

UNIVERSITY OF OREGON
DENTAL SCHOOL

PORTLAND, OREGON

CATALOG ISSUE
1963-64

BULLETIN



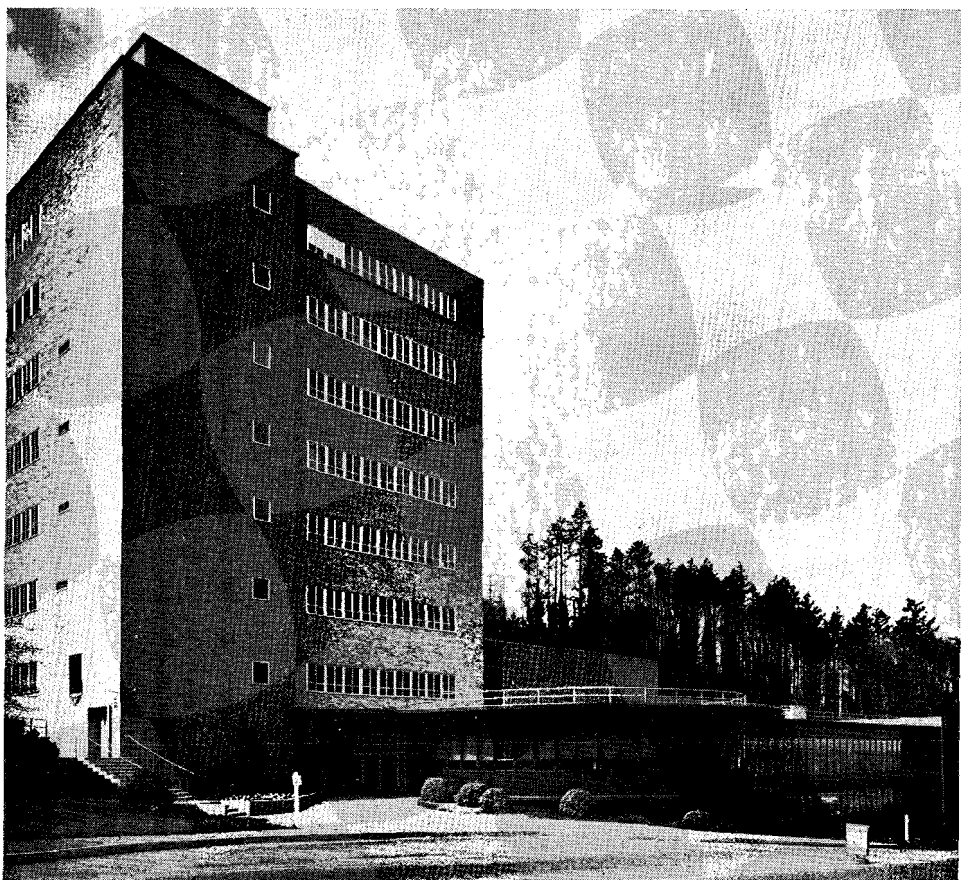
OREGON STATE SYSTEM OF HIGHER EDUCATION

UNIVERSITY OF OREGON BULLETIN

NUMBER 115

JULY 1963

Entered as second-class matter, January 18, 1950, at the post office at Eugene, Oregon, under act of August 24, 1912. Issued nine times a year, in January, March, April, May (two numbers), June, July, August, and September. Published by the Oregon State Board of Higher Education, at the University of Oregon, Eugene, Oregon.



UNIVERSITY OF OREGON DENTAL SCHOOL

611 S.W. Campus Drive, Jackson Park

Portland 1, Oregon

**UNIVERSITY
OF OREGON
DENTAL
SCHOOL**

1963-64 CATALOG

PORTLAND, OREGON

Table of Contents

OREGON STATE SYSTEM OF HIGHER EDUCATION.....	5
STATE BOARD OF HIGHER EDUCATION.....	6
STATE SYSTEM OFFICERS.....	7
DENTAL SCHOOL CALENDAR, 1963-64.....	8
ADMINISTRATIVE OFFICERS.....	9
COMMITTEES.....	10
FACULTY.....	12
GENERAL INFORMATION.....	20
Dentistry as a Career.....	20
The Dental School Program.....	20
History of the Dental School.....	21
Administration.....	21
Facilities.....	22
Library.....	22
Dental Student Store.....	22
Student Health Service.....	23
Department of Illustration.....	23
Oral Tumor Registry.....	23
Dental Assistant Utilization.....	23
Cleft Palate Clinic.....	24
Research.....	24
Child Study Clinic.....	24
Statistical Laboratory.....	25
Scholarships and Awards.....	25
Loan Funds.....	27
Organizations.....	29
Housing.....	30
Alumni Association.....	30
Advisory Council.....	31
Special Services.....	31
ADMISSION AND REQUIREMENTS.....	32
Admission.....	32
Application Procedure.....	34
Registration.....	36
Scholarship Regulations.....	36
Fees and Expenses.....	38
CURRICULA.....	41
Undergraduate Program.....	41
Graduate Program.....	44
Postgraduate Study.....	46
Description of Courses.....	47
Anatomy.....	47

CURRICULA (continued)

Description of Courses (continued)

Bacteriology.....	48
Biochemistry.....	49
Biostatistics.....	50
Crown and Bridge.....	50
Dental Education.....	51
Dental Materials.....	52
Dental Orientation.....	53
General Clinic Practice.....	53
Human Biology.....	53
Nutrition.....	54
Operative Dentistry.....	54
Oral Diagnosis.....	56
Oral Roentgenology.....	57
Oral Surgery.....	58
Orthodontics.....	59
Pathology (General and Oral).....	60
Pedodontics.....	61
Periodontology.....	63
Pharmacology.....	64
Physiology.....	65
Principles of Medicine.....	66
Professional Adjustment.....	66
Prosthetics.....	69
Public Health Dentistry.....	70
DENTAL HYGIENE.....	71
Opportunities for Dental Hygienists.....	71
Admission.....	72
Registration.....	74
Fees and Expenses.....	74
Facilities.....	75
Dental Hygiene Curriculum.....	75
Description of Courses.....	76
ENROLLMENT AND DEGREES.....	80
Degrees Conferred June 13, 1963.....	80
Enrollment 1962-63.....	81
INDEX.....	84

Oregon State System of Higher Education

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

The institutions of the State System of Higher Education are the University of Oregon at Eugene, Oregon State University at Corvallis, Portland State College 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 and the University of Oregon Dental School are located in Portland. The General Extension Division, representing all the institutions, has headquarters in Portland and offices in Ashland, Corvallis, Eugene, La Grande, Monmouth, and Salem.

At Oregon College of Education, Southern Oregon College, and Eastern Oregon College, students may complete major work in teacher education or general studies or enroll in a preprofessional program.

Portland State College offers major work in general studies and selected liberal arts and professional fields as well as certain preprofessional programs.

At the University of Oregon and Oregon State University, major curricula, both liberal and professional, are grouped on either campus in accordance with the distinctive functions of the respective institutions in the unified state system of higher education.

Terminal courses in technical and semiprofessional areas are offered at Oregon Technical Institute.

An interinstitutional booklet, *Your Education*, which outlines the curricula of the several institutions and contains other information, is available. For a copy, write to Division of Information, Board of Higher Education, P.O. Box 5175, Eugene, Oregon.

State Board of Higher Education

	Term Expires
ALLAN HART, Portland.....	1964
DOUGLAS MCKEAN, Beaverton.....	1964
RALPH E. PURVINE, Salem.....	1965
WILLIAM E. WALSH, Coos Bay.....	1965
JOHN MERRIFIELD, Portland.....	1966
CHARLES R. HOLLOWAY, JR., Portland.....	1967
ELIZABETH H. JOHNSON, Redmond.....	1968
J. W. FORRESTER, JR., Pendleton.....	1969
JOHN W. SNIDER, Medford.....	1969

Officers

WILLIAM E. WALSH.....	President
CHARLES R. HOLLOWAY, JR.....	Vice-President
J. W. FORRESTER, JR.....	Member, Executive Committee

ROY E. LIEUALLEN, Ed.D., L.H.D., Chancellor
RICHARD L. COLLINS, M.A., C.P.A., Secretary of Board

Office of the State Board of Higher Education
Post Office Box 5175
Eugene, Oregon

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

Oregon State System of Higher Education Officers

ROY E. LIEUALLEN, Ed.D., L.H.D., Chancellor

ARTHUR S. FLEMMING, LL.D. President, University of Oregon	JAMES H. JENSEN, Ph.D. President, Oregon State University
DAVID W. E. BAIRD, M.D., LL.D. Dean, Medical School	ELMO N. STEVENSON, Ed.D. President, Southern Oregon College
HAROLD J. NOYES, D.D.S., M.D. Dean, Dental School	FRANK B. BENNETT, Ed.D. President, Eastern Oregon College
BRANFORD P. MILLAR, Ph.D. President, Portland State College	LEONARD W. RICE, Ph.D. President, Oregon College of Education
WINSTON D. PURVINE, A.B., LL.D. Director, Oregon Technical Institute	

RICHARD L. COLLINS, M.A., C.P.A.....	Secretary, Board of Higher Education ; Budget Director
HERBERT A. BORK, M.S., C.P.A.....	Comptroller and Bursar
MILES C. ROMNEY, Ph.D.....	Vice-Chancellor for Academic Affairs
JAMES W. SHERBURNE, Ph.D.....	Vice-Chancellor for Continuing Education
DONALD R. LARSON, B.A.....	Assistant Chancellor ; Director of Public Affairs
FRANCIS B. NICKERSON, Ed.D.....	Assistant to the Chancellor ; Chairman, High School-College Relations Committee
WILLIAM H. CARLSON, M.A.....	Director of Libraries
AUGUST L. STRAND, Ph.D., LL.D.....	Director of Institutional Research
WOLF D. VON OTTERSTEDT, LL.B.....	Assistant Attorney General, assigned to Board Office

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.....	1950-1955
JOHN R. RICHARDS, Ph.D.....	1955-1961

Dental School Calendar, 1963-64

Fall Term

September 17, 1963 through December 14, 1963

Registration.....	September 17-18
Classes begin.....	September 19
Thanksgiving holidays.....	November 28-30
Classes end.....	December 7
Final examinations.....	December 9-14
Term ends.....	December 14
Christmas vacation.....	December 16-January 1

Winter Term

January 2, 1964 through March 21, 1964

Classes begin.....	January 2
Classes end.....	March 14
Final examinations.....	March 16-21
Term ends.....	March 21
Spring vacation.....	March 23-28

Spring Term

March 30, 1964 through June 20, 1964

Classes begin.....	March 30
Memorial Day.....	May 30
Classes end.....	June 13
Final examinations.....	June 15-20
Commencement.....	June 18
Term ends.....	June 20

Summer Session, 1964

June 29, 1964 through August 8, 1964

Fall Term, 1964-65

Registration.....	September 22-23
-------------------	-----------------

University of Oregon Dental School

Administrative Officers

ROY E. LIEUALLEN, Ed.D., L.H.D., Chancellor, Oregon State System of Higher Education; Professor.

ARTHUR S. FLEMMING, LL.D., President, University of Oregon; Professor.

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

EUGENE W. BAUER, B.S., Business Manager; Assistant to the Dean; Associate Professor.

LOUIS G. TERKLA, D.M.D., Assistant to the Dean; Professor of Dentistry.

Business Office

EUGENE W. BAUER, B.S., Business Manager; Assistant to the Dean; Associate Professor.

MAVIS A. PETTY, B.S., Assistant Business Manager.

BYRON E. PHILLIPS, B.A., Personnel Officer.

Registrar's Office

ERNEST A. HURLEY, D.M.D., Registrar; Associate Professor of Dentistry.

Clinics

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

RICHARD M. ADAMS, B.A., M.S.D., D.M.D., in Charge of Cleft Palate Dental Clinic.

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

H. CLINE FIXOTT, D.M.D., In Charge of Oral Roentgenology Clinic.

ARTHUR E. FRY, D.D.S., In Charge of Oral Diagnosis Clinic.

HAROLD E. GRUPE, D.D.S., In Charge of Periodontology Clinic.

EVELYN R. HANNON, B.S., R.N., R.D.H., In Charge of Dental Hygiene Clinic.

ERNEST H. HIXON, D.D.S., M.S., In Charge of Orthodontic Clinic.

DONALD R. PORTER, D.D.S., M.S., In Charge of Pedodontic Clinic.

NORMAN H. RICKLES, D.D.S., M.S., In Charge of Oral Tumor Registry.

BHIM SEN SAVARA, L.D.S., M.S., D.M.D., In Charge of Child Study Clinic.

CHARLES J. STOUT, B.S., B.A., D.M.D., In Charge of Prosthetics Clinic.

WILBUR N. VAN ZILE, D.D.S., In Charge of Oral Surgery Clinic.

ROBERT F. WATKINS, D.M.D., In Charge of Root Canal Clinic.

VINSON M. WEBER, M.A., D.D.S., In Charge of Postgraduate Clinic.

WYMAN H. WILSON, D.D.S., In Charge of Crown and Bridge Clinic.

Educational Adviser

GEORGE E. BATTERSON, M.A., Educational Adviser; Professor.

Office of Public Affairs

DOROTHY LOIS SMITH, B.E., B.A., Public Information Officer.

Biostatistics

KUO HWA LU, B.S., M.S., Ph.D., Head of Biostatistics Department; Professor of Biostatistics.

Library

THOMAS H. CAHALAN, M.S. in L.S., Librarian; Assistant Professor.

Illustration Department

KARL H. HEPPE, Head of Illustration Department; Instructor in Visual Education.

Student Health Service

JOSEPH B. TRAINER, B.S., M.S., M.D., Director, Student Health Service; Associate Professor of Medicine.

ESTILL N. DEITZ, M.D., Assistant Student Health Physician; Clinical Associate in Medicine.

Postgraduate Education

VINSON M. WEBER, A.B., M.A., D.D.S., Head of Department of Postgraduate Education; Professor of Dentistry.

Cafeteria

LOTTE W. MAGNUS, B.S., Cafeteria Manager.

Buildings and Grounds

A. J. CLEMONS, Superintendent of Physical Plant; Assistant Professor.

CHARLES J. ANDERSON, Assistant Superintendent of Physical Plant.

RAY SICHAU, Maintenance Engineer, Dental School.

Committees

Executive: Dr. Erwin Bender, Dr. Ernest Hurley, Dr. Donald Porter, Dr. Louis Terkla, Dr. Marshall Snyder, chairman.

Admissions: Mr. George Batterson, Miss Evelyn Hannon, Dr. Ernest Hurley, Dr. Arnol Neely, Dr. Duane Paulson, Dr. Charles Stout, Dr. Ellis Jump, vice-chairman, Dr. Keith Claycomb, chairman.

Aptitude Testing (U. of O.): Dr. Kenneth Cantwell, Dr. Clarence Pruitt, Dr. Charles Stout, Dr. Wyman Wilson, Dr. Louis Terkla, chairman.

Archives: Mr. Thomas Cahalan, Dr. Thomas Holder, Dr. Donald Passmore, Dr. H. Cline Fixott, chairman.

Awards and Scholarship: Miss Evelyn Hannon, Dr. Erwin Bender, Dr. Ernest Hurley, Dr. Louis Terkla, Mr. Eugene Bauer, chairman.

Biology: Dr. Leonard Elwell, Mr. Dean Gatewood, Miss Evelyn Hannon, Mrs. Marie Slawson, Dr. Morris Weaver, Mr. Myron Tedford, chairman.

Clinic: Dr. Kenneth Cantwell, Dr. H. Cline Fixott, Dr. Arthur Fry, Dr. Harold Grupe, Miss Evelyn Hannon, Dr. Ernest Hixon, Dr. Duane Paulson, Dr. Charles Stout, Dr. Wilbur Van Zile, Dr. Wyman Wilson, Dr. Erwin Bender, chairman.

Commencement: Miss Evelyn Hannon, Dr. Ernest Hurley, Dr. John Jarabak, Dr. Donald Reese, chairman.

Curriculum: Mr. George Batterson, Dr. Robert Bruckner, Dr. Keith Claycomb, Dr. Arthur Fry, Mr. Myron Tedford, Dr. Wyman Wilson, Dr. Kenneth Cantwell, chairman.

Dental Health Education: Dr. Harold Grupe, Dr. Demetrios Hadjimarkos, Mrs. Lorna Klier, Dr. Donald Porter, Mrs. Carolyn Highley, Mrs. Rachel Espey, chairman.

Dental School Loan Fund: Dr. Erwin Bender, Dr. Ernest Hurley, Student Body President, Mr. Eugene Bauer, chairman.

Disaster Relief: Dr. Keith Claycomb, Dr. Arthur Fry, Dr. John Jarabak, Mr. Eugene Bauer, Dr. Nilkanth Phatak, Mr. George Batterson, chairman.

Evaluation of Students (Freshmen, Sophomores): Dr. Arthur Fry, Dr. Harold Grupe, Dr. Ernest Hixon, Dr. John Jarabak, Dr. Herbert Krumbein, Dr. Robert Lang, Dr. David Mahler, Dr. Arnol Neeley, Dr. Donald Porter, Dr. Charles Stout, Dr. Louis Terkla, chairman.

Examination Procedures: Dr. Dale Canfield, Mr. Dean Gatewood, Dr. Charles Stout, Dr. Richard Parker, chairman.

Exhibit: Mr. George Batterson, Mr. Karl Heppe, Miss Dorothy Lois Smith, Dr. Arthur Aplin, chairman.

Faculty Representatives to Meeting of American Association of Dental Schools, March 1963: Dr. Harold Noyes, Mr. Myron Tedford.

Faculty Seminar: Dr. Richard Adams, Dr. David Mahler, Dr. Evelyn Strange, Dr. Vinson Weber, Dr. Wyman Wilson, Mr. George Batterson, chairman.

Graduate Education: Dr. Keith Claycomb, Dr. Ernest Hixon, Dr. Kuo Lu, Dr. David Mahler, Dr. Nilkanth Phatak, Dr. Donald Porter, Dr. Norman Rickles, Dr. Ellis Jump, chairman.

Isotope: Dr. Kenneth Cantwell, Dr. Douglas Buck, Dr. Keith Claycomb, Dr. David Mahler, Dr. Nilkanth Phatak, Dr. Norman Rickles, Dr. Fred Sorenson, Mr. Dean Gatewood, chairman.

Library: Mr. Thomas Cahalan, Mrs. Rachel Espey, Dr. Norman Rickles, Dr. Demetrios Hadjimarkos, chairman.

National Testing Programs: Miss Evelyn Hannon, Dr. John Jarabak, Dr. Morris Weaver, Mr. George Batterson, chairman.

Patent: Mr. Eugene Bauer, Mr. Dean Gatewood, Dr. Richard Parker, Dr. Arthur Aplin, chairman.

Research: Dr. Kenneth Cantwell, Dr. Ernest Hixon, Dr. Kuo Lu, Dr. David Mahler, Dr. Donald Porter, Dr. Norman Rickles, Dr. Bhim Savara, Dr. Nilkanth Phatak, chairman.

Scholarship: Dr. Robert Bruckner, Dr. Charles Stout, Mr. Myron Tedford, Dr. Wyman Wilson, Dr. Marshall Snyder, chairman.

Student Affairs: Dr. Ernest Hurley, Dr. Fred Sorenson, chairman.

Student Appeals for Reinstatement: Dr. Keith Claycomb, Dr. Leonard Elwell, Executive Committee, Clinic Committee, Scholarship Committee, Business Manager (Mr. Bauer).

Faculty*

M. MONTE BETTMAN, D.M.D., Clinical Associate Emeritus of Periodontology.
HORACE M. MILLER, A.B., D.M.D., Professor Emeritus of Exodontics.

- RICHARD M. ADAMS, D.M.D., Assistant Professor of Dentistry; Chief Dental Consultant, Cleft Palate Dental Clinic (1959).
D.M.D. (1945), Tufts; B.A. (1947), Denver; M.S.D. (1962), Oregon.
- A. BRUCE ADY, B.S., Research Assistant in Dental Materials (1958).
B.S. (1957), Oregon State.
- ROBERT D. ALFORD, D.M.D., Clinical Associate in Dentistry (1956).
B.S. (1953), D.M.D. (1954), Oregon.
- FREEMAN B. ANDERSON, Ph.D., Instructor in English Composition (1960).
Ph.D. (1952), Stanford.
- JOHN P. ANDERSON, D.M.D., Clinical Associate in Dentistry (1962).
B.S. (1952), D.M.D. (1953), Oregon; M.S. (1962), Washington.
- ARTHUR W. APLIN, D.M.D., Associate Professor of Dentistry (1957).
B.S. (1951), D.M.D. (1955), Oregon.
- JAMES L. BARNETT, D.M.D., Clinical Assistant in Dentistry (1959).
D.M.D. (1959), Oregon.
- SARA J. BARNUM, B.S., Research Assistant in Pathology (1963).
B.S. (1963), Portland State.
- WILLIAM L. BARNUM, D.M.D., Lecturer in Public Health (1948).
D.M.D. (1940), Oregon.
- JOHN BARTELS, D.M.D., Clinical Associate in Dentistry (1950).
D.M.D. (1929), North Pacific.
- GEORGE E. BATTERSON, M.A., Educational Adviser (Professor) (1947).
B.A. (1936), M.A. (1936), Oregon.
- EUGENE W. BAUER, B.S., Business Manager; Assistant to the Dean; Associate Professor (1962).
B.S. (1958), Lewis and Clark.
- ERWIN T. BENDER, D.D.S., Professor of Dentistry; Superintendent of Dental Clinics (1943).
D.D.S. (1924), Iowa.
- JAMES S. BENNETT, D.M.D., Assistant Professor of Dentistry, Department of Pathology (1961).
B.A. (1952), Reed; D.M.D. (1958), M.S. (1961), Oregon.
- P. KATHLEEN BOWMAN, B.S., Research Assistant in Pathology (1962).
B.S. (1961), Brigham Young.
- CHARLES BRADLEY, M.D., Clinical Associate in Pedodontics (1963).
B.S. (1925), Cornell; M.D. (1929), Harvard.
- LAUREL BROWN, D.M.D., Clinical Associate in Dentistry (1962).
B.S. (1955), Oregon State; D.M.D. (1957), Oregon; M.S. (1962), Northwestern.

