic methods. Presentation of cases and procedures in diagnosing. Considerations of pathological principles in therapeutics; an integration of pathological principles in relation to the mouth. The role of the dentist in the cancer detection and education program. The course requirements include a case history, pathological description and discussion of a pathological entity. The student is given all year to complete the requirement. Conference, 11 hours. Dr. Howell, Oral Pathology and Clinical staffs.

OPth 445. Oral Pathology. 2 hours winter.

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

Oral Roentgenology

Department Head: DR. FIXOTT, JR.

Associates: HENRY C. FIXOTT, JR., ARNOL R. NEELY. Instructors: WYNNE SAUNDERS, MAUREEN WATSON. Technicians: ROSETTA M. GLESMANN.

Ro 401. Special Studies. Hours to be arranged.

Ro 420, 421. Dental Roentgenology. 1 hour each term, fall and winter.

Second year. Physical principles involved in the production of Roentgen rays. Technic of making radiographs of the teeth and oral cavity. Processing, interpretation, and care of films. Diagnostic and therapeutic applications of radiology in dentistry. 22 hours. Dr. Fixott, Mrs. Saunders, Miss Watson.

Ro 422. Dental Roentgenology. 1 hour spring.

Second year. Clinical application of radiodontia. Clinic, 11 hours. Drs. Fixott, Neely, Mrs. Saunders, Miss Watson.

Ro 640, 641, 642. Roentgenology Clinic. Hours to be arranged.

Fourth year. Roentgenology clinic staff.

Oral Surgery

Professor: HORACE M. MILLER. Associate: SAMUEL A. BRANDON. Instructors: HERBERT C.

BERQUIST,* LORETTA F. CASE, BERNADETTE SCULLY, CECIL VAN KLEEK.

Fellow: RICHARD J. ALLARD. Nurses Aid: DOROTHEA ZELLER.

OS 401. Special Studies. Hours to be arranged.

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

Second year. Obtaining and evaluating the case history of the patient; consultation with the physician; obtaining necessary laboratory tests; analysis of the patient's individual problem; determination of the anaesthetic risk and

* On leave for military service.

selection of local and general anaesthetic for the case; use of premedication; choice and use of instruments; sterile technic in local anaesthesia and exodontic operations; technic of tooth removal; postoperative treatment. Lectures, demonstrations, and clinical practice, 22 hours. Drs. Miller, Allard, Van Kleek, Miss Scully.

OS 422. **Local Anaesthesia and Exodontia: Clinical Observation.** Hours to be arranged.

Second year. 22 hours.

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, Miss Scully.

OS 438. **General Anaesthesia.** 1 hour winter.

Third year. History of anaesthesia. Agents employed, including nitrous oxide and oxygen, ethyl chloride, and their physiological action; stages of anaesthesia. Principles governing the selection of anaesthetics for children and adults. Methods of administration. Indications and contraindications; care of patients, before and after anaesthesia. Practice in administration of general anaesthesia. Lectures and demonstrations, 22 hours. Mrs. Case.

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

Fourth year. A lecture course dealing with procedures in maxillofacial surgery. Lectures, 11 hours. Not offered 1954-55.

OS 644. **Anaesthesia Clinic.** 1 hour fall.

Fourth year. Advanced lecture-demonstrations in general anaesthesia, including anaesthol, sodium pentothal, vinethene triline, and curare. Simultaneous student application of these procedures in the oral surgery clinic, through clinical observation of general anaesthesia applied to exodontia. The student is a member of the surgical team which administers general anaesthetics and operates under them. Lectures and demonstrations, 11 hours, accompanied by clinical application. Mrs. Case, Drs. Miller, Allard, Van Kleek.

Orthodontia

Acting Department Head: DR. NOYES.

Professor: HAROLD J. NOYES. Associate: ROLAND ANDERSON. Assistant Professors: PAUL E. KLEIN, MATTHEW A. MATTHEWS, GUY A. WOODS, JR.*

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

Ord 428. **Orthodontia.** 1 hour.

Second year. Prognosis. Laboratory training in technics includes impression taking, model forming, freehand soldering, wire bending, band forming, and construction of simple appliances. Laboratory, 33 hours. Drs. Noyes, Anderson, Matthews.

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

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

Ord 438. **Orthodontia.** 1 hour winter.

