1970-08-31

Boston University Bulletin: School of Graduate Dentistry: 1970-1972
August 31, 1970

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Boston University
School of
Graduate Dentistry
School of
Graduate Dentistry
# Calendar

## 1970/1971

Subject to change without notice.

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<th>FIRST SEMESTER</th>
<th>1970</th>
<th>1971</th>
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<tr>
<td>Registration and orientation, 9 a.m.</td>
<td>Friday, September 11</td>
<td>Monday, January 4</td>
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<tr>
<td>Classes begin, 8 a.m.</td>
<td>Monday, September 14</td>
<td>Monday, January 4</td>
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<tr>
<td>Columbus Day, holiday</td>
<td>Monday, October 12</td>
<td>Monday, February 15</td>
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<tr>
<td>Veterans' Day, holiday</td>
<td>Monday, November 9</td>
<td>Monday, April 19</td>
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<tr>
<td>Thanksgiving Recess begins, 12 noon</td>
<td>Wednesday, November 25</td>
<td>Monday, May 3 through</td>
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<tr>
<td>Classes resume, 8 a.m.</td>
<td>Monday, November 30</td>
<td>Friday, May 7</td>
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<tr>
<td>Final examination period (clinics in session)</td>
<td>Monday, December 14 through Friday, December 18</td>
<td>Monday, May 3 through</td>
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<tr>
<td>Semester ends, 5 p.m.</td>
<td>Friday, December 18</td>
<td>Friday, May 10 through</td>
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<td></td>
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<td>Friday, May 14</td>
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<td>Sunday, May 16</td>
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<tr>
<td></td>
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<td>Monday, May 17 through</td>
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<tr>
<td></td>
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<td>Thursday, September 3</td>
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<th>SECOND SEMESTER</th>
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<tr>
<td>Classes begin, 1 p.m.</td>
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<tr>
<td>Washington's Birthday, holiday</td>
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<tr>
<td>Patriots' Day, holiday</td>
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<tr>
<td>Final examination period—second-year or graduating students</td>
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<tr>
<td>Final examination period—non-graduating students</td>
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<td>Clinics for all second-year students—as scheduled</td>
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Bulletins published by Boston University

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January, 2 numbers;
March, 1; April, 3;
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July, 1; August, 2.

This bulletin contains current information regarding the calendar, admissions, degree requirements, fees, regulations, and course offerings. The policy of the University is to give advance notice of change, whenever possible, to permit adjustment. However, the University reserves the right to make changes whenever it is deemed advisable.
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A.B., Washington and Jefferson; D.M.D., Tufts

James Salfas, Instructor in Oral Surgery
D.D.S., Temple; Cert., Boston University

David Samost, Clinical Instructor in Prosthetic Dentistry
D.D.S., Temple

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Herbert Schilder, Assistant Dean for Continuing Education; Professor of Endodontics; Chairman, Department of Endodontics
A.B., D.D.S., New York University; Cert., Temple; F.I.C.D., F.A.C.D.

Robert M. Schreibman, Instructor in Pedodontics
B.S., Colorado State; D.M.D., Tufts; Cert., M.Sc.D., Boston University

Sidney M. Schulman, Assistant Professor of Periodontology
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Michael Sheff, Instructor in Pedodontics
A.B., Boston University; D.M.D., Tufts; Cert., M.Sc.D., Boston University

Donald S. Sherman, Instructor in Pedodontics
A.B., Brandeis; D.M.D., Harvard; Cert., Missouri at Kansas City

Alan Shuman, Assistant Professor of Periodontology
B.S., University of Massachusetts; D.M.D., Tufts; Cert., Boston University
Steven Silberstein, Clinical Instructor in Periodontology
D.D.S., University of Pennsylvania; Cert., Boston University

Howard M. Skurow, Instructor in Prosthetic Dentistry
D.D.S., University of Pennsylvania; Cert., Boston University

Joseph E. Smith, Instructor in Operative Dentistry
D.D.S., Howard

Jacob Spira, Associate Professor of Radiology
M.Sc., University of Jerusalem; Ph.D., University of Grenoble

Andre St. Germain, Instructor in Pedodontics
D.M.D., Tufts; Cert., M.Sc.D., Boston University

David Stahl, Assistant Professor of Proeodontology
A.B., Dartmouth; D.M.D., Tufts; Cert., Beth Israel Hospital; F.A.C.D.

Glenn A. Sutton, Professor of Prosthetic Dentistry
D.D.S., Emory

Paul F. Sydow, Clinical Assistant Professor of Pedodontics
D.M.D., Louisville; M.S., University of Michigan

Leo Talkov, Professor of Prosthetic Dentistry; Chairman, Department of Prosthetic Dentistry
D.M.D., Harvard; F.A.C.D.