* The following list represents the Dental School faculty for the academic year 1963-64, together with new faculty appointments as of July 1, 1963; academic ranks are as of July 1, 1963. The year in parenthesis following the name of each faculty member is the year of original appointment to the faculty.

- INEZ E. BROWNLEE, M.S., Assistant Professor in Bacteriology (1963).
B.A. (1929), Reed; M.S. (1945), Oregon.
- ROBERT J. BRUCKNER, D.D.S., Associate Professor of Dentistry, Department of Pathology (1959).
D.D.S. (1944), Maryland; M.S. (1948), Western Reserve.
- DOUGLAS BUCK, D.D.S., Associate Professor of Dentistry (1962).
B.S. (1954), D.D.S. (1960), M.S.D. (1962), Minnesota.
- WESLEY BULLOCK, B.S., Research Assistant in Bacteriology (1963).
B.S. (1963), Portland State.
- THOMAS H. CAHALAN, M.S., Librarian (Assistant Professor) (1946).
B.A. (1940), Iowa; B.S. (1941), M.S. (1945), Illinois.
- LEWIS P. CAMPBELL, JR., D.M.D., Clinical Assistant in Dentistry (1962).
B.S. (1936), D.M.D. (1940), Oregon.
- KENNETH R. CANTWELL, D.M.D., Professor of Dentistry; Head of Operative Dentistry Department (1946).
B.S. (1938), Utah State; D.M.D. (1943), Oregon.
- LORETTA F. CASE, C.R.N.A., Assistant Professor of Dental Science (1944).
B.S. (1924), C.R.N.A. (1940), Marquette Trinity Hospital.
- ROBERT L. CASTEEL, M.A., Instructor in Public Speaking (1962).
B.A. (1954), Pacific University; M.A. (1960), Washington.
- STEPHEN M. CLARK, D.M.D., Assistant Professor of Dentistry (1960).
B.A. (1954), Stanford; D.M.D. (1958), Oregon.
- C. KEITH CLAYCOMB, Ph.D., Professor of Biochemistry; Head of Biochemistry Department (1951).
B.S. (1947), M.S. (1948), Ph.D. (1951), Oregon.
- A. J. CLEMONS, Superintendent of Physical Plant (Assistant Professor) (1956).
- THOMAS COTTLE, D.D.S., Instructor in Dentistry (1962).
B.S. (1951), Utah State; D.D.S. (1958), Marquette.
- JAMES A. COWAN, M.A., Lecturer in English Composition (1962).
B.S. (1958), Portland State; M.A. (1961), Oregon.
- STEPHEN DANCHOK, D.M.D., Clinical Assistant in Dentistry (1962).
D.M.D. (1961), Oregon.
- RAY J. DAVIS, D.M.D., Clinical Associate in Dentistry (1947).
D.M.D. (1932), North Pacific.
- ESTILL N. DEITZ, M.D., Clinical Associate in Medicine; Assistant Student Health Physician (1959).
M.D. (1946), Long Island College of Medicine.
- JACK DeMENT, Research Consultant in Biophysics and Pharmacology (1961).
- JOHN L. DEVNEY, D.D.S., Instructor in Dentistry (1962).
D.D.S. (1936), Minnesota.
- MARIAN H. DICKEY, B.S., Clinical Assistant in Nutrition (1963).
B.S. (1956), Idaho.
- JOHN P. DICKSON, D.M.D., Associate Professor of Dentistry; Head of Dental Assistants Utilization Program (1960).
D.M.D. (1950), Oregon.
- WILSON C. DOCKERY, Student Activities Director (Instructor) (1960).
B.S. (1936), Oregon State.
- BETTY DRUCK, B.S., Lecturer in Professional Adjustment (1963).
B.S. (1944), Washington.
- ETHEL M. DVORAK, B.S., Research Assistant in Biochemistry (1959).
B.S. (1942), Northwestern.

- LEONARD H. ELWELL, Ph.D., Professor of Physiology; Head of Physiology Department (1959).
A.B. (1935), Kalamazoo; M.S. (Zoology) (1937), Kansas State; M.S. (Physiology) (1941), Ph.D. (1951), Michigan.
- ROBERT H. ENGLISH, D.Ed., Lecturer in Public Speaking (1961).
B.A. (1947), M.A. (1950), College of Pacific; D.Ed. (1961), Oregon.
- RACHEL K. ESPEY, R.D.H., Assistant Professor of Dental Hygiene (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.
- FRANK G. EVERETT, D.M.D., M.D., Clinical Associate in Dentistry (1939).
M.D. (1932), Vienna Medical School; B.S. (1941), D.M.D. (1941), M.S. (1948), Oregon.
- H. CLINE FIXOTT, D.M.D., Professor of Dentistry; Head of Oral Roentgenology Department (1947).
D.M.D. (1938), Oregon.
- LEO J. FREIERMUTH, M.D., Clinical Associate in Pathology (1961).
B.S. (1950), Idaho; M.D. (1954), Washington University, St. Louis.
- ALAN H. FRUM, D.M.D., Instructor in Dentistry (1963).
D.M.D. (1960), Oregon.
- ARTHUR E. FRY, D.D.S., Professor of Dentistry; Head of Oral Diagnosis Department (1953).
D.D.S. (1940), Iowa.
- DEAN C. GATEWOOD, M.A., Associate Professor of Biochemistry (1956).
B.A. (1950), Willamette; M.A. (1953), Oregon.
- DONALD GERMAIN, Phc., Clinical Assistant in Pharmacology (1963).
Phc. (1932), Oregon State.
- DORIS A. GOOD, B.S., Instructor in Nutrition (1951).
B.S. (1938), Nebraska.
- LEROY GOODWIN, D.M.D., Clinical Assistant in Dentistry (1961).
D.M.D. (1956), Oregon.
- MURIEL GREGORIUS, B.S., Research Assistant in Bacteriology (1961).
B.S. (1961), Lewis and Clark.
- HAROLD E. GRUPE, D.D.S., Professor of Dentistry; Head of Periodontology Department (1960).
D.D.S. (1932), Baylor.
- JOHN S. GULLIKSON, D.D.S., Assistant Professor of Dentistry (1962).
B.S. (1950), Washington State; D.D.S. (1954), Washington.
- DEMETRIOS M. HADJIMARKOS, D.D.S., Professor of Dentistry; Head of Public Health Dentistry Department (1953).
D.D.S. (1931), University of Athens Dental School; M.S.D. (1943), Northwestern; M.P.H. (1946), Harvard.
- WALTER B. HALL, D.D.S., Associate Professor of Dentistry (1963).
B.A. (1953), Cornell; D.D.S. (1957), Maryland.
- EVELYN R. HANNON, R.D.H., Associate Professor of Dental Hygiene; Head of Dental Hygiene Department (1951).
R.N., State of Kansas (1930), State of California (1937); R.D.H., University of Kansas City (1939), State of Kansas (1939), State of New York (1948); B.S. (1951), Columbia University Teachers College.
- LUCY HARTMAN, Instructor in Dentistry (1961).
- KARL H. HEPPE, Instructor in Visual Education; Head of Illustration Department (1958).
- HELMUTH G. HERMAN, D.M.D., Clinical Assistant in Dentistry (1960).
B.A. (1953), D.M.D. (1957), Oregon.

- CAROLYN HIGHLEY, B.S., Instructor in Dental Hygiene (1962).
R.D.H. (1960), State of Oregon; B.S. (1961), Oregon.
- MARILYN A. HILLIER, B.A., Research Assistant in Pathology (1961).
B.A. (1959), Northwest Nazarene College.
- ERNEST H. HIXON, D.D.S., Professor of Dentistry; Head of Orthodontics Department (1961).
D.D.S. (1945), M.S. (1949), Iowa.
- THOMAS D. HOLDER, D.M.D., Clinical Associate in Dentistry (1951).
B.A. (1928), D.M.D. (1940), Oregon.
- WILLIAM B. HOWARD, D.M.D., Lecturer in Professional Adjustment (1961).
B.S. (1947), Oregon State; D.M.D. (1950), Oregon.
- ERNEST A. HURLEY, D.M.D., Associate Professor of Dentistry; Registrar (1951).
D.M.D. (1951), Oregon.
- JOHN P. JARABAK, D.D.S., Associate Professor of Dentistry (1960).
D.D.S. (1939), Indiana.
- SYLVIA JENSEN, B.S., Research Assistant in Child Study Clinic (1962).
B.S. (1948), Oregon.
- MILTON H. JOHNSON, D.M.D., Clinical Associate in Dentistry, Department of Pathology (1947).
D.M.D. (1946), Oregon.
- RULON H. JOHNSON, D.M.D., Clinical Associate in Dentistry (1963).
D.M.D. (1943), Oregon.
- RICHARD R. JORDAN, D.M.D., Clinical Associate in Dentistry (1955).
D.M.D. (1955), Oregon.
- ELLIS B. JUMP, D.M.D., Professor of Anatomy; Head of Anatomy Department (1947).
A.B. (1932), Dartmouth; D.M.D. (1936), Harvard; Ph.D. (1944), Chicago.
- ALBERT G. KANTOR, D.M.D., Clinical Associate in Dentistry (1959).
D.M.D. (1937), Oregon.
- EUGENE O. KELLEY, D.M.D., Assistant Professor of 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.
- PAUL KLEIN, D.D.S., Clinical Associate in Dentistry (1962).
D.D.S. (1949), M.S.D. (1954), Northwestern.
- LORNA V. KLIER, Assistant Professor of Nutrition (1949).
- JOHN V. KRIPPAEHNE, D.M.D., Clinical Assistant 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.
- ROBERT L. LANDIS, D.M.D., Clinical Assistant in Dentistry (1962).
B.S. (1939), University of Portland; M.A. (1941), D.M.D. (1944), Oregon.
- ROBERT L. LANG, D.D.S., Professor of Dentistry (1952).
D.D.S. (1928), Minnesota.
- KUO HWA LU, Ph.D., Professor of Biostatistics; Head of Biostatistics Department (1960).
B.S. (1945), National Central University, Chungking, China; M.S. (1948), Ph.D. (1951), Minnesota.
- ALBERT F. MACHO, D.M.D., Assistant Professor of Dentistry (1957).
B.S. (1954), D.M.D. (1957), Oregon.

- DAVID B. MAHLER, Ph.D., Professor; Head of Dental Materials Department (1956).
B.S. (1944), M.S. (1948), Ph.D. (1956), Michigan.
- NICLAUS H. MARINEAU, D.M.D., Clinical Assistant in Dentistry (1963).
B.S. (1955), Oregon State; D.M.D. (1957), Oregon.
- DONALD H. MARMADUKE, LL.B., Lecturer in Professional Adjustment (1963).
B.E. (1946), Yale; LL.B. (1951), Harvard.
- MATTHEW A. MATTHEWS, D.D.S., Clinical Associate in Dentistry (1963).
D.D.S. (1951), Georgetown; M.S.D. (1953), Toronto.
- SHELBY MATTHIAS, B.A., Research Assistant in Bacteriology (1963).
B.A. (1963), Lewis and Clark.
- TED B. MCINNIS, D.M.D., Clinical Assistant in Dentistry (1960).
B.S. (1958), University of Portland; D.M.D. (1960), Oregon.
- GEORGE E. MILLER, D.M.D., Instructor in Dentistry (1961).
D.M.D. (1957), Oregon.
- PATRICIA A. MILLER, B.A., Research Assistant in Child Study Clinic (1962).
B.A. (1962), Rosary College.
- JAN J. MULLER, D.D.S., Associate Professor of Dentistry (1953).
D.D.S. (1939), Minnesota.
- ARNOL R. NEELY, D.M.D., Professor of Dentistry (1950).
D.M.D. (1938), Oregon.
- *JAMES D. NEWSTEAD, Ph.D., Assistant Professor of Anatomy (1963).
B.A. (1954), M.A. (1956), British Columbia; Ph.D. (1962), Oregon State.
- HAROLD J. NOYES, D.D.S., M.D., Professor of Dentistry; Dean of the Dental School (1946).
Ph.B. (1923), Chicago; B.S. (1928), D.D.S. (1928), Illinois; M.D. (1933), Rush.
- CYRIL O'BRIEN, D.D.S., Clinical Associate in Dentistry (1962).
B.S. (1946), D.D.S. (1948), Nebraska; M.S. (1954), Illinois.
- JOHN D. PARKER, D.M.D., Clinical Assistant in Dentistry (1963).
D.M.D. (1963), Oregon.
- RICHARD B. PARKER, Ph.D., Associate Professor of Bacteriology (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., Consultant, Child Study Clinic (1961).
B.A. (1936), Reed; M.A. (1938), Ph.D. (1941), Illinois.
- DONALD J. PASSMORE, D.M.D., Clinical Associate in Dentistry (1948).
A.S. (1945), Multnomah; D.M.D. (1948), Oregon.
- DUANE R. PAULSON, D.D.S., Associate Professor of Dentistry (1956).
B.S. (1949), Puget Sound; D.D.S. (1954), Northwestern.
- RICHARD PEDERSEN, D.M.D., Clinical Associate in Dentistry (1963).
B.S. (1954), D.M.D. (1958), Oregon; M.S. (1962), Temple.
- LOUIS H. PETERS, B.A., Research Assistant in Pathology (1960).
B.A. (1960), Minnesota.
- ROBERT D. PETERSEN, D.M.D., Instructor in Dentistry (1961).
B.S. (1957), Oregon State; D.M.D. (1959), Oregon.
- NILKANTH M. PHATAK, Ph.D., Professor of Pharmacology; Head of Pharmacology Department (1940).
B.S. (1931), M.S. (1935), California; Ph.D. (1939), Cincinnati.

* On leave of absence, 1963-64.

- FRANKLIN D. PIACENTINI, D.M.D., Clinical Associate in Dentistry (1961).
D.M.D. (1958), Oregon; M.S.D. (1961), Washington.
- JOSEPH PITTON, D.M.D., Clinical Assistant in Dentistry (1959).
D.M.D. (1959), Oregon.
- RICHARD S. POPE, B.S., Assistant Professor of Physiology (1960).
B.S. (1956), Tufts; M.S. (1963), Oregon.
- DONALD R. PORTER, D.D.S., Professor of Dentistry; Head of Pedodontics Department (1953).
D.D.S. (1951), M.S. (1953), Michigan.
- ALENE L. PRAIRIE, B.A., Instructor in Dentistry (1963).
B.A. (1926), Oregon.
- CLARENCE O. PRUITT, D.M.D., Assistant Professor of Dentistry (1956).
B.S. (1948), Wilberforce State; D.M.D. (1954), Oregon.
- E. ROBERT QUINN, D.M.D., Clinical Assistant in Dentistry (1957).
D.M.D. (1955), Oregon.
- DONALD G. REESE, D.M.D., Associate Professor of Dentistry (1946).
B.S. (1941), Washington State; D.M.D. (1946), Oregon.
- LAWRENCE W. REMUS, D.M.D., Instructor in Dentistry (1962).
D.M.D. (1952), Oregon.
- RUTH RENFROE, M.A., Instructor in Sociology (1952).
B.A. (1930), M.A. (1931), Willamette.
- NORMAN H. RICKLES, D.D.S., Professor of Dentistry; Head of Pathology Department; Director of Oral Tumor Registry (1956).
D.D.S. (1947), Washington University; M.S. (1951), California.
- MARGARET M. E. ROBINSON, B.Sc., Assistant Professor of Dental Hygiene (1960).
R.D.N. (1942), Toronto; R.D.H. (1958), State of Oregon; B.Sc. (1959), Washington.
- C. DOUGLAS RUHLMAN, D.M.D., Assistant Professor of Dentistry (1959).
B.S. (1955), D.M.D. (1959), Oregon.
- JAMES T. RULE, D.D.S., Assistant Professor of Dentistry (1960).
D.D.S. (1957), Temple; M.S. (1960), Chicago.
- CHARLES B. RUSHFORD, D.D.S., Clinical Assistant in Dentistry (1961).
B.A. (1953), West Virginia; D.D.S. (1957), Baltimore.
- RUSS SARDO, Ph.D., Lecturer in Psychology (1963).
B.A. (1955), Ph.D. (1958), Adelphi College.
- BHIM S. SAVARA, D.M.D., Professor of Dentistry; Head of Child Study Clinic (1950).
F.Sc. (1942), Lahore, India; B.D.S. (1946), University of Punjab; L.D.S. (1947), Royal College of Surgeons, England; M.S. (1950), Illinois; D.M.D. (1957), Oregon.
- W. WARREN SCHAFER, D.M.D., Teaching Fellow in Pathology (1959).
D.M.D. (1953), Oregon.
- WALLACE A. SCHINDLER, D.D.S., Instructor in Dentistry (1962).
D.D.S. (1952), Creighton.
- ARTHUR G. SCHWARTZENHAUER, D.M.D., Clinical Associate in Dentistry (1960).
B.S.C.E. (1935), Idaho; D.M.D. (1948), Oregon.
- BERNADETTE A. SCULLY, R.N., Instructor in Dental Science (1945).
R.N. (1922), State of Idaho.
- ROBERT R. SIDDOWNAY, D.M.D., Clinical Associate in Dentistry, Department of Pathology (1954).
D.M.D. (1950), Oregon.
- INDER JIT SINGH, B.D.S., Instructor in Dentistry (1962).
B.D.S. (1959), Government Dental College and Hospital, India.

- MARIE S. SLAWSON, B.S., Assistant Professor of Bacteriology (1950).
B.S. (1931), Oregon.
- JOHN SMITH, M.D., Clinical Assistant in Pathology (1961).
B.S. (1950), Oklahoma; M.D. (1954), Johns Hopkins.
- MYRON G. SMITH, D.M.D., Instructor in Dentistry (1963).
B.S. (1959), D.M.D. (1961), Oregon.
- MARSHALL L. SNYDER, Ph.D., Professor of Bacteriology; Head of Bacteriology Department (1946).
Ph.B. (1930), Brown; M.S. (1932), Ph.D. (1935), Colorado.
- FRED M. SORENSON, D.M.D., Associate Professor of Dentistry (1959).
B.S. (1951), Utah; D.M.D. (1958), M.S. (1963), Oregon.
- WILLARD E. SPEARIN, D.M.D., Clinical Assistant in Dentistry (1962).
B.S. (1959), Portland State; D.M.D. (1962), Oregon.
- ANN STRAYER, B.S., Lecturer in Professional Adjustment (1963).
B.S. (1959), Washington State.
- CHARLES J. STOUT, D.M.D., Professor of Dentistry; Head of Prosthetics Department (1955).
B.S. (1943), Ouachita; B.A. (1947), D.M.D. (1947), Oregon.
- EVELYN M. STRANGE, D.M.D., Clinical Associate in Dentistry (1956).
D.M.D. (1950), Oregon.
- JAMES S. TALLMAN, D.M.D., Clinical Assistant in Dentistry (1960).
B.S. (1951), M.S. (1952), D.M.D. (1960), Oregon.
- MYRON D. TEDFORD, M.S., Associate Professor of Anatomy (1950).
B.S. (1949), M.S. (1950), Oregon.
- LOUIS G. TERKLA, D.M.D., Professor of Dentistry; Assistant to the Dean (1952).
D.M.D. (1952), Oregon.
- JOHN K. TOFTE, D.M.D., Clinical Assistant (1962).
B.A. (1958), Montana; D.M.D. (1962), Oregon.
- WILLIAM E. TRACY, D.D.S., Assistant Professor of Dentistry (1961).
D.D.S. (1956), Tennessee.
- JOSEPH B. TRAINER, M.D., Associate Professor of Physiology and Medicine; Director, Student Health Service (1956).
B.S. (1939), M.S. (1941), Washington; M.D. (1946), Oregon.
- GLADYS UNDERWOOD, D.D.S., Teaching Fellow in Pathology (1961).
D.D.S. (1939), Northwestern.
- LEWIS C. VAN WINKLE, B.A., Statistical Research Assistant (1961).
B.A. (1958), Portland State.
- WILBUR N. VAN ZILE, D.D.S., Professor of Dentistry; Head of Oral Surgery Department (1959).
D.D.S. (1928), Southern California.
- JOHN A. WAGONER, D.M.D., Clinical Assistant in Dentistry (1957).
D.M.D. (1955), Oregon.
- ROBERT F. WATKINS, D.M.D., Associate Professor of Dentistry (1949).
D.M.D. (1949), Oregon.
- HERBERT J. WATTS, Lecturer in Civil Defense (1952).
- MORRIS E. WEAVER, Ph.D., Assistant Professor of Anatomy (1958).
B.S. (1951), York; B.S. (Educ.) (1953), Omaha; M.A. (1956), Ph.D. (1958), Oregon State.
- VINSON M. WEBER, D.D.S., Professor of Dentistry; Head of Postgraduate Department (1947).
A.B. (1936), Oberlin; M.A. (1940), Michigan; D.D.S. (1946), Western Reserve.