Third year. A demonstration course, conducted with groups of between ten and twenty students. Principles developed in Phy 428, Phy 429, Ord 428, and Ord 433, 434 are illustrated; demonstrations of receiving a history, diagnostic

* On leave for military service.

methods, case analyses; treatment and retention planning and prognoses. Demonstrations, 11 hours. Drs. Noyes, Matthews, Klein.

Ord 439. Orthodontia Conference. 1 hour spring.

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

Pedodontia

Department Head: DR. SUHER. Acting Department Head: DR. PORTER.

Professor: HAROLD J. NOYES. Associate Professor: THEODORE SUHER.* Assistant Professors:

DONALD R. PORTER, DEMETRIOS M. HADJIMARKOS, BHIM SEN SAVARA. Associates:

KENNETH R. JENSEN, ROY W. LUSCH. Instructors: DON H. CARLSON,

DORIS A. GOOD, LORNA J. KLIER.

Ped 401. Special Studies. Hours to be arranged.

Ped 422. Pedodontia. 2 hours spring.

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

Ped 429. Pedodontia. 2 hours spring.

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

Ped 431. Pedodontia. 1 hour winter.

Third year. Principles of clinical dentistry for children. Special emphasis on diagnosis, treatment planning, prosthetic appliances, and the interception of malocclusion. Lectures, 11 hours. Drs. Porter, Carlson.

Ped 432. Caries Prevention. 1 hour winter.

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

Ped 440. Pedodontia-Orthodontia Conference. 1 hour fall.

Fourth year. Continuation of Ord 439. 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. Conference groups are limited to between 10 and 20 students. Conference, 11 hours. Pedodontia Orthodontia staff.

Ped 630, 631, 632. Pedodontia Clinical Practice. Hours to be arranged.

Third year.

Ped 640, 641, 642. Pedodontia Clinical Practice. Hours to be arranged.

Fourth year.

Periodontia

Department Head: DR. EVERETT.

Associate Professor: FRANK G. EVERETT. Associates: THOMAS D. HOLDER, GORDON

POTTER. Assistant Professor: MILTON H. JOHNSON.

Per 401. Special Studies. Hours to be arranged.

Per 414. Oral Hygiene. 1 hour winter.

First year. Principles and methods of mouth hygiene and prophylaxis. Foreign deposits on the teeth, calculus, plaques and stains, and their removal. Tooth-

* On leave for military service.

brushes and toothbrushing methods, dentifrices, mouthwashes. Orientation of the student to clinical applications of oral hygiene. Lectures and demonstrations, 11 hours. Drs. Everett, Holder, Johnson, Potter.

Per 415, 416. **Oral Prophylaxis.** 1 hour, winter, spring.

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

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

Second year. Advanced Oral Prophylaxis clinic. Clinic, 11 hours. Drs. Everett, Holder, Johnson, Potter.

Per 439, 440. **Periodontia.** 1 hour each term, spring and fall.

Third and fourth years. Review of the histology of the periodontal tissues. The taking of a correct case history. Etiology, prevention, diagnosis, and treatment of periodontal diseases. In the diagnostic phase, the value of clinical observation, interpretation of roentgenograms, study models, smears, biopsies, and nutritional studies are shown in appropriate cases. In the treatment phase instrumentation is stressed, as are demonstrations of methods of improving occlusion, and of gingival surgery and splinting. Contouring of individual dental restorations in the prevention and treatment of periodontal disease, with consideration of gingival margins, contouring, contacts, and occlusion. The place of fixed and removable partial appliances in periodontal therapeutics. Methods of home care. Clinical application of the principles of periodontology in the prevention and treatment of periodontal disease. Lectures, 22 hours; clinic, 15 hours. Drs. Everett, Holder, Johnson, Potter.

Per 640. **Periodontia Clinic.** 1 hour fall, winter.

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

Pharmacology

Department Head: DR. PHATAK.

Associate Professor: NILKANTH M. PHATAK. Associate: RALPH ROBERTSON. Assistant

Professor: HERBERT C. BERQUIST,* DONALD G. REESE.* Instructors:

DELBERT BLICKENSTAFF, LORETTA F. CASE.

