



University  
of Oregon  
BULLETIN

UNIVERSITY  
OF OREGON  
DENTAL  
SCHOOL

PORTLAND

1970-71

Oregon State  
System of  
Higher Education

UNIVERSITY OF OREGON BULLETIN

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## *An Overview*

The Oregon State System of Higher Education, organized in 1932, provides educational opportunities to young people and adults throughout the state of Oregon. Member institutions are elements of an articulated system, parts of an integrated whole.

Opportunities for general education are distributed as widely as possible throughout the state, while specialized, professional and technical programs are centered at specific institutions.

Members of the Oregon State System of Higher Education are: Oregon State University at Corvallis, University of Oregon at Eugene, Portland State University at Portland, Oregon College of Education at Monmouth, Southern Oregon College at Ashland, Eastern Oregon College at La Grande, and Oregon Technical Institute at Klamath Falls.

The University of Oregon Medical School, the School of Nursing and the University of Oregon Dental School are located in Portland. The Division of Continuing Education represents all the institutions in making college level courses and special programs available to all citizens. The Division has offices in Salem and Roseburg as well as on OSSHE campuses.

An interinstitutional booklet, "Your Education," lists fields of study at all State System institutions, and gives other important information for prospective students. For a free copy, write "Your Education," State Board of Higher Education, Box 3175, Eugene, Oregon 97403.

# *State Board of Higher Education*

Board members are appointed to six-year terms by the Governor of Oregon with confirmation by the State Senate.

## MEMBERS OF THE BOARD

	Term Expires
George H. Corey, Pendleton.....	1975
Chas. R. Holloway, Jr., Portland.....	1973
Robert D. Holmes, Portland.....	1971
Elizabeth H. Johnson (Mrs. Samuel S.), Redmond.....	1974
Phillip A. Joss, Portland.....	1976
George H. Layman, Newberg.....	1976
Ancil H. Payne, Portland.....	1972
John W. Snider, Medford.....	1975
Loran L. Stewart, Eugene.....	1971

## OFFICERS OF THE BOARD

George Layman.....	President
John W. Snider.....	Vice President

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Roy E. Lieuallen.....	Chancellor
Richard L. Collins.....	Secretary of Board

Office of State Board of Higher Education  
 Post Office Box 3175  
 Eugene, Oregon 97403

# *Oregon State System of Higher Education Officers*

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Robert D. Clark, Ph.D.  
President, University of Oregon

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President, Oregon State University

Charles N. Holman, M.D.  
Dean, Medical School

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Louis G. Terkla, D.M.D.  
Dean, Dental School

Averno M. Rempel, Ph.D.  
President, Eastern Oregon College

Gregory B. Wolfe, Ph.D.  
President, Portland State University

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President, Oregon College of Education

Winston D. Purvine, A.B., LL.D.  
President, Oregon Technical Institute

Richard L. Collins, M.A., C.P.A. .... Secretary, State Board of  
Higher Education

Carl W. Hintz, Ph.D. .... Director of Libraries

Freeman Holmer, M.A. .... Vice Chancellor for Administration

J. I. Hunderup, M.B.A., C.P.A. .... Vice Chancellor for Facilities Planning

Keith Jackson, M.S. .... Budget Director

Donald R. Larson, B.A. .... Assistant Chancellor and  
Director of Public Services

Miles C. Romney, Ph.D. .... Vice Chancellor for Academic Affairs

## FORMER CHANCELLORS OREGON STATE SYSTEM OF HIGHER EDUCATION

William J. Kerr, D.Sc., LL.D. .... 1932-1935

Frederick M. Hunter, Ed.D., LL.D. .... 1935-1946

Paul C. Packer, Ph.D., LL.D. .... 1946-1950

Charles D. Byrne, Ed.D. .... 1950-1951

John R. Richards, Ph.D. .... 1955-1961

# *Calendar, 1970-71*

## *Fall Term*

Registration*	September 21-23
Classes begin	September 24
Thanksgiving holidays	November 26-29
Classes end	December 11
Final examinations	December 14
Christmas interim	December 19-January 3

## *Winter Term*

Registration* and classes begin	January 4
Classes end	March 12
Final examinations	March 15-19
Spring interim	March 20-28

## *Spring Term*

Registration* and classes begin	March 29
Memorial Day holiday	May 31
Classes end	June 11
Final examinations	June 14-18
Commencement	June 13
Summer Session	June 28-August 6

\* Late fee starts the third day after scheduled registration.

## *Preamble*

*As a professional school in the Oregon State System of Higher Education, the University of Oregon Dental School recognizes and assumes three major responsibilities. These are to provide comprehensive programs in undergraduate dental education leading to the D.M.D. degree or the Certificate in Dental Hygiene; programs in graduate education and research leading to advanced degrees; and programs in continuing education.*

*Because oral disease is a major public health problem, the program of undergraduate education must prepare the student in the fields of public health and preventive dentistry. It is also incumbent that graduates of such a program shall have acquired an adequate scientific knowledge of dentistry, shall have developed the basic skills needed to utilize this knowledge, shall have adopted proper standards of professional conduct as a way of life, and shall have accepted the responsibility to study continuously throughout their careers the knowledge and skills related to dentistry.*

*In view of the increasing need for specialists, teachers, and researchers, the University of Oregon Dental School offers graduate education programs, which lead to the Master of Science degree or the Graduate Certificate, which are granted by the University of Oregon upon recommendation of the Graduate Education Committee and the Faculty of the Dental School.*

*In order to assist the dental practitioner and his auxiliary personnel to keep informed of recent developments in dental knowledge and technics, a planned sequence of courses and instruction is offered which does not lead to an advanced degree, but for which the student may be awarded a postgraduate certificate by the department of major study.*



1970-71  
CATALOG

University of  
Oregon  
DENTAL  
SCHOOL

611 S.W.  
Campus Drive  
PORTLAND  
OREGON  
97201

## GENERAL INFORMATION

and methods of instruction can implement the application of intelligence and encourage the desire to learn. This is the basic educational philosophy on which the course of study at the University of Oregon Dental School has been built.

The four-year undergraduate curriculum is planned as an unbroken, integrated educational experience, combining work in the lecture and conference rooms, 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. The second-year program includes an increasing amount of clinical work. On the other hand, the basic scientific and technical studies, which have been traditionally concentrated in the so-called "preclinical" years, are placed strategically through the four years of the curriculum in close relation to the diagnostic and clinical application of the basic principles learned.

In the third and fourth years, intensive practice of specialized therapeutic technics in the departmental clinics is supplemented by work in the general clinic, where emphasis is placed on the diagnosis and treatment of the entire oral health problem of the patient. Clinical instruction is supplemented by courses in scientific communication, psychology of human relations, dental sociology and history, public health and professional adjustment. The program of the Dental School includes at present: (1) the four-year undergraduate curriculum to prepare capable practitioners in general dentistry leading to the degree of Doctor of Dental Medicine; (2) refresher courses to help dentists keep abreast of the new concepts and skills of the progressing science of dentistry, and one-year postgraduate courses in clinical areas, provided by special arrangements, for which certificates are awarded upon successful completion; (3) graduate programs in microbiology, biochemistry, anatomy, operative dentistry—dental materials science, pathology, orthodontics, pedodontics, pharmacology, periodontology, and physiology, leading to the Master of Science degree, (graduate courses are also offered in other fields); (4) a post-sophomore-year program in selected basic science areas for students wishing to obtain the master's degree in addition to the D.M.D. degree; (5) a two-year program for the education of dental hygienists; (6) a continuing program of dental research.

### *History of the Dental School*

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

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

In 1908 the scope of the college was expanded to include a curriculum in pharmacy; this was discontinued in 1941. In 1924 a new charter, granted by the state of Oregon, made the institution a public trust administered by a board of trustees. For many years, the late Dr. Herbert C. Miller, serving as president of the board of trustees and dean, played a leading role in the growth and development of the college.

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

Until 1956 the Dental School was housed in a building at Northeast Sixth Avenue and Oregon Street, erected for the North Pacific College in 1910. In the summer of 1956, the school moved into a new \$2.2 million building adjacent to the University of Oregon Medical School.

## *Administration*

Although the Dental School has administrative and faculty autonomy, the academic position of the school as an integral part of the University of Oregon is established in its charter and is recognized under the organizational plan of the Oregon State System of Higher Education. The dean of the Dental School serves as chief administrative officer. He reports directly to the Chancellor of the Oregon State System of Higher Education and to the Oregon State Board of Higher Education.

## *Facilities*

The Dental School building is a reinforced concrete and steel structure of modern design with approximately 152,550 square feet of floor space. It accommodates 85 undergraduate dental students and 33 dental hygiene students in each class in addition to graduate and postgraduate students.

On the ground floor are the Dental Materials Science department, photography, the offices and clinical facilities of the Dental Hygiene department, the Continuing Education department, the Child Study Clinic, the Special Dental Services Clinic, the departments of Orthodontics and Pedodontics, the Nutrition section of the Preventive Dentistry department and the Technicians Laboratory.

The main clinic areas are on the first floor and ground floor. On the second floor are the Registrar's Office, the Educational Adviser, student lounge, health service, store, and a lecture room used as an auditorium and meeting room by both students and faculty. Most of the classrooms and laboratories are on the third, fourth, and fifth floors. The office of the Dean, office of Institutional Relations, the Office of Business Affairs, and the Dental School Library are located on the sixth floor. The human anatomy laboratory and the tissue preparation laboratory are on the seventh floor. The eighth floor is devoted to research laboratories and animal quarters.

Special features of the building include a modern clinic design—with student laboratories located just off the clinic areas; individual X-ray rooms, provided with lead shielding to protect from excess radiation; ground-level entrances on the first, second and sixth floors; illuminated ceilings of translucent plastic in the clinic; spacious laboratories which provide each student with his own work space, dental equipment, and cabinet for his instruments; 200 high-speed units, supplied with running water, compressed air, and modern lighting; and an integrated paging and telephone system.

## **Library**

The Dental School Library is located on the sixth floor of the Dental School Building. It contains more than 13,000 volumes and currently receives over 500 journals in the fields of dentistry, medicine, and allied sciences. These publications are freely available to the students in open stacks and may be borrowed for home, class, and laboratory use. The library facilities afford seating for 74 persons, including two general reading rooms and two small group-study rooms, in addition to the general stack areas and circulation desk area. For the convenience of the students, the Library maintains a public typewriter which may be used free of charge.

An endeavor is made through the libraries of the Dental School and the adjacent Medical School to acquaint students with the literature of medicine and the fundamental biological sciences as well as dentistry. The Medical School Library is located in the immediate vicinity of the Dental School and all students are extended the privilege of borrowing from a medical collection of over 130,000 volumes.

## GENERAL INFORMATION

### Dental Student Store

The Dental School operates a book and supply store on a nonprofit basis, for the convenience of students. The selling price of all items is cost plus a small markup to pay for current operating costs. Current costs of books, equipment, and supplies are listed on page 28.

- (1) The student "instrument and supply issue" consisting of instruments and supplies designed by the department in charge of teaching each course, must be purchased from the student store and paid for at the time of payment of fees. The "instrument and supply issue" list includes the minimum materials needed by the student to accomplish the laboratory exercises required in each of his courses. No issue may be purchased from outside the school without permission of the store manager. This rule is for the protection of the student so that he will be certain to have the approved supplies. Students are advised to avoid purchasing items represented as "in lieu of or equal to" items which are obtainable through the central store. This applies to all items, including those offered for sale by former students. Additional instruments and supplies, if desired by the student, may be purchased from the student store or from any dental supply dealer.
- (2) Small items needed during the term can be charged at the supply store by opening an account.
- (3) The store is open for purchase of supplies on an announced schedule, planned to meet student convenience.

### Student Health Service

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

The Health Service, located in Room 202, is open Monday through Friday, 9:00 a.m. to noon and 3:00 to 4:00 p.m. The Health Service physician has clinic hours on Monday, Wednesday, and Friday from 10:00 a.m. to noon. A charge for Health Service care is included in the fees paid at the time of registration.

### Photography

The Photography Section provides the Dental School with audio-visual aids needed for the interpretation of the dental sciences in the school's instructional and research programs—including photographs, illustrations, motion pictures, and transparencies. The section also provides instruction in dental photography and in illustrations for undergraduate, graduate, and postgraduate students.

### Oral Tumor Registry

The Oral Tumor Registry compiles data on tumors and related lesions of the oral cavity submitted by pathologists throughout the Pacific Northwest. Financial support of the registry is provided by the American Cancer Society and the National Cancer Institute of the United States Public Health Service. The registry is administered by the Department of Pathology and is closely coordinated with the teaching and research activities of that department.

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

# DENTAL AUXILIARY UTILIZATION

## Dental Auxiliary Utilization

JACK W. CLINTON, D.M.D.....	Department Chairman; Assistant Professor of Dentistry
LUCY M. HARTMAN, C.D.A.....	Senior Instructor
LEOTA F. COMPTON, C.D.A.....	Dental Assistant—Teaching
ELIZABETH LIDDLE, C.D.A.....	Dental Assistant—Teaching
VERMADEL K. GIBSON, C.D.A.....	Dental Assistant—Teaching
BRENDA J. HONGO, C.D.A.....	Dental Assistant—Teaching
KAREN S. WAIDE, C.D.A.....	Dental Assistant—Teaching
HELEN KIRCHHOFF, C.D.A.....	Dental Assistant—Teaching
KATHERINE M. NASH, C.D.A.....	Dental Assistant—Teaching
DANYA G. OCHSNER, C.D.A.....	Dental Assistant—Teaching
BETTE J. TITTLE, C.D.A.....	Dental Assistant—Teaching

An opportunity to work with an experienced chairside dental assistant is provided through a 103-hour clinical course for fourth-year dental students. Emphasis is placed on chairside use of dental assistant, the use of the tray concept of instrumentation, the use of the oral evacuator, and the effective application of all other phases of utilization of a dental assistant.

## Dental Special Services Clinic

RICHARD J. MATHEWSON, D.D.S., M.S.....Director, Assistant Professor, Pedodontics Department

The Dental Special Services Clinic has been established in cooperation with the Crippled Children's Division of the University of Oregon Medical School to provide treatment for children with cleft lip and/or cleft palate plus various associated congenital anomalies. Consultation service is available to any child who has a cleft lip or cleft palate. Evaluation procedures include cephalometric headplates, impressions for study casts, facial and intra-oral photographs, intra-oral dental roentgenographs, the examination and recording of the status of hard and soft tissues in the mouth, and genetics evaluation.

The treatment services include restorative and prosthetic dentistry related to the child with cleft lip and palate. Speech aid appliances are constructed in conjunction with a speech pathologist from Crippled Children's Division. These obturators are evaluated on a periodic basis with the intent to improve the child's oral communication process. Orthodontic therapy, where indicated, is undertaken to correct malocclusions instigated by the initial birth defect.

The patient's dentist, the Crippled Children's Division of the Medical School, and the Dental Special Services Clinic provide coordinated treatment in the Dento-Plastic Speech Clinic. Specialists in the fields of dentistry, medicine, social work, and speech participate in this treatment. The consultants of the Dental Special Services Clinic are also available for consultation requested by other clinics or private practitioners. The underlying concept in programming dental and other rehabilitative measures for the cleft palate child is the understanding that the patient has the same basic personal needs as any other child.

An elective course in Cleft Palate Therapy is offered in the Winter quarter of the senior year.

## Research

Research is an integral part of education and training in the Dental School. All graduate students working toward the Master of Science degree are expected to complete research projects for their theses. Undergraduates are encouraged to participate in research projects conducted by the faculty. In addition, the U.S. Public Health Service through its institutional grants system provides funds for several part-time student research and

## GENERAL INFORMATION

one post-sophomore research fellowships. These student fellowships are usually given for the summer months. The student selected for the post-sophomore fellowship spends 15 months in graduate research working toward the Master of Science degree.

A number of research projects and training grants are currently in progress at the Dental School. These projects are supported by more than \$400,000 in funds from private donors, industry, foundations, and the state and federal governments.

### Division of Oral Biology

The Division of Oral Biology was established in 1968 to: (1) Administer a multidisciplinary course for graduate students that effectively correlates the basic and clinical sciences, (2) Administer a team approach to extensive research problems particularly in regard to periodontal disease.

The division is in the process of establishing a multidisciplinary basic science master's and doctoral degree program for students wishing to pursue an academic career. The teaching staff of the division is drawn from faculty members of most basic science and clinical departments of the University of Oregon Dental School, as well as personnel from the Oregon Primate Center and the University of Oregon Medical School.

### Child Study Clinic

BHIM S. SAVARA, D.M.D., M.S.....	Professor and Department Chairman
WILLIAM L. PARKER, Ph.D.....	Adjunct Professor of Physics
NILKANATH M. PHATAK, Ph.D.....	Professor
QUENTIN D. CLARKSON, Ph.D.....	Research Associate
RICHARD S. POPE, M.S.....	Research Associate
JAMES W. IRWIN, Ph.D.....	Assistant Professor of Biophysics
WILLIAM E. TRACY, D.D.S.....	Associate Professor
CARLOS A. SANIN, D.D.S.....	Assistant Professor
SHINJI NAKAMURA, D.D.S., D.D.Sc.....	Instructor
JOHN C. STEEN, M.A.....	Instructor
DONALD R. THOMAS, B.S.....	Senior Research Assistant

Research on dento-facial growth, oral health, and physical and skeletal growth of both the healthy child and the child with specific metabolic, endocrine or genetic disorders is conducted by the staff of the Child Study Clinic. Longitudinal studies are carried on by periodic examinations of approximately 360 children, including 60 endocrine and metabolic special study children. Each child's record is documented by physical measurements, cephalometric, intro-oral, hand and wrist and calf and knee roentgenograms, photographs, dental study casts, and oral examinations.

Study of healthy children provides information on the rate and pattern of dento-facial growth and its relation to body growth. Comparison of data on healthy children with data on children with specific metabolic or endocrine diseases provides us with information on the relationship between systemic and/or genetic disturbances on the development of the face and teeth.

Collected data are used for teaching purposes in the Departments of Anatomy, Pedodontics and Orthodontics at the Dental School, and in the Department of Pediatrics at the Medical School. Graduate and post-graduate students acquire an understanding of the changes taking place in the dentition and face of the child.

The Biophysics Laboratory of Child Study Clinic was established in 1967. Its primary mission is to develop instrumentation for measurement of human growth and development and to study the interaction of human tissue and radiation in general. Its secondary mission is to provide a research service to the Dental School as a whole and to outside

## SCHOLARSHIPS AND AWARDS

sponsors in the broad area of biophysics. Research is currently being performed for the Dental Research Division, U.S. Army Medical Research and Development Command. Facilities of the clinic are available for consultation to the public and to members of the dental and medical professions.

### **Statistical Laboratory**

The Statistical Laboratory, operated by the Department of Biostatistics, offers statistical consultation to the faculty and graduate students on research design, analysis, and computation.

## *Scholarships and Awards*

**Albina Page Fund Grant.** This fund provides grants to Dental School students for school expenses. Application forms may be obtained by writing to the Albina Page Fund, 415 Pioneer Trust Building, Salem, Oregon.

**State Scholarships.** The Oregon State Scholarship Commission awards annually a limited number of scholarships to superior students who are residents of the state of Oregon. The scholarships cover tuition and the laboratory and course fee; recipients must pay the incidental fee, the building fee, and special fees. Dental and dental hygiene students, to qualify for state scholarships, must rank high in scholastic attainment at the Dental School and be in need of financial assistance. State scholarships at the Dental School are awarded on recommendation of the Director of Student Affairs and approval of the Dean. Application should be filed in the Dean's Office not later than March 1.

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

**State Scholarships for Nonresident Students.** A limited number of state fee scholarships equal to the difference between nonresident and resident tuition are available to qualified students who are not residents of the State of Oregon. Applications are available January 1, for the following academic year and must be filed in the Dean's Office by July 1.

**Health Professions Scholarships.** Students who enroll as freshmen dental students, beginning with the academic year 1966-67 or after for the duration of the Health Professions Scholarship Act, are eligible for awards up to \$2,500 per year to cover, tuition, fees, books, equipment and living expenses. The purpose of the act is to provide assistance to students of exceptional financial need who must have such assistance in order to pursue a course of study leading to a career in dentistry.

**Georgia Rich Scholarship.** Miss Georgia Rich, a former Portland music teacher bequeathed funds in her will to the University of Oregon Dental School to be used to honor high academic achievement. These funds are distributed as tuition scholarships to students with high academic standing in their class.

**Frances and Monte Bettman Foundation Scholarships.** Receipts from the estate of Frances and Monte Bettman Foundation are distributed in the form of tuition scholarships in recognition of academic excellence to currently enrolled dental students. Dr. Bettman was a noted Portland periodontologist, professor emeritus, and past head of the Periodontology Department, University of Oregon Dental School.

**Weber Dental Manufacturing Company Scholarships.** Under a grant to the Fund

## GENERAL INFORMATION

for Dental Education, one \$100 scholarship for dental assistants and two \$800 scholarships for dental hygienists are awarded each year. The scholarships may be continued for the second year. Application forms may be secured from the Fund for Dental Education, 840 North Lake Shore Drive, Chicago, Illinois. This application deadline is June 1 preceding each academic year. All transcripts and supporting data must be submitted by July 1.

**Alpha Omega Scholarship Award.** A plaque is awarded annually by Alpha Omega fraternity to the senior dental student who attains the highest scholastic average for his four years of dental study.

**American Academy of Dental Medicine Award.** A certificate of merit for proficiency and promise in the field of dental medicine is awarded an outstanding fourth-year student each year by the American Academy of Dental Medicine. The award also includes a five-year subscription to the *Journal of Dental Medicine*.

**American Academy of Gold Foil Operators Award.** A certificate is presented each year by the American Academy of Gold Foil Operators to the fourth-year student who demonstrates the highest proficiency in gold foil restorations.

**American Academy of Oral Roentgenologists Award.** The fourth-year student who exhibits the highest proficiency in oral radiology is awarded a certificate at the spring honors assembly by the American Academy of Oral Roentgenologists.

**American Association of Endodontists Award.** A certificate and *Journal* subscription are presented each year to the senior student who shows the highest degree of proficiency and interest in the field of Endodontics and exemplifies the ideals of the American Association of Endodontists.

**Dental Hygienists Alumnae Association Award.** Two awards for outstanding clinical performance and highest scholastic achievement are presented each year to second-year hygienists by the University of Oregon Dental School Dental Hygienists Alumnae Association.

**James E. Carter Memorial Award.** A plaque is inscribed each year with the name of the senior student who shows the most outstanding ability and promise in oral surgery. This plaque hangs permanently in the Department of Oral Surgery.

**International College of Dentists Award.** A plaque is awarded annually by the International College of Dentists to the graduating dental student who shows the greatest growth and development during his years in Dental School.

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

**Mosby Scholarship Book Awards.** Certificates of award are presented annually to five outstanding seniors, which permit each student to select any one publication of the C. V. Mosby Company, journals excluded, with retail value not to exceed \$30.

**Theodore Koppanyi Award.** An appropriate text is awarded annually by members of the Department of Pharmacology of the University of Oregon Dental School to the graduating senior dental student who has demonstrated outstanding scholarship and interest in pharmacodynamics.

**Society of Dentistry for Children Awards.** An award from the American Society of Dentistry for Children is presented annually to the top two fourth-year students, who demonstrate 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*.

**Oregon State Dental Hygienists Association Award.** A one-year membership in the Oregon State Dental Hygienists Association is awarded each year to a second-year dental hygiene student selected by members of her class.

**University of Oregon Dental School Alumni Award.** A plaque and cash award is presented annually by the University of Oregon Dental School Alumni Association to the student who shows the most outstanding growth and development in human relations, desirable professional attributes, and scholastic achievement during the four years of undergraduate education.