- MARY F. WEEKS, B.S., Research Assistant in Child Study Clinic (1963).
B.S. (1962), Oregon State.
- RICHARD M. WEIGEL, D.M.D., Assistant Professor of Dentistry (1959).
B.S. (1950), Oregon State; M.S. (1951), Oregon; D.M.D. (1959), Oregon.
- RICHARD G. WELDEN, D.M.D., Clinical Associate in Dentistry (1959).
B.S. (1954), D.M.D. (1957), Oregon.
- WILLIAM B. WESCOTT, D.M.D., Assistant Professor of Dentistry, Department of Pathology (1953).
D.M.D. (1951), M.S. (1962), Oregon.
- CLARENCE R. WICKS, J.D., Lecturer in Professional Adjustment (1963).
B.A. (1947), J.D. (1949), Willamette.
- CLAY E. WILCOX, D.D.S., Clinical Associate in Dentistry (1959).
D.D.S. (1949), Washington University, St. Louis.
- GEORGE C. WILLIAMS, D.M.D., Clinical Associate in Dentistry (1954).
D.M.D. (1954), Oregon.
- WYMAN H. WILSON, D.D.S., Professor of Dentistry; Head of Crown and Bridge Department (1951).
D.D.S. (1937), Minnesota.
- DAVID M. WITTER, D.D.S., Clinical Associate in Dentistry (1959).
D.D.S. (1934), Nebraska; M.P.H. (1951), Michigan.
- JAMES V. WOODWORTH, M.D., Clinical Associate in Medicine (1953).
A.B. (1944), Whitman; M.D. (1946), Oregon.
- NORMAN K. ZELLER, D.M.D., Clinical Assistant in Dentistry (1959).
D.M.D. (1959), Oregon.

General Information

Dentistry as a Career

A CAREER IN DENTISTRY offers a variety of professional opportunities for capable young men and women. For adequate care of the dental health requirements in the United States, many more dentists are needed than are now practicing. Capacity enrollments in all the dental schools in the country cannot satisfy this need. With the number of dentists now being graduated each year (about 3,000), the present inadequate ratio of dentists to population in the United States will not be improved within the foreseeable future.

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

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

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

The Dental School Program

NO COURSE OF INSTRUCTION can serve as a substitute for intelligence and the will to learn. A well-planned and well-taught curriculum can, however, provide favorable conditions for the most effective development of the student's native abilities. The content, sequence, and methods of instruction can implement the application of intelligence and encourage the desire to learn. This is the basic educational philosophy on which the course of study at the 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 room, the laboratory, and the clinic. The student comes in contact with patients early in his first year; he performs oral prophylaxis and assists advanced students in the simpler procedures of clinical practice, and by the end of the first year, constructs a full denture for a clinic patient under close faculty supervision. The second-year pro-

gram 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 each student is responsible, under supervision, for the diagnosis and treatment of the entire oral health problem of a patient.

The program of the Dental School includes at present: (1) the 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 graduate 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 bacteriology, biochemistry, anatomy, oral pathology, orthodontics, pedodontics, pharmacology, and physiology, leading to the Master of Science degree; graduate courses are also offered in the fields of dental materials and public health; (4) a two-year program for the training of dental hygienists (see pages 71-79); (5) 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 \$2,225,000 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 80 undergraduate dental students and 30 dental hygiene students in each class in addition to graduate and postgraduate students.

The main clinic areas are on the first floor and ground floor. On the second floor are the 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 offices of the Dean, the Registrar, and the Educational Adviser, the Business Office, and the Dental School Library are located on the sixth floor. The eighth floor is devoted to research laboratories and animal quarters.

Offices and clinical facilities of the Dental Hygiene Department, the Postgraduate Department, and the Child Study Clinic are on the ground floor.

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 the operator from 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, also used for the broadcast of relaxing music into the clinics at fifteen-minute intervals.

Library

The Dental School Library contains 8,700 bound volumes, and currently receives more than 300 periodicals. The books and periodicals are arranged on freely accessible open shelves.

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

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

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

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.

(1) All items are sold for cash. Students should foresee their needs and make financial arrangements as needed, through earnings, school loans, or through private financing.

(2) The student "instrument and supply issue" consisting of instruments and supplies designated 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.

Additional instruments and supplies, if desired by the student, may be purchased from the student store or from any dental supply dealer.

(3) The store is open for purchase of supplies on an announced schedule, planned to meet student convenience.

(4) The store stocks only those items approved by the proper committees of the Dental School, but will handle special orders on request.

Student Health Service

A Student Health Service is maintained in cooperation with the University of Oregon Medical School to provide both preventive medical 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 12:00 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 12:00 noon. On Saturday mornings care is available either in the Dental School office or in Room 34, Administration Building, Medical School. A charge for Health Service care is included in the fees paid at the time of registration.

Department of Illustration

The Department of Illustration 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, transparencies, and sound recordings. The department also provides instruction in dental photography and 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 tissue, microscopic sections, X-rays, and gross and microscopic photographs. This information is available to the health professions for study and research.

Dental Assistant Utilization

JOHN P. DICKSON, D.M.D.....	Department Head; Associate Professor of Dentistry
LUCY M. HARTMAN.....	Instructor
LEOTA F. COMPTON.....	Dental Assistant
PATRICIA OLSON.....	Dental Assistant
PATRICIA JACOB.....	Dental Assistant
GERTRUDE DUNCAN.....	Dental Assistant
VERMADEL GIBSON.....	Dental Assistant

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 administrative use of a 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 chairside dental assistant.

Cleft Palate Dental Clinic

The Cleft Palate Dental Clinic has been established in cooperation with the Crippled Children's Division of the University of Oregon Medical School to provide treatment for cleft palate patients and guidance in their habilitation. Children seen in the clinic receive a complete dento-facial appraisal, consisting of intra-oral dental roentgenograms, an oral examination of the hard and soft tissues in the mouth, cephalometric headplates, impressions for study casts, and facial and intra-oral photographs. Physical measurements are made to assess the physical growth and maturation of the patient. Evaluation of these records serves as the basis for prescribing treatment.

The patient's dentist, the staff of the Crippled Children's Division of the Medical School, and the staff of the Cleft Palate Clinic, provide coordinated treatment through a Dento-Plastic Speech Clinic. Specialists participating in the work of the clinic include plastic surgeons, otolaryngologists, orthodontists, pediatricians, pedodontists, nutritionists, speech pathologists and clinicians, and medical social consultants.

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 a research project for their theses. Undergraduates are also encouraged to participate in research projects conducted by the faculty. The U. S. Public Health Service provides several part-time student fellowships and one postsophomore fellowship. These fellowships are usually given for the summer months. The student selected for the postsophomore fellowship spends a year in graduate research, working toward the Master of Science degree.

Research facilities have recently been increased through the provision of added laboratory space. Twenty-five research projects or research training grants are currently in progress at the Dental School; the projects are supported by more than \$600,000 in funds from private donors, industry, foundations, and the state and Federal governments.

Child Study Clinic

BHIM S. SAVARA, L.D.S., M.S., D.M.D.....	Head of Child Study Clinic; Professor of Dentistry
WILLIAM E. TRACY, D.D.S.....	Assistant Professor
INDER JET SINGH, B.D.S.....	Instructor
SYLVIA JENSEN, B.S.....	Research Assistant
PATRICIA MILLER, B.A.....	Research Assistant
RODNEY ODEGARD.....	Statistical Research Assistant
WILLIAM L. PARKER, Ph.D.....	Consultant

Child Study Clinic Advisory Council

HAROLD J. NOYES, Ph.B., B.S., D.D.S., M.D.....	Dean of the Dental School, Chairman
BHIM SEN SAVARA, B.D.S., L.D.S., M.S., D.M.D.....	Professor of Dentistry
CHARLES BRADLEY, M.D.....	Associate Clinical Professor of Child Psychiatry, University of Oregon Medical School
H. HARRISON CLARKE, Ed.D.....	Research Professor of Physical Education, University of Oregon

FRANK G. EVERETT, M.S., D.M.D., M.D.....	Clinical Associate in Dentistry
ERNEST H. HIXON, D.D.S., M.S.....	Professor of Dentistry; Head of Department of Orthodontics
LORNA V. KLIER.....	Assistant Professor of Nutrition
KUO HWA LU, Ph.D.....	Professor of Biostatistics; Head of Department
DONALD R. PORTER, M.S., D.D.S.....	Professor of Dentistry; Head of Department of Pedodontics
MARSHALL L. SNYDER, M.S., Ph.D.....	Professor of Bacteriology; Head of Department
CARL E. HOPKINS, Ph.D., M.P.H.....	Consultant; Associate Professor of School of Public Health, University of California at Los Angeles

Research on teeth, facial growth, oral health, nutrition, and physical growth of the individual child is carried on by the staff of the Child Study Clinic to provide better understanding of the dento-facial problems of children.

Approximately 400 children from the Portland area are registered in the long-term program of the clinic and receive periodic examinations. Each child's record is documented by physical measurements, cephalometric, intra-oral, hand-and-wrist and calf-and-knee roentgenograms, photographs, dental study casts, and detailed information on general and oral health.

Collected data is used for teaching purposes in the Departments of Anatomy, Pedodontics, and Orthodontics. Graduate and postgraduate students acquire an understanding of the changes taking place in the dentition and face of the growing child, and of the reciprocal relationship between systemic disturbances and oral disease. Facilities of the clinic are available for consultation to the general 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. The laboratory is also a participating member of Western Data Processing Center at Los Angeles, California.

Scholarships and Awards

State Scholarships. Under authorization from the Oregon Legislature, the State Board of Higher Education 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 Scholarship Committee and approval of the dean. Application should be filed in the Registrar's Office not later than February 1.

State Scholarships for Foreign Students. A limited number of state fee scholarships are awarded annually to undergraduate 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 Registrar's Office not later than February 1.

Weber Dental Manufacturing Company Scholarships. Under a grant to the Fund 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 any approved school of dental hygiene or from Fund for Dental Education, 840 North Lake Shore Drive, Chicago 11, Illinois. The application deadline for the year beginning September 1963, is June 1, 1963.

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 roentgenology is awarded a certificate at the spring honors assembly by the American Academy of Oral Roentgenologists.

Dental Hygienists Alumnae Association Award. Two awards for outstanding clinical performance and highest scholastic achievement are presented each year to second-year dental 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.

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

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.

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

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.

Loan Funds

THE DENTAL SCHOOL has funds available for long-term student loans and for small emergency loans. Long-term loans are at present limited to a maximum of \$600 per student, except for National Defense Education Act and United Student Aid Fund loans, and are repayable within two years of the date of the note or one year after graduation, whichever date comes latest. To obtain a loan, the student must be able to show a definite need; he may be required to consult with the Loan Fund Committee concerning the information which he furnishes in connection with the application, and to prove the accuracy of this information.

The loan funds are held in trust by the Dental School and are governed by uniform principles and policies, administered by the Dental School Loan Fund Committee. Applications for loans are made through the Business Office. Applicants for loans must have been enrolled in the Dental School for at least one year, except under extraordinary circumstances in the cases of National Defense and emergency short-term loans, and must have a cumulative GPA of at least a 2.00.

In considering applications, the following criteria will weigh heavily in the minds of the members of the Loan Fund Committee: scholastic record; reputation for reliability, honesty, and industry; need for aid and probability of wise expenditure; amount of present indebtedness; ability to repay; and effort which the student has made to assist himself.

It is the policy of the Dental School to encourage repayment of loans as soon as the borrower is able to pay. Payment of loans in monthly installments is encouraged.

The Dental School does not accept various forms of collateral which most money lenders require for the security of loans. The signatures of two responsible property owners may be required in addition to the signature of the student borrower. The co-signers must submit evidence of their ability to pay the note by filing a financial statement or by giving bank references, but one co-signer must qualify by bank reference. It is desirable that one of the co-signers be the parent, or guardian of the borrower. If a student is married, his or her spouse must also sign the loan application and note.

Short-Term Emergency Loans

University of Oregon Emergency Loan Fund. Short-term loans from this fund, administered by the Dental School, are available to dental students, with a maximum loan to any one student of \$75.00. Loans are for any period within a three-month span. The service charge for loans of \$10.00 or less is 50 cents for one month, 75 cents for two months, and \$1.00 for three months. The service charge for loans of more than \$10.00 is \$1.00 for one month, \$1.25 for two months, and \$1.50 for three months. The service charge for all overdue emergency loans is 50 cents a month until paid in full. The signature of the borrower is the only security required for an emergency loan.

Herbert C. Miller Loan Fund. This is an emergency loan fund 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. Loans are limited to a maximum of \$115.00 to any one student for periods up to three months. The service charge for loans of \$10.00 or less is 50 cents for one month, 75 cents for two months, and \$1.00 for three months. The service charge for loans of more than \$10.00 is \$1.50 for one month, \$1.75 for two months, and \$2.00 for three months. The service charge for all overdue emergency loans is 75 cents a month until paid in full. The signature of the borrower is the only security required for an emergency loan.

Oregon State Dental Association Auxiliary Short-Term Loan Fund. This is an emergency loan fund established in October 1958 by the Oregon State Dental Auxiliary. The amount and terms of a loan depend on individual circumstances, but the usual maximum is \$115.00 for three months. The service charge for loans of \$10.00 or less is 50 cents for one month, 75 cents for two months, and \$1.00 for three months. The charge for loans of more than \$10.00 is \$1.50 for one month, \$1.75 for two months, and \$2.00 for three months. The service charge for overdue loans is 75 cents per month until paid in full. The signature of the borrower is the only security required for an emergency loan.

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. The loan is made on the basis of need, and the maximum loan is \$115.00 for three months. The service charge for loans of \$10.00 or less is 50 cents for one month, 75 cents for two months, and \$1.00 for three months. The service charge for loans of more than \$10.00 is \$1.50 for one month, \$1.75 for two months, and \$2.00 for three months. The service charge for all overdue emergency loans is 75 cents a month until paid in full. The signature of the borrower is the only security required for an emergency loan.

Omicron Kappa Upsilon. This short-term loan fund has been established by the Delta Chapter of Omicron Kappa Upsilon, dental honor society. The maximum loan is \$75.00 for three months at a minimal rate of interest.

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. The interest rate is 3 per cent a year, and the loan is due within two years from the first day of September immediately following graduation. Applications should be made through the Business Office.

Gillette Hayden Scholarship Loan Fund. The Association of American Women Dentists has established the Gillette Hayden Scholarship Loan Fund for promising junior and senior women dental students. The amount that can be borrowed and the terms of the loan are based on individual circumstances. Applications should be made through the Business Office.

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. The maximum loan is \$600; interest is 2.5 per cent a year.

Ben Selling Loan Fund. This fund, a bequest from the late Mr. Ben Selling, is administered through his son, Dr. Laurence Selling. Application forms for loans are available in the Business Office of the Dental School; 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, Portland dentist and former faculty member. The fund is intended primarily for student loans but may be applied toward fellowships, scholarships, prizes, and awards.

National Defense Education Act Loan Fund. Loans are available to Dental School students under the National Defense Education Act of 1958. The maximum loan is \$1,000 in any one year. Interest, at 3 per cent a year, does not accrue until one year after graduation. Although the program is designed to allow stu-

dents to borrow up to \$1,000 per year, the allocation for the Dental School has been insufficient to cover requests, and the school has been able to loan only an average of \$300 to each student who requests assistance.

Dental Hygienists Alumnae Association Loan Fund. This fund was established in May 1961 by the University of Oregon Dental Hygienists Alumnae Association to provide loans for dental hygiene students. The amounts of the loans and the interest rates are established by the Dental School.

Albina Page Fund. This fund provides loans 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.

United Student Aid Funds. These funds are endorsed by a private, non-profit service corporation for low-cost, long-term loans which are made by local banks. The Dental School underwrites the loans by contributing a reserve to U.S.A. Funds. Any student who has completed his freshman year with a GPA of 2.00 is eligible for a loan. The maximum loan is \$1,000 for one year or a total of \$3,000 for the undergraduate and graduate years. The interest rate is 6 per cent per year. The loan may be paid in 36 monthly installments, with the first payment falling due four months after graduation. No co-signers or collateral are required, and the student's family is not required to pay the loan in the event of his death. Application forms can be obtained in the Business Office of the Dental School; applications must be approved by the Loan Committee before the banks will issue the loans.

Organizations

THE ASSOCIATED STUDENTS of the University of Oregon Dental School, assisted by the faculty Committee on Student Affairs, supervises and directs all student activities, including assemblies, social events, and athletics. All Dental School students are members. The governing body of the Associated Students is the Student Council. The council includes representatives from each class.

Student body officers for 1963-64 are: Paul Gledhill, president; Charles Stuart, vice-president; Robert Schini, secretary; William Tarr, treasurer; Gailon Davis, yearbook editor; and Kenneth Nanson, athletic manager. President of the senior class is Robert E. Burnside; of the junior class, Jack T. Rummel; of the sophomore class, Eric L. Burbano. Lana B. Ogle is president of the second-year dental hygienists' 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 per cent of their class, and who are of good moral character and show evidence of professional earnestness, are eligible for membership; 12 per cent 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 per cent 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 Wassail, and the senior reception, and supports several projects of a philanthropic nature. The Roster of the University of Oregon Dental School, a directory of students and faculty, is published by the Auxiliary.

Fraternities and Sororities. Two nationally recognized dental fraternities maintain chapters at the Dental School: Delta Sigma Delta and Psi Omega. 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. Current president of Psi Omega is William H. Tarr; grand master of Delta Sigma Delta is John B. Pappin; Dr. Louis G. Terkla, professor of dentistry and assistant to the dean, is faculty advisor to the Interfraternity Council.

Housing

A DORMITORY for single male dental students will open fall term, 1963. Double rooms will provide comfortable living and study facilities for 30 students. Room reservations must be made no later than July 15; 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, which will be applied to fall term charges. If dormitory reservations are cancelled, the room deposit will be refunded only if the cancellation is made by August 1.

The Dental School maintains no other housing facilities, but single rooms in privately owned rooming houses and various types of apartment accommodations are available. The school does not maintain a formal file of available housing, but the Registrar's Office is often notified of vacancies and posts such information. Students accepted for admission are advised to arrange for housing before the opening of the school year.

Alumni Association

THE ALUMNI ASSOCIATION of the University of Oregon Dental School has a membership of over 2,800 dental graduates. The members include graduates of the North Pacific College of Oregon, who were formally accorded the status of University alumni in the act of the 1945 Oregon Legislature which incorporated the college into the State System of Higher Education as a school of the University of Oregon. The association meets biennially at the Dental School for a three-day program of scientific papers and clinics. *Caementum*, the official alumni periodical, serves to inform the members of the activities of the association and to create a stronger bond of common interest among the alumni. The officers of the alumni association for 1961-63 are:

GORDON BALLANTYNE, D.M.D.....	President
DANIEL HASELNUS, D.M.D.....	First Vice-President
HOMER SHURTZ, D.M.D.....	Second Vice-President
LUDLOW BEAMISH, D.M.D.....	Third Vice-President
THURMAN HICE, D.M.D.....	Secretary-Treasurer
HORACE MILLER, D.M.D.....	<i>Caementum</i> Editor

Advisory Council

AN ADVISORY COUNCIL, appointed by the Oregon State Dental Association, acts in a liaison capacity between the dental profession and the Dental School. The members of the council are: Saul C. Robinson, D.M.D., Portland, chairman; J. Warner Henderson, D.M.D., Hood River; George B. Hull, D.M.D., Eugene; H. Vernon Whitcomb, D.M.D., Portland.

Special Services

Visitors to the Dental School. Groups and individuals who wish to visit and observe the daily routines 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 should be made through the Dean's Office.

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

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

Admission and Requirements

Admission

IN SELECTING dental students, the Admissions Committee takes into account the following factors, in addition to the satisfactory completion of minimum pre-dental course requirements: (1) college grades; (2) amount of college work completed; (3) aptitude-test results from both the American Dental Association test and the Dental School test. Consideration is also given to personality and motivation factors as revealed by interviews.

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. However, a limited number of other nonresident students are accepted each year; a primary consideration in their selection is general scholastic superiority.

Preparation for Admission. Students planning to apply for admission to the Dental School are strongly advised to obtain as wide an understanding of the services and functions of the dental profession as possible. Some understanding may be obtained by talking 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 strongly recommends that pre-dental students devote at least three years to their pre-dental education. The minimum period of pre-dental studies is two years; but only those students who have completed a two-year program with a superior grade-point average will be considered for admission to the Dental School. It is improbable that a student with a grade-point average of less than 2.25 will be accepted for admission. No student with a pre-dental grade-point average of less than 2.00 may apply for admission to the Dental School.

The Dental School requires, for admission, the completion of the following courses offered at the University of Oregon (or their equivalents in courses offered at other schools; students taking pre-dental work at other institutions may check on equivalence by comparing the courses offered at their schools with the descriptions published in the University of Oregon General Catalog) :

* 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 all applicants in their application packet.

English Composition (Wr 111, 112, 113). 9 term hours.

General Chemistry (Ch 104, 105, 106, 107, Ch 108, 109). 14 term hours.

Organic Chemistry (Ch 334, 335, Ch 337), with laboratory. 8 term hours.