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

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

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

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

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

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

Fourth year. Conference discussion of the application of the science of pharma-

* On leave for military service.

cology and the knowledge of specific medicinal substances to the treatment of specific oral-dental diseases. Conference, 11 hours. Drs. Phatak, Berquist, and clinic staff.

Physiology

Acting Department Head: DR. PHATAK.

Professor: HAROLD J. NOYES. Associate Professor: NILKANTH M. PHATAK. Assistant

Professors: DONALD G. REESE,* BHIM S. SAVARA, GUY A. WOODS, JR.*

Instructors: ROLAND ANDERSON, DELBERT BLICKENSTAFF,
LORETTA F. CASE.

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

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

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

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

First and second year. Fundamental mechanisms governing human body functions. Normal and abnormal deviations of the functions. Detailed study of the circulatory, respiratory, digestive, metabolic, excretory, neuromuscular, and psychic activities of the body. Lectures, 44 hours; laboratory, 99 hours. Dr. Phatak, Mr. Blickenstaff, Mrs. Case.

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

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

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

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

Graduate Courses

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

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

Principles of Medicine

PROFESSOR: HAROLD J. NOYES. ASSOCIATE PROFESSORS: FRANK G. EVERETT, JEFF MINCKLER.

Associates: CLINE FIXOTT, JR., BEN VIDGOFF, JAMES W. WOODWORTH. Assistant

Professor: FRANCIS V. HOWELL. Interns: GERALD RUDOLPH, LAURO SUED.

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

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

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

Med 440. **Principles of Medicine.** 1 hour fall.

Fourth year. An elementary course in endocrinology; normal and abnormal functions of endocrine glands, including metabolic bone diseases; metabolic

* On leave for military service.

disturbances affecting oral-systemic conditions; clinical implications. Lectures, 11 hours. Dr. Vidgoff.

Med 442. Principles of Medicine. 1 hour spring.

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

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

Fourth year. A series of clinical clerkships utilizing local hospitals and health agencies, where the resident and nonresident staffs provide supervision and instruction in the integration of dental care with other health services; observation of patients at the bedside and in outpatient clinics. Clinic, 18 hours. Drs. Noyes, Rudolph, Sued, and staff of the Division of Dental and Oral Medicine of the University of Oregon Medical School.

Prosthetics

Department Head: DR. JOHNSON.

Professor: DOUGLAS C. WENDT. Associate Professor: RULON H. JOHNSON. Clinical Associates: JOSEPH H. DE LONG, WILLIAM W. HOWARD, HERBERT A. KRUMBEIN, JOSEPH MORRIS.

Assistant Professors: BARNEY C. BYBEE, JAN J. MULLER. Instructors: ELDON GIPSON, PAUL HATHORN, MARSHALL S. SANDERMAN, ROBERT J. SHULSTAD, GORDON V. STRATFORD,* RAYMOND A. WENSINK, EARL WIEST.

Pr 401. Special Studies. Hours to be arranged.

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

First year. Instruction in the elementary principles concerned in rendering complete-denture service. Manipulation of prosthetic materials; technical laboratory procedures in preparation for the application of these technics in the oral cavity. Clinical experience is provided during the third term. In addition to learning projects assigned, students are given frequent test or evaluation projects. Lectures, 22 hours; laboratory, 132 hours; clinic, 66 hours. Dr. Krumbein, DeLong, Howard.

Pr 418. Prosthetic Technic. 3 hours.

First year. Instruction in the elementary principles and technics of partial-denture construction. In addition to learning projects assigned, students are given frequent test or evaluation projects. Lectures, 11 hours; laboratory, 66 hours. Drs. Krumbein, DeLong, Howard.

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

Second year. Continuation of clinical experience in complete-denture construction. Introduction to partial-denture prosthesis, following completion of Pr 418. Technic procedures are applied with clinical cases in preparation for infirmary practice. Clinic, 110 hours. Drs. Johnson, Hawthorn, Morris, Muller, Sanderman, Schulstad, Wendt, Wensink, Wiest.

Pr 428. Principles of Clinical Prosthesis. 1 hour spring.

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

Pr 430. Principles of Clinical Prosthesis. 1 hour fall.

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

* On leave for military service.

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

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

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

Third year. The clinical aspects of partial-denture and complete-denture prosthesis, and the primary correlation of these phases. Drs. Johnson, Hathorn, Morris, Muller, Sanderman, Schulstad, Wendt, Wensink, Wiest.