**Robert A. Guderian Memorial Award.** This award is given to the senior dental student who shows growth and improvement during four years of dental education. The award was established as a memorial to Dr. Robert Guderian, who set an example of personal growth in practice. The student chosen is given a plaque and a year's membership in the American Society of Dentistry for Children.

**American Academy of Periodontology Award.** This award is presented to a senior who has exhibited outstanding potential in periodontology. The award consists of a plaque and subscriptions to two journals of the Academy.

**Lactona Award.** This award is presented to an outstanding senior who recognizes the importance of the preventive aspects of periodontics. The award consists of a plaque, educational materials and subscriptions to several journals.

### *Loan Funds*

The Dental School has funds available for long-term student loans and for emergency loans. The loan funds are held in trust by the Dental School and are administered by the Director of Student Affairs. Applications for loans are made through the Dean's Office.

#### **Short-Term Emergency Loans**

**University of Oregon Emergency Loan Fund.** Short-term loans from this fund, administered by the Dental School, are available to all students.

**Herbert C. Miller Loan Fund.** This fund was established in honor of the late Dr. Herbert C. Miller, former president of North Pacific College of Dentistry. It provides short-term loans to dental and dental hygiene students.

**Oregon State Dental Association Auxiliary Short-Term Loan Fund.** This is an emergency loan fund established in October, 1958 by the Oregon State Dental Association Auxiliary.

**Portland District Dental Society Women's Auxiliary Short-Term Loan Fund.** This short-term loan fund was established in April, 1958 by the wives of members of the Portland District Dental Society.

**Omicron Kappa Upsilon.** This short-term loan fund was established by the Delta Chapter of Omicron Kappa Upsilon, dental honor society, and has been administered by the Dental School since 1964.

#### **Long-Term Loans**

**American Dental Trade Association Senior Student Loan Fund.** This loan fund is designed to assist deserving senior dental students to complete their undergraduate dental education. A total of \$700 is made available each year, for one or more loans.

**Gillette Hayden Scholarship Loan Fund.** The Association of American Women Dentists has established the Gillette Hayden Scholarship Loan Fund for promising junior,

## GENERAL INFORMATION

senior and graduate women dental students. The amount that can be borrowed and the terms of the loan are based on individual circumstances.

**W. K. Kellogg Foundation Loan Fund.** This \$15,000 loan fund was established at the Dental School in July, 1958 for the financial assistance of dental students. Loans are made to undergraduate students only, and are awarded on the basis of scholastic ability, character, and need.

**Ben Selling Loan Fund.** This fund, a bequest from the late Mr. Ben Selling, is administered through his son, Dr. Lawrence Selling. Application forms for loans may be obtained from the First National Bank; loans are made by the Trust Department of the First National Bank.

**John Kuratli Memorial Fund.** This fund was established in July, 1961 by a gift from Dr. Collister Wheeler in memory of the late Dr. John Kuratli who was a Portland dentist and former faculty member. The fund is intended primarily for student loans but may be applied toward fellowships, scholarships, prizes, and awards.

**Evelyn Hannon Loan Fund.** This fund was established in 1961 by the University of Oregon Dental Hygienists Alumnae Association to provide loans for dental hygiene students. It was renamed in 1969 in honor of Miss Hannon, long time director of dental hygiene at the Dental School. The amounts of the loans and interest rates are established by the Dental School.

**Mrs. Grace Cole Memorial Fund.** This fund was established in 1962 as a memorial to Grace Cole, former president of the Women's Auxiliary to the Oregon State Dental Association. Contributions are still being received to increase the principal.

**American Dental Association Fund for Dental Education Student Loan Fund.** This long-term loan fund was established in 1962 for undergraduate dental students.

**International College of Dentists (U.S.A. Section) Loan Fund.** This fund was established in 1962 to provide long-term loans for senior dental students.

**Health Professions Student Loan Fund.** Funds are available to full-time students pursuing a course of study leading to a degree of Doctor of Dental Medicine. The maximum amount available is \$2,500 per year. Loans are repayable to the school over a ten-year period beginning one year after the borrower ceases to pursue the prescribed full-time course of study. Interest begins at the time the loan becomes repayable.

**Federal Guaranteed Loans (Non-residents).**

**United Student Aid Funds Loan Program (Non-residents).** An arrangement between the University of Oregon Dental School and the student's hometown bank provides assistance up to \$1,000 per year for undergraduate students and \$1,500 per year for graduate students—up to a total of \$7,500. The Director of Student Affairs must endorse each loan. Student borrowers with adjusted family incomes of less than \$15,000 a year are eligible for guaranteed interest subsidy.

**Oregon Guaranteed Student Loan (Oregon Resident Students).** An arrangement between the University of Oregon Dental School, the student's Oregon bank, and the Oregon State Scholarship Commission provides assistance up to \$1,500 per year. An applicant, whose annual adjusted family income is below \$15,000 is eligible for guaranteed interest subsidy. Repayment begins the first day of the tenth month following the date the student ceases to pursue his course of study. Loans are endorsed by the school and arranged with the hometown bank.

**Jenkins Student Loan Fund.** This fund is administered by the trust department of the U.S. National Bank; application forms can be obtained from the bank.

**National Defense Education Act Loan Program.** This loan fund was established by the National Defense Education Act of 1958 and is available to dental hygiene students and graduate students.

## Organizations

The Associated Students of the University of Oregon Dental School direct 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.

**American Dental Association.** On admission to the Dental School, all students become student members of the American Dental Association and 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 20 percent of their class, and who are of good moral character and show evidence of professional earnestness, are eligible for membership. A total of 12 percent of the class is invited to 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 technics at meetings of the group. Members are chosen from the top ten percent of the junior and senior classes. Selection is based primarily on scholastic achievement, but consideration is also given to character, personality, and adherence to professional ethics.

**Junior Dental Auxiliary.** The Junior Dental Auxiliary, an organization of dental students' wives, meets once a month at the Dental School for a program of interest to the group. The auxiliary sponsors the annual Sweetheart Ball, a style show, a Christmas open house, theater party, rummage sale, and supports several projects of a philanthropic nature. The Roster of the University of Oregon Dental School, a directory of students, is published by the Auxiliary.

**Fraternities.** Three nationally recognized 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 organization and a member of the faculty, who serves in an advisory capacity. Interfraternity Council representatives are responsible for the conduct of all members of their respective fraternities when this conduct affects the Dental School, directly or indirectly.

## Housing

The Dental School's residence for single male students, Louis J. Fitz Patrick Hall, has been in operation since the fall of 1963.

It is situated on a large, wooded lot within easy walking distance of the Dental School, in an area known as Marquam Hill. The sleep-study unit provides housing for thirty men in fifteen double rooms; the other unit contains a recreation room, group study room and an apartment for a resident counselor.

Room reservations must be made no later than August 1. Contracts for dormitory accommodations are for the entire school year. Application must be made on an official form and must be accompanied by a room deposit of \$50. If residence reservations are cancelled, the room deposit will be refunded only if the cancellation is made by September 1.

A women's residence provides housing for dental hygiene students (see page 66).

Multiple occupancy room cost in the men's dormitory is \$319 per year, payable as follows: Fall Term \$143; Winter Term \$96; Spring Term \$80. Limited facilities are available in

## GENERAL INFORMATION

the dormitory for meal preparation. Breakfast and lunch meals are available on campus at dental, medical and hospital cafeterias.

Students will find that living costs in Portland vary with the type of facility. Single rooms may be obtained in Portland for about \$50 a month; two- and three-room apartments may be rented for about \$110 a month. Students living off campus must make their own arrangements for housing and are advised to do so before the opening of the school year.

### *Alumni Association*

The Alumni Association of the University of Oregon Dental School has a membership of about 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 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 1969-71 are:

RALPH F. FROGLEY, D.M.D.	.....	President
ROBERT J. LARSEN, D.M.D.	.....	Vice President
GEORGE J. COLLINGS, D.M.D.	.....	Secretary-Treasurer
H. CLINE FIXOTT, D.M.D.	.....	<i>Caementum</i> Editor

### *Special Services*

**Visitors to the Dental School.** Groups and individuals who wish to visit and observe the daily routine of the Dental School and its facilities are welcome. High-school and college students considering dentistry as a career will be provided with tours of typical classrooms, clinics, and laboratories. If these students wish, they may also have an opportunity to discuss various aspects of the profession and pre-dental and dental education with students and faculty members. To insure a sufficient amount of time with Dental School personnel on such visits, prior arrangements must be made through the Office of Institutional Relations.

**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 or other faculty members to groups interested in learning about dental education and dentistry as a career. Requests for speaking engagements should be addressed to the Office of Institutional Relations.

### *Advisory Committees*

The Oregon Dental Association has appointed two committees to act in an advisory capacity between the dental profession and the Dental School. They are the Related Organizations Council and the Auxiliary Dental Personnel Committee.

Other ODA committees of interest to dental students are the Dental Care, Insurance, Journalism, and Continuing Education Councils. Further information may be obtained from the Oregon Dental Association office in Portland.

In addition, the Oregon State Board of Dental Examiners appoints an advisory committee to act as a liaison between the Board and the Dental School.

# 2

## Admission, Scholarship and Fees

### *Admission*

Applicants to the University of Oregon Dental School are considered on the merits of academic performance, initiative, motivation and citizenship, without regard to race, color or national origin.

In choosing students the Admission Committee specifically takes into account the following factors: 1) Satisfactory completion of minimum pre dental course requirements, 2) college grades, 3) amount of college work completed, 4) results of aptitude test given by the American Dental Association. Personality and motivation factors as revealed by pre dental faculty recommendations are also considered.

The Dental School recognizes that its primary obligation is to provide an opportunity in dental education for residents of Oregon, and for residents of the western states cooperating in the program of the Western Interstate Commission for Higher Education. Most nonresident students are selected from western states which do not have dental schools. However, a limited number of other scholastically superior nonresident students are accepted each year.

**Preparation for Admission.** Students planning to apply for admission are strongly advised to obtain as wide an understanding of the services and functions of the dental profession as possible. Some understanding may be obtained by visiting with dentists in the 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 for admission are required to take an aptitude test administered by the Council on Dental Education of the American Dental Association.\*

### **Admission Requirements**

The University of Oregon Dental School requires that pre dental students devote at least three years to their pre dental educations, completing a minimum of 135 quarter hours

\* Information concerning the A.D.A. testing program is contained in the A.D.A. *Dental Aptitude Manual for Dental School Applicants*. A copy of this manual is sent to each applicant in his application packet.

## ADMISSION, SCHOLARSHIP AND FEES

(90 semester hours) prior to the time of initial registration at the Dental School. It is improbable that an Oregon resident with a grade-point average of less than 2.25 or a non-resident with less than 2.50 will be accepted for admission. Applications from students with preidental grade-point averages of less than 2.00 will not be accepted.

**Pass-Not Pass.** The Pass-not pass system of grade reporting used by some liberal arts schools is not acceptable to the University of Oregon Dental School for required preidental courses, including labs. A minimum of 115 quarter hours, including all of the preidental requirements, of the 135 hours must be graded (A, B, C, D, F or equivalents), by the time of registration at this school. The transcript notation of "not pass" for all other courses will be computed as failure and calculated into the overall grade point average.

The Dental School requires, for admission, the completion of the following courses:

	Minimum Quarter Hours
Freshman English Composition.....	9
General Chemistry.....	12
Quantitative Analysis.....	4
Organic Chemistry, with laboratory.....	8
General Zoology, or General Biology, with laboratory.....	12
General Physics, with laboratory.....	12

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

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

Advanced placement credits will be accepted as meeting preidental requirements for admission to the Dental School if such credits are clearly indicated on the undergraduate transcript as having been accepted by the college or university toward fulfillment of requirements for a degree.

The University of Oregon accepts a maximum of 48 term hours of professional work in dentistry as work in residence for a bachelor's degree, and accepts courses in the basic sciences, taken at the Dental School, to meet major requirements in biology or general science. The student is advised to become a candidate for a baccalaureate degree at the

institution where he completed his predental studies. However, a student who has completed a three-year-predental program at an accredited college or university which does not accept Dental School work toward course or major requirements may, in some cases, have his credits transferred to and receive his degree from the University of Oregon.

**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 six separate tests, designed to reveal both scholastic and technical ability for dentistry. The academic tests include an examination in the field 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 will be sent to applicants.

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, American Dental Association, 211 East Chicago Avenue, Chicago, 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 on Saturday at the University of Oregon Dental School sometime during the months of October, January, and April. The exact dates will be included with application material. *Applicants are urged to take the test either at the October or January testing period preceding Fall registration at the Dental School. Only under unusual circumstances will the application of a candidate who takes the test at the April session preceding Fall registration be considered by the Admissions Committee.*

**Interviews.** An interview may be required of some applicants before consideration for admission. These applicants will be notified. A team of Dental School faculty members annually visit the campuses of schools in the Oregon State System of Higher Education and other major schools in the state with the purpose of providing information about admission requirements and careers in dentistry.

## Application Procedure

Application for admission to the Dental School should be addressed to the Director of Admissions of the Dental School. The applicant's credentials should include the following:

- (1) Application on an official form, copies of which will be furnished by the Director of Admissions.
- (2) It is desirable, but not mandatory, that a recent photograph be submitted with the application materials.
- (3) An official transcript of all college work completed at the time of application. This transcript should cover a minimum of six terms or four semesters of college work. In addition, it is imperative that the applicant keep the Director of Admissions informed of his academic progress by adhering to the following:
  - a. Send an official grade report or transcript at the end of each term or semester until he receives formal notice of acceptance or rejection.
  - b. *Prior to enrolling in Dental School*, an accepted applicant must send to the Director of Admissions an official transcript covering all of his predental and other 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 each carries.
- (5) Completion of the letter on the back of the application form, stating in detail the reasons why the applicant has chosen a dental career; the letter should also include any other information which the applicant considers important for a thorough evaluation of his credentials.
- (6) A statement of the selective-service status of the applicant, including his code number, and the number and address of his local selective-service board.
- (7) The credit-evaluation fee of \$10.00 (this fee is not refundable).
- (8) A completed health questionnaire.
- (9) A signed statement of authorization permitting the Admissions Committee to consult with outside agencies (federal, state, municipal) to secure additional information, if necessary.

## ADMISSION, SCHOLARSHIP AND FEES

When an applicant for admission is notified of acceptance, he must make a \$75.00 deposit to reserve a place in the entering class; this deposit is applied on first-term fees. See page 27 for information on refunds.

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

**Application Submission Dates.** Application for admission must be filed between July 1 and October 31 of the year preceding the year the student wishes to enter the Dental School. Request for filing late application must be made by letter to the Director of Admissions. After October 31, applications received late are considered only under exceptional circumstances and with the permission of the Admissions Committee. The Admissions Committee will begin selecting candidates for the next entering class soon after the opening of the academic year, and will meet periodically thereafter for purposes of selection until the class is filled. Applicants should understand that it is of decided advantage to file all credentials and complete all aptitude requirements as early as possible to insure full consideration by the Admissions Committee.

Applicants should inform the Dental School when a change of address or marital status occurs.

**Western Interstate Commission for Higher Education.** Nonresident students seeking certification under the provisions of the program of the Western Interstate Commission for Higher Education should so notify the Dental School at the time of application. Requests for certification should be addressed to the local commission office in the state of residence. Information and addresses of local offices in each state may be obtained on request to the Executive Secretary, Western Interstate Commission for Higher Education, P. O. Drawer "P", Boulder, Colorado 80304.

Students entering the Dental School under the program of the Western Interstate Commission are assessed tuition costs at the resident rate instead of non-resident fees, the difference being paid by the member state sponsoring the student. Certified WICHE students will have a competitive advantage over other non-residents for admission purposes only. A WICHE student who is accepted by the Admissions Committee must remain on the program throughout his dental education, or withdraw from the curriculum.

### 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.

### Student Discipline

The students of the Dental School maintain an Honor Code for the purpose of promoting professional conduct, attitude and integrity on the part of all students by means of a self-enforcing system of dealing with discipline problems. Accepted students who signify their intention to enroll at the University of Oregon Dental School will receive a copy of the Student Handbook which includes the Honor Code. All students are required to sign a statement concerning the Code. The Code is administered by a student-elected chairman and representative from each dental and dental hygiene class. Rights of accused are protected through appeal and final faculty authority to institute corrective action. The Dental School administration handles disciplinary problems that are not within the scope of the Honor Code.

## *Registration*

Registration for fall term will be held September 21-23, 1970. Information on registration procedures is mailed to each student prior to the opening of the session. The academic calendar appears on page 7.

## *Scholarship Regulations*

The scholarship requirements of the University of Oregon Dental School for advancement or graduation conform to the policies of the Oregon State Board of Higher Education and the Council on Dental Education of the American Dental Association.

### **Grading System**

Accomplishment by students in Dental School courses is graded in accordance with the following system: *A*, outstanding; *B*, superior; *C*, satisfactory; *D*, meets minimum acceptable standards; *F*, failure.

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

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

*Condition.* When a further evaluation of a student's work is required, a *Condition* may be given. As determined by the department concerned, the student has the opportunity of removing a *Condition* either by re-examination or by completion of special assignments covering his deficiencies, or by both. *D* or *F* are the only grades that may be granted on re-evaluation. A *Condition* given fall or winter term must be removed by the end of the following term; a *Condition* given spring or summer term must be removed ten days before fall registration. A *Condition* which is not removed will be recorded as a grade of *F*.

*Withdrawal and Readmittance.* When a dental student desires to withdraw from school, he must write a letter to the Registrar stating his intent to withdraw and his reasons for doing so. After receiving administrative approval to initiate the withdrawal procedure, the Registrar will notify each department in which the student is enrolled for courses, and the department will prepare an evaluation of the student indicating (1) *W* for scholarship which was satisfactory at the time of withdrawal or (2) *F* for scholarship which was unsatisfactory at the time of withdrawal. If he does not formally notify the Registrar of his intention to withdraw, the student will receive grades of *F* in all courses in which he is enrolled.

A student who has withdrawn from the Dental School and wishes to re-enter must write a letter of application to the Student Appeals for Reinstatement Committee. Members of this committee will examine his case, determine whether he will be allowed to re-enter, and what special conditions, if any, are to accompany his readmittance. The committee recommends to the faculty: (1) readmission; (2) readmission under special conditions; (3) denial of petition for readmission.

A student who has discontinued his studies for any reason and applies for readmission may not receive credit for courses taken more than seven years prior to the date of registration, except by special evaluation for placement as recommended to the Reinstatement Committee.

## ADMISSION, SCHOLARSHIP AND FEES

If a student wishes to withdraw from an elective course, he must do so prior to the fourth week of the term; if he withdraws later, he will receive a grade of *F* in the course unless he is withdrawing from the school.

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

*Failure.* Work which is not of a quality acceptable for credit receives a grade of *F*. To continue toward the completion of his Dental School work, the student must repeat a course in which he has received the grade of *F*, or complete an acceptable substitute course in another school with a satisfactory grade. The substitute course must be acceptable to the department concerned and approved before the student begins his work. Unless special permission for extension of time is granted, the student must comply with this regulation within one academic year. An *F* grade cannot be removed from a student's record. If a student fails the same course twice at the Dental School, he will not be permitted to take the course again at this institution.

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

### Scholarship Requirements

Scholastic requirements are administered through the Academic Performance Committee (for didactic subjects) and the Clinic Committee (for clinical subjects). These committees present reports to the faculty on the academic standing of all students with recommendations for appropriate action in cases of unsatisfactory student performance.

To qualify for advancement or graduation, the student is required to maintain a minimum grade-point average of 2.00 for all work. For failure to maintain this minimum satisfactory average, the student, at the option of the faculty, may be dismissed from the school, placed on academic probation, or required to repeat the work for the year in which his scholarship is deficient. A student on probation may be dropped from school at any time by action of the faculty. Improvement of the cumulative grade-point average to 2.00, or above, removes the student from academic probation.

Students who are required to repeat a year, or portion of a year's work, may be assigned a modified program involving some new content or experience. This program will be determined by the Academic Performance and Clinic Committees in consultation with departments concerned. However, a senior student who fails to complete all unit and proficiency requirements for graduation is expected to make up all deficiencies within one additional term.

### National Board Examinations

The National Board Examinations of the American Dental Association are given at the Dental School for dental students and members of the dental profession who wish to take these examinations in lieu of the science and didactic parts of the state board examinations. At present approximately 46 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.

## FEES AND EXPENSES

iners or by the University of Oregon Dental School. At the present time, however, virtually all eligible students at the Dental School take these examinations.

The dates when the examinations will be given in 1970-71 are July 13-14, 1970; April 5-6 and July 12-13, 1971.

### Fees and Expenses

Undergraduate students at the Dental School pay uniform regular fees each term during the four years of the professional curriculum. Dental School fees for the academic year total \$256 per term for residents of Oregon and \$412 for nonresidents. There may also be special fees or deposits.

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

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

Special fees, deposits, and other instructional expenses are listed below:

Part-time fee (for students registered for 7 term hours or less), per term hour.....	\$22.00 (minimum \$44.00)
Summer-term clinic fee, six weeks.....	37.50
Auditor's fee:	
Lecture courses, per term hour.....	5.50
Laboratory courses, per term hour.....	8.50
Evaluation fee (not refundable).....	10.00
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 (per copy).....	1.00
Entrance deposit (not refundable after 30 days).....	75.00

### 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 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 \$75.00 entrance deposit, paid by the entering student on acceptance of application for admission, applies on first-term fees. If the applicant does not enter the Dental School, the deposit will be refunded no later than 30 days after receipt.

### Regulations Governing Nonresident Fees

A. A nonresident fee shall be paid (1) by an unemancipated student whose parent or legal guardian is domiciled outside of Oregon at the time of the student's registration and (2) by an emancipated student (i.e. a student over the age of 21 or a minor student whose domicile is independent of that of his parent or legal guardian) who is domiciled

## ADMISSION, SCHOLARSHIP AND FEES

outside of Oregon at the time of his registration, or whose domicile within Oregon does not satisfy the requirements of B (2) below ; except :

(a) A student who holds a degree from an accredited college or university unless such a student is pursuing a course of study leading to the degree of Doctor of Medicine or Doctor of Dental Medicine.

(b) A student attending a summer session of an institution under the board's control.

B. (1) A student whose nonresidential legal custodian moves to Oregon and establishes an Oregon domicile during a school term, shall be entitled to registration as a resident student at the beginning of the next term. When an emancipated student or the legal custodian of an unemancipated student changes his residence to another state during the school year, the student shall continue to be assessed the resident fee until the beginning of the fall term of the next school year. Thereafter, the student will be assessed the nonresident fee.

(2) An emancipated student (as defined above) who comes to Oregon to attend an institution under the board's control, and establishes an Oregon domicile, shall pay a non-resident fee unless he establishes his Oregon domicile at least six months prior to the time of his registration, and does not attend an institution under the board's control during any part of such six-month period ; provided, however, that an emancipated student who did not establish his Oregon domicile at least six months prior to his initial registration at an institution under the board's control, and who pays nonresident fees for an entire school year, may establish his domicile in Oregon for the purpose of paying resident fees in accordance with existing regulations.

(3) Residence, once established, is presumed to continue until such time as sufficient evidence is provided to refute the presumption.

C. (1) A student's parent or legal guardian, or an emancipated student, will be deemed to have established an Oregon domicile if he establishes and maintains a bona fide fixed and permanent residence in Oregon, with no intention of changing such residence to a place outside the state of Oregon when the school period expires. Factors that will be considered in determining if an Oregon domicile has been established are : abandonment of previous domicile, rental or purchase of a home, presence of family, presence of household goods, length of time in state, nature and permanence of employment, sources of financial support, ownership of property, place of voting, and payment of Oregon personal income taxes.