General Biology (Bi 101, 102, 103), with laboratory. 12 term hours.

General Physics (Ph 201, 202, 203), with laboratory. 15 term hours.

The requirements listed above are included in the pre-dental program offered at the University of Oregon, and term hour totals are indicated accordingly. Students in pre-dentistry at other institutions should keep in mind that course sequences may vary, with the result that the above total hours may not apply.

In no case will the Dental School accept less than 12 hours in general chemistry and 8 hours in organic chemistry, or 14 hours in general chemistry, which includes quantitative analysis.*

Recommended Elective Subjects. The Dental School recommends that the pre-dental 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, genetics, 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 pre-dental 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 pre-dental 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 pre-dental 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 pre-dental programs.

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, toward the satisfaction of 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 pre-dental studies. However, a student who has completed a three-year pre-dental 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 five separate tests, which aim to reveal both scholastic ability and technical ability for dentistry. The academic tests include an examination in the fields of science and in the understanding of scientific principles, and a general aptitude or psychological examination. The technic battery includes a paper-pencil

* If general chemistry does not include laboratory work in qualitative and quantitative analysis, the applicant must complete these prerequisites with appropriate courses.

object-visualization and space line-and-form relationship test and a chalk-carving manual-dexterity test. A booklet issued by the American Dental Association, describing these tests and including sample test items, will be sent to the applicant when his application is received.

Students planning to take the American Dental Association test should fill out the application form provided by the Dental School and send it directly to the Council on Dental Education, American Dental Association, 222 East Superior Street, Chicago 11, Illinois. General information concerning the dates and locations of testing centers will be provided by the Council on Dental Education office. (The A.D.A. test will be given at the University of Oregon Dental School sometime during the months of October, January, and April. The exact dates will be included with application material.)

University of Oregon Dental School Technical Aptitude Test. The technical aptitude test administered in the past to all high-school and college students interested in dentistry is no longer a requirement for admission to the Dental School. However, each student who is accepted into the freshman class is required to participate, at no personal expense, in a technical exercise on the day following registration. Complete details will be mailed to each incoming freshman during the summer months.

Interviews. An interview by a team of Dental School faculty members is required for some applicants before consideration as candidates for admission. This team schedules some interviews with students on the campuses of the University of Oregon and Oregon State University during fall and winter terms, but Portland residents who are students at these institutions should anticipate an interview at the Dental School.

Application Procedure

Application for admission to the Dental School should be addressed to the Registrar 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 Dental School Registrar.
- (2) A recent photograph, endorsed on the back with the name of the applicant and the date the photograph was taken.
- (3) An official transcript of all college work completed at the time of application. This transcript should cover a minimum of six terms or four semesters of college work. In addition, it is imperative that the applicant keep the Dental School Registrar 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 submit to the Registrar an official transcript covering all of his pre dental 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 which 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 \$5.00 (this fee is not refundable).
- (8) A completed health questionnaire.

When an applicant for admission is notified of acceptance, he must make a \$50.00 deposit to reserve a place in the entering class; this deposit is applied on first-term fees. See page 39 for information on refunds.

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

Application Submission Dates. Application for admission should be filed between July 1 and October 31 of the year preceding the year the student wishes to enter the Dental School.

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, Norlin Library, Boulder, Colorado.

Students entering the Dental School under the program of the Western Interstate Commission are not required to pay the nonresident fee, since this portion of Dental School fees is borne by the member state sponsoring the student.

Transfer Students

A student transferring from another dental school in the United States may be granted advanced standing in courses which he has completed, providing that the department responsible for such courses at our school approves. A transfer student must submit the following material to the Admissions Committee no later than June 1 of the year in which he wishes to enroll: (1) reasons for requesting transfer; (2) one or more letters of recommendation from the faculty of the dental school attended; (3) evidence of honorable dismissal from dental school and transcripts of both preidental and dental school work. If the Admissions Committee approves the credentials and the application, the applicant will be asked to participate in a three-week evaluation program at the Dental School during the summer preceding the fall term in which he wishes to enter school. The student must not, however, assume that participation in this program guarantees acceptance for admission to the Dental School at any level in the curriculum. A minimum of two years of work in residence at the University of Oregon Dental School is required for eligibility for a degree.

Foreign Students

A foreign student submitting credentials in a language other than English should present, with the original credentials, a literal translation certified by a consul of the country where the student's preparatory work was taken, and a full explanation, by the consul, of the educational status of the institution from which the credentials were submitted. The original credentials, the translations, and the explanation should be sent directly to the Dental School by the consul. Foreign credentials must satisfy the specific entrance requirements of the Dental School. A foreign student is required to have sufficient knowledge of the English language

to enable him to understand lectures and demonstrations and to read and understand texts prescribed by the Dental School. This proficiency may, at the discretion of the Admissions Committee, be tested by qualifying examinations in spoken and written English.

A foreign student who applies for admission to the Dental School for advanced standing is required to take qualifying examinations in the basic sciences and in clinical dentistry. If his application background indicates that he can successfully carry through with studies in the dentistry curriculum, he will be invited to come to the Dental School for a three-week evaluation program during the summer preceding the fall term in which he wishes to enter the school. Participation in this evaluation program does not guarantee acceptance by the Dental School. The applicant will not be accepted until he has passed both the technical and written examinations. Rarely is it possible for a foreign student entering with advanced standing to qualify for graduation from the Dental School in less than two years; three or more years may be required.

Special Students

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

Registration

REGISTRATION for the term beginning September 19, 1963 is scheduled as follows:

Senior registration:

Monday, September 16, 1963.....1:00 p.m., Room 220, Clinical Orientation
Wednesday, September 18, 1963.....1:00 p.m., Room 220, Registrar

Junior registration:

Tuesday, September 17, 1963.....1:00 p.m., Room 420, Clinical Orientation
Wednesday, September 18, 1963.....9:00 a.m., Room 220, Registrar

Sophomore registration, dental and dental hygiene:

Tuesday, September 17, 1963.....1:00 p.m., Room 220, Registrar

Freshman registration, dental and dental hygiene:

Monday, September 16, 1963.....9:00 a.m., Room 220, Registrar

Graduate registration:

Wednesday, September 18, 1963.....1:00 p.m., Room 605, Registrar

Since the registration schedule is very crowded, promptness in reporting is essential.

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*, exceptional; *B*, superior; *C*, satisfactory; *D*, inferior; *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. 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* is the highest grade that may be granted on re-evaluation. September 15 is the deadline for removal of conditions ; they may, however, be removed before this date if such action is mutually agreeable to both the student and instructor.

Withdrawal and Readmittance. When a dental student must withdraw from school, he is expected to write a letter to the Registrar, stating his intent to withdraw and his reasons for doing so. The Registrar will then 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 a grade 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 or not he will be allowed to re-enter, and what special conditions, if any, are to accompany his readmittance.

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 reregistration, except by special evaluation for placement by the Reinstatement Committee.

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.

For just cause the faculty or Executive 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 with a satisfactory grade. 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.

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 regulations are administered through the Scholarship Committee (for didactic subjects) and the Clinic Committee (for clinical subjects). These

committees, at the end of each academic year, present reports to the faculty on the academic standing of all students, with recommendations for appropriate action in cases of unsatisfactory scholarship.

To qualify for advancement or graduation, the student is required to maintain a grade-point average of 2.00 for each year's work. For failure to maintain this minimum satisfactory average, the student may be dismissed from the school, placed on probation, or required to repeat the work of the year for which his scholarship is deficient, at the option of the faculty.

The Executive Committee or the faculty may place any student on probation whose general performance is questionable. Any student on probation may be dropped from school or removed from probation at any time by action of the faculty.

Senior students who are deficient in scholarship may be dropped by faculty action. A senior student who fails to complete all unit and proficiency requirements for graduation with his class is expected to make up all deficiencies within a period of one additional term. A student who does not qualify for graduation within this period may, upon recommendation of the faculty, be permitted to repeat the work of the senior year.

Students who are required to repeat a course or a year's work may be assigned a modified program involving some new content or experience. The material to be covered is determined by the Scholarship and Clinic Committees.

National Board Examinations

The National Board Examinations of the American Dental Association are given at the Dental School twice each year for dental students and members of the dental profession who wish to take these examinations in lieu of the science and didactic parts of the state board examinations. At present approximately 35 dental boards recognize a passing grade in the National Board Examinations as equivalent to a passing grade in the state didactic examinations. In these states, demonstration of clinical proficiency is usually the only additional requirement for qualification for dental practice.

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

Foreign students who have applied for citizenship in the United States are eligible to take the National Dental Board Examination.

The dates when the examination will be given in 1963-64 are December 2-3, 1963, March 30-31, 1964, November 30, 1964, and December 1, 1964.

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 1963-64 total \$235 per term for residents of Oregon and \$371 for nonresidents. There may also be special fees or deposits.

Special fees are fees paid under the special 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.....	\$19.50 (minimum \$39.00)
Summer-term clinic fee, six weeks.....	33.00

Auditor's fee:	
Lecture courses, per term hour.....	5.00
Laboratory courses, per term hour.....	7.50
Evaluation fee (not refundable).....	\$ 5.00
Dental-aptitude test fee.....	6.00
Late-registration fee (paid by students registering on third day following the registration dates of any term), per day—no maximum.....	1.00
Transcript fee (additional copies on same order, 50 cents).....	1.00
Entrance deposit (not refundable after 30 days).....	50.00

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 \$50 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 not be refunded later than 30 days after receipt.

Regulations Governing Nonresident Fee

Under the regulations of the Oregon State Board of Higher Education, a minor student whose parents are bona fide residents of Oregon qualifies for enrollment under the resident fee; and a student whose domicile is independent of his father qualifies for enrollment under the resident fee if he presents convincing evidence that he established his domicile in Oregon three months prior to his first registration and that he was not a student at a collegiate institution during this period.

All other students are required to pay the nonresident fee, with the following exceptions: (1) a student who holds a degree from an accredited college or university (however, a nonresident student with a bachelor's degree enrolled in a curriculum at the University of Oregon Medical or Dental School is required to pay the nonresident fee); (2) a student attending a summer session; (3) a student paying part-time fees.

A student who has been classified as a nonresident may be reclassified as a resident:

(1) In the case of a minor, if his nonresident parents have moved to Oregon and have established a bona fide residence in the state, or

(2) In the case of a student whose domicile is independent of that of his father, if the student presents convincing evidence that he has established his domicile in Oregon and that he has resided in the state for at least twelve consecutive months immediately prior to the term for which reclassification is sought.

A student whose official record shows a domicile outside of Oregon is prima facie a nonresident and the burden is upon the student to prove that he is a resident of Oregon. If his scholastic record shows attendance at a school outside of Oregon, he may be required to furnish further proof of Oregon domicile.

If any applicant has questions concerning the rules governing the administration of these policies, he should consult the Office of the Registrar.

Books, Equipment, and Supplies

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

	Books	Equip. and Supplies	Total
First year	\$240.00	\$900.00	\$1,140.00
Second year	227.00	503.00	730.00
Third year	150.00	69.00	219.00
Fourth year	75.00	555.00	630.00

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 year should be anticipated; this represents supplementary expenditures for replacing expendable supplies throughout the year and for the voluntary purchase of supplementary supplies and equipment.

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 provide a unified and integrated educational experience leading to professional objectives.

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

The traditional division of the dental curriculum into "preclinical" and "clinical" years has been broken down, in order that the student may grasp the clinical significance of didactic instruction in the basic sciences and laboratory work in technics without educationally unsound delay. The student meets the patient during his first term at the Dental School, and before the end of his first year, performs selected operations in the field of prosthetics and oral prophylaxis; on clinical rounds he also observes the 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 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 framework of the required program, time is allowed for independent research and for experience in selected problems of clinical practice. Throughout the four-year program, seminars, conferences, and discussion groups are provided to insure individual attention to student problems and a close personal relationship between students and faculty.

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

Courses, Time and Credit

		First Year*				
		Clock hours				Credit
		Lec.	Conf.	Lab.	Clinic	Total
						hours
Pr 401	Preclinical Lecture, Dem.			11		11
Pr 412, 413, 414	Prosthetic Technic & Clinic	22	....	132	66	220
						6

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

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

An 417. Human Genetics. 11 clock hours lecture. 1 credit hour.

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

CURRICULA

	Clock hours					Credit hours	
	Lec.	Conf.	Lab.	Clinic	Total		
Pr 418.....	Prosthetic Technic	11	....	66	....	77	3
DM 411.....	Dental Materials	11	....	33	....	44	2
Op 418.....	Operative Tech. Lectures	22	....	....	....	22	2
Op 419.....	Operative Technic Lab .....	....	....	66	....	66	2
An 419.....	General Gross Anatomy & Embryology	33	6	99	....	138	6
An 412.....	Oral Histology	22	....	44	....	66	4
An 411.....	General Histology	22	....	66	....	88	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 and History	11	....	....	....	11	1
Per 414.....	Oral Hygiene	11	....	....	....	11	1
Per 415, 416.....	Oral Prophylaxis .....	....	....	....	22	22	1
Bch 411, 412.....	Biochemistry	44	....	88	....	132	6
Phy 418.....	Physiology	11	....	33	....	44	2
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
		280	6	770	96	1,152	50
Second Year*							
Bac 428.....	Princ. of Immunity	11	....	....	....	11	1
PA 315.....	Civil Defense .....	....	11	....	....	11	....
DM 421, 422.....	Dental Materials	33	....	....	....	33	3
Ord 429.....	Pedodontic Orthodontic Technic .....	....	....	77	....	77	3
CB 420, 421, 422.....	Crown & Bridge Technic .....	....	....	198	....	198	6
Pr 424, 425, 426.....	Prosthetic Clinic .....	....	....	....	110	110	3
Op 420.....	Operative Technic Lecture	11	....	....	....	11	1
Op 421.....	Operative Technic Lab .....	....	....	66	....	66	2
Op 423.....	Operative Technic Lecture	11	....	....	....	11	1
Op 424.....	Operative Technic Lab .....	....	....	44	....	44	2
Op 428.....	Operative Clinic .....	....	....	....	33	33	....
An 421.....	Head & Neck Anatomy	22	....	66	....	88	4
An 422.....	Neuroanatomy & Physiology	11	5	....	....	16	1
Pth 420, 421.....	Pathology	44	....	110	....	154	7
Ro 420, 421, 422.....	Oral Roentgenology	22	....	11	....	33	3
OS 421.....	Local Anes. & Exodontics	11	....	....	11	22	1
OS 422.....	Local Anes. & Exodontics .....	....	....	....	22	22	....
Op 437.....	Root Canal Therapy	11	....	22	....	33	2
Per 420.....	Oral Prophylaxis .....	....	....	....	11	11	1
Per 423.....	Principles of Periodontology	11	....	....	....	11	1
Phy 420.....	Physiology	22	....	33	....	55	3
Ped 422, 423.....	Child Development and Dental Care	44	....	....	....	44	4
OD 429.....	Oral Diagnosis & Treat.	11	....	....	....	11	1
		264	27	627	187	1,105	50
Third Year†							
Ord 433, 434.....	Orthodontics	22	....	....	....	22	2
Ord 438.....	Orthodontics (Dem.-Conf.) .....	....	11	....	....	11	1

* In addition to required courses, the following elective courses are offered for second-year students:

An 417. Human Genetics. 11 clock hours lecture. 1 credit hour.

PA 401. Research Methods. Hours to be arranged.

PA 401. Scientific Photography & Illustration. 11 clock hours lecture. 1 credit hour.

† In addition to required courses the following elective courses are offered for third-year students:

Work in applied experimental science under one of the departmental Special Studies Numbers (401). 22 clock hours, laboratory. 1 credit hour.

An 417. Human Genetics. 11 clock hours lecture. 1 credit hour.

PA 401. Scientific Photography & Illustration. 11 clock hours lecture. 1 credit hour.

Stat 430. Statistics, 33 clock hours lecture. 3 credit hours.

UNDERGRADUATE PROGRAM

43

	Clock hours					Credit hours	
	Lec.	Conf.	Lab.	Clinic	Total		
PA 430.....	Professional Writing	5	....	....	5	1
PA 432.....	Dental Jurisprudence & Case Studies	11	....	....	11	1
Ord 439.....	Orthodontic Conference	11	....	....	11	1
Pr 430.....	Prin. of Clinical Prosthesis..	11	....	....	11	1
CB 431.....	Prin. of Crown & Bridge	11	....	....	11	1
CB 436.....	Ceramics	11	33	....	44	2
Op 430.....	Prin. of Clin. Oper. Dent....	11	....	....	11	1
Ped 431.....	Pedodontics	11	....	....	11	1
OS 438.....	General Anesthesia	11	11	....	22	1
Bac 430.....	Bacteriology	33	....	66	99	6
Ph 430.....	Caries Prevention	11	....	....	11	1
OD 430.....	Oral Diagnosis & Treat.	11	....	....	11	1
†OD 439.....	Clinical Conference	11	....	....	11	1
Nu 435.....	Nutrition	11	....	....	11	1
Med 439.....	Principles of Medicine	11	....	....	11	1
OS 430, 431, 432.....	Oral Surgery	33	....	22	55	4
Per 439.....	Periodontology	11	....	30	41	2
Pth 434, 435.....	Pathology	22	44	22	88	5
Phc 438, 439.....	Pharmacology	33	....	22	55	4
Pr 633, 634, 635.....	Prosthetic Cl. Practice .....	....	....	....	....	....
Op 633, 634, 635.....	Operative Cl. Practice .....	....	....	....	....	....
Cp 633, 634, 635.....	General Clinic Practice .....	....	....	388	388	10
CB 630, 631, 632.....	Cr. & Br. Cl. Practice .....	....	....	....	....	....
Ped 630, 631, 632.....	Pedodontic Cl. Practice .....	....	....	....	....	....
Nu 630, 631, 632.....	Nutrition Clinic .....	....	....	....	....	1
OD 437, 438.....	Clinical Conference	33	....	....	33	2
Ro 630, 631, 632.....	Oral Roent. Clinic .....	....	....	....	....	1
		275	71	165	462	973	52
Fourth Year*							
DM 442.....	Dental Materials	11	....	....	11	1
PA 446.....	Professional Viewpoints	11	....	....	11	1
PA 445.....	Dental Ethics & Case Studies	11	....	....	11	1
PA 447.....	Comprehensive Examination in Prof. Adjustment .....	....	2	....	2	1
PH 440, 441.....	Public Health Dentistry	22	....	....	22	2
Pr 440.....	Prin. of Clinical Prosthesis ..	11	....	....	11	1
CB 441.....	Prin. of Crown & Bridge	11	....	....	11	1
Op 440.....	Prin. of Clin. Oper. Dent. ..	11	....	....	11	1
Ped 440.....	Pedodontic Conference	11	....	....	11	1
OS 644.....	Anesthesia Clinic .....	....	....	11	11	1
Med 443, 444, 445.....	Hospital Clinics .....	....	....	18	18	1
Med 451, 452, 453.....	Advanced Principles of Medicine (Hours arranged)	....	....	....	....	....
Pth 445, 441.....	Pathology	11	11	22	44	3
Med 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
An 445.....	Applied Anatomy	11	....	....	11	1
Phc 440.....	Pharmacology	11	....	22	33	2
Phc 445.....	Dental Materia Medica	11	....	....	11	1
OD 440, 441, 442.....	Clinical Conference	99	....	....	99	3
Pr 643, 644, 645.....	Prosthetic Clinic Practice .....	....	....	....	....	....
Op 643, 644, 645.....	Operative Clinic Practice .....	....	....	....	....	....
OS 401.....	Oral Surg. Clinic Practice..	....	....	....	....	....
Cp 643, 644, 645.....	General Clinic Practice .....	....	....	641	641	20

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

PA 401. Special Studies: Applied Experimental Science. 22 clock hours laboratory. 1 credit hour.

PA 401. Special Studies: Psychiatry of the Patient. 11 clock hours lecture. 1 credit hour.

PA 401. Special Studies: Scientific Photography & Illustration. 11 clock hours lecture, demonstration, conferences. 1 credit hour.

PA 442. Practice Management. 22 clock hours lecture. 2 credit hours.

Ord 401. Special Studies: Cleft Palate Rehabilitation. 11 clock hours lecture. 1 credit hour.

Med 451, 452, 453. Advanced Principles of Medicine. Hours to be arranged.

† Not offered 1963-64, and not included in total clock hours or credits.

	Clock hours					Credit hours
	Lec.	Conf.	Lab.	Clinic	Total	
CB 640, 641, 642.....Cr. & Br. Clinic Practice .....	....	....	....	....	....	....
Ped 640, 641, 642.....Pedodontic Cl. Practice .....	....	....	....	....	....	....
Ro 640, 641, 642.....Roentgenology Cl. Prac. ....	....	....	....	....	....	1
Nu 640, 641, 642.....Nutrition Clinic .....	....	....	....	....	....	1
	154	123	44	700	1,021	47
Recapitulation						
First year	280	6	770	96	1,152	50
Second year	264	27	627	187	1,105	50
Third year	275	71	165	462	973	52
Fourth year	154	123	44	700	1,021	47
Total	973	227	1,606	1,445	4,251	199

Graduate Program

GRADUATE WORK leading to the Master of Science degree is offered at the Dental School for students planning careers in dental education and research. Graduate courses in the clinical fields are also open to graduate dentists preparing for practice in several specialties. Holders of graduate degrees in the basic sciences are allowed one year of credit by some specialty boards toward specialty requirements.