Barton H. Tayer, Instructor in Orthodontics
B.A., College of William and Mary; D.M.D., Tufts; Cert., M.Sc.D., Boston University

William R. Tenenhaum, Instructor in Orthodontics
B.S., Boston University; D.D.S., University of Pennsylvania; Cert., Montreal

Charles Terner, Professor of Biology
B.Sc., University of London; Ph.D., University of Sheffield

James Thiel, Instructor in Prosthetic Dentistry
D.D.S., Marquette; Cert., Boston University

Kurt H. Thoma, Professor of Oral Surgery, Emeritus
D.M.D., Harvard; Honorary Doctor of Medical Dentistry, Zurich; F.D.S.R.C.S., England;
Honorary F.D.S.R.C.S., Edinburgh

Samuel Toll, Assistant Professor of Prosthetic Dentistry
D.D.S., University of Pennsylvania; F.I.C.D., F.A.C.D.

Harold Turner, Assistant Professor of Pedodontics
A.B., Harvard; D.D.S., University of Pennsylvania; F.A.C.D.

Lloyd Warshauer, Assistant Professor of Prosthetic Dentistry
B.A., Johns Hopkins; D.M.D., Cert., Tufts

Richard Whalen, Instructor in Orthodontics
B.S., Providence; D.D.S., University of Maryland; Cert., Columbia

Joseph Wolfe, Associate in Prosthetic Dentistry
B.S., Boston University; D.D.S., Columbia

Herbert S. Yolin, Clinical Instructor in Prosthetic Dentistry
D.D.S., Fairleigh Dickinson; Cert., Boston University

Eliot Zigelbaum, Associate Professor of Periodontology
D.D.S., Northwestern; Cert., New York University

Anesthesiology
Esther E. Bartlett, Assistant Clinical Professor of Anesthesiology
M.D., Wisconsin
Dusan D. Dobnik, Assistant Clinical Professor of Anesthesiology
M.D., University of Ljubljana

Alan H. Goldberg, Lecturer in Anesthesiology
M.D., Boston University; Ph.D., Georgetown

Benjamin Kripke, Professor of Anesthesiology; Chairman, Department of Anesthesiology
M.D., Tufts

Samuel I. Schmidt, Assistant Clinical Professor of Anesthesiology
M.D., University of Kansas

John C. Snow, Assistant Professor of Anesthesiology
M.D., University of Athens

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Spencer N. Frankl
William Pendergast

Morris P. Ruben
Herbert Wells

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David Baraban
Joseph Barron
Donald Booth
Lester Block
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Gail Cross
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M. Doris Hall
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Donal Mori
Charles Paraskis
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Department Chairmen
Clinic Committee
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Admissions Committee
Ad hoc

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Louis Fillios, Chairman
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Jean Ganley, C.D.A., Assistant Director
Alice Fuller, R.D.H., Senior Hygienist
Ann Marie Breingan, C.D.A., R.N., Clinical Instructor
Loretta Sawyer, D.A., Clinical Instructor
Janice DiSabatino, C.D.A., Clinical Instructor
Pauline LaValley, C.D.A., Clinical Instructor
Sellamena Coleman, D.A., Clinical Instructor
Faye Katz, D.A., Clinical Instructor
Henry M. Goldman, D.M.D., F.A.C.D., F.I.C.D., Dean, School of Graduate Dentistry
Spencer N. Frankl, D.D.S., M.S.D., F.A.C.D., Assistant Dean, School of Graduate Dentistry
Morris P. Ruben, D.D.S., F.A.C.D., F.I.C.D., Assistant Dean, School of Graduate Dentistry

Richard Allard, D.M.D., M.Sc.D.
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Lloyd Chaisson, D.D.S.
Judge Chapman, D.D.S.
Myer S. Cohen, A.B., M.A., M.Ed.
Edward Corrigan
Robert N. Eskow, D.M.D., M.Sc.D.

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Charles Paraskis, D.M.D.
Robert J. Rosenkranz, D.D.S.
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Barton H. Tayer, D.M.D., M.Sc.D.
James Thiel, D.D.S., M.Sc.D.
Boston University is a private non-sectarian institution of sixteen Schools and Colleges now in its 101st year. On the Charles River Campus on Commonwealth Avenue in the City of Boston, high-rise academic buildings and dormitories cast their shadows on traditional gothic structures and handsome Back Bay homes now part of the University. Across town the handsome new Medical Center buildings gleam against the older brick walls of the City Hospital area. Both settings, distinctly urban, suggest the style of life and some of the concerns of students and faculty.