(2) The same test will be employed, and the same factors will be considered, in determining whether a resident who has moved has established a non-Oregon domicile.

(3) If an institution's records show that the domicile of a student's legal custodian, or of an emancipated student, is outside of Oregon, such student shall continue to be classified as a nonresident thereafter until entitlement to classification as a resident is shown, and the burden of proof will be upon the student to show that his classification should be changed.

(4) In the determination of the residence classification of any individual, recognition is to be given to the principle that domicile is not established by mere attendance at a college or university.

### **Books, Equipment, and Supplies**

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

## BOOKS AND SUPPLIES

	Books	Equip. and Supplies	Total
First year.....	\$350.00	\$1,500.00	\$1,850.00
Second year.....	325.00	825.00	1,150.00
Third year.....	175.00	125.00	300.00
Fourth year.....	75.00	150.00	225.00

The cost of books, equipment and supplies for each year represents minimum costs derived from required books and supplies schedules submitted by the several departments. Approximately \$150.00 additional expenditure for each of the first two years and \$250.00 for each of the last two years should be anticipated; this represents supplementary expenditures for replacing expendable supplies throughout the year and for voluntary purchase of supplementary supplies and equipment. Freshman dental students can expect to pay for two-thirds of the total freshman issue during the fall term. The sophomore issue is divided evenly over the three terms.

### *Summary of Enrollment, 1969-70*

	Men	Women	Total
First-year dental students .....	84	2	86
Second-year dental students .....	81	—	81
Third-year dental students .....	77	1	78
Fourth-year dental students .....	78	—	78
Total dental students .....	320	3	323
First-year dental hygiene students .....	—	33	33
Second-year dental hygiene students .....	—	34	34
Total dental hygiene students .....	—	67	67
Graduate students .....	20	—	20
Special students .....	4	—	4
Total Enrollment .....	344	70	414

# 3

## Programs of Study

### *Curricula: Undergraduate Program*

The purpose of the undergraduate curriculum leading to the D.M.D. degree is the education 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 a unified and integrated educational experience leading to professional objectives.

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; on clinical rounds he also observes applied principles and clinical procedures in periodontology, oral diagnosis, oral surgery, and dentistry for children. Study in the basic sciences, on the other hand, is placed throughout the four-year curriculum in close time relationship to clinical applications.

The application of basic sciences to diagnosis and treatment planning begins in overview in the freshman year and continues in formal lectures and conferences throughout the sophomore, junior, and senior years. Emphasis is placed on the prevention of dental diseases and on the treatment of patients' entire dental health needs, rather than on restorative operations alone.

Professional adjustment courses provide an understanding of humanitarian service to patients and the community by offering instruction in public health dentistry, dental psychology, social and economic problems of dental service, the history of dentistry, professional communication, ethics, jurisprudence of dental practice, dental practice management, viewpoints of professional leaders, and research methods. Although these are specifically professional courses, the student's background in the humanities and social sciences will be heavily relied on.

The curriculum is sufficiently flexible to allow, within certain limits, special learning experience 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.

Throughout the four 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. Within the

## UNDERGRADUATE PROGRAM

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 academic credit toward graduation is given for these clinics.

### Courses, Time, and Credit

First Year*	Clock units**					Credit hours
	Lec.	Conf.	Lab.	Clinic	Total	
PA 315 Civil Defense .....	11	....	....	....	11	Cr. Arr.
PA 401 Special Studies in Dental Psychology .....	....	11	....	....	11	Cr. Arr.
Pr 401 Preclin. Lecture, Dem. ....	....	....	11	....	11	Cr. Arr.
Pr 412, 413 Prosthetic Technic & Cl. ....	22	....	132	....	154	6
DM 411 Dental Materials .....	11	....	33	....	44	2
Op 418 Operative Technic Lab. ....	22	....	....	....	22	2
Op 419 Operative Technic Lab. ....	....	....	66	....	66	2
An 419 General Gross Anatomy and Embryology .....	33	....	99	....	132	6
An 417 General Histology .....	22	....	60	....	82	4
An 418 Oral Histology .....	22	....	38	....	60	4
PA 311 Professional Adjustment .....	11	....	....	4	15	1
PA 312 Professional Writing .....	5	....	....	....	5	1
PA 313 Professional Adjustment .....	....	....	....	4	4	....
PA 314 Dental Sociology & History .....	11	....	....	....	11	1
Per 414 Oral Hygiene .....	11	....	....	....	11	1
Per 415, 416 Oral Prophylaxis .....	....	....	....	22	22	1
BCh 411, 412 Biochemistry .....	66	22	33	....	121	7
Phy 418 Physiology .....	22	....	33	....	55	3
Phy 419 Physiology .....	22	....	33	....	55	3
CB 411 Dental Anatomy .....	11	....	....	....	11	1
CB 412 Dental Anatomy .....	....	....	33	....	33	1
CB 413 Dental Anatomy .....	11	....	....	....	11	1
CB 414 Dental Anatomy .....	....	....	33	....	33	1
CB 415 Dental Anatomy .....	....	....	33	....	33	1
Mb 413 Microbiology .....	44	....	44	....	88	6
<b>TOTALS</b> .....	<b>357</b>	<b>33</b>	<b>681</b>	<b>30</b>	<b>1101</b>	<b>55</b>

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

An 416. Microtechnic. 11 clock units lecture, 33 clock units laboratory. 2 credit hours.

An 423. Human Genetics. 11 clock units lecture. 1 credit hour.

An 424. Essentials of Histochemistry. 11 clock units lecture. 1 credit hour.

PA 401. Special Studies: Principles of Learning and Instruction (Dental Education). 11 clock units lecture. 1 credit hour.

St 401, 402, 403. Introduction to Statistical Reasoning. 30 clock units lecture and discussion. 3 credit hours.

\*\* A clock unit is defined as a 45-minute period for lectures or conferences and a 50-minute period for laboratories and clinics.

### Second Year\*

Second Year*	Clock units					Credit hours
	Lec.	Conf.	Lab.	Clinic	Total	
†Mb 428 Principles of Immunity .....	11	....	....	....	11	1
DM 421, 422 Dental Materials .....	33	....	....	....	33	3
Pedo 429 Pedodontic Technic .....	....	....	44	....	44	1
Ord 428 Orthodontic Technic .....	....	....	33	....	33	1
CB 420, 421, 422 Crown & Bridge Technic .....	....	....	198	....	198	6
Pr 423 Prosthetics Conf. & Lab. ....	....	22	44	....	66	2
Op 420 Operative Technic Lec. ....	11	....	....	....	11	1
Op 421 Operative Technic Lab. ....	....	....	66	....	66	2
Op 423 Operative Technic Lec. ....	....	11	....	....	11	1
Op 424 Operative Technic Lab. ....	....	....	44	....	44	2
Op 428 Operative Clinic .....	....	....	....	33	33	....
An 421 Head and Neck Anatomy .....	28	....	66	....	94	5

† Offered 1969-70 only.

# PROGRAMS OF STUDY

	Clock units*					Credit hours
	Lec.	Conf.	Lab.	Clinic	Total	
Pth 420, 421 Pathology .....	44	....	110	....	154	7
Ro 420, 421, 422 Oral Radiology .....	22	....	15	....	37	3
OS 421 Local Anesthesiology .....	11	....	....	11	22	1
OS 422 Local Anesthesiology and Surgical Techniques .....	....	....	....	22	22	2
Endo 437 Endodontics .....	11	....	22	....	33	2
Per 420 Oral Prophylaxis Technic .....	....	....	33	....	33	1
Per 421 Oral Prophylaxis Clinic .....	....	....	....	15	15	1
Per 423 Principles of Periodontology .....	11	....	....	....	11	1
Phy 420 Physiology .....	22	....	33	....	55	3
Pedo 422, 423 Child Development and Dental Care .....	44	....	....	....	44	4
OD 429 Oral Diagnosis and Treatment .....	11	....	....	....	11	1
<b>TOTALS</b> .....	<b>259</b>	<b>33</b>	<b>708</b>	<b>81</b>	<b>1081</b>	<b>51</b>

- \* In addition to required courses, the following elective courses are offered for second-year students:
- An 423. Human Genetics. 11 clock units lecture. 1 credit hour.
  - PA 401. Special Studies: Scientific Photography and Illustration. 11 clock units lecture. 1 credit hour.
  - St 401, 402, 403. Introduction to Statistical Reasoning. 30 clock units lecture and discussion. 3 credit hours.

	Clock units*					Credit hours
	Lec.	Conf.	Lab.	Clinic	Total	
<b>Third Year*</b>						
Ord 431, 432 Orthodontics .....	22	....	....	....	22	2
PA 430 Professional Writing .....	....	5	....	....	5	1
PA 432 Dental Jurisprudence and Case Studies .....	11	....	....	....	11	1
PA 433 Professional Adjustment .....	11	....	....	....	11	1
PA 436 Professional Viewpoints .....	11	....	....	....	11	1
Pr 430 Principles of Clinical Prosthesis .....	11	....	....	....	11	1
CB 430 Principles of Crown and Bridge .....	11	....	....	....	11	1
CB 436 Ceramics .....	11	....	33	....	44	2
Op 430 Principles of Clinical Operative Dentistry .....	11	....	....	....	11	1
Pedo 431 Pedodontics .....	11	....	....	....	11	1
OS 438 General Anesthesiology .....	11	11	....	....	22	1
**Mb 430 Microbiology .....	33	....	44	....	77	5
PD 430 Caries Prevention .....	11	....	....	....	11	1
OD 430 Oral Diagnosis and Treatment .....	11	....	....	....	11	1
OD 439 Clinical Conference .....	....	11	....	....	11	1
PD 435 Nutrition .....	11	....	....	....	11	1
Med 439 Principles of Medicine .....	11	....	....	....	11	1
OS 430, 431, 432 Oral Surgery .....	22	....	....	22	55	3
Per 431 Periodontology .....	11	....	....	....	11	1
Per 639 Periodontology Clinic .....	....	....	....	30	30	1
Pth 434, 435 Pathology .....	22	....	44	22	88	5
Phc 438 Pharmacodynamics I .....	33	....	22	....	55	4
Pr 633, 634, 635 Prosthetic Clinical Practice .....	....	....	....	177	177	4
Op 633, 634, 635 Operative Clinical Practice .....	....	....	....	165	165	4
Endo 630 Endodontic Clinical Procedures .....	....	....	....	33	33	1
OS 630 Oral Surgery Clinical Practice .....	....	....	....	26	26	1
CB 630, 631, 632 Crown and Bridge Clinical Practice .....	....	....	....	141	141	3
Pedo 630, 631, 632 Pedodontic Clinical Practice .....	....	....	....	86	86	2
PD 630 Nutrition Clinic .....	....	....	....	22	22	1
OD 437, 438 Clinical Conference .....	....	33	....	....	33	2
Ro 630 Oral Radiology Clinic .....	....	....	....	30	30	1
<b>TOTALS</b> .....	<b>297</b>	<b>60</b>	<b>143</b>	<b>754</b>	<b>1254</b>	<b>56</b>

- \* In addition to required credits, the following elective courses are offered for third-year students:
- Pedo 441. Cleft Palate Rehabilitation. 11 clock units lecture. 1 credit hour.
  - Work in applied experimental science under one of the departmental Special Studies Number (401). 22 clock units laboratory. 1 credit hour.
  - An 423. Human Genetics. 11 clock units lecture. 1 credit hour.
  - PA 401. Special Studies: Scientific Photography and Illustration. 11 clock units lecture. 1 credit hour.
  - St 401, 402, 403. Introduction to Statistical Reasoning. 30 clock units lecture and discussion. 3 credit hours.

\*\* Not offered after 1970-71.

## UNDERGRADUATE PROGRAM

Fourth Year*	Clock units					Credit hours
	Lec.	Conf.	Lab.	Clinic	Total	
PA 401 Special Studies in Dental Psychology .....	11	....	....	....	11	Cr. Arr.
PA 443 Professional Adjustment .....	11	....	....	....	11	1
PA 446 Professional Viewpoints .....	11	....	....	....	11	1
PA 445 Dental Ethics and Case Studies .....	11	....	....	....	11	1
PA 447 Comprehensive Examination in Professional Adjustment .....	....	2	....	....	2	1
PD 440 Public Health Dentistry .....	22	....	....	....	22	2
Prd 442 Orthodontic Conference .....	....	22	....	....	22	1
Pr 440 Principles of Clinical Prosthesis .....	11	....	....	....	11	1
CB 441 Principles of Crown & Bridge .....	11	....	....	....	11	1
Pedo 440 Pedodontic Conference .....	....	15**	....	....	15**	1
OS 444 Hospital Dentistry and Oral Surgery Lecture ....	....	....	....	11	11	1
OS 644 Hospital Dental Clinic .....	....	....	....	22	22	1
Ped 443, 444, 445 Hospital Clinics .....	....	....	....	18‡	18‡	1
Ph 445, 441 Pathology .....	11	11	22	....	44	3
Ped 440, 442 Principles of Medicine .....	22	....	....	....	22	2
OS 440 Clinical Surgery .....	11	....	....	....	11	1
Per 440 Periodontology .....	11	....	....	....	11	1
Per 640 Periodontology Clinic .....	....	....	....	30	30	1
Phc 440 Pharmacodynamics II .....	22	11	....	....	33	2
Phc 445 Special Problems in Oral Pharmacodynamics....	11	....	....	....	11	1
OD 642 Oral Diagnosis Clinic .....	....	....	....	66	66	1
OD 440, 441 Clinical Conference .....	....	33	....	....	33	2
Pr 643, 644, 645 Prosthetic Clinical Pract. ....	....	....	....	122	122	2
Op 643, 644, 645 Operative Clinical Pract. ....	....	....	....	352§	352§	9
CB 640, 641, 642 Crown and Bridge Clinical Practice ....	....	....	....	178¶	178¶	6
Endo 640 Endodontic Clinical Procedures .....	....	....	....	22	22	1
Pedo 640, 641, 642 Pedodontic Clinical Practice .....	....	....	....	74	74	2
Ro 640 Oral Radiology Clinic .....	....	....	....	22	22	1
OD 640 Nutrition Clinic .....	....	....	....	22	22	1
<b>TOTALS .....</b>	<b>176</b>	<b>79</b>	<b>22</b>	<b>969</b>	<b>1246</b>	<b>50</b>

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

- DM 442. Dental Materials. 11 clock units lecture. 1 credit hour.
  - PA 401. Special Studies: Applied Experimental Science. 22 clock units laboratory. 1 credit hour.
  - PA 401. Special Studies: Scientific Photography and Illustration. 11 clock units lecture. 1 credit hour.
  - Pedo 442. Cleft Palate Rehabilitation. 11 clock units lecture. 1 credit hour.
  - PA 401. Special Studies: Psychiatry of the Patient. 11 clock units conference. Credit hours arranged.
  - PA 442. Practice Management. 11 clock units lecture. 1 credit hour.
  - Med 451, 452, 453. Advanced Principles of Medicine. Hours to be arranged.
  - An 445. Applied Anatomy. 11 clock units conference. 1 credit hour.
  - St 401, 402, 403. Introduction to Statistical Reasoning. 30 clock units lecture and discussion, 3 credit hours.
  - Op 440. Principles of Clinical Operative Dentistry. 11 clock units lecture. No credit.
- \* Included in Op 643, 644, 645 clock unit totals.  
 Not offered after 1969-70.  
 Included in Op 643, 644, 645 clock unit totals.  
 Includes 18 clock units hospital clinics, 15 clock units pedodontic conferences, and 5 clock units prosthetic exercises.  
 Includes 4 clock units prosthetic exercises.

Recapitulation	Clock units					Credit hours
	Lec.	Conf.	Lab.	Clinic	Total	
First Year .....	357	33	681	30	1101	55
Second Year .....	259	33	708	81	1081	51
Third Year .....	297	60	143	754	1254	56
Fourth Year .....	176	79	22	969	1246	50
<b>TOTALS .....</b>	<b>1089</b>	<b>205</b>	<b>1554</b>	<b>1834</b>	<b>4682</b>	<b>212</b>

## PROGRAMS OF STUDY

### *Graduate Programs*

Two graduate programs are offered at the Dental School. Graduate work leading to the Master of Science degree is offered for students planning careers in dental education and research. A certificate program leading to the Graduate Certificate is offered to graduate dentists preparing for practice in the several specialties. Holders of graduate degrees in the basic sciences are allowed one year of credit by some specialty boards toward specialty requirements.

Master of Science programs have been arranged in the fields of anatomy, microbiology, biochemistry, dental materials, oral pathology, orthodontics, pedodontics, pharmacology, physiology, and operative dentistry-dental materials. Certificate programs are offered in the fields of oral pathology, orthodontics, pedodontics and periodontics. Supplementary courses carrying graduate credit are offered in biostatistics, crown and bridge, and general education. A special program is available for dentists who wish advanced education in the public health aspects of dentistry and the epidemiology of dental disease. The duration of a specific program will vary, depending on the background of the student and the requirements of the major department. The minimum duration of a specific program may be ascertained by consulting the major department chairman.

Inquiries about the graduate program and requests for application forms should be addressed to the Registrar. Completed applications and supporting documents such as transcripts of previous educational records, and application fees should be filed with the Registrar by a date designated by the department concerned.

#### **Admission to Graduate Status**

For admission to graduate study, the applicant must hold an acceptable professional degree or a B.A. or B.S. degree from an accredited college or university. He must also have the recommendation of the chairman of the Dental School department concerned and the approval of the Graduate Committee.

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

All applicants for admission to graduate study at the Dental School are required to pass such qualifying examinations prior to matriculation as may be specified by the Graduate Committee of the Dental School. These examinations may include the aptitude part of the Graduate Record Examination (administered by the Educational Testing Service several times each year in most universities of the United States and in many foreign cities by special arrangement) or a special examination dealing with the basic sciences prepared by the Dental School. Foreign students may be required to take the Test of English as a Foreign Language administered by the Educational Testing Service.

Applications for graduate status as a part-time student will be considered only under special circumstances.

#### **Admission to Candidacy for a Graduate Degree**

Admission to graduate status does not in itself entitle a student to become a candidate for a graduate degree. Admission to candidacy for a degree is granted only after the student has demonstrated the thoroughness of his preparation and his ability to do work of graduate character by successfully passing a qualifying examination. Application for the qualifying examination is made upon the recommendation of the Dental School department concerned. A student enrolled in the certificate program may apply at any time for candidacy for the M.S. degree when he has fulfilled the above requirements.

### Requirements for a Graduate Degree

(1) *Residence:* Academic residence is established by registration as a graduate student in the Dental School. To qualify for the M.S. degree, the student must have spent a minimum of four academic terms in residence as a graduate student and have taken a minimum of 36 credit hours of work at the Dental School. A graduate student who has been admitted for work toward a graduate degree is required to enroll in the Dental School each term during the regular academic year from the time of first enrollment until the completion of all degree requirements. His enrollment is either as a student in residence or as a student on leave of absence. All work leading to the M.S. degree must be completed within seven years of initial registration.

(2) *Duration of Candidacy:* A student working for the M.S. degree must be a candidate for the degree for at least one academic term.

(3) *Graduate Courses:* Subject to departmental approval, courses which may be credited toward the graduate degree are 500 series or 400 G series courses. Courses in the 600 series, designed to develop advanced clinical specialty skills, are not allowable for credit toward the graduate degree.

(4) *Hours of Graduate Work Required:*

(a) For the M.S. degree, at least 30 hours of academic credit are required in the major and 15 credit hours in a minor of one or more related fields. Not more than 11 of the major hours may be in 501 and 503 courses.

(b) A full-time course load is 12 hours per term. Graduate students employed as assistants or teaching fellows may not register for more than 12 credit hours per term.

(c) Not more than 15 hours of acceptable graduate credit may be transferred from an institution other than the University of Oregon. The grade in these courses must be A or B.

(d) Courses taken at any school of the University of Oregon are not considered transfer courses but may be used to fulfill the basic hour requirements.

(e) The major department may require certain prerequisite courses. The grades in these courses, as well as all elective courses, will be shown on the transcript in parentheses and will not count toward the 45-hour requirement for the masters degree. However, these grades will be included in determining the grade-point average.

(f) Requirements in addition to the basic minimum requirements may be imposed by the major department.

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

(6) *Oral Thesis Examination:* An oral examination covering the subject of the thesis is required.

### Requirements for a Graduate Certificate

The same requirements for the M.S. program apply to the certificate program with the following exceptions:

(1) *Residence:* same.

## PROGRAMS OF STUDY

(2) *Duration of Candidacy*: not applicable.

(3) See (4).

(4) *Hours of Graduate Work Required*:

(a) For the Graduate Certificate, at least 30 hours of academic credit in 400G and 500 series courses are required and 15 credit hours in 600 series courses or an equivalent in hospital training. Of the 30 hours in 400G or 500 courses, not less than 8 hours must be taken outside the major department.

(b) Same.

(c) Same.

(d) Same.

(e) Same.

(f) Same.

(5) *Thesis Requirement*: The student enrolled in the certificate program may be required by the major department involved to prepare a written report of a short study of a research nature. This is not to be confused with the M.S. thesis which is based on a more comprehensive investigative effort.

(6) *Oral Thesis Examination*: not applicable.

### Standards of Performance

For the M.S. degree only courses passed with A or B in the major field will be credited; in the minor field, credit is granted for courses in which the student receives a grade of C or better.

For certificate programs, all courses with grades of C or better will be credited. For both M.S. and certificate programs, the student must maintain an overall grade-point average of B or better for each academic year.

Graduate students enrolled in 400G courses are expected to perform scholastically at a higher level than undergraduate students in the same course; special work may be assigned at the discretion of the instructor.

### Fellowships

A limited number of fellowships for graduate students planning careers in teaching and research is available under U.S. Public Health Service graduate training programs.

### Fee Schedule Per Term

Graduate students in the basic sciences .....	\$167.00
Graduate students in the basic sciences employed as graduate assistants, research assistants, or fellows .....	47.00
Graduate students in clinical curricula :	
Orthodontics, residents .....	254.00
Orthodontics, nonresidents .....	390.00
Other clinical areas, residents .....	214.00
Other clinical areas, nonresidents .....	350.00
Graduate students in clinical curricula employed as graduate assistants, research assistants, or fellows .....	99.00
Part-time fee (for students registered for 7 term hours or less) per term hour .....	\$17.00 (minimum \$34.00)

### *Continuing Education*

The continuing education program offered by the Dental School provides an opportunity for the dentist to further his professional education during his years of practice. The Continuing Education program includes: (1) year-long courses which meet once a month and have a membership organization similar to a study club; (2) courses which vary in length from one day to two weeks. The courses are announced several times each year through brochures mailed to all alumni and dentists in the Northwest area. The length of course, names of instructors, course content and tuition fee information are included in each announcement.

The department also has a program which presents short, half-day courses once a month in areas outside Portland. This makes it possible for dentists in other areas of the state to take the equivalent of a lecture type study club in general dentistry. Such classes will be presented in any area where there is a demand.

The Dental School also presents year-long courses in general dentistry in which the student may select one field such as crown and bridge or operative dentistry as a major interest. These courses are of special value to foreign students or graduates of American schools who need a general refresher course.

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

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

# 4

## Description of Courses

### ANATOMY

*Professors:* **Ellis B. Jump** (department chairman), **Myron D. Tedford**.

*Associate Professors:* **Morris E. Weaver**, **Robert Quinton-Cox**.

*Assistant Professor:* **Gerald H. Prescott**.

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

An 416. **Microtechnic.** 2 credit hours spring. (Elective)

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

An 417. **General Histology.** (G) 4 credit hours winter.

First year. The structural elements of tissues and organs considered systematically, with special attention to criteria of normality, in preparation for later courses in pathology. Lectures, 22 clock units; laboratory, 60 clock units. Drs. Quinton-Cox, Jump, Weaver, Mr. Tedford.