Graduate major programs have been arranged in the fields of anatomy, bacteriology, biochemistry, dental materials, oral pathology, orthodontics, pedodontics, pharmacology, physiology and operative dentistry-dental materials. Supplementary courses carrying graduate credit are offered in biostatistics and methods of professional 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 head.

Inquiries about the graduate program and requests for application forms should be addressed to the Registrar of the Dental School. Completed applications and supporting documents, such as transcripts of previous educational records, and application fees should be filed with the Registrar between the dates October 1 and May 1 of each school year.

Admission to Graduate Status

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

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.

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

A limited number of fellowships for graduate students planning a career of teaching and research in dental schools is available under a U. S. Public Health Service teacher training program. These fellowships are given only to United States' citizens.

Standards of Performance

Graduate students enrolled in the same courses with undergraduate dental students are graded on exactly the same basis as the dental students, and are expected to perform scholastically at a higher level than the average dental student in the same course; special work, not required of dental students, may be assigned at the discretion of the instructor. No graduate credit is granted for courses in which the student receives a grade below *C*; the student must maintain a yearly average of *B* in all courses, with a *B* average in each required course in his major field to continue registration in the Dental School as a graduate student.

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 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 preliminary examination.

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 three academic terms in residence as a graduate student. Although it is preferable that residence be continuous, it is recognized that interruption may be unavoidable. 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 master's degree must be a candidate for the degree for at least one academic term. Usually admission to candidacy is considered at the end of the first year of study.

(3) *Hours of Graduate Work Required*:

(a) For the M.S. degree 30 hours of academic credit are required in the major and 15 credit hours in a minor of one or more related fields.

(b) The normal course load registration is 14 hours per term. Graduate students employed as assistants or 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 another institution or curriculum.

(4) *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.

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

(6) *Fee Schedule*: Graduate students in the basic sciences pay the following regular fees per term:

Tuition.....	\$ 20.00
Laboratory and course fee.....	52.00
Incidental fee.....	26.00
Building fee.....	10.00
Total.....	\$108.00

Graduate students in clinical curricula pay the following fees per term:

Orthodontics:

Tuition.....	\$125.00
Laboratory and course fee.....	52.00
Incidental fee.....	26.00
Building fee.....	10.00
Total for resident students.....	\$213.00
Nonresident fee.....	\$136.00
Total for nonresident students.....	\$349.00

Other Clinical Curricula:

Tuition.....	\$ 85.00
Laboratory and course fee.....	52.00
Incidental fee.....	26.00
Building fee.....	10.00
Total for resident students.....	\$173.00
Nonresident fee.....	\$136.00
Total for nonresident students.....	\$309.00
Part-time fee (for students registered for 7 term hours or less), per term hour.....	\$11.00 (minimum \$22.00)

Graduate students in basic sciences employed as graduate assistants, research assistants, or fellows pay the following regular fees per term:

Incidental fee.....	\$ 26.00
Building fee.....	10.00
Total.....	\$ 36.00

Graduate students in clinical curricula employed as graduate assistants, research assistants, or fellows pay the following regular fees per term:

Laboratory and course fee.....	52.00
Incidental fee.....	26.00
Building fee.....	10.00
Total.....	\$ 88.00

Postgraduate Study

THE DENTAL SCHOOL'S program of postgraduate study is designed to provide, for the graduate dentist, an opportunity to continue his professional education during his years of practice. The postgraduate program has several phases: (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; (3) one-year full-time courses in certain fields, including periodontology, crown and bridge, oral surgery, and prosthetics.

Special facilities for postgraduate study include a full equipped twelve-chair postgraduate clinic, with an adjoining classroom; a laboratory adjacent to the postgraduate clinic for casting, investing, and other clinical 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 postgraduate faculty includes regular members of the Dental School faculty, members of the dental profession in the Portland area, and visiting instructors from other areas.

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.

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

A program to help improve the qualifications of dental assistants has been organized by the department of Postgraduate Education in cooperation with the American Dental Assistants Association and the Portland Extension Center of the Oregon State System of Higher Education.* The requirements for certification as outlined by the American Dental Assistants Association are met by the course. It is composed of two parts, one primarily theory and the other laboratory. The theory consists of 39 two-hour weekly evening meetings with a tuition of \$50.00, while the laboratory consists of 15 weekly meetings of two hours each with a tuition fee of \$40.00. For further information write the Department of Postgraduate education of the Dental School.

Description of Courses

Anatomy

Professor: ELLIS B. JUMP (department head).

Associate Professor: MYRON D. TEDFORD.

Assistant Professors: JAMES NEWSTEAD, MORRIS E. WEAVER.

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

An 411. **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 hours; laboratory, 66 clock hours. Dr. Jump, Mr. Tedford, Dr. Weaver.

An 412. **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 hours; laboratory, 44 clock hours. Dr. Jump.

An 416. **Microtechnic.** 2 credit hours spring.

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. **Human Genetics.** 1 credit hour spring.

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

* This course is open only to women who are experienced dental assistants, and is not intended as a training program for inexperienced women.

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 hours; laboratory, 99 clock hours. Mr. Tedford, Dr. Jump.

An 421. **Head and Neck Anatomy.** (G) 4 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. Clinical applications stressed. Lectures, 22 clock hours; laboratory, 66 clock hours. Dr. Jump, Mr. Tedford.

An 422. **Neuroanatomy and Physiology.** 1 credit hour winter.

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

An 445. **Applied Anatomy.** 1 credit hour.

Third or 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 hours. Science and clinical staffs.

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 512. **Advanced Anatomy.** Hours 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 411, An 419, An 421 or equivalent; consent of instructor.

*An 514. **Advanced Human Genetics.** 3 credit hours.

Introduction to statistical genetics and population studies; application of basic theories of clinical genetics. Prerequisite: An 417 or equivalent. Lectures, 11 clock hours; conference, 11 clock hours; laboratory, 33 clock hours. Mr. Tedford.

DENTAL HYGIENE COURSES

Bi 207, 208. **Human Biology.** 5, 5 credit hours, fall and winter.

First year. Lectures, 66 clock hours; laboratories, 110 clock hours, 11 conferences. Dr. Weaver.

Bi 318, 319, 320. **Human Biology.** 2, 2, 4 credit hours.

Second year. Lectures, 77 clock hours; laboratories, 22 clock hours. Drs. Bruckner, Jump, Rickles.

Bacteriology

Professor: MARSHALL L. SNYDER (department head).

Associate Professor: RICHARD B. PARKER.

Assistant Professors: MARIE S. SLAWSON, INEZ E. BROWNLEE.

Research Assistants: MURIEL C. GREGORIUS, SHELBY MATTHIAS, WESLEY BULLOCK.

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

*Offered for 2 credit hours, 1963-64.

Bac 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 hours. Dr. Parker.

Bac 430. Bacteriology. (G) 6 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 hours; laboratory, 66 clock hours. Dr. Snyder, assistants.

GRADUATE COURSES

Bac 501. Research. Credit to be arranged.**Bac 503. Thesis.** Credit to be arranged.**Bac 505. Reading and Conference.** Credit to be arranged.**Bac 511. Advanced Bacteriology.** 5 credit hours.

Application of methods of bacteriology and immunology for the identification of microbiological agents of disease. Special emphasis on the higher bacteria and spirochetes of the oral flora, with some consideration of their metabolism and nutritional requirements. Clock hours of lecture and laboratory to be arranged. Drs. Snyder, Parker.

DENTAL HYGIENE COURSE

Bi 209. Human Biology. 5 credit hours spring.

Lectures, 22 clock hours; laboratory, 66 clock hours. Mrs. Slawson, Dr. Snyder.

Biochemistry

Professor: C. KEITH CLAYCOMB (department head).

Associate Professor: DEAN C. GATEWOOD.

Research Assistant: ETHEL M. DVORAK.

BCh 401. Special Studies. Credit to be arranged.**BCh 411, 412. Biochemistry.** (G) 3 credit hours each term, fall and winter.

First year. Review of physical and organic chemistry. Enzymes, digestion, absorption of foods, detoxification and putrefaction; components and functions of blood, mechanism of coagulation, oxygen and carbon-dioxide transport, acid-base balance, water balance; vitamins, hormones and their role in intermediary metabolism; energy and tissue metabolism, including biological oxidation and reduction, muscle metabolism, anaerobic and aerobic carbohydrate metabolism with the integration of lipids and proteins. Lectures, 44 clock hours; laboratory, 88 clock hours. Dr. Claycomb, 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 507. Seminar.** Hours to be arranged.**BCh 511. Advanced Biochemistry.** Credit to be arranged.

Designed to illustrate the role of hormones and trace elements in intermediary and hard tissue metabolism, including selected methods of analysis with special reference to use and application of radioactive isotope tracers. Prerequisite: BCh 411, 412. Mr. Gatewood, Dr. Claycomb.

DENTAL HYGIENE COURSES

Ch 111. **Chemistry.** 6 credit hours fall.

Lectures, 55 clock hours; laboratory, 33 clock hours. Mr. Gatewood, Dr. Claycomb.

Ch 212. **Chemistry.** 5 credit hours winter.

Lectures, 44 clock hours; laboratory, 33 clock hours. Dr. Claycomb, Mr. Gatewood.

Biostatistics

Professor: KUO HWA LU (department head).

Research Assistant: LEWIS VAN WINKLE

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

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, simple linear regression and correlation.

GRADUATE COURSE

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

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. Sequential analysis for testing hypotheses concerning means and standard deviations. Nonparametric statistics.

Crown and Bridge

Professors: WYMAN H. WILSON (department head), ROBERT L. LANG.

Clinical Associates: JOHN BARTELS, RICHARD R. JORDAN.

Assistant Professor: CLARENCE L. PRUITT.

Instructor: WALLACE A. SCHINDLER.

Clinical Assistants: JAMES L. BARNETT, THOMAS D. COTTLE, CHARLES B. RUSHFORD, WILLARD E. SPEARIN, JAMES S. TALLMAN, NORMAN K. ZELLER.

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; application to diagnosis and preventive and restorative treatments. Lectures, 11 hours.

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 hours.

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 in relation to restorative treatments and endodontia; study of functional tooth contours of deciduous dentition. Lectures, 11 hours.

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

First year. Student continues to develop tooth contours on the crowns of indi-

vidual teeth. After familiarization with functional form, individual teeth are restored in part with wax on a sectional cast with contacting individually prepared dies. Representative teeth are dissected in longitudinal and cross sections, to study pulpal morphology. Laboratory, 33 hours.

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 hours.

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; project assignments cover the methods of various types of tooth replacements, and their relation to biological needs. Consideration is given to the clinical application of making study casts, and orienting them on a semi-adjustable articulator on a limited basis during the spring term. 198 clock hours. Drs. Lang, Barnett, Pruitt, Schindler.

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 hours. Dr. Wilson.

CB 436. Ceramics. 2 credit hours winter.

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

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

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

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

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

CB 640, 641, 642. Crown and Bridge Clinical Practice. Credit to be arranged.

Fourth year. Continuation of CB 630, 631, 632, with emphasis on full-mouth rehabilitation. Drs. Lang, Pruitt, Wilson, Rushford, Schindler, Spearin.

DENTAL HYGIENE COURSES

CB 112, 113. Dental Anatomy. 1 credit hour each term, fall and winter.

Lectures, 11 hours each term.

CB 114, 115. Dental Anatomy. 1 credit hour each term, fall and winter.

Laboratory, 33 hours each term.

Dental Education

Professor: GEORGE E. BATTERSON.

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

An overview of principles and practices of effective dental teaching, including fundamentals of learning and university teaching, test construction, selected reading, seminars with resource personnel, assistant teaching in selected departments, observation, special projects depending on interest and objectives of the student. Minimum of 22 clock hours of didactic work, including lecture and conference. Additional hours of reading and conference teaching workshop to be arranged. Mr. Batterson, staff, and resource personnel.

Dental Materials

Professor: DAVID B. MAHLER (department head).

Instructor: GEORGE E. MILLER.

Research Assistant: A. BRUCE ADY

***DM 305. Survey of Dental Sciences.** 4 credit hours summer.

For nondonentists enrolled in the dental materials graduate program, to familiarize them with the clinical and basic science fields of dentistry. Lectures in oral anatomy, oral physiology, oral bacteriology, oral pathology, oral histology, orthodontics, and restorative dentistry. Lectures, 44 clock hours. Dental school staff.

DM 401. Special Studies. Credit to be arranged.

DM 411. Dental Materials. 2 credit hours fall.

First year. Introduction to dental materials, with emphasis on their use in restorative dentistry. Gypsum materials, impression materials, synthetic resins, cements, amalgam, and gold alloys. Lectures, 11 clock hours; laboratory, 33 clock hours. Drs. Mahler, Miller.

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, 11 clock hours fall; 22 clock hours winter. Dr. Mahler.

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

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 hours. 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 a master's degree are (1) a 3.00 GPA in required courses, (2) a satisfactory score on a preliminary examination given at the end of the third term of graduate study, (3) a thesis based on original research, and (4) a satisfactory score on a final oral examination.

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 hours. 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 hours. Dr. Mahler, Mr. Ady.

* Not offered 1963-64.

DENTAL HYGIENE COURSE

DM 232. **Dental Materials.** 2 credit hours winter.

Lecture, 11 clock hours; laboratory, 22 clock hours. Drs. Mahler, Miller.

Dental Orientation

Professor: GEORGE E. BATTERSON

DENTAL HYGIENE COURSE

DO 316. **Civil Defense and First Aid.** 2 credit hours winter.

Instruction includes the ten-hour standard Red Cross first-aid program, the Red Cross home-nursing program, and projects and lectures on local, state, and national civil-defense activities and methods, to provide a thorough understanding of the responsibilities of the dental hygienist in a national emergency. Lectures and demonstration, 22 clock hours. Mr. Batterson, Red Cross staff, Mr. Watts.

General Clinic Practice

Professors: ERWIN T. BENDER, ARTHUR E. FRY.

CP 633, 634, 635. **General Clinical Practice.** Credit to be arranged.

Third year. Provides clinical experience in the comprehensive treatment of oral disease. The student's general clinic patient and departmental assignment is so coordinated that the student is responsible for complete dental health care of a patient. The student may be referred from one department to another to assure continuity and correlation of the patient's diagnosis and treatment plan. Necessary interclinic and departmental records of service completed and work in progress, as well as of student-patient scheduling, are maintained. Students receive unit and hour credit in the individual clinics in which different dental health services are performed. The entire oral health problem of each patient is determined by examination, laboratory aids, and interdepartmental consultation. A treatment program is prepared and, after approval, executed by the student under supervision. Treatment and observation of the patient continues to be the responsibility of the student until graduation. Dr. Bender, department heads, and staff.

CP 643, 644, 645. **General Clinical Practice.** Credit to be arranged.

Fourth year. For description, see CP 633, 634, 635. Dr. Bender, department heads, and staff.

* Human Biology

Professors: ELLIS B. JUMP, NILKANTH M. PHATAK, NORMAN H. RICKLES, MARSHALL L. SNYDER.

Associate Professors: ROBERT J. BRUCKNER, DONALD G. REESE.

Assistant Professors: MARIE S. SLAWSON, MORRIS E. WEAVER.

DENTAL HYGIENE COURSES

Bi 207, 208, 209. **Human Biology.** 5, 5, 5 credit hours.

First year. Biological dynamics of representative forms from micro-organisms to man, with examples selected from major phyla to illustrate the application of biological principles to increasingly complex forms of life. Designed to prepare the student for the second-year sequence. Lectures, 88 clock hours; conferences, 11 hours; laboratory, 176 hours. Drs. Weaver, Jump, Snyder, Mrs. Slawson.

* Administrative responsibility for Human Biology courses is carried by the Dental School Biology Committee.

Bi 318, 319, 320, 321. **Human Biology.** 2, 2, 4, 2 credit hours.

Second year. Study of developmental, gross, and microscopic anatomy of man, with special emphasis on the region of the head and neck in both the normal and morbid states, together with a consideration of the therapeutic agents utilized in the control of common disease processes. Lectures, 99 hours; laboratory, 22 hours. Drs. Weaver, Jump, Rickles, Bruckner, Phatak, Reese, oral pathology staff.

Nutrition

Assistant Professor : LORNA V. KLIER.

Instructor : DORIS A. GOOD.

Clinical Assistant : MARIAN H. DICKEY.

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

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

Third year. Clinical application of principles of nutrition to dentistry; relation of diet to oral health, caries incidence, and general health; the principles of nutrition to be applied throughout clinic practice. Lectures, 11 clock hours. Mrs. Klier and visiting faculty lecturers.

Nu 630, 631, 632. **Nutrition Clinic.** 1 credit hour total.

Nu 640, 641, 642. **Nutrition Clinic.** 1 credit hour total.

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. Klier, Mrs. Good, Mrs. Dickey.

DENTAL HYGIENE COURSE

Nu 220. **Nutrition.** 3 credit hours winter.

Lectures, conferences and demonstrations. 33 clock hours. Mrs. Good.

Operative Dentistry

Professors : KENNETH R. CANTWELL (department head), LOUIS G. TERKLA.

Associate Professors : ARTHUR W. APLIN, FRED M. SORENSON, ROBERT F. WATKINS.

Clinical Associate : RAY J. DAVIS.

Assistant Professors : STEPHEN M. CLARK, ALBERT F. MACHO.

Instructors : ALAN H. FRUM, MYRON G. SMITH.

Clinical Assistants : HELMUTH G. HERMAN, NICLAUS H. MARINEAU, ROBERT D. PETERSEN, E. ROBERT QUINN, JOHN A. WAGONER.

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 hours. Dr. Terkla.

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 hours. Drs. Terkla, Macho, Clark, Marineau.

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 hours. Dr. Terkla.

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 in 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 hours. Drs. Terkla, Macho, Clark, Marineau.

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

Second year. Introduction to use of the rubber dam in operative dentistry, including a motion picture and demonstrations on rubber-dam applications; order of permanence and comparison of the qualities of all restorative materials; factors governing the choice of restorative materials, and the treatment of the pulp; cavity liners and sterilization; clinic orientation; chair positions; patient handling; pain control. Lectures, 11 clock hours. Dr. Terkla.

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; technics of pulp treatments are performed; extensive restorations are fabricated. Students are permitted to use air-turbine handpieces for most preparations. All work performed under the rubber dam in limited time periods. Laboratory, 44 clock hours. Drs. Terkla, Macho, Clark, Marineau.

Op 428. Operative Clinic. No credit, spring.

Second year. Introduction to clinical routine. The student applies the rubber dam on 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, 3 clock hours. Drs. Terkla, Macho, Marineau, Herman, Wagoner.

Op 437. Root Canal Therapy. 2 credit hours winter.

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

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 hours. Dr. Cantwell.

Op 440. Principles of Clinical Operative Dentistry. 1 credit hour 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 procedures. Lectures and conferences, 11 clock hours. Dr. Cantwell.

Op 633, 634, 635. Operative Clinical Practice. Credit to be arranged.

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, Macho, Herman, Quinn, Wagoner.

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

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. The tests have a specific time limitation and the finished restoration must be of an acceptable quality. Drs. Cantwell, Davis, Aplin, Sorenson, Watkins, Smith, Frum.

GRADUATE COURSES

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

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

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

Oral Diagnosis

Professors: ARTHUR E. FRY (department head), ARNOL R. NEELY.

Assistant Professor: C. DOUGLAS RUHLMAN.

Instructor: ALENE L. PRAIRIE.

Clinical Assistant: JOHN V. KRIPPAEHNE.

Additional Staff: Members of all clinical and basic science departments.

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

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

Second year. Case histories, detailed clinical examination, use of laboratory diagnostic aids. 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 recording 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 hours. Drs. Neely, Fry, Bender, Ruhlman.

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

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

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

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

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

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 438 in winter term. Student preparation, 11 clock hours. Drs. Fry, Bender, Neely, Ruhlman, 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 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 the entire junior class and to faculty representatives of both the clinical and the basic science departments. Clinical conferences and demonstration, 22 clock hours. Drs. Fry, Bender, Neely, Ruhlman, 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 hours. Drs. Fry, Bender, Neely, 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 hours. Drs. Fry, Bender, Neely, 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 work-up of the case. The faculty and consultants provide a final constructive criticism of the student's plan for treatment. Conference, 11 clock hours. Drs. Fry, Bender, Neely, clinical and science staffs, visiting consultants.

OD 442. Oral Diagnosis Clinic. 1 hour.

Fourth year. Practice in diagnosis and establishment of tentative treatment plans, presented for review by instructors; 33 clock hours. Independent work 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 hours.

Oral Roentgenology

Professors: H. CLINE FIXOTT (department head), ARNOL R. NEELY.

Ro 401. Special Studies. Credit to be arranged.**Ro 420, 421. Oral Roentgenology.** 1 credit hour each term, winter and spring.

Second year. Physical principles involved in the production of Roentgen rays. Technic of making radiographs of the teeth and oral cavity. Processing, interpretation, and care of films. Diagnostic and therapeutic applications of radiology in dentistry. Lecture and demonstration, 22 clock hours. Drs. Fixott, Neely.

Ro 422. Oral Roentgenology. 1 credit hour spring.

Second year. Clinical application of oral roentgenology technics. Laboratory, 15 clock hours. Drs. Fixott, Neely.

Ro 630, 631, 632. Oral Roentgenology Clinic. 1 credit hour total.

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

Ro 640, 641, 642. **Oral Roentgenology Clinic.** 1 credit hour total.
Fourth year. Drs. Fixott, Neely, staff.