Pr 643, 644, 645. **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. Johnson, Hathorn, Morris, Muller, Sanderman, Schulstad, Wendt, Wensink, Wiest.

Public Health

Assistant Professor: DEMETRIOS M. HADJIMARKOS.

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

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

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

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 Dental School of the University of Oregon introduced a two-year curriculum leading to a Certificate in Dental Hygiene. Graduates in dental hygiene may earn the degree of Bachelor of Science, with a major in health education, after two additional years of study on the Eugene campus of the University of Oregon. Under a similar arrangement, they may earn the B.S. degree, with a major in general science, after two additional years of study at Oregon State College in Corvallis.

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

Opportunities for Dental Hygienists

It has been estimated that 32,500 dentists working exclusively for the children of the United States for one year would be required to take care of these children's current dental needs. There are, however, only about 80,000 practicing dentists in the United States to serve both adults and children. Because of limited dental manpower and the accumulated dental needs of the public, the dentist must ordinarily spend the greater portion of his time in restorative work for adults, and can give relatively less attention to preventive work for children.

A major responsibility in the expanding field of preventive dental health must, therefore, be assumed by the dental hygienist, working under the supervision of the dentists. 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 Dental School and passes a state board examination:

(1) *In a private dental office*—performing oral prophylaxes; applying sodium fluoride to the surfaces of the teeth; instructing in the care of the mouth; maintaining a patient recall system; 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 prophylaxes and giving sodium-fluoride applications; 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; serving in clinics and hospitals for indigent children and adults; cooperating with public health officials and dentists in dental health education (the dental hygienist may assume considerable responsibility for organization and administration of programs).

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

It is anticipated that the greatest future demand for dental hygienists will be

in private dental practice. An increasing number of graduate hygienists are, however, being employed in the public health programs maintained by the schools and by state and local health departments.

Admission

The requirements for admission to the curriculum for dental hygienists include: (1) graduation from a standard high school, and (2) courses in biology and chemistry of high-school level or above. Except under special circumstances, only women 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) College or junior-college work. While not required for admission, some college or junior-college experience will facilitate adjustment to professional training. Those planning to enter liberal arts college for a year or more prior to applying for admission to the Dental Hygiene Curriculum are advised to contact Dr. Franklin B. Haar, Professor of Health Education, University of Oregon, Eugene, for information regarding courses to be taken. (See "Bachelor's Degree" in this section.)

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

(4) Personal qualifications. Careful consideration is given to the candidate's sincerity of interest, character and personality, personal appearance, and health. Willingness to place public service first is a paramount requirement for anyone planning to enter one of the health services. A basically ethical attitude, habits of dignity, tact, courtesy, neatness and poise, and a pleasant social manner are essential qualities of a successful dental hygienist. Since the hygienist will work under the supervision of a dentist, and with the general public and members of other professions, ability to accept criticism and to cooperate under administrative direction is very important. General manual dexterity and adeptness in the use of small instruments are indispensable. The dental hygiene student should be in good health, and have good posture, vision, and hearing.

Admission Procedure. Further information concerning the hygiene 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 15 students.

Fees and Expenses

Students in the dental hygiene curriculum pay the same regular fees as dental students: a total of \$145 per term for residents of Oregon or a total of \$205 for nonresidents. For a detailed table of fees, see p. 24.

The total cost of books, equipment, and supplies required during the two years

of the dental hygiene program is estimated at \$200.00. The required equipment includes: prophylactic instruments, straight hand piece, contra-angle, uniform, shoes. It is estimated that the total cost of the two-year program, exclusive of living costs is about \$1,300 for residents of Oregon and about \$1,660 for non-residents.

The Dental School has no dormitory or other housing facilities for dental hygiene students. Single rooms may be obtained in Portland for about \$30.00 a month; two- and three-room apartments may be rented for about \$65.00 a month. Students accepted for admission are advised to arrange for housing before the opening of the school year.

The student's registration fees cover the cost of physical examinations, diagnostic service, and emergency care through the Student Health Service. See page 27.

Facilities

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

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

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

Dental Hygienist Curriculum

The two-year curriculum in dental hygiene offered by the Dental School is planned to provide the professional education and training needed by the dental hygienist for her specialized responsibilities in preventive dental health service.