An 418. **Oral Histology.** (G) 4 credit hours spring.

First year. Histological structure of the hard and soft tissues of the mouth; provides basic understanding essential for work in operative dentistry and oral diagnosis. Special emphasis on modes of development of all oral structures. Individual student projects introduce the student to current dental literature and to basic investigative technics. Lectures, 22 clock units; laboratory, conference, seminar, 38 clock units. Drs. Weaver, Jump, Prescott, Mr. Tedford.

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

First year. General anatomy of the trunk and extremities. Conducted by means of lectures, demonstrations, and dissection of the human body. The systemic and functional approach is emphasized, rather than the traditional regional approach. The sequence presents the fundamental facts about the body on which other preclinical and clinical sciences, such as physiology, biochemistry, pathology, and pharmacology, depend. Lectures, 33 clock units; laboratory, conference, and self-dependent study, 99 clock units. Mr. Tedford, Drs. Jump, Quinton-Cox, Prescott, Weaver.

An 421. **Head and Neck Anatomy.** (G) 5 credit hours winter.

Second year. Anatomy of the head and neck. Intensive study of the head and neck, from both regional and systemic points of view. A survey of neuro-anatomy stressing the major conducting pathways and reflex centers is included. Clinical applications stressed. Lectures, 28 clock units; laboratory, 66 clock units. Drs. Jump, Prescott, Quinton-Cox, Mr. Tedford.

An 423. **Human Genetics.** 1 credit hour spring. (Elective)

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

An 424. **Survey of Histochemistry.** 1 credit hour spring. (Elective)

An elective course open to all students. Weekly lectures present a survey of the principles and applications of histochemical methodology. Students consider examples of histochemical studies for interpretation of the interrelationship of morphology, biochemistry, and histochemistry. Background in histology and biochemistry desirable. Prerequisite—consent of instructor. 1 clock unit. Dr. Quinton-Cox.

An 445. **Applied Anatomy.** 1 credit hour. (Elective)

Fourth year. A topographical review of the applied anatomy of the oral region. Clinical application of anatomical relationships. Student panel presentations are followed by group discussion of the significant anatomical considerations and problems in dental practice and diagnosis. Conference 11 clock units. Dr. Jump.

**Graduate Courses**

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

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

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

An 518. **Advanced Oral Histology.** Credit to be arranged.

Study of the histology of periodontal structures in man and experimental animals with special reference to tooth movement and alveolar bone. Drs. Buck, Jump. Prerequisite: An 418, 525, and consent of instructor.

An 519. **Advanced Microtechnic.** Credit to be arranged.

A laboratory course to develop interpretive skill and critical selection in standard procedures of tissue preparation. Fixation techniques; perfusion, immersion, freeze-drying, freeze-substitution; embedding and sectioning techniques for paraffin, celloidin, and carbo-wax; preparation of frozen sections and ground sections; a variety of staining methods. Prerequisite: Consent of instructor. Drs. Quinton-Cox, Weaver.

An 521. **Advanced Anatomy.** Credit to be arranged.

Discussion and experience in the basic methods used in anatomical investigation. Detailed study of the nervous system of the head and neck. Other selected problems explored in accordance with special interests of students. Prerequisite: An 417, An 419, An 421 or equivalent; consent of instructor. Staff.

An 523. **Advanced Human Genetics.** Credit to be arranged.

Introduction to statistical genetics and population studies; application of basic theories of clinical genetics. Prerequisite: An 423 or equivalent. Lectures, conference, laboratory. Dr. Prescott.

An 524. **Histochemistry.** Credit to be arranged.

A lecture and laboratory course to develop interpretive skill and critical selection of standard histochemical procedures. Tissue preparation, sectioning methods, methods for the demonstration of enzymes, proteins, carbohydrates, lipids, nucleic acids, and other cellular constituents will be investigated both theoretically and practically. Prerequisite: An 416, 417, BCh 411, 412 or equivalent, consent of instructor. Dr. Quinton-Cox.

An 525. **Microscopy.** Credit to be arranged.

History of the bright-field microscope, principles of optics and lens design, description of the various types of light microscopes and their advantages, and basic consideration for photomicrography will be presented. Dr. Quinton-Cox.

## DESCRIPTION OF COURSES

### BIOCHEMISTRY

*Professor:* **C. Keith Claycomb** (department chairman).

*Associate Professors:* **Walter L. Gabler, Dean C. Gatewood.**

*Clinical Associates:* **Fletcher Skillern, James E. Pinardi.**

*Research Assistant:* **Ethel S. Polonoff.**

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

**BCh 411, 412. Biochemistry.** (G) 4, 3 credit hours, fall and winter.

First year. An introduction to tissue biochemistry emphasizing cellular constituents and the molecular level. The principal anabolic and catabolic pathways are discussed in conjunction with the physical-chemical and homeostatic mechanisms which regulate these processes. Lectures, 66 clock units; conference, 22 clock units; laboratory, 33 clock units. Drs. Claycomb, Gabler, Pinardi, Skillern, Mr. Gatewood.

### Graduate Courses

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

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

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

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

Cellular biochemistry, with special emphasis on roles of carbohydrates, fats, and proteins in dynamics of intermediary metabolism as regulated by enzymes and hormones in both normal and pathological states. Prerequisites: BCh 411, 412. (Offered only for three or more students). Department staff.

### BIOSTATISTICS

*Professor:* **Kuo Hwa Lu** (department chairman).

*Adjunct Professor:* **Robert W. Rempfer.**

*Instructor:* **Lewis Van Winkle.**

**St 401, 402, 403. Introduction to Statistical Reasoning.** 1 credit hour fall, winter, spring.

Hours to be arranged. (Elective)

A survey course with emphasis on intuitive understanding of statistical principles and their application in dentistry. Proper use and misuse of statistics, descriptive measures, normal distribution, estimation, tests of hypotheses, simple linear regression and correlation. Mr. Van Winkle.

### Graduate Courses

**St 430. Statistical Analysis I.** (G) 3 credit hours fall.

Frequency distribution and graphical presentation. Measures of central tendency and dispersion. Properties of the normal variable, the binomial variable, and the normal approximation of the binomial. Types of errors, tests of hypotheses concerning the differences between means and variances. Confidence limits, enumeration statistics.

**St 511. Statistical Analysis II.** 3 credit hours winter.

Simple linear regression and correlation, multiple regression, partial and multiple correlations. Cause-effect system analysis. Simple analysis of variance and covariance. Principle of least squares estimation. Poisson distribution and Poisson approximation of the binomial, nonparametric statistics.

## CROWN AND BRIDGE

*Professor:* **William A. Richter** (department chairman).

*Associate Professors:* **Clarence O. Pruitt, James W. Grenfell, Hiroshi Ueno.**

*Assistant Professors:* **J. Darold Brown, Ronald L. Drennan, Harry C. Holmes.**

*Instructors:* **Robert E. Bowles, John W. Harris.**

*Clinical Associate:* **Arthur Schwartzenhauer.**

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

**CB 411. Dental Anatomy.** 1 credit hour fall.

First year. Introduction to dental nomenclature; study in detail of functional tooth contours of permanent dentition in relation to supporting structures. Lectures, 11 clock units.

**CB 412. Dental Anatomy.** 1 credit hour fall.

First year. The student develops functional tooth contours of the crowns of individual teeth by adding inlay wax to prepared stone dies. Laboratory, 33 clock units.

**CB 413. Dental Anatomy.** 1 credit hour winter.

First year. Continuation of study in detail of the functional tooth contours of permanent dentition; study of pulpal morphology and tooth contours of deciduous dentition. Lectures, 11 clock units.

**CB 414. Dental Anatomy.** 1 credit hour winter.

First year. Student continues to develop tooth contours on the crowns of individual teeth. Laboratory, 33 clock units.

**CB 415. Dental Anatomy.** 1 credit hour spring.

First year. The student restores the functioning occluding surfaces of teeth on casts oriented on a semi-adjustable articulator, with attention to stresses in the various functioning mandibular movements. Laboratory, 33 clock units.

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

Second year. Crown and bridge prosthodontics. Lectures, demonstrations, and laboratory procedures for fixed partial restorations. 198 clock units.

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

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

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

Third year. Construction of jacket crowns, porcelain inlays, and porcelain bonded to gold. Lectures, 11 clock units; laboratory, 33 clock units.

**CB 630, 631, 632. Crown and Bridge Clinical Practice.** 1 credit hour each term.

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

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

Fourth year. Correlated with fourth-year clinical restorative problems. Lectures and demonstrations, 11 clock units.

**CB 640, 641, 642. Crown and Bridge Clinical Practice.** 2 credit hours each term.

Fourth year. Continuation of crown and bridge clinical treatment. Emphasis given to hinge-axis correlation and occlusion consideration.

### Graduate Course

**CB 505. Reading and Conference.** 2 credit hours each term.

Dr. Richter.

## DESCRIPTION OF COURSES

### DENTAL MATERIALS SCIENCE

*Professor: David B. Mahler* (department chairman).

*Associate Professor: John C. Mitchem.*

*Senior Research Assistants: Jan Van Eysden, Jerome D. Adey.*

*Instructor: Robert E. Bowles.*

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

**DM 411. Dental Materials.** 2 credit hours fall.

First year. Introduction to dental materials. Gypsum materials, impression materials, synthetic resins, cements, amalgam, and gold alloys. Lectures, 11 clock units; laboratory, 33 clock units. Dr. Mitchem.

**DM 421, 422. Dental Materials.** (G) 1 credit hour fall, 2 credit hours winter.

Second year. Presentation of the fundamental nature and behavior of dental materials as they relate to their clinical usage; evaluation of manipulative procedures for achievement of optimum results. Lectures, 33 clock units. Dr. Mahler.

**DM 442. Dental Materials.** (G) 1 credit hour spring. (Elective)

Fourth year. Discussion of problems concerned with the usage of dental materials; alternate and new materials and technics not presented in the dental curriculum. Lectures, 11 clock units. Dr. Mahler.

### Graduate Program in Dental Materials

The primary objective of the graduate program in dental materials is to provide training for teaching and research careers in the fields of dental materials and restorative dentistry. The program consists of course work in dental materials and related physical sciences. The program, which may be completed in seven terms or twenty-two months, is open to candidates with either a dental degree or a B.S. degree. The requirements for the graduate degree may be found on page 35. Applications for fall term enrollment will be accepted no later than June 1 of the same year. This program will be offered for three or more students.

### Graduate Courses

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

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

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

**DM 511, 512, 513. Advanced Dental Materials.** 2 credit hours each term.

Fundamental mechanisms and theories behind the behavior of dental materials presented on an advanced level. Evaluation of significant research findings. Prerequisite: DM 421, 422 or equivalent. Lectures and conferences, 66 clock units. Dr. Mahler

**DM 521, 522, 523. Specification Testing.** 2 credit hours each term.

American Dental Association Specification Tests conducted. Analysis of the correlation of these tests to the clinical requirements of dental materials. Laboratory, 132 clock units. Drs. Mahler, Mitchem.

**DM 531. Dental Materials.** 3 credit hours spring.

This course, designed for graduate students in orthodontics and pedodontics, deals primarily with physical concepts and materials pertinent to these dental specialties. Enrollment limited to nonmajors in dental materials. Dr. Mahler.

## ENDODONTICS

*Associate Professor:* **Robert F. Watkins** (department chairman).

*Clinical Associates:* **Walter R. List, Donald B. Wilson.**

*Clinical Assistants:* **Roger I. Amiton, Kenneth L. Baird, Richard R. Peterson.**

**Endo 437. Endodontics.** 2 credit hours spring.

Second year. Diseases of dental pulp and periapical tissues; principles of prevention and treatment. Emphasis on the value of preservation of strategic teeth with diseased pulp; methods of preservation of the teeth without detriment of the patient's health. Lectures, 11 clock units; laboratory, 22 clock units. Drs. Watkins, Wilson, List, Baird, Amiton, Peterson.

**Endo 630. Endodontic Clinical Practice.** 1 credit hour fall, winter, spring.

Third year. Clinical application of principles and techniques taught in endodontic lecture and technique course. The student completes the endodontic treatment of single-rooted teeth under instructor guidance. Each student must complete a minimum number of operations by the end of the school year. Drs. Watkins, Wilson, List, Baird, Amiton.

**Endo 640. Endodontic Clinical Procedures.** 1 credit hour fall, winter.

Fourth year. A continuation of Endo 630. The student completes endodontic procedures of multi-rooted teeth under instructor guidance. Drs. Watkins, Wilson, List, Baird, Amiton, Peterson.

## GENERAL EDUCATION

*Professors:* **George E. Batterson** (department chairman), **Robin A. Drews, James E. Kelly.**

*Associate Professor:* **Eugene W. Bauer.**

*Clinical Associate:* **William W. Howard.**

*Clinical Assistants:* **Frank Nettleship, William Creighton.**

*Assistant Professors:* **William Banaka, George T. Carver, Robert Donnell, Steven Goldstein, Darwin R. Reveal, Leif Terdal.**

*Lecturers:* **R. Evan Kennedy, Patrick Kaye, Robert Burns, Don H. Marmaduke, Herbert Watts, Richard Hanson, Alex Parks, Clayton Gross, Berne Howard, Irl Clary.**

**DE 505. Reading and Conference: Principles and Practices of the Dental Educator.** Hours to be arranged.

An overview of principles and practices for effective dental teaching, including fundamentals of learning, curriculum construction, university teaching and professional school evaluation. Selected reading, seminars with resource personnel, assistant teaching in selected departments, observation, special projects. Minimum of 22 clock units of didactic work, including lecture and conference. Additional hours of reading and conference or teaching workshop to be arranged. Mr. Batterson, staff.

**PA 311. Professional Adjustment.** 1 credit hour fall.

First year. The ideals of the dental profession: Its aims, purposes, public and individual responsibilities. The objectives of the dental curriculum. Introduction to the use of the Library and other Dental School facilities. Introduction to social, economic, and political issues facing the dental profession. Dental psychology introduced with emphasis on effective human relations, interpersonal communication, self-evaluation and evaluation of the feelings of others. Student self-dependent study through a human relations' workshop and programmed instruction supplemented by a series of student-instructor patient interview sessions. Lectures and laboratory learning.

## DESCRIPTION OF COURSES

11 clock units; clinical orientation\*, 4 clock units. Drs. Howard, Goldstein, Mr. Batterson and staff.

**PA 312. Professional Writing.** 1 credit hour winter.

First year. Methods by which dental information is obtained from published sources; evaluation of writing; methods of effective expression; with particular reference to writing of scientific, technical, case history, socio-economic and historical reports. Course requirements include the writing of a paper, the topic chosen from the fields of dental sociology, psychology, dental history, basic or dental science. Lectures and illustrations, 5 clock units; workshop conferences between student and staff. Mr. Batterson, staff.

**PA 313. Professional Adjustment.** 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 observe case history taking, diagnostic procedures, and treatment planning. Clinical orientation,\* 4 clock units. Clinical staff.

**PA 314. Dental Sociology and History.** 1 credit hour winter.

First year. Introductory study of selected sociological trends having importance for dental and medical service, followed by a historical perspective of salient developments in dental, medical, and scientific progress that have relevance for interpreting contemporary professional objectives and actions. Lectures and student report programs, 11 clock units; supplemented by student-instructor workshop conferences. Mr. Batterson, Drs. Banaka, Creighton, Kelly.

**PA 315. Civil Defense.** Credit to be arranged spring.

First year. Practical disaster relief leadership and organization, preparing the dental student for administrative service in times of national disaster, such as earthquake, fire, flood, major catastrophes, or war. Students must demonstrate ability to accept organizational and leadership roles for disaster relief methods, including the emergency hospital, emergency shelter, planning a disaster relief program in the community and for understanding emergency first aid procedures. Lectures, demonstrations, and disaster relief projects. 11 clock units. Mr. Kennedy, Mr. Batterson, Mr. Burns and resource personnel.

**PA 401. Special Studies in Dental Psychology.** Credit to be arranged winter.

First year. An introduction to socio-psychology with selected application for the dentist. Interview technics, socio-psychology research, conditioning adult and child behavior, public image of the dentist, communication of "bad news." The mentally retarded, emotional and motivational problems of the aging, the effects of social, educational, economic and emotional problems on the life-style of the family and how attitudes toward health care are affected. Adjustive technics utilized by individuals in personal relations with others. Continued study of dentist's patient communication begun in PA 311. Lecture, conferences, 11 clock units. Drs. Goldstein, Banaka, Terdal; Mr. Batterson, coordinator.

**PA 401. Special Studies in Dental Psychology.** Credit to be arranged spring.

Fourth year. Senior students, in personal conference with the psychologist and the dental school staff apply through patient and self-analysis the principles of human relations, interpersonal communication and basic human adjustive technics and ethics introduced in PA 311 and PA 401 (Freshman year). 11 clock units, human relations conference. Drs. Banaka, Goldstein, Terdal, and members of the medical and dental school faculty chosen from the departments of medical psychology and psychiatry and dental school diagnosis and treatment staff. Dr. Howard, Mr. Batterson, coordinators.

**PA 401. Special Studies: Principles of Learning and Instruction.** 1 credit hour winter. (Elective)

First year. Guiding principles of learning and education, with implications and applications in dental education, objectives, principles, and methods of teaching, course building and evaluation, dental curricula, seminar, conference, units. Mr. Batterson, dental school faculty.

## GENERAL EDUCATION

**PA 401. Psychiatry of the Patient.** Credit hours arranged. (Elective)

Fourth year. An elective course for seniors who wish to reinforce their understandings of basic human adjustive technics operational with abnormal or disturbed persons as seen and treated by the psychiatrist. Consideration is also given to the doctor's maintenance of personal mental health. Lecture and conference, 11 clock units. Mr. Batterson, coordinator. (Not offered 1970-71.)

**PA 401. Special Studies: Scientific Photography and Illustration.** 1 credit hour spring. (Elective)

Second, third, and fourth years. Means by which photography and illustrations may be helpful in dental practice; principles of photographic optics; choice of camera and equipment; techniques in photography and darkroom; intra-oral and dental patient photography. Use of photography in scientific publications and dental clinics. Lectures, demonstrations. 11 clock units. Mr. Carver; Mr. Batterson, coordinator.

**PA 430. Professional Writing.** 1 credit hour winter.

Third year. A follow-up professional writing workshop in conference with course instructor. Topics include the area of interpersonal, social, community relations, professional problems of organized dental societies, selected aspects of dental education, basic and clinical science measures in general practice, continuing education, socio-economic problems facing the patient and the dentist and trends in practice management. The format for writing must meet the basic guidelines for effective professional writing stressed in PA 312, Professional Writing, freshman year. Student papers are evaluated by appropriate staff. 5 clock units. Mr. Batterson, Dr. Howard, staff.

**PA 432. Dental Jurisprudence and Case Studies.** 1 credit hour spring.

Third year. The objective is to provide the dental student with a thorough and functional understanding of the relationship of dental law and jurisprudence in the ethical and legal conduct of general practice. In addition to logical presentation of topics by means of lectures, case examples are drawn from problems and progress of the dental profession through the professional understanding of dental jurisprudence and of law's role among members of the dental profession. The experience of ethics, public relations, jurisprudence, and grievance committees of state and local dental societies used for illustration. Lectures and case studies. 11 clock units. Dr. Howard, Mr. Marmaduke.

**PA 442. Practice Management.** 1 credit hour spring. (Elective)

Fourth year. The course is primarily concerned with dental practice economics including investments, bookkeeping and other records, financing of equipment purchases and other office costs, estate planning and government reports. Lectures, visual aids, guest speakers, including dental school faculty. Lectures, 11 clock units. Dr. Howard, Mr. Bauer, Mr. Reveal, staff.

**PA 433. Professional Adjustment.** 1 credit hour spring.

Third year. Primarily concerned with the organization of a new general practice; practical consideration given to office design, practice efficiency, operational costs, factors determining the location of a practice, utilization of auxiliary personnel, recall system and patient charts, fee payment plans. Lectures, 11 clock units. Dr. Howard and members of the profession and dental school staff.

**PA 445. Dental Ethics and Case Studies.** 1 credit hour fall.

Fourth year. Objective is to develop judgment on matters relating to dental ethics, and an attitude of responsibility toward moral obligations incurred by members of the dental profession. Subject matter includes general problems and goals of organized dentistry at various levels of local, state, and national action. Lectures, 11 clock units. Dr. Howard.

**PA 436. Professional Viewpoints.** 1 credit hour spring.

Third year. The course emphasizes personnel management and group practice experience among dental practitioners in the Portland-Vancouver community. Selected, for example, are those from specialty group practice, (orthodontics) hospital associate group practice, and practice representing association with the physician. Seniors

## DESCRIPTION OF COURSES

in committees visit and report on selected practices. Personnel administration stresses employment, inservice development, morale building and interpersonal relations between professional colleagues. 11 clock units. Dr. Howard, Mr. Batterson, members of the dental profession, and dental school staff.

- PA 447. **Comprehensive Examination in Professional Adjustment.** 1 credit hour winter.  
Fourth year. 2 clock units. Mr. Batterson and staff. (Not offered 1970-71).

## MICROBIOLOGY

*Professor:* **Richard B. Parker** (department chairman)

*Assistant Professor:* **Howard R. Creamer**

*Instructor:* **Beverly J. Watkins**

*Research Assistants:* **William Harold, Marjory Gardner**

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

Mb 413. **Microbiology.** 6 credit hours spring.

First year. An introductory course in general, medical and oral microbiology including general principles of microbiology, the role of microbes in infectious process and the mechanisms of host immune responses. Special emphasis is given to a consideration of known and postulated mechanisms leading to selected oral disease. Laboratory exercises: methods of pure culture study; staining; identification procedures; lactobacillus counts and Snyder tests. Demonstrations: growth and death curves; products of metabolism; sterilization and disinfection. Lectures, 44 clock units; laboratory, 44 clock units. Staff.

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

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

Mb 430. **Microbiology.** (G) 5 credit hours fall.

Third year. The principles of bacteriology, with special attention to diseases associated with the mouth. Utilization of the general principles of bacteriology in clinical practice. Laboratory exercises on: methods of pure culture; morphology, physiology, and serology as a basis for classification; problems of sterilization and disinfection; diagnostic procedures ordinarily used by the dentist in practice; representative pathogenic bacteria. Lectures, 33 clock units; laboratory, 44 clock units. Staff.

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

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

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

\*\*Mb 511. **Advanced Bacteriology.** 5 credit hours.

Microbiology, systematic bacteriology, nature and structures of the bacterial cell, growth of microorganisms, physiologic and genetic processes which regulate cellular activity and bacterial interaction. Laboratory studies of immunological methods, techniques of measuring cellular activities, enzymatic procedures, bacterial classification, and evaluation of antimicrobial substances. Staff.

OPERATIVE DENTISTRY

*Professors:* **Kenneth R. Cantwell** (department chairman), **Louis G. Terkla.**

*Associate Professor:* **Gordon R. Vincent.**

*Assistant Professors:* **Jack Clinton, Gary T. McGaughey.**

*Clinical Associates:* **Ray J. Davis, E. Robert Quinn, John A. Wagoner, Albert F. Macho.**

*Clinical Assistants:* **Jolanta Bokums, William Dugan, Norman Davis, John Hall, Gerald C. Klein, Wendell H. McLin, Kaye P. Nichols, Stephen R. Cook, Samuel J. Higdon, David C. McMorine, Frank W. Nettleship, Thomas A. Walker.**

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

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

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

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

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

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

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

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

Second year. The student continues to prepare cavities and employ all restorative materials. Cavity preparations are more detailed than in the first year, and are performed entirely on extracted human teeth, mounted in the jaws of a manikin; the use of the mouth mirror and imitation of actual patient conditions are stressed; all preparations, insertions, and finishes, are performed in limited time periods. The air turbine handpiece is used to prepare all posterior cavities. Laboratory, 66 clock units. Drs. Vincent, Dugan, Nichols, Higdon, Bokums.