From its beginnings in 1869 Boston University has been an urban university that has grown and changed with the community. Its Urban Institute seeks to solve some of the problems of urban society and coordinates research for the City under the national Urban Observatory program sponsored by the U.S. Department of Housing, Education, and Welfare. Students and faculty are actively engaged in new efforts to reduce pollution and restore the ecological balance of the Boston area.

The City itself, renowned as the “Athens of America,” offers incomparable cultural and educational experiences through its museums, art galleries, theatres, concert halls, churches, and other colleges and universities. Architecturally, Boston's new buildings such as City Hall are attracting as much national attention now as the buildings of Richardson at the turn of the century. Bullfinch's capitol remains the crown of Beacon Hill with its golden dome glinting above the historic Boston Common. The student at Boston University is moved, consciously or not, by the spirit of a great city whose past is a living inspiration to those struggling to overcome the encroachments of urban blight.

Students have petitioned for more involvement in the operations of Boston University and as a result are represented on a number of committees affecting curriculum, disciplinary matters, university finances, and public affairs. Trustee committees provide opportunities for students' views to be considered by those ultimately responsible for the University's well being. Dissent is fully protected at the University, but disruption of University activities is against long-established regulations, which are supported by necessary sanctions. Boston University is proud of its 100-year-old liberal tradition that allows for a broad spectrum of opinion and personal appearance among students and faculty.

The special needs of black students have received careful attention in recent years at Boston University, which has a particular obligation arising from the fact that Martin Luther King, Jr. not only earned his Ph.D. here, but also conceived some of his ideas of non-violent resistance in the Graduate School. The Martin Luther King, Jr. Afro-American Center provides a meeting place for black students,
an Afro-American academic program has been created, and forty percent of all undergraduate financial aid is allotted to black students. Black students are represented on admissions committees and on a University administration committee devoted to the interest of black students and other minorities. The African Studies Center, one of the nation's leading institutes of its kind, was founded in 1953. The following blacks serve on the Board of Trustees: U.S. Senator Edward Brooke; C. Eric Lincoln, sociologist; Superior Court Judge Joseph S. Mitchell, Jr.; and Melvin Miller, newspaper editor.

Sports at Boston University continue to be marked by strong competitiveness and a concern for developing the athlete's best qualities as a person. In a sports-minded city that boasts the Red Sox, the Bruins, the Celtics, and the Patriots, the University's hockey team can draw a capacity crowd in the Boston Garden. In 1970 the football team's success earned Larry Naviaux the selection by the National Collegiate Athletic Association as coach of the year. The new Harold C. Case Physical Education Center will provide an ice rink, an Olympic swimming pool, and a gymnasium. Nickerson Field's astroturf surface allows use day and night by intramural as well as by varsity teams. The names of Mickey Cochrane, Harry Agganis, John Thomas, Dave Hemery, and Bruce Taylor attest the heights to which athletes at the University can rise.

The University has a modern theatre seating 1,000. Performances by students in the School of Fine and Applied Arts have elicited high praise from drama critics. But more important, the School of Fine and Applied Arts offers to the campus community first-rate theatrical productions, concerts, and art shows throughout the academic year.

Alumni are the ultimate test of a university's capacity to educate. There are now 100,000 alumni of the University, about half of them living in New England; others are scattered throughout the United States and around the world. Many of the civil servants of the new African nations were educated at Boston University, and the nursing profession of Greece owes much to the leadership of women trained here in the School of Nursing. Among its alumni the University counts U.S. Senator Edward Brooke; Dr. Ernest B. Howard, Executive Vice-President of the American Medical Association; Faye Dunaway, screen star; Thomas H. Roberts, Chief Justice of Rhode Island; Richard Aurelio, Deputy Mayor of New York City; Richard C. Gilman, President of Occidental College; John R. Herbert, Editor of the Boston Herald-Traveler; Gerhard H. Bleicken, Chairman of the Board of John Hancock Mutual Life Insurance Company; Noah Gordon, novelist.

History of the University
The origin of Boston University is found in the action taken at a convention of New England friends of improved theological training held in Boston in April 1839. For the next twenty-eight years the School thus founded conducted its work at Newbury, Vermont and later at Concord, New Hampshire. In 1867 it was transferred to Boston where it was called the Boston Theological Seminary until it became the School of Theology of Boston University.

On May 26, 1869, the Commonwealth of Massachusetts made Isaac Rich (1801–1872), Lee Claflin (1791–1871), Jacob Sleeper (1802–1889), and their associates and successors, "a body corporate forever" under the name of the Trustees of Boston University. In establishing the University as a means of promoting learning, virtue, and piety in the useful and liberal arts and sciences, these founders were
moved by a long series of American and English activities for higher education reaching back through a century or more to Lincoln College of Oxford University.