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

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

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

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

Scholarship regulations for dental hygiene students are the same as for dental students (see pp. 22).

Bachelor's Degrees. Students who have completed the curriculum in dental hygiene may qualify for the degree of Bachelor of Science, with a major in health education, on the satisfactory completion of two additional years of work on the Eugene campus of the University of Oregon. An alternative plan leading to a B.S. degree is being made available for applicants who wish to study for a year in liberal arts college before applying for admission to the Dental Hygiene Curriculum. Providing *certain specific courses* are completed during this freshman year on the Eugene campus, the student may return to the campus and complete work toward her degree in just one year, following completion of the two-year Dental Hygiene Curriculum. The program on the Eugene campus is under the direction of the School of Health and Physical Education. Students interested in working toward a degree may obtain additional information from the director of Dental Hygiene Curriculum or from Dr. Franklin B. Haar, professor of health education, University of Oregon, Eugene.

Students who have completed the dental hygiene curriculum may also qualify for the B.S. degree, with a major in general science, on the satisfactory completion of two additional years of work at Oregon State College in Corvallis. Additional information may be obtained from the director of the Dental Hygiene Curriculum or from Dr. F. A. Gilfillan, dean of the School of Science, Oregon State College.

TABLE OF COURSES, TIME, AND CREDIT

		Clock hours				Term
		Lect.	Conf.	Lab.	Clinic	Total hours
First Year						
DH 111.....	Hygienist Orientation.....	11	....	....	....	11 1
An 211, 212, 213.....	Human Biology.....	99	....	132	....	231 13
Ch 111, 112, 113.....	Chemistry.....	99	....	66	....	165 11
Bac 113.....	Bacteriology.....	22	....	66	....	88 5
Op 112.....	Dental Anatomy.....	22	....	66	....	88 4
D H 118, 119.....	Dental Hygiene.....	33	....	99	66	198 8
PH 117.....	Personal and Community Hygiene.....	11	....	....	....	11 1
Wr 111, 112, 113.....	English Composition.....	99	....	....	....	99 9
Psy 201.....	General Psychology.....	33	....	....	....	33 3
		429	....	429	66	924 55

		Clock hours				Term
		Lect.	Conf.	Lab.	Clinic	Total hours
Second Year						
Phc 321.....	Pharmacology (Materia Medica).....	22	....	....	....	22 2
OPth 321, 322.....	Pathology.....	33	....	....	....	33 3
Ped 224.....	Caries Prevention.....	11	....	....	22	33 2
Ro 320, 321, 322.....	Oral Roentgenology.....	22	....	22	66	110 5
Pby 220.....	Growth and Development.....	11	....	....	....	11 1
Nu 220.....	Nutrition.....	33	....	....	....	33 3
Ph 320, 321, 322.....	Dental Health Education.....	33	....	....	....	33 3
DH 320, 321, 322.....	Dental Hygiene.....	....	33	....	396	429 12
DH 323.....	Field Experience.....	....	....	66	....	66 2
PH 223.....	Public Health.....	22	....	....	....	22 2
PH 224.....	First Aid.....	22	....	....	....	22 2
DM 232, 233.....	Dental Materials and Procedures.....	22	....	22	44	88 5
DH 229.....	Ethics and Jurisprudence.....	11	....	....	....	11 1
Soc 204.....	Introduction to Sociology.....	33	....	....	....	33 3
DH 230.....	Dental Economics.....	11	....	....	....	11 1
Sp 225.....	Public Speaking.....	33	....	....	....	33 3
		319	33	110	528	990 50

Description of Courses

First Year

An 211, 212, 213. **Human Biology.** 4, 4, 5 hours.

Fall: fundamental biological principles, with material from representative plant and animal forms; biochemistry, physics, and related sciences. Winter and spring: structural and functional anatomy, with special emphasis on the human body; physiological consideration integrated with a study of development, gross, and microscopic anatomy of the organs, including the soft and hard tissues of the oral cavity. Lectures, 99 hours; laboratory, 132 hours. Mr. Tedford, Miss Holly.

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

Basic principles 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, 66 hours. Mrs. Slawson, Dr. Snyder.