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

Second year. Moisture control during operative procedures; criteria of selection of restorative materials, comparisons between materials; protection of the vital pulp, cavity liners, bases, drugs, iatrogenic problems; clinic orientation, patient management, pain control, treatment planning, chair positions. Lectures, 11 clock units. Dr. Vincent.

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

Second year. The student continues to prepare and restore cavities on extracted human teeth mounted in the jaws of a manikin. More complex and demanding situations are practiced, including overlays in cast gold, and compacted gold variations. The air turbine handpiece is used where indicated. Regular practice rubber dam application on models and on other students is provided. All procedures are performed within specified time limits, including an approach to quadrant dentistry. Weekly seminars utilizing current literature references provide exercise in application of judgment to decision making in operative dentistry. Laboratory, 44 clock units. Drs. Vincent, Dugan, Nichols, Higdon, Bokums.

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

Second year. Introduction to clinical routine. The student applies the rubber dam on

## DESCRIPTION OF COURSES

a fellow student for two clinical periods. He then receives his first patient and, after completing the history, diagnosis, and treatment plan, begins restorative procedures. The student is in charge of the administration of local anesthetic to his patient, and may perform any operation designated on the treatment plan. Clinic, 33 clock units. Drs. Vincent, Wagoner, Klein, Cook, McMorine, Nettleship, Walker.

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

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

**Op 633, 634, 635. Operative Clinical Practice.** 1 credit hour each term, fall and winter, 2 credit hours spring.

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

**Op 440. Principles of Clinical Operative Dentistry.** Elective, no credit, winter.

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

**Op 643, 644, 645. Operative Clinical Practice.** 3 credit hours each term.

Fourth year. A continuation of Op 633, 634, 635. Clinical demonstrations are arranged for the students during the fall term. Emphasis is placed on the student's ability to produce a creditable operation in a reasonable length of time. In a series of practical examinations given during the spring term, the student places a specific restoration with which he receives no advice nor help from an instructor. Drs. Cantwell, Terkla, Davis, McGaughey, Clinton, McLin, Hall.

### Graduate Courses

Application for fall term enrollment will be accepted no later than April 1 of the same year. This program will be offered for three or more students.

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

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

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

## ORAL BIOLOGY

*Professor:* **Richard B. Parker** (division chairman).

*Associate Professors:* **Walter L. Gabler, Oscar N. Lucas.**

*Assistant Professor:* **Gerald H. Prescott.**

**OB 511, 512, 513, 514. Dynamics of Oral Systems.** 12 credit hours, fall, winter, spring and summer.

A multidisciplinary course in the basic science areas with emphasis in correlating these basic areas to clinical dentistry. The course is divided into the following units: cell biology, epithelium, soft tissue, inflammation and wound healing, bone and teeth, saliva and salivary glands, and neuromuscular mechanisms.

## ORAL DIAGNOSIS

*Professors:* **Arthur E. Fry** (department chairman), **Arnol R. Neely**, **H. Cline Fixott**.

*Clinical Associate:* **John V. Krippaehne**.

*Associate Professors:* **Robert P. Gray**, **Frank M. Wilson**.

*Assistant Professor:* **Robert Sheridan**.

*Instructor:* **Alene L. Prairie**.

*Clinical Assistants:* **Ray W. Hart**, **Louis A. Jansky**, **Curtis W. Boulet**, **Mike Holman**, **Terrence Orton**.

*Research Associate in Clinical Dentistry:* **Nilkanth M. Phatak**.

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

Emphasis on preventive dentistry.

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

Second year. Case histories, detailed clinical examination, use of laboratory diagnostic aids with emphasis on preventive dentistry. As class preparation, students are assigned to observe diagnostic and treatment planning procedures in the diagnostic clinic. They participate by assisting with patient charting and by listening to the recorded discussions of case history factors in question. Students are called on for ten-minute presentations of problems they have encountered in clinical practice. Lectures, 11 clock units. Drs. Wilson, Neely, Fry, Gray, Mousseau.

**OD 437. Clinical Conference.** No credit winter.

Third year. Through independent study, the student prepares a comprehensive case history—diagnosis and treatment materials, illustrative models, and a written report in preparation for presentation of the complete analysis in OD 433. Student preparation, 11 clock units. Drs. Neely, Fry, Gray, Wilson, staff.

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

Third year. Students present complete case-history factors for selected diagnosis and treatment problems. On the basis of the presentation, the class constructs a diagnosis and treatment plan that will assure the patient effective and complete dental health service. The student presenting the clinical case history must justify the reason for arriving at a given diagnosis and treatment plan. The student provides a written case history, plaster models, radiograms, and other aids to diagnosis and treatment planning. The presentation is made to entire junior class and to faculty representatives of both the clinical and the basic science departments. Clinical conferences and demonstration, 22 clock units, Drs. Neely, Fry, Gray, Wilson, staff.

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

Third year. Student-faculty clinical conferences concerning patient case histories chosen for their teaching value. Conference, 11 clock units. Drs. Fry, Gray, Neely, Wilson, and staff.

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

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

**OD 441. Clinical Conferences and Applied Therapeutics.** 2 credit hours winter.

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

## DESCRIPTION OF COURSES

plan for treatment. Conference, 22 clock units. Drs. Fry, Gray, Neely, Wilson, clinical and science staffs, visiting consultants.

**OD 642. Oral Diagnosis Clinic.** 1 credit hour.

Fourth year. Practice in diagnosis and establishment of tentative treatment plans, presented for review by instructors; 33 clock units. Independent treatment in the emergency diagnosis clinic; the student comes to a decision concerning the cause of pain and how the pain should be relieved, and renders the care needed for the relief of pain; instructors function only as consultants (patients requiring exodontic procedures are referred to the Oral Surgery Department); 33 clock units; total 66 clock units. Oral Diagnosis staff.

## ORAL RADIOLOGY

*Professors:* **H. Cline Fixott** (department chairman), **Arnol R. Neely**.

*Instructors:* **Terrence Hegstrom**, **Margie P. Hurley**.

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

**Ro 420, 421. Oral Radiology.** 1 credit hour each term, winter and spring.

Second year. Physical principles involved in the production of Roentgen rays, radiation dangers, and protection. Technic of making roentgenograms of the teeth and oral cavity. Processing, interpretation, and care of films. Diagnostic and therapeutic applications of radiology in dentistry. Lecture and demonstration, 22 clock units. Drs. Fixott, Neely, Hegstrom, Mrs. Hurley.

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

Second year. Clinical application of oral radiology technics. Laboratory, 15 clock units. Drs. Fixott, Hegstrom, Mrs. Hurley.

**Ro 600. Advanced Radiology.** (G) Credit to be arranged.

Represents advanced radiology research and professional application concepts offered for undergraduate and graduate dental students.

**Ro 630. Oral Radiology Clinic.** 1 credit hour spring.

Third year. Clinical application; technic and interpretation. Drs. Fixott, Hegstrom, staff.

**Ro 640. Oral Radiology Clinic.** 1 credit hour spring.

Fourth year. Drs. Fixott, Hegstrom, staff.

## ORAL SURGERY

*Professors:* **Wilbur N. Van Zile** (emeritus), **John P. Jarabak**.

*Associate Professors:* **Ralph G. Merrill** (department chairman), **Theodore Jastak**, **Frank M. Wilson**.

*Assistant Professors:* **Christ Bouneff**, **David G. Fleetwood**.

*Clinical Associates:* **Jan J. Muller**, **Robert R. Siddoway**, **Eugene O. Kelley**, **Donald Sperry**, **Robert L. Landis**, **Robert S. Parker**, **Joseph E. Tyler**, **Jay T. Estep**.

*Clinical Assistants:* **Peter Werner**, **Derrick Rohlfling**.

*Instructor:* **Alice Kelty**.

**OS 312. Medical Emergency Procedures.** 2 credit hours winter.

Lectures and demonstrations coordinated with physiology and anatomy to introduce and describe; emergency equipment, supplies, drugs, signs and symptoms, pulmonary and cardiac resuscitation, special wounds, burns and skeletal injuries. Laboratories to develop understanding and skills to perform duties as part of a team in school, office, clinic, hospital and convalescent home emergencies. Instruction includes the standard and advanced Red Cross First Aid Program for certificates.

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

**OS 421. Local Anesthesiology.** 1 credit hour winter.

Second year. Pain and its control with local anesthetic agents. Patient medical evaluation and management for local anesthesia. Pharmacology of local anesthetic agents. Diagnosis, prevention and treatment of local and systemic complications of local anesthesia.

**OS 422. Local Anesthesiology and Surgical Technique.** 2 credit hours spring.

Second year. Clinical demonstration and practical experience in local anesthetic administration. Use of pre- and post-operative medication. Sterile technic. Instrumentation related to intraoral surgical procedures. Orientation to clinical and administrative departmental procedures. Demonstration and practical experience in emergency resuscitative procedures including diagnosis, treatment and prevention.

**OS 430, 431, 432. Oral Surgery.** 1 credit hour each term.

Third year. Principles of oral surgery, and the application of these principles to the practice of dentistry. Instruction in the diagnosis and in the surgical and adjunctive treatment of the diseases, injuries, and defects of the teeth, jaws, and associated structures. Lectures and demonstrations, 33 clock units; clinic, 22 clock units minimum (additional hours by arrangement).

**OS 438. General Anesthesiology.** 1 credit hour spring.

Third year. Principles of general anesthesia and nitrous-oxide-oxygen relative analgesia. Methods and agents employed for ambulatory anesthesia and relative analgesia and for hospital general anesthesia. Demonstration and practical experience in the use of nitrous-oxide-oxygen relative analgesia. 22 clock units.

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

Fourth year. Advanced oral and maxillofacial surgery. Lectures, 11 clock units.

**OS 444. Hospital Dentistry and Oral Surgery Lecture.** 1 credit hour fall.

Fourth year. Introduction to hospital procedures and decorum and to the practice of dentistry in the hospital. Management of surgical bleeding.

**OS 630. Oral Surgery Clinical Practice.** 1 credit hour spring.

Third year. Oral surgery staff.

**OS 640. Oral Surgery Clinical Practice.** 1 credit hour spring.

Fourth year. Oral surgery staff.

**OS 644. Hospital Dentistry Clinic.** 1 credit hour.

Fourth year. Practical experience and observation in the care of ambulatory patients as well as those requiring treatment in the operating rooms under general anesthesia. Professional relationships in the hospital, procedures for admission of patients, laboratory procedures, pre- and post-operative orders and maintaining medical records. Rotations include one day each at the VA Hospital, Doernbecher 14-A Pediatrics, and the Medical School Dental Out-Patient Clinic. 22 clock units.

**OS 511-516 (inclusive). Pathophysiology.** 1 credit hour each term for two consecutive years.

Multidisciplinary approach for the teaching of disease, its mechanisms and management. Weekly lectures, conferences and seminars include subject material from all basic medical sciences integrated with clinical pathology and diagnostic medicine. 66 clock hours total.

## DESCRIPTION OF COURSES

### ORTHODONTICS

*Professor: Ernest H. Hixon* (department chairman).

*Associate Professor: Douglas L. Buck.*

*Clinical Associates: Laurel Brown, William B. Cory, LeRoy Goodwin, Paul Klein, Jay Nelson, Cyril O'Brien.*

*Clinical Assistant: Kenneth Nanson.*

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

Ord 428. **Orthodontic Technic.** 1 credit hour winter.

Second year. Presentation of the technical skills necessary to fabricate simple tooth-movement appliances. Includes exercises in wire bending, soldering, fabrication of fixed space maintainers and removable tooth movement appliances, preparation of dental study casts. Laboratory, 33 clock units. Staff.

Ord 431, 432. **Orthodontics.** 1 credit hour fall and winter.

Third year. Etiology and diagnosis and malocclusions; indications for the timing of treatment; tissue changes incident to tooth movement; the nature of tooth movement; tooth-moving appliances and orthodontic prognosis. Lectures, 22 clock units. Drs. Buck, Hixon.

Ord 442. **Orthodontic Conference.** 1 credit hour.

Fourth year. Presentation of clinic cases, discussion and integration of orthodontic theory and mechanisms. Conference, 22 clock units. Staff.

### Graduate Programs in Orthodontics

#### Graduate Certificate Program

The 21-month certificate program provides extensive training in the clinical and theoretical aspects of orthodontics. The curriculum includes orthodontic theory, laboratory, clinical experience, statistics and elective courses to give 30 credit hours of graduate credit (courses in the 500 series) and 35 hours of specialty training (600 series courses). Instruction is through conferences and seminars which permit integration of concepts, diagnostic methods, and clinical treatment. The program leads to the Graduate Certificate which signifies that the requirements for specialization have been met.

#### Degree Program

The graduate program, leading to the Master of Science degree, offers an opportunity to engage in research in addition to obtaining specialty training.

Admission to graduate studies and requirements for a graduate degree are found on pages 34-35. Applications for fall term enrollment will be accepted no later than December 15 of the preceding year.

#### Graduate Courses

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

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

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

Ord 511, 512, 513. **Advanced Orthodontic Theory.** Credit to be arranged.

Seminars dealing with etiology, analysis, and therapy concepts of malocclusion.

Ord 650. **Clinical Practice.** Credit to be arranged.

Ord 655. **Case Analysis and Treatment Planning.** Credit to be arranged.

**PATHOLOGY (General and Oral)**

*Professors:* **Norman H. Rickles** (department chairman), **Robert J. Bruckner**, **William B. Wescott**.

*Associate Professor:* **Murray H. Bartley, Jr.**

*Clinical Associates:* **Peter B. Hutchinson**, **Milton H. Johnson**.

*Assistant Professors:* **LeGrand H. Woolley**, **Charles C. Thompson**.

*Instructor:* **Norma K. Smith**.

*Research Assistants:* **Susan H. Fahey**, **Michael J. Fleming**, **Aurelia J. Allen**.

*Teaching Fellow:* **Gladys Underwood**.

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

**Pth 420, 421. Pathology (General and Oral).** (G) 4 credit hours fall, 3 credit hours winter.

Second year. An introduction to general pathological principles. Major emphasis on concepts of health and disease, abnormalities of growth and development, circulatory and metabolic disturbances, degenerative changes, inflammation, and neoplasia. Principles learned in general pathology are applied at once to the oral cavity, as well as to selected examples of disease in other organ systems. Introduction to disorders of the oral region is thus made concurrently with the study of general pathology. Effects of disease demonstrated by means of gross specimens, lantern slides, and motion pictures. Certain disease processes demonstrated in laboratory animals. Autopsies observed by arrangement. Lectures, 44 clock units; laboratory, 110 clock units.

**Pth 434, 435. Pathology (General and Oral).** (G) 2 credit hours fall, 3 credit hours winter.

Third year. Continuation of the study of special pathology, including diseases of the oral and para-oral structures which are essentially local in nature. Consideration of diseases of the skin, muscular, nervous and skeletal systems, including the TMJ articulation with special emphasis on oral manifestations. Laboratory tests and methods utilized as aids in diagnosis. Clinical roentgenographic, microscopic and laboratory findings correlated for each disease. Lectures, 22 clock units; laboratory, 66 clock units.

**Pth 445, 441. Pathology (General and Oral).** (G) 2 credit hours winter, 1 credit hour spring.

Fourth year. Emphasis is on application of knowledge previously acquired. Stress is placed on differential diagnosis of oral lesions and oral lesions related to systemic disease. Continuation of special pathology, including diseases of the skin, nervous and musculoskeletal system. Lectures, 11 clock units; conference, 11 clock units; laboratory, 22 clock units.

**Graduate Program in Oral Pathology**

Graduate work in oral pathology, leading to the Master of Science degree, is designed to enable the advanced student to: (1) become competent in the clinical, microscopic, and laboratory diagnosis of oral disease; (2) obtain experience in teaching oral pathology; and (3) conceive, design, and execute a meaningful research project.

A three-year program is planned to accomplish these objectives. One year is spent in a full resident capacity in the Department of Pathology of the University of Oregon Medical School, where the student takes his regular turn with his medical colleagues on the autopsy and surgical pathology services and attends conferences and seminars.

Two years are spent in the Department of Pathology of the University of Oregon Dental School, where the student takes advanced courses in oral pathology and related subjects, eaches under supervision, does research leading to a thesis, and participates in seminars, conferences, and ward rounds.

## DESCRIPTION OF COURSES

Arrangements may be made with the Pathology Department to obtain a Graduate Certificate in Oral Pathology. Under the certificate program a thesis is not required but other didactic requirements comparable to the Master of Science program must be completed.

### Graduate Courses

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

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

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

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

Designed to elucidate in specific detail the basic pathological processes, with special reference to inflammation, degeneration, and neoplasia. Emphasis on evaluation of original work pertaining to these subjects. Practical application of principles by correlations of histological slides with the clinical manifestation of various lesions. Prerequisites: Pth 423, 434, 445; Pth 420, 421, 422; or equivalent; or consent of Pathology Department. Drs. Rickles, Bruckner, Wescott, staff.

OPth 514, 515, 516. **Advanced Oral Pathology.** Credit to be arranged.

## PEDODONTICS

*Professors:* Donald R. Porter (department chairman), Duane R. Paulson.

*Associate Professor:* John S. Gullikson.

*Clinical Associates:* Leonard Boeder, Donald F. Kelly, Walter R. Lindsay, Evelyn Strange, John P. Thomas, Keith Hansen.

*Assistant Professors:* Richard J. Mathewson, Allan R. Pike, Lee E. Emery, Arthur E. Metzloff, Edward S. Sterling.

*Instructor:* Janice Ishida.

*Graduate Fellow:* Douglas Fox.

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

Pedo 422, 423. **Child Development and Dental Care.** 1 credit hour winter, 3 credit hours spring.

Second year. Background for assessment of children's problems and programming of remedial and preventive care with emphasis on basic concepts of physical and psychological growth presented in the light of variation of the normal and rationale of oral treatment procedures. Lectures, 44 clock units. Drs. Hixon, Paulson, Mathewson.

Pedo 429. **Pedodontic Technic.** 1 credit hour spring.

Second year. Laboratory training in techniques utilized in care and guidance of the developing dentition of children including restorative, and pulp treatment procedures. An introduction to elementary diagnosis, preventive, and restorative procedures through clinical experience with a child patient. Laboratory, 44 clock units. Dr. Pike and staff.

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

Third year. A treatment of factors which affect behavior of children presented for dental care, and consideration of guidelines useful in modifying responses of the child in the dental environment. Lectures, 11 clock units. Staff and guest lectures.

Pedo 630, 631, 632. **Pedodontic Clinical Practice.** No credit fall; 1 credit hour each term, winter and spring. Third year.

Pedo 440. **Pedodontic Conference.** 1 credit hour fall.

Fourth year. A critical review of concepts and basis for treatment approaches published in the current literature pertinent to clinical problems arising in the provision

of dental care for children. The five three-hour conferences are limited to groups of ten students. Dr. Paulson and staff.

Pedo 640, 641, 642. **Pedodontic Clinical Practice.** No credit fall; 1 credit hour each term, winter and spring.

Fourth year. An Honors Program is substituted in the spring term for Pedo 642 for students who have demonstrated outstanding achievement in the previous terms. The student may elect to participate in one of the following programs: (a) the regular clinic with assignment of a patient(s) with more complex problems; (b) the graduate in-patient and out-patient hospital clinics; (c) the dental program of the mental retardation clinic of Crippled Children's Division of the Medical School; (d) the dental clinic at Fairview Home for the Retarded in Salem; (e) the graduate pedodontic clinic for special assignments; (f) the graduate orthodontic clinic for observation and conferences; (g) research activities or (h) practice teaching.

Pedo 442. **Cleft Palate Rehabilitation.** 1 credit hour winter. (Elective).

Third and fourth years. Presentation of cleft palate rehabilitation as a team approach by participating specialists. Emphasis on the role of the dentist in providing effective service for the cleft palate child at the community level; rationale for and construction of speech appliances. Student participation in preparation and fabrication of velopharyngeal obturator. Prerequisite: Pedo 630, 631. 11 clock units. Dr. Mathewson and staff.

## Graduate Programs in Pedodontics

### Certificate Program

The certificate program in pedodontics is 21 months in duration on a full-time basis. The objective of the program is to prepare graduate dentists to competently provide for the oral health needs of children. A thorough understanding of growth and development, preventive measures, and an appreciation for the special problems of the chronically ill and the mentally and physically handicapped are essential to meet this end. Emphasis is placed on the evaluation of scientific methodology to encourage the student to contribute to his own as well as his profession's advancement.

Conferences and seminars emphasize correlations with allied fields, evaluation of diagnostic methods, and rationalization of treatment principles. The conferences are supported by laboratory and clinical programs.

The students participate in hospital rounds and conferences to integrate the principles of medicine with the complete dental care of the child and to gain experience in the performance of services for the hospitalized patient. Students also participate in the teaching approach utilized in the care of the cleft palate child. Problems of cerebral palsied, paralytic, mentally retarded, and other handicapped children are evaluated and oral treatment provided.

The program leads to a graduate certificate which signifies that the educational requirements of the American Board of Pedodontics have been met.

### Degree Program

The objective of the Master of Science program in pedodontics is to provide research training and experience in addition to the specialty training. Admission to candidacy for the Master of Science degree may be sought upon completion of two terms of the certificate program. This admission is granted upon satisfactory performance on the preliminary examination of the Graduate Committee.

Admission to graduate studies and requirements for a graduate degree are found on pages 34-35. Students should plan to spend a minimum of 36 months to complete all requirements.

## DESCRIPTION OF COURSES

### Graduate Courses

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

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

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

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

Pedo 517, 518, 519. **Basis for Care of the Child Patient, I.** 3 credit hours.

Pedo 520, 521, 522. **Basis for Care of the Child Patient, II.** 3 credit hours.

Six terms of conferences focusing on the individual child with systemic disease and emphasizing the abnormal physiology and the medical treatment in relation to the oral manifestations and supervision of oral health.

Pedo 650. **Advanced Pedodontic Clinic.** Credit to be arranged.

Application of treatment principles discussed in conferences and seminars in relation to diagnosis and direction of complete oral health. Emphasis on rehabilitation of oral health for preschool, cleft palate and handicapped ambulatory children. Clinical application of advanced restorative, interceptive orthodontic, endodontic, surgical and prosthetic procedures as well as the nutritional and preventive aspects of child care.

Pedo 655. **Case Analysis and Treatment Planning.** Credit to be arranged.

Practice in the analysis of study casts, radiographs, clinical records, laboratory tests and other case findings and the coordination of these findings into a rational plan of treatment. Review of pre-treatment and longitudinal post-treatment records of patients to allow an evaluation of treatment services.

Pedo 656. **Hospital Clinic.** 3 credit hours.

Clinical experience on pediatric wards in care of inpatients providing familiarization with hospital procedure as well as intimate association with various diseases of children and in provision of care in hospital operating rooms.

Pedo 657. **Pediatric Residency.** 6 credit hours.

One quarter residence in out-patient clinic. Dental treatment for well and chronically ill children. Multidisciplinary approach to total health care.

Pedo 658. **Crippled Children's Clinic.** 5 credit hours.

One quarter residence at the Crippled Children's Division of the Medical School with emphasis on an integrated team approach to total care programs for various handicapping conditions of children. Active participation in interdisciplinary clinic. Experience in dental rehabilitation of severely handicapped children and familiarity with community services caring for these children. Special emphasis on dental care of the mentally retarded child.

## PERIODONTOLOGY

*Professor:* **Herbert B. Laffitte** (department chairman).