In its beginnings Boston University provided a true educational barometer for its era. By 1874, six additional units of instruction, located in the Beacon Hill area, were thriving: law, music, oratory, liberal arts, medicine, and the graduate school of "all sciences." Young and vigorous, with high ideals of educational service, the University rapidly developed an increasingly competent faculty and a growing body of students. As Boston moved westward the University moved with it. The Copley Square area became its new center.

During the thirties the shift began to a central campus between the Charles River and Commonwealth Avenue. This development continued through the post-war years, when the enrollment expanded considerably. More recently there have been built high-rise dormitories, the George Sherman Union, the Mugar Memorial Library, and the Law-Education building. The Boston University Medical Center (the School of Medicine, the School of Graduate Dentistry, and the University Hospital) on Harrison Avenue has been engaged in a $60 million building program that is nearing completion.

At this time Boston University stands on the threshold of its second century of education and service.

Accreditation

Boston University is accredited by pertinent agencies in the educational fields which it serves.

The University as a whole is accredited by the New England Association of Colleges and Secondary Schools, and is a member of the following agencies: the American Council on Education, the Association of American Colleges, the Association of Urban Universities, the Council of Graduate Schools in the United States, and the University of the State of New York.

The Campus

Contributing to the Boston skyline are the towers and buildings of the University. The high-rise structures—such as the Law-Education Building facing the Charles River and the Instructional Building on the Medical Center Campus—afford a distinctive and panoramic view of Boston and Cambridge.

CHARLES RIVER CAMPUS

The Charles River Campus extends over forty-five acres and stretches along Commonwealth Avenue on one side and the Charles River on the other. Within this span lie the classroom facilities, libraries, laboratories, residence halls, gymnasium, and administrative offices for fourteen of the sixteen Schools and Colleges of the University. To the west, beyond Boston University Bridge, are Nickerson Field and the residence halls on West Campus; to the east are Kenmore Square and other residence halls. The Daniel L. Marsh Chapel on the plaza is a center of nonsectarian worship. (See map at the end of the catalog.)

MEDICAL CENTER CAMPUS

The School of Medicine, School of Graduate Dentistry, and University Hospital are units of Boston University Medical Center located in a four-block area in the South End of Boston.
MUGAR MEMORIAL LIBRARY

The Mugar Memorial Library, opened in September of 1966, provides central library service to all students and faculty of Boston University. In addition to its 700,000-volume capacity and seats for 2,300 readers, it offers excellent facilities for microform, map use, photocopying, and typing.

Reference services, the main card catalogs, and current periodicals are on the first floor. The undergraduate open stack collection is on floors two and three. A feature of the library is the audio listening area where music, drama, and poetry recordings are piped to tables with earphone jacks.

The library is well-equipped for the storage of rare books and special collections. In a security study room, scholars can use such unique collections as the Bortman Americana Collection, the Stone and Bullard Lincolniana Collections, the Philatelic Library, and the extensive manuscript holdings of the library. Regular exhibits are displayed in the Exhibition Room of the Special Collections Division.

LABORATORIES

The University laboratories are provided for research and training in disciplines ranging from the physical sciences to the dramatic arts. On the Charles River Campus are the physical science laboratories for biology, chemistry, and physics, and the engineering laboratories. Expanded medical science laboratory facilities are at the Medical Center campus. Other main campus laboratories are those for the humanities, languages, mental health, nursing, psychology, social sciences, and the practicing arts, as well as a computation center. The Boston University Theatre, a full-sized professionally equipped facility on Huntington Avenue, serves as a workshop for the dramatic arts.

GEORGE SHERMAN UNION

This modern five-story complex is a center of campus life for students, faculty, alumni, and guests. Whether it be to have coffee in the snack bar, listen to a favorite recording in the music listening lounge, browse in the bookstore, bowl, play bridge, enjoy an exhibit in the art gallery, or just relax, one is invited to make use of the extensive facilities available. University-sponsored organizations are able to reserve conference rooms for meetings and seminars as well as tables for distribution of information and other materials. Films, lectures, and small concerts are held frequently in the Union. Other facilities include a ballroom, a conference auditorium, dining areas, TV viewing rooms, lounges, a U.S. Post Office, student organization offices, and Union Information Center.

Special Academic Units

AFRICAN STUDIES CENTER

The African Studies Center offers a graduate program for research and teaching on an interdisciplinary basis with primary emphasis on economics, geography, history, political science, and sociology/anthropology. A wide range of courses are offered on the undergraduate-graduate level. Degrees are offered by the individual departments, but specialization in African Studies is provided by each of the disciplines.