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

Designed especially to teach the basic fundamentals of inorganic, organic, and biological chemistry. The instruction is organized to provide an understanding of chemical reactions that are of prime importance in normal body nutrition and function. Lectures, 99 hours; laboratory, 66 hours. Dr. Claycomb.

DH 111. **Hygienist Orientation.** 1 hour fall.

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

DH 118. **Dental Hygiene.** 4 hours winter.

Detailed study of the problems of dental hygiene and preventive procedures. Foreign deposits and stains and their effects on the teeth. Methods and effectiveness of toothbrushing. Prophylaxis procedures. Laboratory: Porte polishing and instrumentation technic on manikins. Lectures, 22 hours; laboratory, 66 hours. Miss Hannon, Mrs. Burke, Miss Winn, Miss Henry, Mrs. Seebach.

DH 119. **Dental Hygiene.** 4 hours spring.

Continuation of DH 118. Orientation to clinical procedures. Sterile technic at the chair. Methods of handling the patient. Technic in the mouth. Methods of detecting dental caries. Examining and charting the mouth. Beginning with simple prophylaxes on children, the student progresses to the more difficult adult needs. Lectures, 11 hours; laboratory, 33 hours; clinic, 66 hours. Miss Hannon, Mrs. Burke, Miss Winn, Miss Henry, Mrs. Seebach, Mrs. Espey, Miss Loomis.

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

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

DM 232, 233. **Dental Materials and Procedures.** 3, 2 hours, fall and winter.

Designed to familiarize the student with the materials and procedures used in dentistry. During the fall term, operative, prosthetics and crown and bridge procedures are briefly explained in lectures, laboratory demonstrations, and by a series of planned observations in the clinical departments of the Dental School. In the winter term, special lectures and observations are scheduled in pedodontia, orthodontics, and oral surgery. Fall: lecture, 11 hours; labora-

tory, 22 hours; observation, 22 hours. Winter: lecture, 11 hours; observation, 22 hours. Dr. Bybee and clinical staff of the Dental School.

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

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

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

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

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

Fundamentals of English composition; frequent written themes. Special attention to correctness in fundamentals and to organization of papers. Lectures, 99 hours. Instruction provided by the General Extension Division of the State System of Higher Education.

Second Year

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

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

DH 320, 321, 322. **Dental Hygiene.** 4, 3, 5 hours.

Continued prophylaxis experience. The student learns increasingly complex techniques. Dental engine polishing supplements porte-polishing. Topical application of sodium fluoride solution. Routine examination and charting of oral conditions. Patient recall recording and notification. Field experience includes a few hours of hospital service. This course is closely correlated with dental health education, caries prevention, nutrition, and pathology. Fall: conference, 11 hours; clinic, 132 hours. Winter: conference 11 hours; clinic, 99 hours. Spring: conference, 11 hours; clinic, 165 hours. Miss Hannon, Mrs. Burke, Miss Henry, Miss Loomis, Mrs. Seebach, Mrs. Espey.

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

Observation and participation in the dental health program of the Portland Public Schools. Inspections and classroom talks. Research surveys; recording and compilation of data. Field experience, 66 hours. Dr. Barnum and staff; Dental Hygiene staff.

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

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

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

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

Oph 321. **Pathology.** 2 hours fall.

A general survey of pathological processes to provide the hygienist with a workable knowledge of the principles of disease. Man's knowledge of pathology and the trends in learning from the time of Hippocrates to present day research findings are included. The applications of basic pathology to

the specific disease entities of the mouth are shown by observation, demonstration, and microscopic examination. Dr. Howell and Oral Pathology staff. Lectures, 22 hours.

Oph 322. Pathology. 1 hour winter.

The basic pathological processes and their appearance in the mouth. Consideration of the diseases of the teeth and the oral structures. Lectures, 11 hours. Dr. Howell and Oral Pathology staff.

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

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, 22 hours. Dr. Phatak.

Ped 224. Caries Prevention. 2 hours fall.

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

Phy 220. Growth and Development. 1 hour fall.

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

PH 320, 321, 322. Dental Health Education. 1, 1, 1 hours. Fall, winter, spring.

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

PH 223. Public Health. 2 hours winter.

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

PH 224. First Aid. 2 hours winter.