DENTAL HYGIENE COURSE

Ro 320, 321, 322. **Oral Roentgenology.** 2, 2, 1 credit hours.
Lectures, 22 clock hours; laboratory, 22 clock hours; clinic, 66 clock hours.
Drs. Fixott, Neely.

Oral Surgery

Professor: WILBUR N. VAN ZILE (department head).

Associate Professors: JOHN P. JARABAK, JAN J. MULLER.

Clinical Associates: ROBERT D. ALFORD, ROBERT S. PARKER, RICHARD G. WELDEN.

Assistant Professors: LORETTA F. CASE, EUGENE O. KELLEY.

Clinical Assistants: LEWIS D. CAMPBELL, JR., JAY T. ESTEP, ROBERT L. LANDIS.

Instructor: BERNADETTE A. SCULLY.

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

OS 421. **Local Anesthesia and Exodontics.** 1 credit hour spring.

Second year. Obtaining and evaluating the case history of the patient; consultation with the physician; obtaining necessary laboratory tests; analysis of the patient's individual problem; determination of the anesthetic risks and selection of local and general anesthetic for the case; use of premedication; choice and use of instruments; sterile technic; various injections in local anesthesia and exodontic operations; technic of tooth removal; postoperative treatment. Lectures, demonstrations and clinical practice, 22 clock hours. Drs. Van Zile, Jarabak, staff.

OS 422. **Local Anesthesia and Exodontics: Clinical Observation.** Credit to be arranged.

Second year, 22 clock hours.

OS 430, 431, 432. **Oral Surgery.** 1, 2, 1 credit hours.

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 hours; clinic, 22 clock hours minimum (additional hours by arrangement). Drs. Van Zile, Jarabak, Muller, Alford, Welden, Mrs. Case, Miss Scully.

OS 438. **General Anesthesia.** 1 credit hour winter.

Third year. History of anesthesia. Agents employed, stages of anesthesia. Principles governing the selection of anesthetics for children and adults. Methods of administration. Indications and contra-indications; care of patients, before and after anesthesia. Administration of general anesthesia. Theory and practical demonstration of recent developments in anesthetic agents and methods. Lectures and demonstrations, 22 clock hours. Mrs. Case, Drs. Van Zile, Jarabak, Muller.

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

Fourth year. Procedures in maxillofacial surgery. Lectures, 11 clock hours.

OS 644. **Anesthesia Clinic.** 1 credit hour fall.

Fourth year. Advanced lecture demonstrations in general anesthesia, including student observation of these procedures as applied to exodontics. Lectures and demonstrations, 11 clock hours. Drs. Van Zile, Jarabak, Mrs. Case.

Orthodontics

Professors: ERNEST H. HIXON (department head), HAROLD J. NOYES.

Associate Professor: DOUGLAS S. BUCK.

Clinical Associates: JOHN P. ANDERSON, LAUREL BROWN, PAUL KLEIN, CYRIL O'BRIEN, RICHARD PEDERSEN, FRANKLIN D. PIACENTINI, MATTHEW A. MATTHEWS.

Clinical Assistant: LEROY GOODWIN.

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

Ord 401. **Special Studies: Cleft Palate Rehabilitation.** 1 credit hour spring.

Fourth year. Elective. Lectures by specialists in the fields of orthodontics, otolaryngology, pediatrics, pedodontics, plastic surgery, prosthodontics, psychiatry, and speech pathology, providing a cooperative diagnosis and treatment for children with cleft palates. The dental student observes comprehensive treatment of cleft palate conditions and the services of the various specialists in dentistry and medicine during the procedures for the complete rehabilitation of a cleft palate handicapped patient. Upon completion of the course, a senior student may provide treatment for one of these patients by making a prosthetic appliance. Lectures, 11 clock hours. Drs. Richard Adams, Hixon.

Ord 428. **Orthodontics.** 1 credit hour spring.

Second year. Laboratory training in technics, including impression taking, model preparation, frechand soldering, wire bending, band forming, and construction of simple appliances. Taught jointly with pedodontic laboratory. 33 clock hours.

Ord 429. **Pedodontic-Orthodontic Technic.** 3 credit hours spring.

Second year. Laboratory training in technics utilized in care and guidance of developing dentition of children. Restorative and pulp treatment procedures for primary teeth, impression making, study cast preparation, soldering, wire bending, band formation and appliance construction. An introduction to elementary diagnostic and preventive procedures through five clinical periods to emphasize aspects of the laboratory and lecture programs. Laboratory, 77 clock hours. Dr. Strange, coordinator; pedodontic and orthodontic staffs.

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

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

Ord 438. **Orthodontics.** 1 credit hour spring.

Third year. Presentation of clinic cases, discussion and integration of orthodontic theory and mechanics. Demonstrations, 11 clock hours.

Ord 439. **Orthodontic Conference.** 1 credit hour winter.

Fourth year. Continuation of Ord 438. Conferences, 11 hours. Dr. Hixon and staff.

Advanced Training in Orthodontics

Postgraduate Program

The 21-month postgraduate program provides thorough training in the clinical and theoretical aspects of orthodontics. The curriculum includes orthodontic theory, laboratory, clinical experience, statistics, anatomy, speech pathology, anthropology, genetics, oral pathology, and dental materials as well as elective courses. Instruction is through conferences and seminars which permit integra-

tion of concepts, diagnostic methods, and clinical treatment. The program leads to a certificate which signifies that the requirements for specialization have been met.

Graduate 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 is granted upon satisfactory performance in an examination taken after two terms in the postgraduate program.

The requirements for the Master of Science degree are: (1) a GPA of 3.00 in all graduate work in the area of major study; (2) a thesis based on original research; (3) course work needed in connection with the research project; (4) satisfactory performance on both a preliminary and a final oral examination.

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, treatment planning, and therapy for cases of malocclusion.

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

Pathology (General and Oral)

Professor: NORMAN H. RICKLES (department head).

Associate Professor: ROBERT J. BRUCKNER.

Assistant Professors: WILLIAM B. WESCOTT, JAMES S. BENNETT.

Clinical Associates: LEO J. FREIERMUTH, MILTON H. JOHNSON, ROBERT R. SIDDO-
WAY, JOHN C. SMITH.

Research Assistants: P. KATHLEEN BOWMAN, MARILYN A. HILLIER, LOUIS H.
PETERS, SARA J. BARNUM.

Teaching Fellows: W. WARREN SCHAFER, 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 hours; laboratory, 110 clock hours.

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

Third year. Continuation of study of special pathology, including diseases of the endocrine, respiratory, genitourinary, cardiovascular, and reticuloendothelial systems. For each system oral manifestations are emphasized. Study of the gastrointestinal system permits an inclusive and orderly study and review of oral diseases. Laboratory tests and methods utilized as aids in diagnosis. Clinical, roentgenographic, microscopic, and laboratory findings correlated for each oral disease. Lectures, 22 clock hours; laboratory, 66 clock hours.

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 hours; conference, 11 clock hours; laboratory, 22 clock hours.

Graduate Program in Oral Pathology

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

A three-year program is planned to accomplish these objectives. The first year is spent in a junior 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 the conferences and seminars.

The following 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, teaches under supervision, does research leading to a thesis, and participates in seminars, conferences, and ward rounds.

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 historical slides with the clinical manifestations of various lesions. Prerequisites: Pth 423, 434, 445; Pth 420, 421, 422; or equivalent; or consent of Pathology Department. Drs. Rickles, Bruckner, staff.

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

DENTAL HYGIENE COURSE

Bi 319, 320. **Human Biology.** 2, 4 credit hours spring, fall and winter terms.

Lectures, 66 clock hours, Drs. Rickles, Bruckner, pathology staff.

Pedodontics

Professor: DONALD R. PORTER (department head).

Associate Professors: DUANE R. PAULSON, JOHN P. DICKSON.

Clinical Associates: DONALD F. KELLY, EVELYN STRANGE, CHARLES BRADLEY.

Assistant Professors: RICHARD ADAMS, JOHN S. GULLIKSON, JAMES T. RULE.

Clinical Assistant: STEPHEN DANCHOK.

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

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

Basic concepts of physical and psychological growth presented in the light of

variation of the normal; the rationale of treatment procedures utilized in caring for oral needs of children. Background and direction are given the student to enable him to assess children's problems and to program remedial and preventive care. Lectures, 44 clock hours. Drs. Hixon, Lu, Paulson, Kelly, Bradley, Adams, Porter.

Ord 429. Pedodontic-Orthodontic Technic.

See Orthodontics, p. 59, for description.

Ped 431. Pedodontics. 1 credit hour winter.

Third year. Eleven lectures on dental anomalies in children, in relation to early recognition and treatment programming; medical, neurological, and psychological problems of these children and their management in the dental environment; treatment of lesions of the oral mucous membrane of children. Lectures, 11 clock hours. Drs. Porter, Kelly, Gullikson, and guest lecturers.

Ped 440. Pedodontic Conference. 1 credit hour fall.

Fourth year. Through the media of small group conferences (ten to twenty students), consideration is given problems arising in pedodontic practice. Discussion of pertinent literature and student clinical problems. Drs. Paulson, Adams, guests.

Ped 630, 631, 632. Pedodontic Clinical Practice. Credit to be arranged.

Third year.

Ped 640, 641, 642. Pedodontic Clinical Practice. Credit to be arranged.

Fourth year.

Certificate and Graduate Pedodontic Program

The objective of the program is to prepare graduate dentists to meet dental needs of the child population. 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. Competence in administering to complete oral needs in order to allow expression of the child's potential is demanded. 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. Instruction in the professional aspects of the pedodontic specialty in preparation for teaching is provided to meet the objective.

The student's major interest is satisfied by required courses supplemented by electives selected in consultation with departmental staff. Courses are designed to qualify the graduate for objective evaluation of principles involved in the child's oral and general health, as well as to perform capably as a diagnostician and clinician in the specialized field of dentistry for children.

The approach is through conferences and seminars, with discussions emphasizing correlations with allied fields, evaluation of diagnostic methods, and rationalization of treatment principles. The conferences are supported by laboratory and clinical programs to provide application.

The student participates 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. The student also participates in the team approach utilized in the care of the cleft palate child. Problems of cerebral palsied, paralytic, mentally retarded, and other handicapped children are evaluated in terms of the needs of these children.

The Dental School, the Medical School, and Portland Continuation Center offer basic science courses for graduate students.

After three terms of work under the eighteen-month-certificate program, the student may elect to work for the Master of Science degree. Before admission for candidacy for a degree, he must pass an examination given by the Graduate Committee. If he is accepted as a candidate, the credits earned under the certificate pro-

gram can be applied toward the Master of Science degree. The student should plan to spend a minimum of twenty-four months to complete the master's degree requirements.

A thesis, based upon original investigation, is a requirement for the master's degree.

A final oral examination is conducted by the faculty of the Dental School and other qualified guest examiners, selected by the head of the department and the chairman of the Graduate Committee.

A three-year program is offered for students interested in careers in dental research and dental education. This program is designed to provide the disciplines and tools of a basic science area in addition to the pedodontic area. The National Institute of Dental Research, U. S. Public Health Service, provides financial aid for the training period.

GRADUATE COURSES

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

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

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

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

Ped 511, 512, 513, 514, 515, 516. **Advanced Pedodontics Practice.** Credit to be arranged (maximum, 9 hours.)

Application of treatment principles discussed in conferences and seminars in relation to diagnosis and direction of complete oral health. Rehabilitation of oral health for preschool, cleft palate, and handicapped ambulatory children emphasized. Clinical application of advanced operative, interceptive orthodontic, endodontic, surgical, and prosthetic procedures. Nutritional and preventive aspects of child care.

Ped 517, 518. **Dental Implications in Debilitated Children.** Credit to be arranged (maximum 4 hours.)

Designed to permit the student to become familiar with hospital procedures and the problems associated with care of the debilitated child. The student participates in ward rounds of pediatric patients, and in conferences concerning these patients, administers to the dental needs of the patients, and works with the hospital anesthesiology staff where necessary

Periodontology

Professor: HAROLD E. GRUPE (department head).

Assistant Professors: STEPHEN M. CLARK, WALTER B. HALL.

Clinical Associates: FRANK G. EVERETT, THOMAS D. HOLDER, ALBERT G. KANTOR, DONALD J. PASSMORE, ARTHUR G. SCHWARTZENHAUER, CLAY E. WILCOX, GEORGE C. WILLIAMS.

Clinical Assistants: JOHN K. TOTTE, JOHN D. PARKER.

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

Special studies and seminar involving research and advanced clinical course work for students who show special interest. Elective.

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

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

Per 415, 416. **Oral Prophylaxis.** 1 credit hour each term, winter and spring.

First year. Orientation to clinical practice through application of prophylactic

principles in the clinic. Patient management, measures effective in prevention of oral disease, use and care of instruments, development of manual dexterity. The student observes oral abnormalities and diseases, such as gingivitis, caries, and other hard- and soft-tissue changes affecting the oral hygiene of the patient. Drs. Clark, Holder, Passmore, Wilcox, Tofte.

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

Second year. Advanced oral prophylaxis clinic. Clinic, 11 clock hours. Drs. Grupe, Clark, Holder, Passmore, Wilcox.

Per 423. **Principles of Periodontology.** 1 credit hour spring.

Second year. Introduction to periodontal diseases based upon the pathologic changes in the supporting tissues, etiology, and clinical features. Proper nomenclature used in description and diagnosis. Correlation of histopathologic material with roentgenograms. Use of charts in recording clinical observations. Lectures, 11 clock hours. Dr. Grupe.

Per 439. **Periodontology.** 2 credit hours, winter and spring.

Third year. Review of the histology and histopathology of the periodontal tissues. The taking of a correct case history. Etiology, diagnosis, and treatment of periodontal diseases. In the diagnostic phase, the value of clinical observation, interpretation of roentgenograms, study models, smears, biopsies, and nutritional studies are shown in appropriate cases. In the treatment phase instrumentation is stressed, as are demonstrations of methods of improving occlusion, and of gingival surgery and splinting. Contouring of individual dental restorations in the prevention and treatment of periodontal disease, with consideration of gingival margins, contouring, contacts, and occlusion. Clinical application of the principles of periodontology in the prevention and treatment of periodontal disease. Lectures, 11 clock hours; clinic, 30 clock hours. Drs. Grupe, Everett, Hall, Clark, Holder, Williams, Schwartzenhauer, Kantor, Tofte.

Per 440. **Periodontology.** 1 credit hour fall.

Fourth year. Comprehensive study of techniques used in lesion therapy, with emphasis on subgingival curettage, conservative surgical gingivectomy, flap operations, and frenotomy operations. Consideration of ultrasonics and antibiotics in periodontal therapy. Lectures, 11 clock hours. Dr. Grupe.

Per 640. **Periodontology Clinic.** 1 credit hour, fall and winter.

Fourth year. The student continues to care for the patients with periodontal disease whom he treated in Per 439, with study of the effects of previous therapy. Treatment methods for advanced cases of periodontal disease. Clinic, 30 clock hours. Drs. Grupe, Everett, Hall, Clark, Holder, Williams, Schwartzenhauer, Kantor, Tofte.

Pharmacology

Professor: NILKANTH M. PHATAK (department head).

Associate Professor: DONALD G. REESE.

Assistant Professor: LORETTA F. CASE.

Clinical Assistant: DONALD GERMAIN.

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

Phc 438, 439. **Pharmacology.** (G) 4 credit hours, winter and/or spring.

Third-year sequence. History and development of rational use of drugs in medicine. Methodology, literature, and current problems. Posology; basic concepts; mechanisms and factors modifying drug action. Use of drugs in the diagnosis and prevention of disease. Study of systemic effects of drugs on various body functions; therapeutic or systemic classifications of drugs for the treatment of patient reaction to the use of general and local anesthetics. Toxicology. Prescription practice. Laboratory and clinical experience in the use of drugs for the care of patients, to develop a scientific attitude in the handling of

pharmacological data in the appraisal of therapeutic procedures. Lectures, 33 clock hours; laboratory, 22 clock hours. Drs. Reese, Phatak, staff.

Phc 440. **Pharmacology.** (G) 2 credit hours fall.

Fourth year. Continuation of Phc 438, 439 sequence. Lectures, 11 clock hours; laboratory, 22 clock hours.

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

Fourth year. Basic considerations of drug therapy in the overall dental treatment of the patient, including medical consultation; active principles; nature of action. Dental prescriptions and formulae, dosages, forms in which drug preparations are available for use. Lectures, 11 clock hours. Drs. Reese, Phatak, staff.

GRADUATE COURSES

Phc 438, 439, 440 or equivalent are prerequisite 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 513. **Advanced Human Pharmacology.** 5-6 credit hours.

Special studies of neuromuscular and cardiorespiratory effects as modified by the use of local and general anesthetics, analgesics, sedatives, autonomic drugs, tranquilizers, and antihistamines in dental practice. Lectures and conferences, 22-23 clock hours; laboratory and clinic, 132 clock hours.

DENTAL HYGIENE COURSE

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

Lectures, 22 clock hours. Drs. Phatak, Reese.

Physiology

Professors: LEONARD H. ELWELL (department head), BHIM S. SAVARA.

Assistant Professors: LORETTA F. CASE, RICHARD S. POPE.

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

Phy 418. **Physiology.** (G) 2 credit hours winter.

First year. Introduction to study of human physiology. Physiology of excitation, conduction, and muscular contraction. Lectures, 11 clock hours; laboratory, 33 clock hours. Dr. Elwell, Mrs. Case, Mr. Pope.

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 hours; laboratory, 33 clock hours. Dr. Elwell, Mrs. Case, Mr. Pope.

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

Second year. Physiology of gastrointestinal tract, excretion, special senses, endocrine systems. Lectures, 22 clock hours; laboratory, 33 clock hours. Dr. Elwell, Mrs. Case, Mr. Pope.

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.

DENTAL HYGIENE COURSE

Phy 220. **Growth and Development.** 1 credit hour fall.

Lectures, 11 clock hours. Dr. Savara.

Principles of Medicine

Professors: H. CLINE FIXOTT, JR., NORMAN H. RICKLES

Clinical Associates: FRANK G. EVERETT, JAMES V. WOODWORTH.

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

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

Third year. The course is designed to provide an understanding of the inter-relationship 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 hours. Dr. Woodworth, staff.

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 hours. Dr. Woodworth.

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 professions. Dr. Woodworth, staff.

Professional Adjustment

Professors: GEORGE E. BATTERSON, VINSON M. WEBER.

Instructor: KARL H. HEPPE.

Lecturers: HERMAN A. DICKEL, WILLIAM W. HOWARD, DON H. MARMADUKE, HERBERT J. WATTS, CLARENCE R. WICKS.

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 and methods of the dental curriculum. Introduction to the use of the Library and other Dental School facilities. Introduction to dental history, methods of professional study; introduction to social, economic and political issues facing the dental profession and the effect of these issues on the aims and methods of dental education. Groups of four or five students in rotation are scheduled for supervised clinical observation among the several clinics, including the patient examination, X-ray, and treatment planning rooms. Lectures, 11 clock hours; clinical orientation, 4 clock hours. Dr. Howard, Mr. Batterson, clinical staff, and members of the profession.

PA 312. Professional Writing. 1 credit hour.

First year. Methods by which dental information is obtained from published sources; evaluation of material; methods of effective expression, with particular reference to the writing of scientific, technical-case, socio-economic, and professional meeting reports. Course requirements include the writing of a 2,500-word paper, the topic for which is chosen from among the fields of dental sociology, economics, dental history, dental science, technic, diagnosis and clinical practice. The final steps in the organization and composition of the paper are done in conference with the instructor and with other course instructors in departments to which the paper's topic is related. Lectures, 5 clock hours; 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 record dental defects on clinical charts and observe case-history taking diagnostic procedures, and planning of treatment. Clinical orientation, 4 clock hours. Dr. Bender and clinical staff.

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

First year. A historical perspective of salient developments in dental and medical progress that have relevance for interpreting contemporary professional objectives and action. Stress is laid on the professional, social, scientific, and political-economic relations of the profession. Lectures and student report programs, 11 clock hours; supplemented by student-instructor workshop conferences. Mr. Batterson, staff.

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

Second year. Practical civil defense against regular and atomic warfare and for disaster relief, emphasizing the aims and policies of national, state, and local civil defense organizations. First-aid procedures for dental personnel, including treatment of shock, wounds, bleeding, fractures, and burns. Demonstration and practice of bandaging and dressing, and of artificial respiration. Blood typing and transfusions. The role of the faculty, students, and civil-service employees in civil-defense first-aid measures for Dental School personnel. Before graduation students must demonstrate ability to perform practical first-aid and civil-defense measures. Lectures and demonstrations, 11 clock hours. Mr. Batterson, Mr. Watts, staff.

PA 401. Special Studies. Credit to be arranged.**PA 401. Special Studies: Principles of Learning and Instruction.** 1 credit hour spring.

First year. Elective. Guiding principles of learning and education, with implications and applications in dental education. Objectives, principles, and methods of teaching, course building, and evaluation. The vertical curriculum; the lecture, seminar, conference, and demonstration, with consideration of effective use in dental education. Special attention to technic and clinical teaching, and to use of visual aids; presentation of dental clinics for professional groups. Classroom tests, measurements, and evaluation devices. Adult-education methods for practicing dentists, with application to public speaking and the giving of dental health guidance to the patient; use of exhibits and mimeographed guides. Lectures and demonstrations, 11 clock hours. Mr. Batterson, Dental School faculty, resource personnel.