*Associate Professors:* **Wellesley H. Wright** (director, graduate programs), **Stephen M. Clark.**

*Assistant Professors:* **Joseph Schwartz, Richard R. Ranney.**

*Clinical Associate:* **Thomas Merchant.**

*Clinical Assistant:* **Richard K. Stowell.**

*Instructors:* **Emory Hamilton, Frederick Judy, Clay E. Wilcox.**

Per 401. **Special Studies.** Credit to be arranged. (Elective)

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

First year. Basis for, and principles of utilization of oral hygiene.

## PERIODONTOLOGY

- Per 415, 416. **Periodontal Preventive and Control Technique.** 1 credit hour each winter and spring.  
First year. Introduction to clinical application of scaling, curetting polishing and oral hygiene procedures.
- Per 420, 421. **Scaling and Curettage.** 1 credit hour each fall and spring.  
Second year. Continuation of procedures for definitive control and treatment of periodontal disease.
- Per 423. **Principles of Periodontology.** 1 credit hour spring.  
Second year. Normal, pathological, etiology, and clinical features of periodontal disease.
- Per 431. **Periodontology.** 1 credit hour fall.  
Third year. Demonstration-lecture of techniques to be utilized in general dental practice.
- Per 639. **Periodontology.** 1 credit hour, fall, winter, spring.  
Third year. Clinical application of preventive and treatment procedures.
- Per 440. **Periodontology.** 1 credit hour, fall, winter, spring.  
Fourth year. Seminar sessions in sections for discussion of clinical problems, and enlargement in areas of therapy.
- Per 640. **Periodontology.** 1 credit hour, fall, winter, spring.  
Fourth year. Clinical application of treatments with emphasis on patient recall and observation.

### Graduate Programs in Periodontology

Training programs for both certificate and master's degree are available.

- Per 501. **Research.** Credit to be arranged.
- Per 505. **Reading and Conference.** Credit to be arranged.  
Individual participation and critical analysis of required reading.
- Per 511, 512, 513, 514, 515, 516. **Advanced Periodontology.** 2 credit hours fall, winter, spring, each year.  
Broad in depth understanding of epidemiology, etiology, prevention, and diagnosis of periodontal disease.
- Per 517, 518, 519. **Occlusion of Natural Dentition.** 2 credit hours each term fall, winter, spring.  
First year. Presents the rationale for diagnosis and therapy of occlusal problems in the adult dentition.
- Per 607. **Periodontology Practice Administration Seminar.** Credit to be arranged.  
Acquaints the student with various administrative procedures that are particularly applicable to the specialty practice of periodontics.
- Per 650. **Advanced Periodontology Clinic.** Credit to be arranged.  
Development of clinical skills and application of therapeutic methodology based upon current biologic knowledge.
- Per 655. **Case Analysis and Treatment Planning.** Credit to be arranged.  
Designed to analyze diagnostic problems and plan appropriate therapy for patients with periodontal disease.
- Per 655. **Case Analysis and Treatment Planning—Restorative Dentistry and Periodontology.** Credit to be arranged.  
Analysis of diagnostic and treatment problems which require the integration of restorative dentistry and periodontal techniques.
- Per 655. **Case Analysis and Treatment Planning—Endodontics and Periodontology.** Credit to be arranged.

## DESCRIPTION OF COURSES

Analysis of diagnostic and treatment problems which require the integration of endodontic and periodontal techniques.

Per 655. **Case Analysis and Treatment Planning**—Periodontal Surgery. Credit to be arranged.

Designed to analyze the status of patients' periodontal disease in relation to the need for and selection of specific surgical techniques.

## PHARMACOLOGY

*Professor:* **Frederick F. Cowan** (department chairman).

*Assistant Professor:* **Edward H. Montgomery.**

*Instructor:* **Marjorie J. Boufford.**

*Clinical Assistant:* **Jolanta A. K. Bokums.**

*Research Assistant:* **Gloria Hubbard.**

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

Phc 438. **Pharmacodynamics I.** (G) 4 credit hours winter.

Third year. A study of the general principles of drug action and an introduction to drugs acting through the autonomic nervous system. Consideration also of the mechanism of action, efficacy and toxicity of each of the following drug classes: sedatives, hypnotics, psychopharmacological agents and analgesics. Emphasis is given to the development of rational drug use in dentistry. Laboratory experience to demonstrate basic concepts of drug action. Lectures, 33 clock units; laboratory, 22 clock units. Drs. Cowan, Montgomery, Bokums and Mrs. Boufford.

Phc 440. **Pharmacodynamics II.** (G) 2 credit hours fall.

Fourth year. Continuation of Phc 438. Consideration of mechanism of action, efficacy and toxicity of antimicrobial agents, anti-inflammatory steroids and non-steroids and those drug classes used by physicians in their treatment of chronic diseases in ambulatory patients, such as cardiac glycosides, antianginal agents, antihypertensive agents, anticoagulants, antiepileptic agents, insulin and oral hypoglycemic agents, thyroid and antithyroid agents, parathyroid agents, sex hormones and oral contraceptives. Emphasis is given to medical-dental drug interactions. Lectures, 22 clock units; conferences, 11 clock units. Drs. Cowan, Montgomery and Bokums.

Phc 445. **Special Problems in Oral Pharmacodynamics.** 1 credit hour winter.

Fourth year. Analysis of dental therapeutic problems of current interest. Consideration is given to dental specialty drugs, drugs used in dental office emergencies and the proper methods to be used by dentist in his evaluation of new therapeutic agents. Lectures, 11 clock units. Drs. Cowan and Montgomery.

## Graduate Courses

Phc 438 and 440 or equivalent are prerequisites to all courses in the Phc 500 series.

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

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

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

Phc 507. **Pharmacology Seminar.** Credit to be arranged any term.

Research progress reports are given by staff and students. Literature reviews of pertinent pharmacological subjects are presented. History of pharmacology is included. Conferences. Dr. Cowan and staff.

Phc 514. **Principles of Autonomic Pharmacodynamics.** 1 credit hour spring.

The current theoretical aspects of the mechanism of action of adrenergic and cholin-

ergic drugs are analyzed. Special emphasis is given to autonomic agents which exert their effects by releasing norepinephrine from adrenergic fibers. Conferences, 11 clock units. Dr. Cowan and staff.

**Phc 515. Principles of Cardiovascular Pharmacology.** 1 credit hour spring.

The mechanisms by which therapeutic agents alter peripheral circulation are studied. Special emphasis is given to the predictability of the over-all arterial blood pressure response to drugs. Conferences, 11 clock units. Dr. Cowan and staff.

**Phc 516. Principles of Respiratory Pharmacology.** 1 credit hour spring.

The effects of drugs and environment changes upon respiration are considered. Special emphasis is given to the relationship of drug action to the physiological functions of the carotid chemo- and baro-receptors. Conferences, 11 clock units. Dr. Cowan and staff.

**Phc 540. Advanced Pharmacology of Local Anesthetics.** 1 credit hour summer.

Selected problems concerning the tissue diffusion, systemic effects and toxicity of local anesthetics are studied. Conferences, 11 clock units. Dr. Cowan and staff.

**Phc 541. Advanced Experimental Pharmacology and Instrumentation.** 2 credit hours spring.

A limited number of graduate students and advanced dental students, as well as practicing dentists, are afforded an opportunity to acquaint themselves with a variety of advanced techniques used in pharmacological research. Conferences, 11 clock units; laboratory, 22 clock units. Dr. Cowan and staff.

**Phc 542. Advanced Pharmacology of Anti-Inflammatory Agents.** 2 credit hours spring.

The mechanisms of action of various agents altering inflammatory processes are studied. Special emphasis is given to the role of chemical mediators in various stages of inflammation and the effects of anti-inflammatory agents on the formation, pharmacological actions, and destruction of those mediators. Lectures, 11 clock units; conferences, 11 clock units. Dr. Montgomery and staff.

PHYSIOLOGY

*Professor:* Leonard H. Elwell (department chairman).

*Associate Professor:* Oscar N. Lucas.

*Instructor:* Marjorie J. Boufford.

*Teaching Fellow:* David L. Hess.

*Research Assistant:* Raymond Tsui.

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

**Phy 418. Physiology.** (G) 3 credit hours winter.

First year. Introduction to physiology; physiology of excitation, conduction, muscular contraction and activities of the nervous system including the special senses; the autonomic nervous system, followed by the pharmacology of the autonomic nervous system. Lectures, 22 clock units; laboratory, 33 clock units. Dr. Elwell, Mr. Hess and members of pharmacology department, Drs. Cowan, Montgomery.

**Phy 419. Physiology.** (G) 3 credit hours spring.

First year. Physiology of blood and the circulatory and respiratory activities of the body. Lectures, 22 clock units; laboratory, 33 clock units. Drs. Elwell, Lucas, Mr. Hess.

**Phy 420. Physiology.** (G) 3 credit hours fall.

Second year. Physiology of gastrointestinal tract, excretion, endocrine system. Lectures, 22 clock units; laboratory, 33 clock units. Drs. Elwell, Lucas, Mr. Hess.

## DESCRIPTION OF COURSES

### Graduate Courses

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

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

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

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

Special laboratory projects on advanced human and mammalian physiology. Applications of advanced techniques in the studies of organ or tissue activity; with special reference to nerve, muscle and circulatory function. Instruction by lecture, conference, and laboratory. Dr. Elwell, staff.

## PREVENTIVE DENTISTRY

*Professor:* **Demetrios M. Hadjimarkos** (department chairman).

*Assistant Professors:* **Norman DeJong, Doris A. Good, Thomas R. Shearer.**

*Instructor:* **Rosemary Roeder.**

*Clinical Assistant:* **Sue E. Sandoz.**

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

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

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

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

Third year. The principles of nutrition as applied to oral and general health. The lectures include discussions of: nutrient requirements, the biochemical basis for these requirements, dietary sources of the nutrients, and the disease effects of the excess or deficient intake of each nutrient. Lectures, 11 clock units. Dr. Shearer.

PD 440. **Public Health Dentistry.** 2 credit hours fall and winter.

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

### Graduate Courses

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

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

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

PD 515, 516. **Epidemiology of Dental Disease.** Credit to be arranged.

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

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\* A full-time course of training for one year is available under this course designation at the University of Bristol, England, under the direction of Dr. Declan J. Anderson, Professor of Oral Biology. This course covers methods and techniques used in current physiological research, and includes the techniques of electro physiology, electron microscopy and other biophysical and biochemical procedures. Credit to be arranged with a maximum of 15 credit hours.

## PRINCIPLES OF MEDICINE

PD 630. **Nutrition Clinic.** 1 credit hour.

PD 640. **Nutrition Clinic.** 1 credit hour.

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

## PRINCIPLES OF MEDICINE

*Clinical Associates:* James V. Woodworth, Estill N. Dietz, Leo J. Freiermuth, Donald F. Kelly.

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

Med 439, 440, 442. **Principles of Medicine.** 1 credit hour each term.

Third and fourth year. The course is designed to provide an understanding of the interrelationship of medicine and dentistry. Attention is given to the early recognition of clinical manifestations of systemic disease manifested in and about the oral cavity, head, and neck. Interpretation of laboratory reports in relation to both oral and systemic disease. Diabetes, cardiovascular and endocrine problems, drug allergies, collagenvascular disease, pregnancy, and neurologic problems as they affect the handling of patients in the dental office considered in detail. Treatment of office emergencies; how, when, and where to seek medical assistance; cooperation with members of the medical profession and interprofessional ethical relations. Lectures, 33 clock units. Dr. Woodworth.

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

Fourth year. Series of clinical clerkships utilizing the hospital facilities of the University of Oregon Medical School. Students have the opportunity of observing patients with disease entities discussed in Principles of Medicine and of considering these problems in consultation with members of the medical and dental profession. Clinic, 18 clock units. Drs. Woodworth, Deitz, Kelly.

## Graduate Course

Med 451, 452, 453. **Advanced Principles of Medicine.** (G) Hours to be arranged.

Designed to acquaint the graduate dentist with the broad range of medical problems of patients requiring dental care. The course is developed according to the needs of the students; includes seminars, ward teaching sessions, and lectures. Methods of basic physical diagnosis and evaluation of physical signs, historical data, and laboratory information. Emphasis on development of close relationship between medical and dental profession. Dr. Freiermuth.

## PROSTHETICS

*Professor:* Charles J. Stout (department chairman).

*Associate Professors:* John L. Devney, Robert L. Walsh, Thorn Kinersly.

*Clinical Associates:* Herbert A. Krumbein, Edgar Whitlock, Gerald Mock, Robert Faris, Walter Downey.

*Instructors:* Roy Carley, Stuart Bender, William Cruce, Robert Elkjer, David Dettman, Richard Peterson.

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

First year. A preclinical lecture demonstration course for orientation to bridge the

## DESCRIPTION OF COURSES

change from technic laboratory work to clinical procedures. Lectures and demonstrations, 11 clock units. Not offered 1970-71.

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

First year. Introduction to the sequence of successive clinical (simulated) and laboratory procedures relating to the construction of complete dentures. Lectures and demonstrations, 11 clock units; laboratory, 66 clock units. Drs. Krumbein, Mock, Kinersly, Carley.

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

First year. Continuation of Pr 412 including simulation of construction of immediate dentures. Lectures and demonstrations, 11 clock units; laboratory, 66 clock units. Dr. Krumbein, Mock, Kinersly, Carley.

**Pr 423. Prosthetic Conference and Laboratory.** 2 credit hours spring.

Second year. Lectures and laboratory demonstrations involving: 1) Principles of partial denture design including surveyor analysis and mouth preparation; 2) Continuation of Pr 413 concepts of occlusion and equilibration; 3) Simulation of transitional denture construction. Conferences, 22 clock units; laboratory, 44 clock units. Drs. Devney, Walsh, Kinersly, Krumbein, Carley, Mock.

**Pr 430. Principles of Clinical Prosthetics.** 1 credit hour fall.

Third year. Lectures and seminars correlating clinical diagnosis and treatment of prosthetic problems with the previous two years' background of basic science and dental technique knowledge. 11 clock units. Drs. Stout, Devney, Kinersly.

**Pr 633, 634, 635. Prosthetic Clinical Practice.** 1 credit hour each term fall and winter, 2 credit hours spring.

Third year. Clinical utilization of the previous two years' background of basic science and dental technique in the treatment of patients with prosthetic problems. Emphasis is on treatment planning, methodology and evaluation of results. Drs. Stout, Devney, Faris, Downey, Kinersly, Bender, Cruce, Elkjer, Dettman, Peterson.

**Pr 440. Principles of Clinical Prosthetic.** 1 credit hour winter.

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

**Pr 643, 644, 645. Prosthetic Clinical Practice.** No credit fall, 1 credit hour each term winter and spring.

Fourth year. Continuation of Pr 633, 634, 635 with opportunity to observe effects of, or continue, long-term treatment of patients. In addition, experience with difficult prosthetic problems is provided with opportunity for independent decision-making. The aim is to simulate the prosthetic phase of the practice of dentistry. Drs. Stout, Faris, Kinersly, Downey, Bender, Cruce, Elkjer, Dettman, Peterson.

# 5

## Dental Hygiene

### *Dental Hygiene*

*Associate Professors:* **Rachel K. Espey** (director), **James S. Bennett** (supervising dentist).

*Assistant Professor:* **Deanne Eng.**

*Instructors:* **Virginia C. Gullikson, Lois Whitford, Jennifer Day, Donna Hurley.**

The University of Oregon Dental School introduced a two-year curriculum leading to a Certificate in Dental Hygiene in the fall of 1949, following the enactment of a statute by the Oregon Legislature defining the practice of dental hygiene and providing for the licensing of dental hygienists.

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

Graduates in dental hygiene may earn the Bachelor of Science degree, with a major in health education, 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 at Oregon State University in Corvallis, or a B.S. degree in general studies at Portland State University or Southern Oregon College. The student may enroll at the University in Eugene, at Oregon State University, at Portland State University, or at Southern Oregon College on the freshman year, transfer to the Dental School for the two-year dental hygiene program, and return to one of these four institutions for the senior year to complete the requirements for a B.S. degree. The baccalaureate degree is *not* granted by the Dental School, but by the institution at which the student takes the final year of study. The student should consult a college adviser concerning institutional requirements.

### *Opportunities for Dental Hygienists*

A major responsibility in the expanding field of preventive dental health is assumed by the dental hygienist, working under the supervision of the dentist. The student of dental hygiene may look forward to a useful and interesting career as an important member of the health professions.

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

## DENTAL HYGIENE

*In a private dental office*—performing oral prophylaxes; applying fluorides to the surfaces of the teeth; instructing in the care of the mouth; maintaining a patient recall system; exposing and processing roentgenograms; occasionally aiding the dentist in oral operations.

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

*In public health agencies*—performing duties similar to those in the public schools; serving in clinics and hospitals for indigent children and adults; cooperating with public health officials and dentists in dental health education (the dental hygienist may assume considerable responsibility for organization and administration of programs).

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

*In dental hygiene education*—serving as a faculty member in a school of dental hygiene; teaching, counseling and demonstrating to dental hygiene students; serving in various administrative capacities.

It is anticipated that the greatest future demand for dental hygienists will continue to be in private dental practice. However, a great need exists for dental hygiene educators because of the rapid growth of schools and departments of dental hygiene. In addition, many dental hygienists are being employed in public health programs maintained by schools and the state and local health departments.

### *Admission*

The requirements for students seeking admission to the dental hygiene curriculum are as follows:

- (1) Graduation from an accredited high school.
- (2) Satisfactory completion of one year sequences in biology, chemistry, and English composition included in 45 quarter hours of college work.
- (3) Completion of the aptitude test for dental hygiene provided by the American Dental Hygienists Association not later than February of the year of expected registration. *No waivers of this policy will be granted.* Applicants who have not completed the test before this deadline will not be considered for admission to the fall class.
- (4) A physical examination record.
- (5) A 2.25 grade-point average for college work.
- (6) An interview may be required for some applicants before consideration as candidates for admission.
- (7) Applicants must not be more than 45 years of age.

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

*These tests are a requirement for admission to the dental hygiene program at the Univer-*

*sity of Oregon Dental School.* However, the aptitude results, in themselves, are not the sole basis upon which an applicant will be considered for admission. The tests may be taken at the Dental School in October and February. Applicants are not permitted to take the test more than once a year (for example, an applicant who tested in October may not be tested again until October of the following year). The February testing period is intended primarily for applicants to the class entering the next fall, but other applicants may register for this testing period.

In order to allow sufficient time for processing, all applications for the aptitude test must be received by the American Dental Hygienists Association, 304 East 45th St., New York, N.Y., approximately two weeks before the testing period.

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

**SELECTION.** The entering class is selected each year by the Committee on Dental Hygiene Admissions on a competitive basis.

*College or junior college background.* Students are urged to draw up, with the assistance of their advisers, a program which can be coordinated with the dental hygiene curriculum and at the same time satisfy requirements for a baccalaureate degree. Information on desirable courses may be obtained from Dr. R. E. Kime, associate professor of health education, University of Oregon, Eugene; Dr. Carole Gatz, associate professor of chemistry, Portland State University, Portland; Dr. A. W. Pritchard, professor of zoology, Oregon State University, Corvallis; or Dr. Richard Welton, associate professor of biology, Southern Oregon College, Ashland. Students attending other colleges or universities should consult their academic advisers.

*Residence.* Preference is given to residents of Oregon. WICHE students see page 24.

*Personal qualifications.* Careful consideration is given to the candidate's sincerity of interest, character and personality, personal appearance, and health. Willingness to place public service first is a paramount requirement for anyone planning to enter one of the health professions. A basically ethical attitude, habits of dignity, tact, courtesy, neatness and poise, and a pleasant social manner are essential qualities of a successful dental hygienist. Since the hygienist will work under the supervision of a dentist, and with the general public and members of other professions, the ability to accept constructive 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.** Formal application for admission to the dental hygiene curriculum must be submitted between January 1 and March 31 for the class entering in the fall of that year. The following credentials must be submitted:

- (1) Application on an official form, copies of which will be supplied on request by the Dental School Registrar. (The Dental School must be notified of any change in address or marital status.)
- (2) Official high school and college transcripts of all work completed at the time of application. *Prior to enrolling* in the Dental School, an accepted dental hygiene student must send to the Registrar official transcripts of any college work taken.
- (3) A statement of college work in progress and of the courses the applicant proposes to take before admission to the dental hygiene curriculum. (The statement should list specific courses.)
- (4) Completion of the letter on the back of the application form, stating in detail the reasons why the applicant has chosen a dental hygiene career. (The letter should

## DENTAL HYGIENE

also include any other information which the applicant considers important for a thorough evaluation of credentials.)

(5) The credit-evaluation fee of \$10.00 (this fee is not refundable).

Application may be made during the current year of college attendance. If the applicant is still pursuing prescribed work or if certain procedures for admission have not been completed, the notice of acceptance will be "conditional." When all requirements and procedures are satisfactorily completed, a confirmatory "unconditional" acceptance will be sent to the applicant. The instructional programs begin in the fall term; new students are not admitted at any other time. Each entering class is limited to a maximum of 33 students.

### *Registration*

Information on registration procedure is mailed to each student before the opening of the new academic year. The academic calendar appears on page 7.

### *Fees and Expenses*

Students in the dental hygiene curriculum pay a total of \$145 per term for residents of Oregon or a total of \$255 for nonresidents. For a detailed table of fees, see page 27.

The total cost of books, equipment and supplies required during the two years of the dental hygiene curriculum is estimated at \$585. The required equipment includes instruments, shoes, uniforms and laboratory costs. All books, supplies and instruments are purchased from the student store. No substitutions are permitted. It is estimated that the total cost of the two-year program, exclusive of living costs, is about \$1,455 for residents of Oregon and about \$2,115 for nonresidents.

All unmarried female hygiene students under 21 years of age must live in the women's residence hall adjacent to the Dental School. If a student withdraws from the residence hall but does not withdraw from the institution, she is responsible for all room charges for the entire year during which the withdrawal occurs. Exceptions to this policy are students who reside with immediate family in the Portland area. The cost of room per year is about \$360.

Married students and students over 21 who live off campus will find that living costs vary according to the type of facility. Single rooms may be obtained in Portland for about \$60 a month; two- and three-room apartments may be rented for about \$110 a month. Students who do not live in the residence hall must make their own arrangements for housing and are advised to do so 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 12.

### *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. The library is a source for reference reading and study.

Through the two years of study, counseling is provided by the Dental School faculty for guidance and assistance with problems concerning curriculum, course instruction, scholarship, housing, and personal adjustment.

## Dental Hygiene Curriculum

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

During the first year the emphasis is divided between standard college courses in arts and sciences and preclinical and clinical instruction. Preclinical instruction begins during the first term; clinical experience with patients begins with the second term.

Courses in the arts and sciences continue in the second year; but major attention is given to clinical application of professional knowledge and skills. During the spring term of the second year, the student receives field experience in dental health education in the local 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, nutritional counseling, and topical application of fluorides to children's teeth.

A dental hygienist must have a thorough understanding of the field of dentistry to become an oral health educator. To insure this understanding, the student is assigned observation and assisting periods in the various clinical departments of the Dental and Medical Schools.

Scholarship requirements for dental hygiene students are the same as for dental students (see page 26). In order to be advanced from the first year to full standing in the second year in dental hygiene, all courses in the first year must be satisfactorily completed. If there are deficiencies, second-year instructors must give approval before registering any student with a course deficiency considered a prerequisite to the second-year program.