American Red Cross first aid, leading to standard and advanced first-aid certificates. Lectures, demonstrations, and practice, 22 hours.

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

Technique of exposing radiographs of the teeth and oral cavity; processing and care of films. General explanation of film interpretation designed to enable the hygienist to identify normal structure of the teeth and supporting tissues and gross abnormalities of the same, and to chart or report intelligently. Lectures, 22 hours; laboratory, 22 hours; clinic, 66 hours. Dr. Fixott, Miss Watson, Mrs. Saunders.

Soc 204. Introduction to Sociology. 3 hours fall.

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

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

A practical course in speaking. Poise on the floor; improvement of diction and voice; organization of speech material and presentation in direct conversational style. Persuasion in speaking; sales talk. Study of motives that impel men to action and ways of reaching these motives. Instruction provided by the General Extension Division of the State System of Higher Education.

Degrees Conferred June 18, 1953

Doctor of Dental Medicine

James Allard, Portland	Verne McGowan, Challis, Idaho
John Anderson, Portland	George McNeil, Pocatello, Idaho
Michael Balanko, Vancouver, B.C.	Vernon Manny, Jr., Portland, Oregon
James Bell, Union	Marvin Mattson, Woodburn
Robert Bristol, Hillsboro	Richard Moore, Summerville
Donald Broberg, Everett, Washington	Robert Nelson, Corvallis
Allen Buck Jr., Portland	Robert Niemeyer, Salem
Irl Clary, Heppner	Lorne N. Pearlman, Winnipeg, Manitoba Canada
Gerald Cogan, Portland	Gordon Potter, Dallas
Max Conley, Portage, Utah	Ronald Rabe, Portland
Bernard Coolbaugh, Spokane, Washington	Kenneth Robertson, Salem
Claude Crittenden, Portland	Roger Ross, Victoria, B.C.
Robert Dempsey, Milton	Warren W. Schafer, Portland
Richard Emondson, Corvallis	Murray Schofield, Salem
Leonard Estes, Tacoma, Washington	Robert Schulstad, Portland
Robert Foster, Gold Beach	George Scroggie, Eugene
Werner Fraenkel, Portland	Fred Sepp, Eugene
Landy Franz, Salem	Fletcher Skillern, Eugene
George Fuller, Portland	Donald Smith, Corvallis
Dean Furlong, Portland	Oscar Smith, Eugene
Fred Gronemyer, Portland	Wallace Stevens, Fillmore, Utah
James Hanna, Billings, Montana	Chester Stevenson Jr., Eugene
James Hoag, Warren	William Tempel, Great Falls, Montana
Herbert Hooker, Portland	George Thebo, Boise, Idaho
Arthur Huber, Astoria	Stanton Thompson, Bellingham, Washington
John Huson, Hillsboro	James Trezona, Portland
Eldon Jenne, Eugene	Wilmot Thorp Jr., Pendleton
Paul Johnson, Portland	Lester White, Whitefish, Montana
Dale King, Eugene	Merton Wilson, Portland
Stephan Krug, Seattle, Washington	Peter Wong, Honolulu, T.H.
Paul Kunkel Jr., Portland	Robert Wu, Bonanza
Willard Loveridge, La Grande	
Jack Luna, Lewiston, Idaho	

Graduate in Dental Hygiene

Merna Anderson, Portland	Beverlee Loomis, Grants Pass
Doris Bronson, Spokane, Washington	Beverly Lundgren, Bremerton, Washington
Mary Ann Henry, Portland	Pauline McChristy, Portland
Eleanor Heydenburk, Grants Pass	Verona Schulz, Portland
Marilyn Lake, Portland	Charlotte Swanson, Portland

Enrollment 1952-53

	Men	Women	Total
Dentistry:			
First year.....	74		74
Second year.....	76	1	77
Third year.....	67	1	68
Fourth year.....	65		65
Special.....	0	0	0
	<hr/> 282	<hr/> 2	<hr/> 284
Dental Hygiene:			
First year.....		14	14
Second year.....		11	11
		<hr/> 25	<hr/> 25
Total Enrollment.....	<hr/> 282	<hr/> 27	<hr/> 309