PA 401. Special Studies: Psychiatry of the Patient. 1 credit hour spring.

Fourth year. Elective. Principles of human conduct underlying normal and abnormal adjustment. Classification of psychiatric problem cases; their characteristics and typical reaction, and underlying causes of these reactions. The course aims to develop the student's educated judgment of effective means by which the doctor may understand and work to the advantage of those persons suffering from psychological and psychiatric problems. Consideration given to the manifestations of patient mental maladjustment as observed under dental-service conditions, as well as in other health and social conditions. Conferences and case discussion. 11 clock hours. Resource staff; Mr. Batterson, coordinator.

PA 401. Special Studies: Scientific Photography and Illustration. 1 credit hour spring.

Fourth year. Elective. Means by which photography and illustrations may be of help in dental practice; principles of photographic optics; choice of camera and equipment; techniques in photography and darkroom; intra-oral and dental patient photography. Introduction to microphotography and photomicrography; use of photography in scientific publications and dental clinics. Lectures, demonstrations, and workshops. 11 clock hours. Mr. Heppe; Mr. Batterson, coordinator.

PA 430. Professional Writing. 1 credit hour winter.

Third year. A follow-up professional writing workshop in conference with course instructors, under the supervision of Dental School faculty participating in the teaching of professional writing principles during the first year. Topics taken from regular course assignments during the junior year. The writing project may extend through the junior and senior years for a limited number of students who show unusual ability or interest in the research or developmental phase of a subject which involves observation and recording of data. The writing workshop will be in conference with regular course instructors. A primary objective is the encouragement of written communication in the research, scientific, technical, and socio-cultural areas of the dental profession and the development of student abilities for mature professional communication. Conference and workshop, 5 clock hours. Dental School staff, Mr. Batterson, coordinator.

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

The objective is to provide the dental student with a thorough and functional understanding of the relationships 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 in 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 hours. Dr. Howard, Mr. Wicks, Mr. Marmaduke.

PA 442. Practice Management. 1 credit hour each term, fall and spring.

Fourth year. Elective. The course is primarily concerned with the organization of a new practice; practical consideration given to office design, practice efficiency, cost of operation of a practice, factors determining the location of a practice, utilization of auxiliary personnel, bookkeeping and other records, such as recall system and patient charts, financing of equipment purchases and other office costs, fee payment plans, estate planning, governmental reports, and a brief review of the literature available. Lectures, visual aids, guest speakers, including Dental School faculty. Lectures, 11 clock hours per term. Mr. Bauer, Dr. Weber.

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. Lectures, 11 clock hours. Dr. Howard, Mr. Wicks, Mr. Marmaduke.

PA 446. Professional Viewpoints. 1 credit hour spring.

Fourth year. Study of trends in professional points of view; resource speakers on topics of interest to the graduate student who is entering practice, covering the educational, social, political, health-service, and community-citizenship roles of professional men and women. Seniors are asked to suggest subjects of interest. The senior class, acting as a body, formulates a documented, written statement on a subject of particular interest to the class. The statement expresses the majority and minority views of the class and the reasons for these views; it is usually submitted for publication in a dental professional journal. Lectures and panels by resource personnel, 11 clock hours. Dr. Weber and Mr. Batterson, coordinators; resource personnel and dental school faculty.

Prosthetics

Professor: CHARLES J. STOUT (department head).

Clinical Associates: HERBERT A. KRUMBEIN, RULON H. JOHNSON.

Assistant Professor: RICHARD M. WEIGEL.

Clinical Assistants: TED B. MCINNIS, JOSEPH PITTON.

Instructors: JOHN L. DEVNEY, LAWRENCE REMUS.

- Pr 401. **Special Studies: Preclinical Lecture Demonstration.** Credit to be arranged, winter.
 First year. A preclinical lecture demonstration course for orientation to bridge the change from technic laboratory work to clinical procedures. Lectures and demonstrations, 11 clock hours.
- Pr 412. **Prosthetic Technic.** 3 credit hours fall.
 First year. Introduction to the construction of complete denture laboratory procedures. Lectures, 11 clock hours; laboratory, 66 clock hours. Drs. Krumbein, Remus, McInnis, Pitton.
- Pr 413. **Prosthetic Technic.** 3 credit hours winter.
 First year. Continuation of Pr 412 to completion of the technic phase of complete denture construction. Lectures, 11 clock hours; laboratory, 66 clock hours. Drs. Krumbein, Remus, McInnis, Pitton.
- Pr 414. **Prosthetic Clinic.** Credit to be arranged, spring.
 First year. Clinical experience following Pr 401. Two students work together to construct a complete set of dentures for a patient. Clinic, 66 clock hours. Drs. Stout, Devney, Remus, Canfield, Weigel.
- Pr 418. **Prosthetic Technic.** 3 credit hours spring.
 First year. Introduction to the construction of partial denture laboratory procedures. Lectures, 11 clock hours; laboratory, 66 clock hours. Drs. Krumbein, Remus, McInnis, Pitton.
- Pr 424. **Prosthetic Clinic.** 1 credit hour fall.
 Second year. An intermediary clinic demonstration course following the student's first-year experience with patients, to correlate technic procedures and clinic practice. Clinic demonstration, 22 clock hours. Drs. Weigel, Canfield.
- Pr 425. **Prosthetic Clinic.** 1 credit hour winter.
 Second year. Complete denture clinical experience; applications of demonstrations given in Pr 424. Clinic, 44 clock hours. Drs. Stout, Canfield, Devney, Remus, Weigel.
- Pr 426. **Prosthetic Clinic.** 1 credit hour spring.
 Second year. Continuation of clinical experience in complete denture practice; introduction to partial denture construction with clinical experience. Clinic, 44 clock hours. Drs. Stout, Canfield, Devney, Remus, Weigel.
- Pr 430. **Didactic Principles of Clinical Prosthesis.** 1 credit hour fall.
 Third year. Lectures and demonstrations coordinating the theory of crown and bridge, partial denture, and complete denture prosthesis with clinical applications in Pr 633, 634, 635. Lectures and demonstrations, 11 clock hours. Dr. Stout.
- Pr 440. **Didactic Principles of Clinical Prosthesis.** 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 demonstrations, 11 clock hours. Dr. Stout.
- Pr 633, 634, 635. **Prosthetic Clinical Practice.** Credit to be arranged.
 Third year. The clinical aspects of partial denture and complete denture prosthesis, and the primary correlation of these phases. Drs. Stout, Canfield, Devney, Remus.

Pr 643, 644, 645. **Prosthetic Clinical Practice.** Credit to be arranged.

Fourth year. Clinical applications of the interrelationships of crown and bridge, partial denture, and complete denture prosthesis. Each student performs several complete oral-cavity restorations. Applications of the procedures of prosthesis to office practice. Drs. Stout, Canfield, Devney, Remus, Weigel.

Public Health Dentistry

Professor: DEMETRIOS M. HADJIMARKOS (department head).

Clinical Associate: DAVID M. WITTER.

Lecturer: WILLIAM L. BARNUM.

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

PH 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 hours. Dr. Hadjimarkos.

PH 440, 441. **Public Health Dentistry.** 2 credit hours 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 and field work. Lectures, 22 clock hours. Dr. Hadjimarkos and associates.

GRADUATE COURSES

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

PH 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.

PH 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.

DENTAL HYGIENE COURSES

PH 117. **Personal and Community Hygiene.** 1 credit hour fall.

Lectures, 11 clock hours. Miss Hannon.

PH 222. **Caries Prevention.** 2 credit hours fall.

Lectures, 11 clock hours. Dr. Hadjimarkos. Clinic and demonstrations, 22 clock hours. Dr. Snyder, Mrs. Klier, Mrs. Good, dental hygiene staff.

PH 223. **Public Health Dentistry.** 2 credit hours winter.

Lectures, 22 clock hours. Dr. Hadjimarkos.

PH 224. **First Aid.** 2 credit hours winter.

Lectures, demonstrations, and practice, 22 clock hours.

PH 320, 321, 322. **Dental Health Education.** 1 credit hour each term.

Lectures, 33 clock hours. Miss Hannon, Dr. Barnum.

Dental Hygiene

Associate Professors: EVELYN R. HANNON (department head), JOHN P. DICKSON.

Assistant Professors: RACHEL K. ESPEY, MARGARET M. E. ROBINSON.

Instructor: CAROLYN HIGHLEY.

Lecturers: ROBERT L. CASTEEL, JAMES A. COWAN, ROBERT ENGLISH, RUTH RENFROE, RUSS SARDO.

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, 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, after two additional years of study on the Eugene campus of the University of Oregon. Under a similar arrangement, they may earn the B.S. degree, with a major in general science, after two additional years of study at Oregon State University in Corvallis, or a B.S. degree in general studies at Portland State College after two additional years of work at that institution.

As an alternative the student may enroll at the University in Eugene, at Oregon State University, or at Portland State College for her freshman year, transfer to the Dental School for the two-year dental hygienist program, and return to one of these three institutions for her 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 two additional years of study. The student should consult her college adviser concerning institutional requirements.

Opportunities for Dental Hygienists

IT HAS BEEN ESTIMATED that 32,500 dentists working exclusively for the children of the United States for one year would be required to care for these children's current dental needs. There are, however, only about 89,500 practicing dentists in the United States to serve both adults and children. Because of limited dental manpower and the accumulated dental needs of the public, the dentist must ordinarily spend the greater portion of his time in restorative work for adults, and can give relatively less attention to preventive work for children.

A major responsibility in the expanding field of preventive dental health must, therefore, be assumed by the dental hygienist, working under the supervision of the dentist. There are approximately 10,000 dental hygienists now practicing in the United States; there is a demand for many times this number. The student of dental hygiene may look forward to a very useful and interesting career as a needed member of the health professions.

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

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 X-ray films; 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; delivering dental health talks 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.

It is anticipated that the greatest future demand for dental hygienists will be in private dental practice. An increasing number of graduate hygienists are, however, being employed in the public health programs maintained by the schools and 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 courses in biology and chemistry of high-school level or above.
- (3) Completion of the aptitude test for dental hygiene provided by the American Dental Hygienists Association.
- (4) Arrival at the age of 18 years or older by June 30 of the year the applicant wishes to enroll. Under Oregon law the dental hygienist must be more than 20 years of age before she may be licensed to practice; state board examinations are taken by members of each class in June of their second (last) year.
- (5) A physical examination record.
- (6) A 2.00 grade-point average for high-school and college work.
- (7) An interview by a team of Dental School faculty members is required for some applicants before consideration as candidates for admission. This team schedules interviews with students on the campuses of the University of Oregon and Oregon State University during fall and winter terms; but Portland residents at these institutions should anticipate an interview at the Dental School.

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 University 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, February, and May. Applicants are not permitted to take the test more than once a year (for example, an applicant who is 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 17, 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 Admissions Committee on a competitive basis. Factors considered by the Committee include :

Standing in high school graduating class. Graduates in the upper fourth of their class are given preference.

College or junior college background. Although not required for admission, some college or junior college experience has been found to help the student adjust to the professional dental hygiene curriculum. Students planning to attend college for a year or more prior to applying for admission 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. Franklin B. Haar, professor of health education, University of Oregon, Eugene; Mr. Jess E. Bumgardner, assistant professor of chemistry, Portland State College, Portland; or Dr. A. W. Pritchard, assistant professor of zoology, Oregon State University, Corvallis. Students attending other colleges or universities should consult their academic advisers. (See page 71 for information concerning a bachelor's degree for dental hygiene students.)

Residence. Preference is given to residents of Oregon.

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 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 should be notified of any change in address or marital status.)

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

(3) An official transcript of all high-school and college work completed at the time of application. (If the applicant is still in high school, the transcript should cover one-half of her

senior year's work.) Prior to enrolling in the Dental School, an accepted hygienist student must submit to the Registrar official transcripts of her high-school record and of any college work taken.

(4) A statement of high-school or 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.)

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

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

(7) The applicant's preference as to the date on which she wishes to participate in the American Dental Hygienists Aptitude Testing Program.

Application may be made after the completion of one-half of the student's final year in high school or at any time during her current year of college attendance. Since the laws of the state of Oregon require that dental hygienists must be 20 years of age before they can be licensed to practice, the applicant must reach her eighteenth birthday by June 30 of the year in which she desires to enter the dental hygiene curriculum. The instructional program begins in the fall term; new students are not admitted at any other time. Each entering class is limited to a maximum of thirty students.

Registration

TWO DAYS PRECEDING THE OPENING of the fall term are devoted to registration. First-year dental hygiene students report at 9:00 a.m. on Monday September 16, 1963; second-year students report at 1:00 p.m. on Tuesday, September 17. All students report to room 220 at the Dental School for registration. Information on registration procedures is mailed to each student before the opening of the session.

Fees and Expenses

STUDENTS IN THE DENTAL HYGIENE CURRICULUM pay the same regular fees as dental students; a total of \$235 per term for residents of Oregon or a total of \$371 for nonresidents. For a detailed table of fees, see page 38.

The total cost of books, equipment, and supplies required during the two years of the dental hygiene program is estimated at \$300.00. The required equipment includes: instruments, shoes, uniforms, and laboratory coats. 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 \$1,500 for residents of Oregon and about \$2,000 for non-residents.

The Dental School has no dormitory or other housing facilities for dental hygiene students. Living costs will vary according to the type of facility. Single rooms may be obtained in Portland for about \$40.00 a month; two- and three-room apartments may be rented for about \$85.00 a month. Students accepted for admission must make their own arrangements for housing, and are advised to do so *before the opening of the school year*. The Registrar's Office has a limited file of available housing which may be consulted during the summer months.

The student's registration fees cover the cost of physical examinations, diagnostic service, and emergency care through the Student Health Service. See page 23.

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

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

Dental 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 on standard college courses in the arts and sciences. Preclinical instruction in dental prophylaxis begins, however, in the first term, and actual clinical experience in the second term.

Courses in the arts and sciences continue in the second year; but major attention is given to clinical application or 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, including diet control and the topical application of sodium fluoride to children's teeth.

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

Scholarship regulations for dental hygiene students are the same as for dental students (see pages 36-38). 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					Credit hours
	Lec.	Conf.	Clock hours			
			Lab.	Clinic	Total	
DH 111.....Hygienist Orientation	11	....	....	....	11	....
Bi 207, 208, 209.....Human Biology	88	11	176	....	275	15
Bi 319.....Human Biology	11	....	22	....	33	2
Sp 225.....Public Speaking	33	....	....	....	33	3
DO 316.....Civil Defense & First Aid ..	22	....	....	....	22	2
Ch 111.....Chemistry	99	....	66	....	165	11
CB 112.....Dental Anatomy	11	....	....	....	11	1
CB 113.....Dental Anatomy .....	....	....	33	....	33	1
CB 114.....Dental Anatomy	11	....	....	....	11	1
CB 115.....Dental Anatomy .....	....	....	33	....	33	1
DH 118, 119, 120.....Dental Hygiene	33	22	66	165	286	10

	Clock hours					Credit hours
	Lec.	Conf.	Lab.	Clinic	Total	
PH 117.....Personal & Community Hygiene	11	....	....	....	11	1
Wr 111, 112, 113.....English Composition	66	....	....	....	66	6
	385	33	396	165	990	54
Second Year						
Wr 113.....English Composition	33	....	....	....	33	3
Psy 201.....General Psychology	33	....	....	....	33	3
*DH 231.....Professional Adjustment	11	....	....	....	11	....
DM 232.....Dental Materials	11	....	22	....	33	2
Bi 318, 320, 321.....Human Biology	88	....	....	....	88	8
PH 222.....Caries Prevention	11	....	....	22	33	2
Ro 320, 321, 322.....Oral Roentgenology	22	....	22	66	110	5
Phy 220.....Growth & Development	11	....	....	....	11	1
Nu 220.....Nutrition	33	....	....	....	33	3
PH 320, 321, 322.....Dental Health Education	33	....	....	....	33	3
DH 320, 321, 322.....Dental Hygiene	33	....	....	297	330	10
DH 323.....Field Experience .....	....	....	66	....	66	2
Ph 223.....Public Health Dentistry	22	....	....	....	22	2
DH 232, 233, 234.....Dental Procedures	33	....	....	44	77	3
DH 229.....Ethics & Jurisprudence	11	....	....	....	11	1
Soc 204.....General Sociology	33	....	....	....	33	3
DH 230.....Dental Economics	11	....	....	....	11	1
	374	33	132	429	968	52

Description of Courses

FIRST YEAR

Bi 207, 208, 209. **Human Biology.** 5, 5, 5 credit hours.

First year. Biological dynamics of representative forms from micro-organisms to man, with examples selected from major phyla to illustrate the application of biological principles to increasingly complex forms of life. Designed to prepare the student for the second-year sequence. Lectures, 88 clock hours; conferences, 11 hours; laboratory, 176 hours. Drs. Weaver, Jump, Snyder, Mrs. Slawson.

Ch 111. **Chemistry.** 6 credit hours fall.

Designed to provide an integrated background in the fields of inorganic, organic, and biological chemistry relating to the intermediary metabolism of carbohydrates, minerals, and lipids. Lectures, 55 clock hours; laboratory, 33 clock hours. Mr. Gatewood, Dr. Claycomb, Mr. Peters.

Ch 212. **Chemistry.** 5 credit hours winter.

First year. Continuation of Ch 111. Fundamental concepts relating to the metabolism of proteins, structure and functions of enzymes, and influence of vitamins and hormones in both the normal and abnormal states. Lectures, 44 clock hours; laboratory, 33 clock hours. Mr. Gatewood, Dr. Claycomb, Mr. Peters.

CB 112, 113. **Dental Anatomy.** 1 credit hour each term, fall and winter.

First year. Designed to provide a working knowledge of primary and permanent teeth and their supporting structures. Lectures, 11 clock hours each term. Drs. Lang, Tallman.

CB 114, 115. **Dental Anatomy.** 1 credit hour each term, fall and winter.

First year. Laboratory procedures, including a study of models and individual natural teeth, drawing typical forms of each tooth, and carving teeth in wax. Laboratory, 33 clock hours each term. Drs. Lang, Tallman.

DH 111. **Hygienist Orientation.** No credit.

Orientation to the Dental School policies and facilities; use of the Library;

* Not offered 1963-64, and not included in course clock-hour totals.

study methods. An introduction to the scope, opportunities, and ethics of dental hygiene. Lectures, 11 clock hours. Dental School faculty.

DH 118, 119, 120. Dental Hygiene. 4, 4, 2 credit hours.

The causes, manifestations, and effects of stains and hard deposits on the teeth. Principles and methods for removal of these deposits; laboratory technics and instrumentation on manikins. Technics 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. Lectures, 33 clock hours; laboratory, 66 clock hours; conference, 22 clock hours; clinic, 165 clock hours. Miss Hannon, Mrs. Espey, Miss Robinson, Mrs. Highley.

DO 316. Civil Defense and First Aid. 2 credit hours spring.

Includes the ten-hour standard Red Cross first-aid program, the Red Cross home-nursing program, and projects and lectures on those phases of local, state, and national civil defense activities and methods which will provide a thorough orientation for the responsibilities of the dental hygienist in time of national emergency. Lectures and demonstrations, 22 clock hours. Mr. Batterson, Mr. Watts, Mr. Toedtemeier, staff.

PH 117. Personal and Community Hygiene. 1 credit hour fall.

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

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

A course designed to assist students in improvement in the human-relations aspects of their work through efficient oral communication. Particular attention to the philosophy of communication and to an understanding of the dependence of human relations upon adequate communication. Projects designed to assist students in developing efficient skills and attitudes in listening; to assist students in developing skill in group communication and other person-to-person communication; to assist students in improving voice and diction; and to assist students in speaking from a public platform. Lectures, 33 clock hours. Dr. English and Mr. Casteel, General Extension Division of the State System of Higher Education.

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

Fundamentals of English composition; frequent written themes. Special attention to correctness in fundamentals and to organization of papers. Lectures, 99 clock hours. Mr. Cowan, Portland State College.

SECOND YEAR

Bi 318, 319, 320, 321. Human Biology. 2, 2, 4, 2 credit hours.

Second year. Study of developmental, gross, and microscopic anatomy of man, with special emphasis on the region of the head and neck in both the normal and morbid states, together with a consideration of the therapeutic agents utilized in the control of common disease processes. Lectures, 99 hours; laboratory, 22 hours. Drs. Weaver, Jump, Rickles, Phatak, Reese, oral pathology staff.

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

Fundamental ethics and professional application, with particular reference to dental hygiene; ethical working arrangements, attitudes toward service to individual patients and the community at large, professional loyalty, membership in professional organizations. Legal status of dentistry and dental hygiene. Lectures, 11 clock hours. Miss Hannon.

DH 230. Dental Economics. 1 credit hour spring.

Practical consideration of methods and problems associated with operating and maintaining a dental practice—operating the office, patient recall systems,

property management. The relationship of the dentist and dental hygienist. Lectures, 11 clock hours, Mr. Bauer.

DH 232, 233, 234. Dental Procedures. 1 credit hour each term.

Designed to familiarize the student with procedures used in dentistry. Fall: lectures explaining techniques used in restorative dentistry and in fixed and removable prosthetic dentistry; clinical laboratory consists of planned observations in clinical departments. Winter: lectures and observation laboratories in pedodontics, orthodontics, and oral surgery. Spring: lectures on periodontic techniques and disease, on medical emergencies in the dental office, and on heredity and congenital dento-facial anomalies. Fall: lectures, 11 clock hours; observation, 9 clock hours. Winter: lectures, 11 clock hours; observation, 9 clock hours. Spring: lectures, 11 clock hours. Dr. Dickson, clinical staff.