MARTIN LUTHER KING, JR. AFRO-AMERICAN CENTER

The Afro-American Center was established in the summer of 1968 as a focal point
for helping to make Boston University more relevant to the needs of black students and the black community. The basic objectives of the Center are to be a base of support and guidance for all black students at Boston University; to help create academic, social, and cultural environments relevant to black scholars; and to establish effective communication between Boston University and the black community.

HUMAN RELATIONS CENTER
The Human Relations Center focuses on problems of change in group, intergroup, and community relationships through instruction, research, and community service. Fellowships are offered to candidates for advanced degrees in any of Boston University’s academic or professional departments for study at the Center. It offers consultation and collaboration with faculty members, leaders and members of student organizations, and community agencies and organizations concerned with human relations problems.

URBAN INSTITUTE
Boston University established the Urban Institute in 1969 to create a closer relationship between the University and its urban environment. The Institute represents a commitment on the part of the University to develop ways in which its traditional teaching, research, and service functions can be employed to deal with current urban problems. The Institute has two divisions: The Community Programs Division concentrates upon information referral and the design of short-term continuing education programs to meet the needs of students, public officials, and various elements of the city’s people and assists in the placement of University students enrolled in urban affairs programs. The Division of Urban Studies concentrates on research sponsored by the University, the City, and other government agencies oriented toward urban problems and programs.

Members of the Urban Institute’s professional staff form the core faculty for the graduate urban affairs degree programs offered by the University’s Metropolitan College. In addition, Urban Institute staff provide counseling and other assistance to students from other divisions of the University interested in urban affairs research and education.

The full-time staff of The Urban Institute includes Dr. Melvin R. Levin, Director of the Division of Urban Studies; Joseph S. Slavet, Director of the Division of Community Programs; and Norman A. Abend, Assistant Director of the Division of Urban Studies.

Conference and Education Center
OSGOOD HILL
The Osgood Hill Conference Center is located in North Andover, Massachusetts, which is 30 miles north of Boston on Route 125. It is a 153-acre estate and is ideally organized to accommodate meetings and symposia. There are several large conference rooms and smaller functional rooms; facilities for overnight guests and meals are available.
Boston University recognizes each student as an individual with particular needs. Although the student's intellectual and professional education and growth are always the center of any university's concern, a variety of personal services are also provided for the student to assist him in matters of health, housing, and opportunities for work.

Student life at the University represents a planned combination of social, intellectual, and professional development. The University recognizes the value of religious, social, cultural, and recreational activities, provides many opportunities for their enjoyment, and considers them an integral part of a college education.

Students in the School of Graduate Dentistry are free to participate, whenever the time schedule permits, in University student activities offered in physical education and intercollegiate athletics, dramatics, musical organizations, and student publications.

Student Health Service

The Student Health Service for medical and dental students is available at the Health Clinic of the University Hospital under the immediate direction of Dr. Constance C. Cornog, Health Officer for the Hospital. It has been necessary to separate this Service from the regular University Student Health Service because of difficulties caused by the distance between the Schools of Medicine and Graduate Dentistry and other units of the University.

A Health Statement will be sent to each applicant upon acceptance by the School of Graduate Dentistry. It is requested that this be filled out and returned before registration day. On admission to the School, all students are given a complete physical examination.

Sick students who are ambulatory may be seen daily from 8:00 a.m. to 10:00 a.m. or in emergencies at other hours at the Evans Memorial Examining Room. Sick students who are nonambulatory should report their condition to Dr. Cornog.

All students in the School of Graduate Dentistry are covered by a compulsory hospitalization insurance. The cost of this insurance is payable on registration. This insurance provides full coverage of all hospital charges.

Housing

Housing information is available at the Office of Admissions, School of Graduate Dentistry or the Housing Office, 194 Bay State Road, Boston.
The University has apartments for housing married graduate students studying
full time whose wives, or wives and children, are accompanying them to Boston.
It is suggested that application be made at least six months in advance for Sep­
tember occupancy and two months in advance for Summer Term occupancy. Ap­
plication forms and additional information will be sent upon request by writing
to the Housing Office, 194 Bay State Road, Boston, Massachusetts 02215.
Off-campus listings for both single and married students may be obtained in
person at the Housing Office.

Computing Center
The Computing Center operates an IBM 360/50 computer for instructional and
research use throughout the campus. Students are taught programming and re­
quired to solve problems by computer in certain courses taught in several schools.
The primary programming language for students is FORTRAN, although other lan­
guages are available for use in special cases. Access to the computer is by means
of card decks submitted at the Computing Center; key punches are available at
the Center and elsewhere for student use. In addition, a number of keyboard
terminals are available on the campus for remote entry to the computer under
IBM’s timeshared RAX system. The Center is at 111 Cummington Street.