Oregon State System of Higher Education

CHARLES D. BYRNE, Ed.D., Chancellor

FREDERICK M. HUNTER, Ed.D., LL.D., Honorary Chancellor

* O. MEREDITH WILSON, Ph.D.
President, University of Oregon

AUGUST L. STRAND, Ph.D.
President, Oregon State College

DAVID W. E. BAIRD, M.D., LL.D.
Dean, University of Oregon Medical School

ROBEN J. MAASKE, Ph.D.
President, Oregon College of Education

ELMO N. STEVENSON, Ed.D.
President, Southern Oregon College of
Education

FRANK B. BENNETT, Ed.D.
President, Eastern Oregon College of
Education

J. F. CRAMER, Ed.D.
Dean, General Extension Division

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

Office of the Chancellor

JOHN R. RICHARDS, Ph.D. Vice-Chancellor
RICHARD L. COLLINS, M.A., C.P.A. Budget Director
TRAVIS CROSS, B.A. Assistant to the Chancellor
and Director of Information

Office of the Comptroller

HERBERT A. BORK, M.S., C.P.A. Comptroller and Bursar
JOHN L. WATSON, B.B.A., C.P.A. Assistant Comptroller
HAROLD ROWLEY, B.S. Chief Accountant
WILLIAM R. STOVALL Assistant Chief Accountant
THOMAS F. ADAMS, B.S. Administrative Assistant
JOHN I. HUNDERUP, M.B.A., C.P.A. Administrative Assistant

General Extension Division

PHILIP G. HOFFMAN, Ph.D. Vice-Dean of General Extension
VIRON A. MOORE, Ed.D. Assistant Dean of General Extension
JAMES C. CAUGHLAN, Ph.D. Assistant Dean of General Extension

Libraries

WILLIAM HUGH CARLSON, M.A. Director of Libraries
BESSIE GWYNETH TRESSLER, A.B., B.S. in L.S. Head of Orders Department
IMOGENE CUSAC, B.A., B.A. in L.S. Cataloger for Union Catalog

High School-College Relations Committee

E. DEAN ANDERSON, Ed.D. Executive Secretary

* Appointment effective Mar. 15, 1954. Victor P. Morris served as acting president from Sept. 15, 1953 to Mar. 15, 1954.

Oregon State System of Higher Education

- CHARLES DAVID BYRNE, Ed.D.,** Chancellor, State System of Higher Education; Dean; Professor.
B.S. (1921), M.S. (1922), Wisconsin; Ed.D. (1940), Stanford. With System since 1929, chancellor since 1950.
- JOHN REESE RICHARDS, Ph.D.,** Vice-Chancellor and Secretary of the Board, State System of Higher Education; Professor.
B.A. (1929), M.S. (1931), Pennsylvania State; Ph.D. (1936), Chicago. With System since 1953, vice-chancellor since 1953.
- E. DEAN ANDERSON, Ed.D.,** Executive Secretary, High School-College Relations Committee; Assistant Professor of Education.
B.A. (1936), Reed; M.A. (1941), Oregon; Ed.D. (1954), Oregon State. With System since 1948, executive secretary, High School-College Relations since 1948.
- DAVID W. E. BAIRD, M.D., LL.D.,** Dean of Medical School; Professor of Medicine.
M.D. (1926), Oregon; LL.D. (1946), Portland. With System since 1927, dean, Medical School since 1943.
- FRANK BROWN BENNETT, Ed.D.,** President, Eastern Oregon College of Education; Professor.
B.A. (1921), Willamette; M.A. (1933), Oregon; Ed.D. (1948), Willamette. With System since 1952, president, Eastern Oregon since 1952.
- HERBERT ARNOLD BORK, M.S., C.P.A.,** Comptroller and Bursar, State System of Higher Education; Dean; Professor.
B.A. (1924), Wisconsin; C.P.A. (1926); M.S. (1940), Oregon State. With System since 1934, comptroller since 1934.
- WILLIAM HUGH CARLSON, M.A.,** Director of Libraries, State System of Higher Education; Professor of Education.
A.B. (1924), Nebraska; M.A. (1937), California. With System since 1945, director of libraries since 1945.
- RICHARD LYLE COLLINS, M.A., C.P.A.,** Budget Director, State System of Higher Education; Professor.
B.B.A. (1927), Oregon; C.P.A. (1931); M.A. (1940), Columbia. With System 1927-29 and since 1932, budget director since 1948.
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