### COURSES, TIME, AND CREDIT

First Year	Clock units*					Credit hours
	Lec.	Conf.	Lab.	Clinic	Total	
<b>Fall Term</b>						
Bi 310 Human Biology .....	33	11	33	....	77	5
CB 211 Dental Anatomy .....	11	....	33	....	44	2
Ch 310 Physiological Chemistry .....	44	....	....	....	44	4
DH 111 Hygienist Orientation .....	11	....	....	....	11	....
DH 118 Dental Hygiene .....	22	....	66	....	88	4
<b>TOTALS</b> .....	121	11	132	....	264	15
<b>Winter Term</b>						
Bi 311 Human Biology .....	33	....	33	....	66	4
Ch 311 Physiological Chemistry .....	33	....	22	....	55	4
DH 119 Dental Hygiene .....	11	11	....	99	121	4
OS 312 Medical Emergency Procedures .....	11	....	22	....	33	2
<b>TOTALS</b> .....	88	11	77	99	275	14
<b>Spring Term</b>						
Bi 312 Human Biology .....	44	....	38	....	82	5
Bi 313 Human Biology .....	22	....	....	....	22	2
DH 120 Dental Hygiene .....	11	....	10	44	65	1
**DM 232 Dental Materials .....						
PD 310 Nutrition .....	33	....	....	....	33	3
Sp 407 Communication Skills in Human Relations .....	....	33	....	....	33	3
<b>TOTALS</b> .....	110	44	48	110	312	16
<b>TOTALS FOR YEAR</b> .....	319	66	257	209	851	45

\* A clock unit is defined as a 45-minute period for lectures or conferences and a 50-minute period for laboratories and clinics.

\*\* DM 232 Dental Materials given with DH 232 and DH 233 Dental Procedures. Credit for DM 232 Dental Materials given fall term, second year.

# DENTAL HYGIENE

Second Year	Clock units					Credit hours
	Lec.	Conf.	Lab.	Clinic	Total	
<b>Fall Term</b>						
Bi 320 Human Biology .....	11	---	33	---	44	2
DH 233 Dental Procedures .....	11	---	10	44	65	1
**DM 232 Dental Materials .....	---	---	---	---	---	2
DH 320 Dental Hygiene .....	---	11	---	99	110	3
PD 332 Caries Prevention .....	11	---	---	---	11	1
***PD 334 Clinical Caries Prevention .....	---	---	---	22	22	1
Per 320 Periodontology for Dental Hygienists .....	11	---	---	---	11	1
PH 320 Dental Health Education .....	11	---	---	---	11	1
Psy 201 General Psychology .....	33	---	---	---	33	3
Ro 320 Oral Radiology .....	11	---	22	---	33	2
<b>TOTALS</b> .....	99	11	65	165	340	17
<b>Winter Term</b>						
Bi 321 Human Biology .....	11	---	22	---	33	2
Bi 322 Human Biology .....	22	---	---	---	22	2
DH 234 Dental Procedures .....	11	---	---	---	11	2
DH 321 Dental Hugiene .....	---	11	---	99	110	3
PD 333 Public Health Dentistry .....	22	---	---	---	22	2
PH 321 Dental Health Education .....	22	---	---	---	22	2
Psy 202 General Psychology .....	33	---	---	---	33	3
Ro 321 Oral Radiology .....	11	---	---	33	44	2
<b>TOTALS</b> .....	132	11	22	132	297	17
<b>Spring Term</b>						
DH 229 Ethics and Jurisprudence .....	11	---	---	---	11	1
DH 322 Dental Hygiene .....	---	22	---	99	121	4
PH 322 Dental Health Education .....	11	---	66	---	77	3
Psy 203 General Psychology .....	33	---	---	---	33	3
Ro 322 Oral Radiology .....	---	---	---	33	33	1
Soc 204 General Sociology .....	33	---	---	---	33	3
<b>TOTALS</b> .....	88	22	66	132	308	15
<b>TOTALS FOR YEAR</b> .....	319	44	153	429	945	49

## Elective Courses

PD 331 **Introduction to Public Health.** 3 credit hours fall term.

PE 180 **Physical Education.** 1 credit hour each term, fall, winter, spring, first year, 3 clock hours per week.

\*\* DM 232 Dental Materials given with DH 232 and DH 233 Dental Procedures. Credit for DM 232 Dental Materials given fall term, second year.

\*\*\* PD 334 Clinical Caries Prevention given fall, winter and spring terms. Clock units and credit hours listed only in fall term.

*Description of Courses***Bi 310. Human Biology.** 5 credit hours fall.

Systematic anatomy of man, gross and microscopic, with emphasis on human adaptation from other animal forms as our habitat has changed, study of cellular and tissue organization of body for conduct of essential metabolic functions, survey of human development as basis for understanding embryology, histology, and anatomy of oral region in later courses. Lecture, 33 clock units; laboratory-seminar, 11 clock units; laboratory, 33 clock units.

(Offered by the Anatomy Department)

**Bi 311. Human Biology.** 4 credit hours winter.

A study of the function of cells, organs and organ systems and the integrative control mechanisms. Selected principles of pharmacology, the action, uses, characteristics and untoward reactions of certain common drugs will be correlated with the physiology of organ systems. Lecture, 33 clock units; laboratory-conference, 33 clock units.

(Offered by the Physiology and Pharmacology Departments)

**Bi 312. Human Biology.** 5 credit hours spring.

An introductory course in general, medical and oral microbiology including general principles of microbiology, the role of microbes in infectious processes and the mechanisms of host immune responses. Special emphasis is given to a consideration of known and postulated mechanisms leading to selected oral diseases. Laboratory exercises: methods of pure culture study; staining; identification procedures; lactobacillus counts and Snyder tests. Demonstrations: growth and death curves; products of metabolism; sterilization and disinfection. Lectures, 44 clock units; laboratory, 38 clock units.

(Offered by the Microbiology Department)

**Bi 313. Human Biology.** 2 credit hours spring.

Lectures emphasize the basic principles relating to pathologic processes including abnormalities of growth and development, circulatory and metabolic disturbances, degenerative changes, inflammation and neoplasia. Demonstration and study of gross and histopathologic sections correlate selected disease processes. Lecture, 22 clock units.

(Offered by the Pathology Department)

**Bi 320. Human Biology.** 2 credit hours fall.

Embryology and histology of the head, neck, and oral area. This study of normal tissues serves as a basis of understanding the area of clinical practice and the pathological conditions and anomalies presented in future courses as well. Lecture, 11 clock units; laboratory-seminar, 33 clock units.

(Offered by the Anatomy Department)

**Bi 321. Human Biology.** 2 credit hours winter.

Study of oral diseases and systemic disorders that may affect the oral cavity. Particular emphasis is given to periodontal diseases, dental caries and developmental abnormalities of the teeth, face and jaws. Lecture, 11 clock units; laboratory-seminar, 22 clock units.

(Offered by the Pathology Department)

**Bi 322. Human Biology.** 2 credit hours winter.

Study of the head and neck anatomy of man using the systematic approach. Correlation with clinical application in the operation of the health team is emphasized. Lecture, 22 clock units.

(Offered by the Anatomy Department)

**CB 211. Dental Anatomy.** 2 credit hours fall.

A programmed instruction of the descriptions and functions of the human dentition. Laboratory preparation toward the understanding of the shapes and functions of the teeth. Lecture, 11 clock units; laboratory, 33 clock units.

(Offered by the Crown and Bridge Department)

## DENTAL HYGIENE

**Ch 310, 311. Physiological Chemistry.** 4 credit hours each term fall and winter.

Introduction to cellular biochemistry as related to physiological functions and pathological dysfunction in man. Fall: Lecture, 44 clock units. Winter: Lecture, 33 clock units; laboratory-seminar, 22 clock units.  
(Offered by the Biochemistry Department)

**DH 111. Hygienic Orientation.** No credit fall.

An introduction to the scope, opportunities, ethics, and professional organizations of dental hygiene. Orientation to the Dental School policies and facilities. Lecture, 11 clock units.  
(Offered by the Dental Hygiene Department)

**DH 118, 119, 120. Dental Hygiene.** 4, 4, 2 credit hours fall, winter, spring.

An introduction to the causes, manifestations, and effects of stains and deposits on the teeth and supporting tissues. Principles and methods for removal of these deposits; laboratory techniques and instrumentation on manikins. Techniques and principles of patient dental health education. Orientation to clinical procedures and patient management. Experience in the performance of oral prophylaxis; topical application of fluorides. Fall: Lecture, 22 clock units; laboratory, 66 clock units. Winter: Lecture, 11 clock units; conference, 11 clock units; clinic, 99 clock units. Spring: Conference, 11 clock units; clinic, 66 clock units.  
(Offered by the Dental Hygiene Department)

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

Fundamental ethics and professional application with particular reference to dental hygiene. Ethical responsibilities to the dentist, the individual patient, the community at large and the dental hygiene profession. State laws and licensure of dentistry and dental hygiene. Membership and participation in professional organizations. Lecture, 11 clock units.  
(Offered by the Dental Hygiene Department)

**DH 232, 233, 234. Dental Procedures.** 1, 1, 1 credit hours spring, fall, winter.

This course sequence has been designed to familiarize the student with procedures in all phases of dentistry. These include the concepts of diagnosis and treatment planning, the techniques and materials used in restorative dentistry, and in fixed and removable prosthetic dentistry. The student is also introduced to the specialty areas of dentistry which include—orthodontics, pedodontics, endodontics, oral surgery and periodontics. The team teaching approach places emphasis on the role of the dental hygienist in the practice of dentistry. Lecture, 11 clock units each term; observation and assisting, 44 clock units spring and fall terms only.  
(Offered by the Oral Diagnosis Department)

**DH 320, 321, 322. Dental Hygiene.** 3, 3, 4 credit hours fall, winter, spring.

Continued clinical procedures with emphasis on increasingly complex techniques of subgingival instrumentation, root planing, and charting of oral conditions. The dental hygienist as a member of the dental health team; methods of recalling and notifying patients. Few hours of rotation to Doernbecher Hospital and Crippled Children's Division of University of Oregon Medical School. This course is closely correlated with dental health education, caries prevention, nutrition, pathology, and periodontology. Conference: fall and winter, preparation of an independent research project, case study, or literature review paper on a dental hygiene clinically related subject for presentation Spring Term. Fall: Conference, 11 clock units; clinic, 99 clock units. Winter: Conference, 11 clock units; clinic, 99 clock units. Spring: Conference, 22 clock units; clinic, 99 clock units.  
(Offered by the Dental Hygiene Department)

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

Designed to familiarize the student with dental materials and their place in restorative dentistry. General manipulative techniques discussed and demonstrated. Lecture-laboratory, 20 clock units. Given with DH 232 and DH 233 Dental Procedures.  
(Offered by the Dental Materials Department)

**OS 312. Medical Emergency Procedures.** 2 credit hours winter.

Lectures and demonstrations coordinated with physiology and anatomy to introduce and describe emergency equipment, supplies, drugs, signs and symptoms, pulmonary

## DESCRIPTION OF COURSES

and cardiac resuscitation, special wounds, burns and skeletal injuries. Laboratories to develop understanding and skills to perform duties as part of a team in school, office, clinic, hospital and convalescent home emergencies. Instruction includes the standard and advanced Red Cross First Aid Program for certificates. Lecture, 11 clock units; laboratory, 22 clock units.  
(Offered by the Oral Surgery Department)

**PD 310. Nutrition.** 3 credit hours spring.

Basic principles of nutrition and applied nutrition at all age levels. The value of adequate nutrition in maintenance of general health with special emphasis on prevention of dental disease. Applied nutrition as pertains to dental health education and nutrition counseling in the practice of dental hygiene. Lecture, conference, practicum, demonstration, 33 clock units.  
(Offered by the Preventive Dentistry Department)

**PD 331. Introduction to Public Health.** 3 credit hours fall (elective).

Concepts and principles of public health activities, including epidemiologic methodology, environmental factors in health and illness, communicable disease control, cause of morbidity and mortality, health education, public health organization in relation to delivery of community medical and dental services. Lecture, 33 clock units.  
(Offered by the Preventive Dentistry Department)

**PD 332. Caries Prevention.** 1 credit hour fall.

Study of the problem of dental caries, with special reference to methods of prevention. Lecture, 11 clock units.  
(Offered by the Preventive Dentistry Department)

**PD 333. Public Health Dentistry.** 2 credit hours winter.

Designed to give the students an understanding of public health principles and methods. Special consideration to the place of dentistry in the field of public health and to the role of dental hygienists in public health dentistry. Lecture, 22 clock units.  
(Offered by the Preventive Dentistry Department)

**PD 334. Clinical Caries Prevention.** 1 credit hour for fall, winter and spring.

Topical application of fluoride solutions. Nutrition evaluation and consultation. Orientation, consultation, and clinic, 22 clock units.  
(Offered by the Preventive Dentistry Department and Dental Hygiene Department)

**PH 320, 321, 322. Dental Health Education.** 1, 2, 3 credit hours fall, winter, spring.

Modern educational principles applicable to teaching dental health in group situations. Motivating the individual to accept and adopt desirable dental health attitudes and practices. Preparing lesson plans and adapting to various age levels. Compiling and evaluating dental health education literature. Preparation of visual aids for use in presenting a lesson plan to classmates. Participation in group discussions on current dental health problems. Study of established dental health teaching methods and techniques to various age groups in the local public schools. Includes classroom talks, demonstrations and use of visual aids. Fall: Lecture, 11 clock units. Winter: Lecture, 22 clock units. Spring: Lecture, 11 clock units; laboratory-seminar, 66 clock units.  
(Offered by the Dental Hygiene Department and Public School personnel)

**Psy 201, 202, 203. General Psychology.** 3 credit hours each term fall, winter, spring.

A three quarter sequence dealing with fundamental concepts in psychology. Basic principles of learning, motivation and perception are discussed with extension and applications to work in physiology, human factors, normal and abnormal behavior and developmental sequences. Procedures and techniques utilized in the behavioral sciences are also discussed. Lecture, 33 clock units each term.  
(Offered by the Division of Continuing Education of the State System of Higher Education)

**Ro 320, 321, 322. Oral Radiology.** 2, 2, 1 credit hours fall, winter, spring.

Roentgenological procedures, exposure chemistry and processing of films, record keeping, and mounting of films; direct application in dental hygiene. Laboratory procedures involve practical application of technique, processing, and mounting. In-

## DENTAL HYGIENE

terpretation of films as findings pertain to Dental Hygiene is also considered. Fall : Lecture, 11 clock units ; laboratory, 22 clock units. Winter : Lecture, 11 clock units ; clinic, 33 clock units. Spring : Clinic, 33 clock units.  
(Offered by the Oral Roentgenology Department)

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

The basic findings of sociology concerning the individual, culture, group life ; social institutions and factors of social change. Lecture, 33 clock units.  
(Offered by the Division of Continuing Education of the State System of Higher Education)

Sp 407. **Communication Skills in Human Relations.** 3 credit hours spring.

Designed to assist in improving the human relations aspect of both inter- and intra-personal communicative activities with some consideration given to philosophy of communication and the dependence of human relations upon adequate speaking and listening skills. Practicum experiences in the improvement of listening skills, group and individual verbal behavior, and the analysis of communication "breakdown" between individuals will be emphasized. Seminar, 33 clock units.  
(Offered by the Division of Continuing Education of the State System of Higher Education)

# 6

## Administration and Faculty

### *Administrative Officers*

**Roy E. Lieuallen**, Ed.D., L.H.D., Chancellor, Oregon State System of Higher Education; Professor.

**Robert D. Clark**, Ph.D., President, University of Oregon; Professor.

**Louis G. Terkla**, D.M.D., Dean of the Dental School; Professor of Dentistry.

**William B. Wescott**; D.M.D., M.S., Associate Dean for Administrative Affairs; Professor of Dentistry.

**Robert J. Bruckner**, D.D.S., M.S., Associate Dean for Academic Affairs; Professor of Dentistry.

**Eugene W. Bauer**, B.S., Assistant Dean for Business Affairs; Associate Professor.

### OFFICE OF BUSINESS AFFAIRS

**Darwin R. Reveal**, B.S., Business Manager; Assistant Professor.

**Mavis A. Petty**, B.S., Budget Officer; Instructor.

**Byron E. Phillips**, B.A., Personnel Officer.

### REGISTRAR'S OFFICE

**Phillip D. Ray**, B.S., Registrar; Instructor.

### OFFICE OF STUDENT AFFAIRS

**Ernest A. Hurley**, D.M.D., Director of Student Affairs; Associate Professor of Dentistry.

### OFFICE OF INSTITUTIONAL RELATIONS

**Kenneth Cushman**, B.S., M.S., Director of Institutional Relations; Assistant Professor.

**Margaret Heyden**, B.S., Public Information Officer.

## ADMINISTRATION AND FACULTY

### CLINICS

- Fred M. Sorenson**, D.M.D., Director of Clinics.
- Charles C. Thompson**, D.M.D., M.S.D., In Charge of Oral Tumor Registry.
- Kenneth R. Cantwell**, B.S., D.M.D., In Charge of Operative Clinic.
- Jack W. Clinton**, B.S., D.M.D., In Charge of Dental Auxiliary Utilization.
- H. Cline Fixott**, D.M.D., In Charge of Oral Radiology Clinic.
- Arthur E. Fry**, D.D.S., In Charge of Oral Diagnosis Clinic.
- Herbert C. Laffitte**, D.D.S., In Charge of Periodontology Clinic.
- Rachel K. Espey**, R.D.H., In Charge of Dental Hygiene Clinic.
- Ernest H. Hixon**, D.D.S., In Charge of Orthodontic Clinic.
- Richard J. Mathewson**, D.D.S., In Charge of Dental Special Services Clinic.
- Ralph Merrill**, D.D.S., Chief of Dental Services in Hospitals and Clinics.
- William A. Richter**, D.M.D., M.S., In Charge of Crown and Bridge Clinic.
- Donald R. Porter**, D.D.S., M.S., In Charge of Pedodontic Clinic.
- Bhim Sen Savara**, L.D.S., D.M.D., M.S., In Charge of Child Study Clinic.
- Charles J. Stout**, B.S., B.A., D.M.D., In Charge of Prosthetics Clinic.
- Ralph Merrill**, D.D.S., In Charge of Oral Surgery Clinic.
- Robert F. Watkins**, D.M.D., In Charge of Endodontic Clinic.
- Vinson M. Weber**, M.A., D.D.S., In Charge of Continuing Education Clinic.

### LIBRARY

- Robert M. Donnell**, B.S., M.A., Librarian ; Assistant Professor.

### STUDENT HEALTH SERVICE

- Agnar A. Straumfjord**, M.D., Director, Student Health Service ; Associate Professor of Psychiatry.
- Estill N. Deitz**, M.D., Assistant Student Health Physician ; Clinical Associate in Medicine.

### CAFETERIA

- David J. Weaver**, Cafeteria Manager.

### BUILDINGS AND GROUNDS

- A. J. Clemons**, Director of Facilities Planning ; Professor.
- Ralph E. Tuomi**, B.A., Director, Physical Plant.

*Emeritus Faculty*

**Erwin T. Bender**, D.D.S., Professor Emeritus of Dentistry.  
D.D.S. (1924) Iowa.

**Frank G. Everett**, D.M.D., M.D., Professor Emeritus of Periodontology.  
M.D. (1932), Vienna; B.S., D.M.D. (1941), M.S. (1948), Oregon.

**Evelyn R. Hannon**, R.D.H., Associate Professor Emeritus of Dental Hygiene.  
R.N., State of Kansas (1930), State of California (1937); R.D.H., Univ. of Kansas City (1939),  
State of Kansas (1939), State of New York (1948); B.S. (1951), Columbia University Teachers  
College.

**Thomas D. Holder**, D.M.D., Clinical Associate Emeritus in Dentistry.  
B.A. (1928), D.M.D. (1940), Oregon.

**Lorna V. Klier**, Assistant Professor Emeritus of Nutrition.

**Loretta Case Martin**, C.R.N.A., Assistant Professor Emeritus of Dental Science.  
B.S. (1924), C.R.N.A. (1940), Marquette Trinity Hospital.

**Donald G. Reese**, D.M.D., Associate Professor Emeritus of Dentistry and Pharma-  
cology.  
B.S. (1941), Washington State; D.M.D. (1946), Oregon.

**Bernadette A. Scully**, R.N., Senior Instructor Emeritus of Dental Science.  
R.N. (1922), State of Idaho; R.N. (1925), State of Oregon.

**Marie S. Slawson**, B.S., Assistant Professor Emeritus of Microbiology.  
B.S. (1931), Oregon.

**Nilkanth M. Phatak**, Ph.D., Professor Emeritus of Pharmacology.  
B.S. (1924), North Pacific College; A.B. (1931), M.S. (1935), California; Pt.D. (1939), Cin-  
cinnati.

**Wilbur N. Van Zile**, D.D.S., Professor Emeritus of Dentistry.  
D.D.S. (1928), Southern California.

*Faculty, 1969-70\**

**Jerome D. Adey**, M.S., Senior Research Assistant in Dental Materials (1968).  
B.S. (1963), Walla Walla; M.S. (1968), Washington.

‡**Veryl R. Alexander**, D.M.D., Adjunct Instructor (1969).  
D.M.D. (1945), North Pacific.

‡**Aurelia J. Allen**, B.S., Research Assistant in Pathology (1969).  
B.S. (1964), Oregon State.

‡**Roger I. Amiton**, D.M.D., Clinical Assistant in Dentistry (1968).  
B.S., D.M.D. (1965), Oregon.

‡**Declan J. Anderson**, Ph.D., Adjunct Professor (1965).  
B.D.S. (1942), L.D.S. (1943), B.Sc. (1946), M.Sc. (1947), Ph.D. (1955), London.

**Marlene L. Anderson**, B.A., Research Assistant in Anatomy (1970).  
B.A. (1968), Wilamette.

‡**Kenneth L. Baird**, D.M.D., Clinical Assistant in Dentistry (1969).  
B.S. (1961), Portland State; D.M.D. (1966), Oregon.

\* The year in parenthesis following the name of each faculty member indicates the date of original appointment to the faculty.

‡ Part time

## ADMINISTRATION AND FACULTY

- ‡**William H. Banaka**, Ph.D., Assistant Professor of Psychology (1969).  
M.A. (1958), Ph.D. (1959), Houston.
- Murray H. Bartley**, D.M.D., Associate Professor of Dentistry (1969).  
D.M.D. (1958), Oregon; Ph.D. (1968), Utah.
- George E. Batterson**, M.A., Professor; Educational Adviser; and Chairman of Department of General Education (1946).  
B.A. (1936), M.A. (1936), Oregon.
- Eugene W. Bauer**, B.S., Assistant Dean of Business Affairs; Associate Professor (1962).  
B.S. (1958), Lewis and Clark.
- ‡**Stuart A. Bender**, D.D.S., Clinical Assistant in Dentistry (1969).  
A.B. (1960), San Diego State; D.D.S. (1964), Western Reserve.
- James S. Bennett**, D.M.D., Associate Professor of Dentistry; Acting Chairman, Department of Gerodontology (1961).  
B.A. (1952), Reed; D.M.D. (1958), M.S. (1961), Oregon.
- ‡**Leonard E. Boeder**, D.D.S., Clinical Associate in Dentistry (1964).  
B.A. (1955), D.D.S. (1959), Minnesota.
- ‡**Jolanta A. K. Bokums**, D.M.D., Clinical Assistant in Dentistry (1969).  
B.S. (1957), State College, Sao Paulo, Brazil; D.D.S. (1961), Univ. of Sao Paulo; M.S. (1966), California; D.M.D. (1969), Alabama.
- Marjorie J. Boufford**, M.Ed., Instructor in Pharmacology (1966).  
R.N. (1937), Elliot Hospital School of Nursing; B.S. (1942), Columbia University Teachers College; M.Ed. (1951), Oregon State.
- †**Curtis W. Boulet**, D.M.D., Clinical Assistant in Dentistry (1968).  
D.M.D. (1968), Oregon.
- Christ Bouneff**, D.M.D., Assistant Professor of Dentistry (1968).  
B.S. (1958), Portland State; B.S. (1962), D.M.D. (1964), Oregon; M.S. (1968), Georgetown.
- ‡**Robert E. Bowles**, D.M.D., Instructor in Dental Materials (1968).  
B.S. (1957), Oregon State; B.S. (1964), D.M.D. (1966), Oregon.
- ‡**C. Allan Brown**, D.M.D., Adjunct Instructor (1968).  
B.S. (1951), Portland; D.M.D. (1961), Oregon.
- J. Darold Brown**, D.M.D., Assistant Professor of Dentistry (1968).  
B.S. (1962), Portland State; D.M.D. (1965), Oregon.
- ‡**Laurel E. Brown**, D.M.D., Clinical Associate in Dentistry (1962).  
B.S. (1955), Oregon State; D.M.D. (1957), Oregon; M.S. (1962), Northwestern.
- Robert J. Bruckner**, D.D.S., Professor of Dentistry, Associate Dean for Academic Affairs (1959).  
D.D.S. (1944), Maryland; M.S. (1948), Western Reserve.
- Douglas L. Buck**, D.D.S., Associate Professor of Dentistry (1962).  
B.S. (1954), D.D.S. (1960), M.S.D. (1962), Minnesota.
- †**Lewis P. Campbell, Jr.**, D.M.D., Clinical Associate in Dentistry (1962).  
B.S. (1936), D.M.D. (1940), Oregon.
- Kenneth R. Cantwell**, D.M.D., Professor of Dentistry; Chairman of Operative Dentistry Department (1946).  
B.S. (1938), Utah State; D.M.D. (1943), Oregon.
- ‡**Jerry L. Caples**, D.M.D., Clinical Assistant in Dentistry (1970).  
B.S. (1960), Oregon State; D.M.D. (1964), Oregon.
- ‡**Roy A. Carley**, D.M.D., Clinical Assistant in Dentistry (1968).  
B.S. (1962), D.M.D. (1966), Oregon.