International Student Center
The Center serves as the focal point for international student services and pro­
grams on the campus. The director and staff of the Center advise admissions
officers on foreign student applications, determine linguistic and financial qualifi­
cations, administer immigration regulations concerning eligibility for study in this
country (including extensions of stay, employment permits, enrollment status, att­
tendance, withdrawals, and departures), and maintain liaison with various govern­
mental and private agencies concerned with educational exchange. The Center
also provides special orientation programs and counseling services to assist stu­
dents from abroad in adjusting to a new academic and cultural environment.
The social and cultural program of the Center includes a variety of activities
with an international flavor for both American and foreign students such as educa­
tional films, discussion groups, nationality dinners, guest speakers, folk and social
dances, home hospitality, field trips, and informal receptions. Information on Peace
Corps and other opportunities to study and work abroad is also available to in­
terested students. The Center is at 118 Bay State Road.

University Information Center
The University attempts to provide information regarding University personnel
or meetings and conferences held throughout the University as readily as possible
through its maintenance of the University Information Center located in the Mugar
Library. It is available for service by phone twenty-four hours a day, seven days
a week.

Counseling
Counseling is one of the University’s most important services. Faculty members
are available for academic and vocational guidance, as are the professional coun­
selors employed by each School or College. These counselors are also prepared to
discuss personal problems. In addition to these, the University has established a number of offices and programs in order to offer the most effective guidance possible.

COUNSELING CENTER
Professional counseling is offered free of charge to all Boston University degree candidates. The Counseling Center offers help in choosing a vocation as well as help with personal problems and problems with roommates, friends, family, and teachers. It offers counseling individually and in groups. It also offers extensive testing services including intelligence, aptitude, interest, and personality tests. Any student may receive counseling by walking into the Counseling Center at 704 Commonwealth Avenue between the hours of 10 a.m. and 4 p.m. daily, Monday through Friday, or by appointment from 9 a.m. to 5 p.m. Monday through Friday.

UNIVERSITY READING CENTER
The University Reading Center is part of the Counseling Center at 704 Commonwealth Avenue. It helps the student to develop the reading and study skills needed for the most effective college work.

PASTORAL COUNSELING
The Albert V. Danielsen Pastoral Counseling Center is open to students and their wives at the University as well as people in the community. It offers the opportunity to discuss personal, marital, and family problems in confidence. Staff members are ministers trained in counseling. The Center is in the School of Theology building.

SPEECH AND HEARING CENTER
Students with speech or hearing difficulties may obtain diagnosis, guidance, and therapy from the Center without charge. This Center is in the School of Education building.

Placement
The Placement Service assists the student to secure full- or part-time employment either as a student, a graduate, or as an alumnus. The latest information is available on occupations and employment opportunities, and a professional staff is on hand to advise on career planning and placement. An active campus interviewing program which hosts hundreds of representatives from business, education, government, social service, and the graduate schools is also developed to provide information and referral on a personal basis for the degree candidate in his last year of study. A student may receive assistance in the preparation of resumes and presentations, and credentials and references may be placed in deposit for the lifetime of the graduate. Career planning and degree candidate placement is conducted at 195 Bay State Road; student and part-time placement is at 176 Bay State Road.

Veterans and Selective Service Center
The Center is the official liaison between this University and all Selective Service System local boards and the various components of the Armed Services.
Students sponsored by the Veterans Administration or a branch of the Armed Services must be certified in advance of registration through the Boston University Veterans and Selective Service Center. The Service is at 226 Bay State Road.

Religious Ministries

MARSH CHAPEL
The University's central religious ministry is maintained through Marsh Chapel where Protestant worship is conducted each Sunday at 11 a.m. There is a wide variety of religious activities for students, and counseling with chaplains is available. The Chapel Congregation offers discussions, service projects, Bible study, forums, conferences, and retreats. Danielsen House at 185 Bay State Road is a supplemental facility to the Chapel and is open each day and evening for informal fellowship and group meetings.

NEWMAN HOUSE
The Catholic center provides Sunday Mass and offers students opportunities to plan and participate in seminars, liturgical preparations, social events, and in a campus publication, the Razor's Edge. Newman House and St. Jerome's Chapel are open daily. The house is used for meetings, study, and socializing; the chapel for prayer, meditation, and religious services. Newman House is at 211 Bay State Road; the Chapel is adjacent.

B'NAI B'RITH HILLEL FOUNDATION
The Jewish center on campus offers a diversified program of activities consisting in part of workshops conducted by the students. Topics include religious, cultural, interfaith, social and contemporary problems, and Israeli affairs. Hillel House, 233 Bay State Road, is open during the week for meetings, study, and social life, and on the Sabbath and Jewish Holy Days for religious services.