DH 320, 321, 322. Dental Hygiene. 3, 3, 4 credit hours.

Continued prophylaxis experience. The student learns increasingly complex techniques. Topical application of fluorides. Routine examination and charting of oral conditions. Patient recall recording and notification. Field experience includes a few hours of hospital service. This course is closely correlated with work in dental health education, caries prevention, nutrition, and pathology. Fall: conference, 11 clock hours; clinic, 99 clock hours. Winter: conference, 11 clock hours; clinic, 99 clock hours. Spring: conference, 11 clock hours; clinic, 99 hours. Miss Hannon, Mrs. Espey, Mrs. Highley, Miss Robinson.

DH 323. Field Experience. 2 credit hours spring.

Observation and participation in the dental health program of the local schools. Inspections and classroom talks. Research surveys; recording and compilation of data. Field experience, 66 clock hours. Dental hygiene staff, public school administrators, and public health personnel.

DM 232. Dental Materials. 2 credit hours winter.

Second year. Designed to familiarize the student with dental materials and their place in restorative dentistry. General manipulative technics discussed and demonstrated. Lectures, 11 clock hours; laboratory, 22 clock hours. Dr. Mahler.

Nu 220. Nutrition. 3 credit hours winter.

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

PH 222. Caries Prevention. 2 credit hours fall.

Study of the problem of dental caries, with special reference to methods of prevention. Topical application of fluoride solutions. Laboratory study of technics for determining caries susceptibility. Lectures, 11 clock hours. Dr. Hadjimarkos. Clinic and demonstration, 22 clock hours. Mrs. Klier, Mrs. Good, dental hygiene staff.

PH 223. Public Health. 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 hygienist in public health dentistry. Lectures, 22 clock hours. Dr. Hadjimarkos.

PH 320, 321, 322. Dental Health Education. 1 credit hour each term.

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

Phy 220. Growth and Development. 1 credit hour spring.

Study of problems of children in the relationship to growth, development, and physical health. Experience in the recording of individual physical growth, oral health, and dentofacial developments in the Child Study Clinic. Lectures, 11 clock hours. Child study staff.

Psy 201. General Psychology. 3 credit hours winter.

Second year. Basic principles and theories of behavior. Discussion of individual differences, intelligence, aptitudes, methods of psychological measurement and testing, drives and motives, emotions and reactions to stress, perception, learning, thinking, reasoning, personality; the response mechanism, communication processes, attitudes and social processes, frontiers of psychology. Dr. Sardo, General Extension Division of the State System of Higher Education.

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

Second year. Roentgenological procedures, exposure chemistry and processing of films, record keeping, and mounting of films; direct applications in dental hygiene. Laboratory procedures involve practical application of technic, processing, and mounting. Lectures, 22 clock hours; Dr. Fixott. Laboratory, 22 clock hours; clinic, 66 clock hours. Drs. Fixott, Neely.

Soc 204. General Sociology. 3 credit hours winter.

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

Enrollment and Degrees

Degrees Conferred June 13, 1963

Doctor of Dental Medicine

William Eugene Acker, Portland, Ore.
 Jay Paul Anderson, Pleasant Grove, Utah
 George E. Barkdoll, Portland, Ore.
 Glenn Clawson Baugh, Logan, Utah
 Edward Le Roy Bender, Sutherlin, Ore.
 Carrol D. Bledsoe, Haskell, Texas
 Gary Eugene Callow, Portland, Ore.
 K. Dwaine Crusier, Boise, Idaho
 Robert Charles Dunning, Oakridge, Ore.
 Melvin Bruce Dingler, Klamath Falls, Ore.
 Clair Frehner Earl, Overton, Nevada
 Albert R. Eaton, Eagle Point, Ore.
 Lee Edward Emery, Jr., Portland, Ore.
 David Bruce Eng, Portland, Ore.
 James Paul Fratzke, Independence, Ore.
 Orlan Joe Gessford, Portland, Ore.
 Denis Leon Gray, La Grande, Ore.
 James W. Grenfell, Longview, Wash.
 Walter Lowell Griffin, Madras, Ore.
 Gary C. Hammer, Shclley, Idaho
 William Kay Hansen, Twin Falls, Idaho
 Ronald Carmen Hatfield, Portland, Ore.
 Gordon Ellison Hawk, Vancouver, B.C.
 Frederic Gordon Holloszy, Portland, Ore.
 Elmer A. Jacob, Jr., Portland, Ore.
 Kenneth Ray Johnson, Tillamook, Ore.
 Melvin Maurice Johnson, Medford, Ore.
 Richard Walter Kelm, Astoria, Ore.
 L. Ronald Lindsay, Portland, Ore.
 Warren Harvey Marttala, Seattle, Wash.
 David Carlos Mason, Dayville, Ore.
 David Allyn Masters, Portland, Ore.
 Rey H. McCombs, Portland, Ore.
 Jerry O. Mc Nerney, Parkdale, Ore.
 Tom Charles Merchant, Portland, Ore.
 Lee Thomas Metcalf, Aloha, Ore.
 John Coate Mitchem, Portland, Ore.
 Richard Laurence Moffitt, Eugene, Ore.
 David G. Morgan, Astoria, Ore.
 Chester H. Morrell, Eugene, Ore.
 Angelo Andrew Orphan, Vancouver, B.C.
 Robert Carter Packard, Portland, Ore.
 John D. Parker, Oregon City, Ore.
 John Tillman Peterson, Portland, Ore.
 Norman Dallas Pickett, Portland, Ore.
 John William Porter, Worland, Wyo.
 Howard Lee Potts, Jr., Portland, Ore.
 Paul James Puffer, Smithfield, Utah
 Robert William Rector, Belgrade, Mont.
 Donald Charles Renie, Klamath Falls, Ore.
 John Holt Robertson, Raton, New Mexico
 Gary Charles Robinson, Portland, Ore.
 Clark Wayne Roeder, Fort Klamath, Ore.
 Joseph Royce Sarver, Brookings, Ore.
 Bill Raymond Scharwatt, Portland, Ore.
 Fred Elbridge Scott, Vale, Ore.
 Stanley Jay Scrivner, Portland, Ore.
 David Anthony Service, Portland, Ore.
 John C. Sherman, Newberg, Ore.
 Ronald Carol Short, Klamath Falls, Ore.
 Mac Lyle Slade, Billings, Mont.
 Carlos W. Starling, Portland, Ore.
 Donald Vogel, Nanaimo, B.C.
 Ernest John Wisely, Central Point, Ore.
 Walter H. Wood, Lynden, Wash.

Master of Science

*Adolphe Debrot, B.A., D.D.S.
 Portland, Oregon
 Major: Pedodontics
 Thesis Title: A Study on Dental Caries
 Among Negro Children in Portland, Oregon

Bhaskar A. Joshi, B.D.S.
 Portland, Oregon
 Major: Oral Pathology
 Thesis Title: Death from Air Embolism
 Occuring During Root Canal Therapy

James William Little, D.M.D.
 Grants Pass, Oregon
 Major: Oral Pathology
 Thesis Title: The Histogenesis of the Branchial Cyst

Richard Sherman Pope, B.S.
 Portland, Oregon
 Major: Physiology
 Thesis Title: Effects of Parabiosing Dystrophic to Normal Mice on the Day of Weaning

Alvin Van Schiess, B.S., D.D.S.
 Portland, Oregon
 Major: Oral Pathology
 Thesis Title: A Histologic Demonstration
 of Bacteria in Dental Granulomas

Fred Morris Sorenson, B.S., D.M.D.
 Portland, Oregon
 Major: Dental Materials and Operative
 Dentistry
 Thesis Title: Thermogenics in Cavity Preparation using Air-Turbine Handpieces: The Relationship of Rate of Heat Transfer to Rate of Tooth Structure Removal

Rosario H. Yap, D.M.D.
 Mandaluyong, Philippines
 Major: Pedodontics
 Thesis Title: A Study of Mesiodistal Tooth Dimension on Primary Canines and Molars of Twins

* Graduated in absentia.

Certificate in Dental Hygiene

Patricia Carol Bennett, Los Angeles, Calif.
 Marilyn Borchers, Portland, Ore.
 Ruth Ann Carter, Portland, Ore.
 Betty Jane Compton, Portland, Ore.
 Diane Lee Dertina, Portland, Ore.
 Gayle Luise Gentry, Vancouver, Wash.
 Lois Marie Grossen, Cornelius, Ore.
 Janice Hallock, Portland, Ore.
 Sheranne Kae Hoirup, Salem, Ore.
 Sandra Anne John, Hillsboro, Ore.

Victoria Louise Larson, Portland, Ore.
 Carol Jean Leshar, Burley, Idaho
 Mary Ann Miller, Portland, Ore.
 Gail Morris, Oregon City, Ore.
 Audrey Beth Peterson, Portland, Ore.
 Jean Louise Prentiss, Portland, Ore.
 Judith Faye Siefer, Portland, Ore.
 Judy Carole Simpson, Tigard, Ore.
 Laura Anne White, San Diego, Calif.

Enrollment 1962-63

Dental Students

First Year

Roger I. Amiton
 Kenneth L. Baird
 Richard A. Bertelsen
 Robert E. Bowles
 John A. Brown
 Eric L. Burbano
 Roy A. Carley
 John H. Carlson
 Kenneth O. Carneiro
 Donald D. Carter
 Chang H. Cho
 Don F. Christie
 H. Keith Couch
 Alton C. Davis
 Peter M. DiGrazia
 Walter A. Downey
 Keith R. Eddy
 Richard A. Edmiston
 W. Lee Edwards, Jr.
 Gerald J. Fedrizzi
 John C. Funk
 Vernon O. Gaffner
 John R. George
 Lawrence K. Gervais
 Richard D. Graham
 John W. Graham
 Donald H. Greenleaf

Richard J. Groves
 Daniel R. Halseth
 Clifford D. Herbert
 John W. Harris
 Frederick B. Hilts
 James E. Hodson
 Lanny N. Holmes
 Shoun N. Ishikawa
 James P. Jacobson
 Arlen E. Jagels
 Michael B. Johnson
 Robert E. Jones
 Frederick C. Judy
 Richard M. Kaufman
 Victor C. Kelly
 Robert L. Kjome
 Rex N. Langley
 Robert A. Lashbrook
 Larry R. Lewis
 John E. Long
 Philip A. MacDonald
 Cole L. MacPherson
 Jackson K. Meadows
 Ronald W. Miller
 Richard M. Moody
 Joe W. Moore

Kenneth S. Nakao
 Frank W. Nettleship
 M. Irvin Nixon
 Richard V. Pedersen
 Richard R. Peterson
 Lawrence W. Pirkle
 Gerald W. Purvine
 Charles H. Reed
 Thomas G. Reynolds
 Franklin A. Rosumny
 James M. Sagawa
 Sterling R. Schow
 John P. Seeley
 Lavon E. Shelton
 Mark E. Simons
 Kenneth Small
 Gordon F. Stone
 William W. Stuart, Jr.
 Abdulla Tarzaban
 L. Eldon Taylor
 Dennis C. Turner
 Marvin L. Tyler
 Thomas A. Walker
 Jerry L. Wilde
 Stephen G. Woodyard
 Francis A. Yonek
 Raymond A. Youngberg

Second Year

Gary R. Albright
 Riley L. Allen
 Richard A. Alper
 Ronald L. Anderson
 Khalil Azar
 Edward D. Barnes
 Lloyd A. Bendickson
 Steven L. Bennett
 Dennis J. Bershaw
 William S. Bevins
 Curtis W. Boulet
 DeWayne C. Bowman
 J. Darold Brown
 Robert A. Carl
 Richard N. Carter
 Alvin D. Chambers
 Stephen R. Cook
 Neal E. Craig
 James B. Deming
 Len A. Dobry

Allan C. Drews
 Gary L. D'Spain
 William T. Dugan
 David B. Emery
 Wayne E. Feller
 Howard F. Ford
 William S. Forman
 John A. Gilbert
 Dale C. Grier
 Kenneth A. Hammon
 Leonard F. Hays
 Terry J. Hegstrom
 Amos L. Herget
 Linda L. Hertz
 Jaek C. Hoey
 Harold J. Horrocks
 Gary L. Hval
 Hisao Inahara
 Andrew C. Jensen
 James C. Johnson

Tony R. Joy
 Jerry M. Katz
 Charles Kennedy
 Jim S. Litehfield
 David E. Longtin, Jr.
 Dennis E. Marsh
 Gary T. McGaughey
 Gerald D. McKell
 David C. McMorine
 Edgar W. Merzenich
 Gary G. Miller
 Robert W. Miller
 Robert W. Mills
 Paul J. Minor
 Richard J. Moore
 Paul F. Olson
 Donald H. Osborne
 Robert L. Ott
 Donald B. Pachal
 Charles T. Padbury

DENTAL SCHOOL

Richard C. Peterson
James A. Poole
Leslie D. Propp
Jack D. Rohrbough
Jack T. Rummel

Tom J. Schmid
Robert T. Schini
William H. Tarr
Eddie G. Thomas
William J. Walgren

Richard E. Walton
Ronald D. Watts
Jacob E. Weinberg
Bert Why, Jr.
Thomas L. Zinser

Third Year

Fredrik A. Allen
Leon R. Barnwell
Vernon B. Beck
Monroe Duke Bevans
Everett R. Bohn
Christ Bouneff
Fred A. Bremner
Harry E. Burke, Jr.
Robert E. Burnside
Jerry L. Caples
Joseph K. Carson
James C. Cartwright
John W. Clinton
James A. Coats
Thomas D. Creager
Gailon E. Davis
James L. Davis
Kent W. Davis
Norman L. Davis
Larry R. Day
Ronald L. Drennan
Glen R. Durham

Kenneth W. Durham
Charles V. Farrell
Gary D. Fishback
Elwood P. Gledhill
James R. Graves
Donald B. Gwinner
Edward J. Hagan, Jr.
Larry L. Halstead
Emory E. Hamilton
Ralph E. Herman
Clair R. Hopkins
Wilbur L. Jensen
Lester H. Jochum
James E. Jones
Alma B. Judd
Fred J. Kreuzer
Harry E. Krussman, Jr.
Odean I. Loney
Bob J. McFarland
Wendell H. McLin
Gary R. Maxwell
Jay G. Nelson

Kenneth D. Nanson
Norris A. Olson
Alan G. Palmer
John B. Pappin
David H. Pashley
Glen F. Peterson
Kenneth L. Peterson
Larry J. Rask
Ted J. Rasor
Larry D. Rupert
Richard L. Shoemaker
Donald J. Sirianni
Rollie O. Skreslet
Allen K. Smith
Charles E. Stuart
John A. Tall
Oris H. Thetford
Larry E. Wehde
Harvey C. Woods
Vernon L. Wright
Richard G. Yahn
Christian Vikari

Fourth Year

William E. Acker
J. Paul Anderson
George E. Barkdoll
Glenn C. Baugh
Edward L. Bender
Carrol D. Bledsoe
Wilbur M. Bower
Gary E. Callow
K. Dwaine Crusser
Robert C. Dunning
Bruce M. Dingler
Clair F. Earl
Albert R. Eaton
Lee E. Emery, Jr.
David B. Eng
James P. Fratzke
Orlan J. Gessford
Denis L. Gray
James W. Grenfell
Walter L. Griffin
Gary C. Hammer
William K. Hansen

Ronald C. Hatfield
Gordon E. Hawk
Donald L. Henderson
Frederic G. Holloszy
Elmer A. Jacob, Jr.
Kenneth R. Johnson
Melvin M. Johnson
Richard W. Kelm
L. Ronald Lindsay
Warren H. Marttala
David C. Mason
David A. Masters
Rey H. McCombs
Jerry O. Mc Nerney
Tom C. Merchant
Lee T. Metcalf
John C. Mitchem
Richard L. Moffitt
David G. Morgan
Chester H. Morrell
Angelo A. Orphan
Robert C. Packard
John D. Parker

John T. Peterson
Norman D. Pickett
John W. Porter
Howard L. Potts, Jr.
Paul J. Puffer
Robert W. Rector
Donald C. Renie
John H. Robertson
Gary C. Robinson
Clark W. Roeder
Joseph R. Sarver
Bill R. Scharwatt
Fred E. Scott
Stanley J. Servivner
David A. Service
John C. Sherman
Ronald C. Short
Mac L. Slade
Carlos W. Starling
Donald Vogel
Ernest J. Wisely
Walter H. Wood

Dental Hygiene Students

First Year

Joyce M. Babich
Helena J. Bennett
Linda H. Case
C. Jane Connell
Shirley E. Davis
Barbara L. Gambetty
Carol J. Gebert
Constance J. Hocken
Sharon A. Hastings

Donna V. Hurley
Deanna D. Miller
Mary Ann Mitchell
Carolyn A. Mohr
Dona M. Mulford
Barbara L. Nelson
Diane S. Norman
Lana B. Ogle
Rosemary A. Park

Janet F. Rains
Joyce F. Sasaki
Lynne H. Shafsky
Sharon S. Spears
Pamela A. Thomas
Adrianna J. Tom
Shirley J. Vergeer
Virginia L. Wilson
Judith C. Woodward

ENROLLMENT

83

Second Year

Patricia C. Bennett
 Marilyn Borchers
 Barbara J. Borlien
 Ruth A. Carter
 Betty J. Compton
 Diane L. Dertina
 Gayle L. Gentry

Lois M. Grossen
 Janice Hallock
 Sheranne K. Hoirup
 Sandra A. John
 Victoria L. Larson
 Carol J. Leshner

Mary A. Miller
 Gail Morris
 Audrey B. Peterson
 Jean L. Prentiss
 Judy F. Siefer
 Judy C. Simpson
 Laura A. White

Graduate Students

A. Bruce Ady
 Arthur W. Aplin
 Murray H. Bartley
 Steven E. Berglund
 Buckner S. Burch
 Raymond H. Campbell
 Stephen L. Danchok
 Adolphe Debrot
 Leroy Goodwin

John S. Gullikson
 Jack L. Hartley
 Bhaskar A. Joshi
 Nabih Khurdaji
 James W. Little
 David H. Maas
 Louis H. Peters
 Humberto Pizano
 Richard S. Pope

William A. Richter
 Carl D. Ruhlman
 Alvin V. Schiess
 Bente L. Simonsen
 Inder J. Singh
 Fred M. Sorenson
 Roger N. Swenson
 William E. Tracy
 Rosario H. Yap

Summary of Enrollment, 1962-63

	Men	Women	Total
First-year dental students.....	80	....	80
Second-year dental students.....	74	1	75
Third-year dental students.....	66	....	66
Fourth-year dental students.....	67	....	67
Total dental students.....	287	1	288
First-year dental hygiene students.....	....	27	27
Second-year dental hygiene students.....	....	20	20
Total dental hygiene students.....	....	47	47
Graduate students.....	25	2	27
Total enrollment	312	50	362

Index

- Academic Calendar, 1963-64, 8
Administration, 21
Administrative Officers, 9
Admission, 32
Admission, Dental Hygiene, 72
Admission, Graduate Program, 44
Advisory Council, 31
Alumni Association, 30
Anatomy, 47
Application Procedure, 34
Aptitude Testing, 33
Aptitude Testing, Dental Hygiene, 72
Awards, 25
- Bacteriology, 48
Biochemistry, 49
Biology, Human, 53
Biostatistics, 50
Books and Equipment, Cost of, 40
- Child Study Clinic, 24
Class Schedule, 41
Cleft Palate Clinic, 24
Committees, 10
Crown and Bridge, 50
Curriculum, Dental, 41
Curriculum, Dental Hygiene, 75
- Degrees Conferred, 80
Dental Assistant Utilization, 23
Dental Education, 51
Dental Hygiene, 71
Dental Materials, 52
Dental Orientation, 53
Dental School Program, 20
Dentistry as a Career, 20, 31
Dentistry, Undergraduate Curriculum, 41
Deposits, 39
- Enrollment, 81
- Facilities, 22
Facilities, Dental Hygiene, 75
Faculty, 12
Fees, Dental, 38
Fees, Dental Hygiene, 74
Fees, Graduate, 46
Foreign Students, 35
- General Clinic Practice, 53
- Grading System, 36
Graduate Program, 44
- History of Dental School, 21
Housing, 30
Human Biology, 53
- Illustration, Department of, 23
- Library, 22
Loan Funds, 27
- Medicine, Principles of, 66
- National Board Examinations, 38
Nonresident Fee, 39
Nutrition, 54
- Operative Dentistry, 54
Oral Diagnosis, 56
Oral Roentgenology, 57
Oral Surgery, 58
Oral Tumor Registry, 23
Oregon State System of Higher Education, 5, 6, 7
Orthodontics, 59
- Pathology (General and Oral), 60
Pedodontics, 61
Periodontology, 63
Pharmacology, 64
Physiology, 65
Postgraduate Study, 46
Professional Adjustment, 66
Prosthetics, 69
Public Health Dentistry, 70
- Registration, 36
Registration Procedure, Dental Hygiene, 74
Research, 24
Roentgenology, Oral, 57
- Scholarship Regulations, 36
Scholarship Requirements, 37
Scholarships, 25
Special Services, 31
Special Students, 36
Student Health Service, 23
Student Organizations, 29
Student Store, 22
- Transfer Students, 35