## FACULTY

- †**Richard M. Carson**, D.D.S., Clinical Associate in Dentistry (1968).  
D.D.S. (1948), St. Louis.
- Stephen M. Clark**, D.M.D., Associate Professor of Dentistry (1960).  
B.A. (1954), Stanford; D.M.D. (1958), Oregon.
- C. Keith Claycomb**, Ph.D., Professor of Biochemistry; Chairman of Biochemistry Department (1951).  
B.S. (1947), M.S. (1948), Ph.D. (1951), Oregon.
- A. J. Clemons**, Professor; Director of Facilities Planning (1956).
- Jack W. Clinton**, D.M.D., Assistant Professor of Dentistry, Chairman of Dental Assistant Utilization Program (1964).  
B.S. (1961), D.M.D. (1964), Oregon.
- †**Stephen R. Cook**, D.M.D., Clinical Assistant in Dentistry (1968).  
B.A. (1962), D.M.D. (1965), Oregon.
- †**William R. Cory**, D.M.D., Clinical Associate in Dentistry (1965).  
D.M.D. (1959), Oregon.
- Frederick F. Cowan**, Ph.D., Professor of Pharmacology; Chairman of Pharmacology Department (1966).  
B.S. (1955), George Washington; Ph.D. (1959), Georgetown.
- Howard R. Creamer**, Ph.D., Assistant Professor of Microbiology (1967).  
B.Sc. (1954), Ph.D. (1967), Ohio State.
- †**William E. Creighton**, D.D.S., Clinical Assistant in Dentistry (1964).  
D.D.S. (1957), Creighton; M.P.H. (1960), North Carolina.
- †**William A. Cruce**, D.D.S., Clinical Associate in Dentistry (1968).  
B.S. (1963), D.D.S. (1967), Ohio State.
- Kenneth Cushman**, M.S., Director of Institutional Relations (1969).  
B.S. (1945), Northwestern; M.S. (1952), Oregon.
- †**Ray J. Davis**, D.M.D., Clinical Associate in Dentistry (1947).  
D.M.D. (1932), North Pacific.
- Jennifer Day**, R.D.H., M.S., Instructor in Dental Hygiene (1969).  
R.D.H. (1965), B.S. (1966), Oregon; M.S. (1969), Columbia.
- †**Estil N. Deitz**, M.D., Clinical Associate in Medicine; Assistant Student Health Physician (1959).  
M.D. (1946), Long Island College of Medicine.
- Norman DeJong**, D.D.S., Assistant Professor of Dentistry (1969).  
D.D.S. (1967), Northwestern; M.P.H. (1968), Harvard.
- †**Darryl D. Dettmann**, D.D.S., Clinical Assistant in Dentistry (1969).  
B.A. (1961), Pacific Lutheran; D.D.S. (1966), Marquette.
- John L. Devney**, D.D.S., Associate Professor of Dentistry (1962).  
D.D.S. (1936), Minnesota.
- Wilson C. Dockery**, B.S., Instructor; Student Activities Director (1960).  
B.S. (1936), Oregon State.
- Robert M. Donnell**, M.A., Assistant Professor; Librarian (1964).  
B.S. (1950), Arizona State; M.A. (1962), University of Denver.
- †**Walter A. Downey**, D.M.D., Clinical Associate in Dentistry (1966).  
B.S. (1961), Portland; D.M.D. (1966), Oregon.
- Ronald L. Drennan**, D.M.D., Assistant Professor of Dentistry (1965).  
D.M.D. (1964), Oregon.

† Volunteer  
‡ Part time

## ADMINISTRATION AND FACULTY

- ‡**William T. Dugan**, D.M.D., Clinical Associate in Dentistry (1965).  
B.S. (1965), Oregon State; D.M.D. (1965), Oregon.
- Robert E. Elkjer**, D.D.S., Clinical Assistant in Dentistry (1969).  
B.S. (1964), D.D., D.D.S. (1969), Minnesota.
- Leonard H. Elwell**, Ph.D., Professor of Physiology; Chairman of Physiology Department (1959).  
A.B. (1935), Kalamazoo; M.S. (Zoology) (1937), Kansas State; M.S. (Physiology) (1941), Ph.D. (1951), Michigan.
- Lee E. Emery, Jr.**, D.M.D., Assistant Professor of Dentistry (1969).  
D.M.D. (1963), Oregon.
- Deanne Eng**, R.D.H., Assistant Professor of Dental Hygiene (1965).  
R.D.H. (1960), Oregon; B.S. (1967), Portland State.
- ‡**Leroy F. Erickson**, D.V.M., Assistant Professor; Director of Animal Care (1968).  
B.S. (1956), Lewis; B.S. (1958), D.V.M. (1960), Illinois.
- Rachel K. Espey**, R.D.H., Associate Professor of Dental Hygiene; Chairman of Dental Hygiene Department (1954).  
R.D.H. (1952), State of Oregon.
- †**Jay T. Estep**, D.D.S., Clinical Assistant in Dentistry (1962).  
B.S. (1940), Colorado; D.D.S. (1945), Kansas City Western; M.S. (1960), Marquette.
- Susan H. Fahey**, B.S., Research Assistant in Pathology (1966).  
B.S. (1963), Portland State.
- ‡**Robert I. Faris**, D.M.D., Clinical Associate in Dentistry (1963).  
B.S. (1959), D.M.D. (1961), Oregon.
- Rance W. Fields**, Ph.D., Assistant Professor; Child Study Clinic (1970).  
B.S. (1963), Oregon State; Ph.D. (1969), Oregon.
- ‡**Charles Fink**, D.D.S., Clinical Associate in Dentistry (1968).  
D.D.S. (1964), Loyola (New Orleans); M.S. (1968), Loyola (Chicago).
- H. Cline Fixott**, D.M.D., Professor of Dentistry; Chairman of Radiology Department (1946).  
D.M.D. (1938), North Pacific.
- David G. Fleetwood**, D.D.S., Assistant Professor of Dentistry (1967).  
D.D.S. (1959), Northwestern.
- Michael J. Fleming**, M.S., Research Assistant in Pathology (1969).  
B.A. (1967), Oregon State; M.S. (1969), Purdue.
- Arthur E. Fry**, D.D.S., Professor of Dentistry; Chairman of Oral Diagnosis Department (1953).  
D.D.S. (1940), Iowa.
- Walter L. Gabler**, D.D.S., Ph.D., Associate Professor of Dentistry (1969).  
D.D.S. (1956), Ph.D. (1964), Northwestern.
- Margery Gardner**, M.S., Research Assistant in Microbiology (1952, 1968).  
B.S. (1945), M.S. (1956), Oregon.
- Dean C. Gatewood**, M.A., Associate Professor of Biochemistry (1955).  
B.A. (1950), Wilamette; M.A. (1953), Oregon.
- Doris A. Good**, B.S., Assistant Professor; Department of Preventive Dentistry (1951).  
B.S. (1938), Nebraska.
- Robert P. Gray**, D.M.D., Associate Professor of Dentistry (1966).  
B.A. (1948), Wilamette; D.M.D. (1951), Oregon.

† Volunteer  
‡ Part time

## FACULTY

- James W. Grenfell**, D.M.D., Associate Professor of Dentistry (1965).  
B.S. (1957), Lewis and Clark; B.S. (1960), Portland State; D.M.D. (1963), Oregon.
- John S. Gullikson**, D.D.S., Assistant Professor of Dentistry (1962).  
B.S. (1950), Washington State; D.D.S. (1954), Washington.
- Virginia C. Gullikson**, B.S., Instructor in Dental Hygiene (1963-65: 1967).  
B.S.D.H. (1953), Washington.
- Demetrios M. Hadjimarkos**, D.D.S., Professor of Dentistry; Chairman of Preventive Dentistry Department (1953).  
D.D.S. (1931), University of Athens Dental School; M.S.D. (1943), Northwestern; M.P.H. (1946), Harvard.
- †**John G. Hall**, D.M.D., Clinical Assistant in Dentistry (1969).  
B.S. (1963), Oregon State; D.M.D. (1966), Oregon.
- Emory E. Hamilton**, D.M.D., Assistant Professor of Dentistry (1966).  
B.S. (1961), Lewis and Clark; D.M.D. (1964), Oregon.
- †**Keith Hansen**, D.D.S., Clinical Associate in Dentistry (1969).  
B.S. (1957), D.M.D. (1966), Oregon.
- William E. Harold**, B.A., Research Assistant in Microbiology (1967).  
B.A. (1952), Cascade.
- †**John W. Harris**, D.M.D., Clinical Assistant in Dentistry (1968).  
B.S. (1964), Oregon State; D.M.D. (1966), Oregon.
- †**Ray W. Hart**, D.M.D., Clinical Assistant in Dentistry (1964).  
B.S. (1950), Lewis and Clark; D.M.D. (1961), Oregon.
- Lucy Hartman**, Instructor in Dentistry (1961).
- Terrence J. Hegstrom**, D.M.D., Instructor in Dentistry (1968).  
D.M.D. (1965), Oregon.
- †**David L. Hess**, B.A., Teaching Fellow in Physiology (1970).  
B.A. (1967), Idaho State.
- †**Samuel J. Higdon**, D.D.S., Clinical Assistant in Dentistry (1967).  
B.S. (1961), Baker; D.D.S. (1964), Missouri at Kansas City.
- Ernest H. Hixon**, D.D.S., Professor of Dentistry; Chairman of Orthodontics Department (1961).  
D.D.S. (1945), M.S. (1949), Iowa.
- †**Michael P. Holman**, D.M.D., Clinical Assistant in Dentistry (1969).  
D.M.D. (1968), Oregon
- Harry C. Holmes**, D.D.S., Associate Professor of Dentistry (1966).  
D.D.S. (1932), Minnesota.
- William W. Howard**, D.M.D., Clinical Associate in Dentistry (1961).  
B.S. (1947), Oregon State; D.M.D. (1950), Oregon.
- Gloria Hubbard**, B.A., Research Assistant in Oral Biology (1969).  
B.A. (1966), Wayne State (Nebraska).
- Donna Vee Hurley**, R.D.H., Instructor in Dental Hygiene (1969).  
R.D.H. (1964), Oregon.
- Ernest A. Hurley**, D.M.D., Associate Professor of Dentistry; Director of Student Affairs (1951).  
D.M.D. (1951), Oregon.
- Margie P. Hurley**, Instructor in Radiology (1965).

† Volunteer  
‡ Part time

## ADMINISTRATION AND FACULTY

- ‡**Peter B. Hutchinson**, M.D., Clinical Associate in Medicine (1969).  
B.A. (1959), Johns Hopkins; M.D. (1963), McGill.
- James W. Irwin**, Ph.D., Assistant Professor of Biophysics (1967).  
B.A. (1953), M.A. (1963), Ph.D. (1965), Stanford.
- Janice N. Ishida**, B.A., B.S., Instructor in Pedodontics (1969).  
B.A. (1962), Portland State; B.S. (1969), Columbia.
- †**Louis A. Jansky**, D.D.S., Clinical Assistant in Dentistry (1964).  
B.A. (1950), Augustana College; M.S. (1953), D.D.S. (1960), Illinois.
- John P. Jarabak**, D.D.S., Professor of Dentistry (1960).  
D.D.S. (1939), Indiana.
- J. Theodore Jastak**, D.D.S., Associate Professor of Dentistry (1969).  
D.D.S. (1962), Seton Hall; Ph.D. (1967), Rochester.
- ‡**Milton H. Johnson**, D.M.D., Clinical Associate in Dentistry (1947).  
D.M.D. (1946), Oregon.
- ‡**Frederick C. Judy**, D.M.D., Clinical Assistant in Dentistry (1969).  
B.S. (1962), Washington State; D.M.D. (1966), Oregon.
- Ellis B. Jump**, Ph.D., Professor of Anatomy; Chairman of Anatomy Department (1947).  
A.B. (1932), Dartmouth; D.M.D. (1936), Harvard; Ph.D. (1944), Chicago.
- ‡**Eugene O. Kelley**, D.M.D. Clinical Associate in Dentistry (1963).  
B.S. (1957), Oregon State; D.M.D. (1959), Oregon.
- ‡**Donald F. Kelly**, M.D., Clinical Associate in Pedodontics (1961).  
B.S. (1949), University of Portland; M.D. (1954), Oregon.
- Alice M. Kelty**, B.S., Instructor in Oral Surgery (1968).  
B.S. (1959), Washington.
- Thorn Kinersly**, D.M.D., Associate Professor of Dentistry (1964).  
D.M.D. (1948), Oregon.
- †**Max C. King**, D.D.S., Adjunct Clinical Associate in Dentistry (1968).  
B.S. (1951), Abilene; D.D.S. (1956), Texas.
- ‡**Gerald C. Klein**, D.M.D., Clinical Assistant in Dentistry (1967).  
D.M.D. (1967), Oregon.
- ‡**Paul E. Klein**, D.D.S., Clinical Associate in Dentistry (1962).  
D.D.S. (1949), M.S.D. (1954), Northwestern.
- ‡**John V. Krippaehne**, D.M.D., Clinical Associate in Dentistry (1959).  
B.S. (1951), Washington; D.M.D. (1959), Oregon.
- ‡**Herbert A. Krumbein**, D.M.D., Clinical Associate in Dentistry (1942).  
D.M.D. (1939), Oregon.
- Herbert B. Lafitte**, D.D.S., Professor of Dentistry; Chairman of Periodontology Department (1969).  
D.D.S. (1944), Minnesota; B.S.D. (1956), Baylor.
- ‡**Robert L. Landis**, D.M.D., Clinical Associate in Dentistry (1942).  
B.S. (1939), University of Portland; M.A. (1941), D.M.D. (1944), Oregon.
- ‡**Walter R. Lindsay**, D.D.S., Clinical Associate in Dentistry (1967).  
D.D.S. (1951), Detroit.

## FACULTY

- †**Walter R. List**, D.D.S., Clinical Associate in Dentistry (1969).  
D.D.S. (1965), Marquette; M.S.D. (1968), Minnesota.
- Kuo Hwa Lu**, Ph.D., Professor of Biostatistics; Chairman of Biostatistics Department (1960).  
B.S. (1945), National Central University, Chungking, China; M.S. (1948), Ph.D. (1951), Minnesota.
- Oscar N. Lucas**, Ph.D., Associate Professor of Dentistry (1968).  
D.D.S. (1957), Buenos Aires; Ph.D. (1965), Saskatchewan.
- †**David H. Maas**, D.M.D., Clinical Associate in Dentistry (1969).  
B.S. (1954), Oregon State; D.M.D. (1957), Oregon.
- David B. Mahler**, Ph.D., Professor; Chairman of Dental Materials Department (1956).  
B.S. (1944), M.S. (1948); Ph.D. (1956), Michigan.
- †**Joseph D. Matarazzo**, Ph.D., Professor of Psychology (1968).  
B.A. (1946), Brown; M.S. (1950), Ph.D. (1952), Northwestern.
- Richard J. Mathewson**, D.D.S., Assistant Professor of Dentistry; Director, Dental Special Services Clinic (1968).  
D.D.S. (1959), Michigan; Pedodontic Cert. (1965), Detroit.
- †**Gary T. McGaughey**, D.M.D., Clinical Associate in Dentistry (1965).  
D.M.D. (1965), Oregon.
- Frank McKeown**, D.M.D., Clinical Associate in Dentistry (1969).  
B.A. (1957), Washington; B.S. (1965), D.M.D. (1969), Oregon.
- †**Wendell H. McLin**, D.M.D., Clinical Assistant in Dentistry (1967).  
B.S. (1960), Willamette; D.M.D. (1964), Oregon.
- †**David McMorine**, D.M.D., Clinical Assistant in Dentistry (1968).  
B.S. (1965), Portland State; D.M.D. (1965), Oregon.
- †**Thomas C. Merchant**, D.M.D., Clinical Associate in Dentistry (1968).  
B.S. (1960), Oregon State; D.M.D. (1963), Oregon.
- Ralph Merrill**, D.D.S., Associate Professor of Dentistry; Chairman of Oral Surgery Department; Chief of Dental Services in Hospitals and Clinics (1968).  
D.D.S. (1959), Washington; M.Sc.D. (1963), Boston.
- John C. Mitchem**, D.M.D., Associate Professor of Dentistry (1965).  
B.S. (1954), M.S. (1958), Oregon State; D.M.D. (1963), M.S. (1965), Oregon.
- †**Gerald G. Mock**, D.M.D., Clinical Associate in Dentistry (1964).  
B.S. (1953), D.M.D. (1962), Oregon.
- Edward H. Montgomery**, Ph.D., Assistant Professor of Pharmacology (1967).  
B.S. (1961), M.S. (1963), Houston; Ph.D. (1967), Texas.
- †**Jan J. Muller**, D.D.S., Clinical Associate in Dentistry (1953).  
D.D.S. (1939), Minnesota.
- Shinji Nakamura**, D.D.S., Instructor in Dentistry (1968).  
D.D.S. (1964), D.D.Sc. (1968), Tokyo.
- Arnol R. Neely**, D.M.D., Professor of Dentistry (1950).  
D.M.D. (1938), North Pacific.
- †**Jay G. Nelson**, D.M.D., Clinical Associate in Dentistry (1966).  
D.M.D. (1964), Oregon.
- †**Frank W. Nettleship**, D.M.D., Clinical Assistant in Dentistry (1968).  
B.S. (1964), Oregon State; D.M.D. (1966), Oregon.

## ADMINISTRATION AND FACULTY

- ‡**Kaye P. Nichols**, D.M.D., Clinical Assistant in Dentistry (1967).  
B.S. (1962), Brigham Young; D.M.D. (1967), Oregon.
- ‡**Theodore R. Norman**, D.M.D., Clinical Assistant in Dentistry (1969).  
B.S. (1941), Lewis and Clark; D.M.D. (1951), Oregon.
- ‡**Cyril O'Brien**, D.D.S., Clinical Associate in Dentistry (1962).  
B.S. (1946), D.D.S. (1948), Nebraska; M.S. (1954), Illinois.
- †**George R. Ogilvie**, D.M.D., Clinical Associate in Operative Dentistry (1968).  
D.M.D. (1935), North Pacific.
- †**Harry A. Orr, Jr.**, D.D.S., Clinical Associate in Dentistry (1967).  
A.B. (1951), Duke; D.D.S. (1966), Tennessee.
- †**Terrence D. Orton**, D.M.D., Clinical Assistant in Dentistry (1969).  
B.S. (1963), Portland State; D.M.D. (1967), Oregon.
- Richard B. Parker**, Ph.D., Professor of Microbiology; Chairman, Division of Oral Biology; Chairman, Microbiology Department (1959).  
B.S. (1950), M.S. (1952), Ph.D. (1956), Oregon State.
- †**Robert S. Parker**, D.M.D., Clinical Associate in Dentistry (1962).  
D.M.D. (1939), Oregon.
- ‡**William L. Parker**, Ph.D., Adjunct Professor in Child Study (1958).  
B.A. (1936), Reed; M.A. (1938), Ph.D. (1941), Illinois.
- Duane R. Paulson**, D.D.S., Professor of Dentistry (1956).  
B.S. (1949), Puget Sound; D.D.S. (1954), Northwestern.
- ‡**Richard R. Peterson**, D.M.D., Clinical Assistant in Dentistry (1969).  
D.M.D. (1966), Oregon.
- Mavis A. Petty**, B.S., Instructor; Budget Officer (1966).  
B.S. (1953), Oregon State.
- ‡**James E. Pinardi**, D.M.D., Clinical Associate in Dentistry (1967).  
D.M.D. (1957), Oregon.
- Donald R. Porter**, D.D.S., Professor of Dentistry; Chairman of Pedodontics Department (1953).  
D.D.S. (1951), M.S. (1953), Michigan.
- Alene L. Prairie**, B.A., Instructor, Department of Oral Diagnosis (1963).  
B.A. (1926), Oregon.
- Gerald H. Prescott**, D.D.S., Assistant Professor of Dentistry (1968).  
B.S. (1959), Idaho; D.D.S. (1964), Washington Univ. (St. Louis); M.S. (1966), Indiana.
- Clarence O. Pruitt**, D.M.D., Associate Professor of Dentistry (1956).  
B.S. (1948), Wilberforce State; D.M.D. (1954), Oregon.
- ‡**E. Robert Quinn**, D.M.D., Clinical Associate in Dentistry (1957).  
D.M.D. (1955), Oregon.
- Robert Quinton-Cox**, Ph.D., Associate Professor of Anatomy (1966).  
F.I.M.L.T. (1954), Sir John Mass (London); Int.B.Sc. (1956), Woolwich Poly (London); Ph.D. (1963), Emory.
- Richard R. Ranney**, D.D.S., Assistant Professor of Dentistry (1969).  
D.D.S. (1963), Iowa; M.S. (1969), Rochester.
- Phillip D. Ray**, B.S., Instructor, Registrar (1967).  
B.S. (1967), Portland State.

## FACULTY

- †**Robert W. Rempfer**, Ph.D., Adjunct Professor of Biostatistics (1968).  
B.A. (1933), South Dakota; M.A. (1934), Northwestern; Ph.D. (1937), Illinois.
- Arthur Retzlaff**, D.D.S., Assistant Professor of Dentistry (1968).  
D.D.S. (1960), Alberta; M.Sc. (1969), Manitoba.
- Darwin R. Reveal**, B.S., Assistant Professor; Business Manager (1964).  
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D.D.S. (1965), St. Louis U.
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B.S.C.E. (1935), Idaho; D.M.D. (1948), Oregon.
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B.A. (1942), Utah.
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B.S. (1951), Utah; D.M.D. (1958), M.S. (1963), Oregon.
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- ‡**Richard K. Stowell**, D.D.S., Clinical Assistant in Dentistry (1969).  
D.D.S. (1965), California.
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D.D.S. (1938), Northwestern.
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## FACULTY

**Robert F. Watkins, D.M.D.**, Associate Professor of Dentistry; Chairman of Endodontics Department (1949).  
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