Leadership Consulting Service
The Leadership Consulting Service is a Human Relations sensitivity training and consulting group that offers assistance to students, faculty, and staff, both individually and in groups. Its services are basically twofold:

One branch offers consultation for program development, improvement of leadership, membership, and decision-making skills and to open new channels of communication within, between, and among groups of the University community. The other branch, previously known as Discussion Plus, offers many kinds of short-term group learning experiences ranging from T-groups through University Simulations, to groups designed to help teachers be more helpful and responsive to their students. The Service is at 270 Bay State Road.

Student Volunteer Service
Student Volunteer Service attempts to match community needs with concerned college students able to meet these needs. The Service acts as a clearing house assisting interested students in finding out where their skills and talents can best be used. It also sponsors and develops its own community-related programs. The office is at 185 Bay State Road.
Celebrity Series
The Boston University Celebrity Series was founded to provide students, faculty, and staff of the University with the opportunity to hear the world's leading musical artists. Series tickets are available at special rates at the beginning of each academic year. Information may be obtained at the office of the School of Fine and Applied Arts.

Department of Security
The campus area is provided with 24-hour coverage by University Security Personnel, who are available for all emergency calls including sickness and accident, law violations, fire calls, and emergency maintenance. The office is in the Mugar Library.

Graduate Student Service Association
Every graduate student, including teaching fellows, is eligible for membership in the Graduate Student Service Association, the only University-wide organization for graduate students. The Association publishes an annual guide to the University and the City of Boston. It circulates a newsletter and also sponsors symposia and discussion groups, coffee hours, dances, and films. It represents the voice of the graduate student community to the University. Meetings are held biweekly. The office is located in Room 430 in the George Sherman Union.
In recognition of the increasing interdependence of medical education, medical research, and health service, the Boston University Medical Center was established in 1962. Operating semiautomatically but as an integral part of the University, the Medical Center joins and consolidates the resources and activities of the Boston University School of Medicine, the Boston University School of Graduate Dentistry, and the University Hospital. Its affairs are managed by a Director and Trustee Council. The Director of the Medical Center also holds appointments as Vice President for Medical Affairs at Boston University and as Executive Vice President of the University Hospital. Of the twenty authorized members of the Trustee Council, four are appointed from among the Trustees of Boston University and three from among the Trustees of the University Hospital.

Organizationally, the Boston University Medical Center has a number of affiliates in addition to its three constituent members. These affiliates at present include Boston City Hospital, Boston State Hospital, Robert Breck Brigham Hospital, Carney Hospital, Framingham Union Hospital, Huggins Hospital, Medfield State Hospital, Monadnock Community Hospital, James J. Putnam Children’s Center, Lemuel Shattuck Hospital, Douglas A. Thom Clinic for Children, Boston Naval Hospital (Chelsea), U.S. Public Health Service Hospital (Brighton), and Veterans Administration Hospitals in Boston, Brockton, and Providence, Rhode Island.

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School of Graduate Dentistry

Boston University School of Graduate Dentistry was established as a part of Boston University Medical Center in October 1963. Its prime goal has been to provide graduate education in the specialties of dentistry: Oral Surgery, Orthodontics, Periodontics, Endodontics, Pedodontics, Prosthetic Dentistry, Oral Pathology, and Public Health Dentistry. The School has also instituted several innovative programs as subphases of a single or, in certain instances, multiple specialties; these include such areas as Anesthesiology, Maxillofacial Prosthesis, Clinical Oral Pathology (Oral Medicine), and Periodontal Prosthesis. The prime objectives of the School include not only the provision of the training necessary for clinical specialization, but also the development of teachers and investigators in the clinical disciplines and basic sciences related to dentistry; these goals are actually integral.

The School of Graduate Dentistry has antecedents dating back to 1958 when Boston University School of Medicine established a Department of Stomatology to provide postdoctoral education in dentistry. Enrollment for full-time graduate study has quadrupled since that time. The dynamic expansion of the departmental teaching activities and enrollment, coupled with the growing need for graduate education in dentistry, led to a proposal early in 1962 by the School of Medicine and Boston University Medical Center that the activities in Graduate Dentistry be more appropriately identified. The President and Board of Trustees of Boston University adopted this proposal in 1963. Utilizing its own as well as the teaching facilities of the entire Medical Center, the program emphasizes the strong relationships that exist in health and disease between the orofacial tissues and those of the remainder of the body. Thus, dental care for the individual is accomplished in both clinic and hospital environments within a total health program, freely utilizing communication and consultation between the training dental specialist and the affiliated medical departments.

Research is considered to be an essential phase of advanced education in dentistry. This discipline is designed to develop the investigative talents of those interested in such an opportunity, to bring into focus the numerous and complex dental and medical health problems in need of amplification or solution, and to add much-needed responsible investigators to the teaching-research community. Adequate research preceptorship and facilities exist to accomplish these goals. The School of Graduate Dentistry utilizes not only its own research staff and facilities, but also, because of close liaison and cooperation with the School of Medicine and University Hospital, employ their investigators and investigative areas when the nature of the research so requires.
A primary objective of postdoctoral dental education is to provide skilled and productive clinicians, researchers, and educators to the profession. Education on a graduate level emphasizes the interdependence of clinical problems and current basic concepts, an understanding furthered by a sustained and guided exposure to the scientific method in the classroom, clinic, and research laboratory. Individuals endowed with an understanding of biologic principles and the ability to utilize these principles effectively in the prevention, amelioration, and cure of oral disease contribute to the vitality of the University, the profession, and the community.

The School of Graduate Dentistry includes (1) departmental subdivisions devoted to training in the eight dental specialties, (2) a Program for Continuing Education presenting short, intensive courses of interest to the general dental practitioner and specialist, and (3) a Program in Dental Assisting for young women who desire training in this ancillary dental field.

The School of Graduate Dentistry provides flexibility to meet the interests and capabilities of the student. Three variations have been established:

1. A program leading to certification of proficiency in one of the dental specialties. While strongly emphasizing the correlation of basic and preclinical sciences with the clinical discipline, the program does not require original research and thesis. A Certificate of Advanced Graduate Study (C.A.G.S.) is awarded upon satisfactory completion of the prescribed curriculum. The course requirements and the standards of academic and clinical achievement are set forth in this bulletin.

2. A program combining didactic studies and clinical training in one of the specialties of dentistry with research participation and thesis. The individual can not only fulfill his desire for a career in practice, but is able, because of his research orientation, to add to the fund of dental information; additionally, this experience may enable him to guide others in investigative efforts. This program is currently offered in the curriculum leading to the Master of Science in Dentistry (M.Sc.D.) degree.

3. A program that emphasizes clinical and academic excellence and research competency. With such a triphasic background the student can and should contribute significantly to the fund of scientific knowledge and should be capable of communicating to others preclinical concepts, an appreciation of science, and experience in clinical problems. He emerges, therefore, as a clinician able to conceive and perform research and as a teacher. This graduate program, leading to the Doctor of Science in Dentistry (D.Sc.D.) degree, provides a route to the attainment of these objectives.

Programs leading to the Ph.D. degree are available through the Division of Medical and Dental Sciences of the Graduate School. Qualified individuals interested in intensive and advanced training in the preclinical sciences such as anatomy, physiology, pathology, biochemistry, pharmacology, microbiology, etc., or subdivisions of these disciplines—related to dentistry and medicine—and desiring preparation for careers in research and teaching in these areas are urged to apply. An established relationship with the School of Graduate Dentistry permits, when advisable, basic research related to oral problems. Apply to Graduate School, 705 Commonwealth Avenue, Boston 02215.
Clinical Facilities

UNIVERSITY HOSPITAL
University Hospital is a nonsectarian general hospital of the medical-center type, operated on a voluntary nonprofit basis. Most of the members of the hospital staff are on the faculties of either the School of Medicine or the School of Graduate Dentistry.

Hospital care is provided for medical, dental, surgical, and obstetrical conditions by members of the fifteen separate staffs representing all of the major divisions of medicine and dentistry.

Thirty-five outpatient clinics provide ambulatory care and treatment and are held regularly. The facilities are fully equipped and staffed. Close direct supervision by a clinical teaching faculty is provided.

University Hospital serves as a principal teaching hospital for Boston University's School of Medicine and School of Graduate Dentistry. Close relationships and adjacent physical facilities provide convenient access to personnel and resources of these institutions.

SCHOOL OF GRADUATE DENTISTRY BUILDING
During 1969–70 the principal clinical teaching activities of the School were transferred to the new building of the School of Graduate Dentistry. Outpatient dental services are performed in separate clinics grouped on two floors of the facility. Services are provided in the complete spectrum of dentistry—Oral Diagnosis and Radiography, Oral Surgery, Pedodontics, Orthodontics, Prosthetic Dentistry, Periodontics, Endodontics, Preventive Dentistry, and Clinical Oral Pathology. Projected clinical programs include Maxillofacial Prosthesis, Implant Prosthetics and an Oncologic service. Inpatient oral care will continue at University Hospital.

REISMAN DENTAL CLINIC, BETH ISRAEL HOSPITAL
This well-equipped and staffed dental clinic is essentially devoted to supervised graduate training in the specialties of Periodontics, Endodontics, Pedodontics, and Oral Diagnosis. Liaison exists with its Departments of Oral Surgery and Prosthodontics, thus assuring complete patient care and opportunities for comprehensive treatment planning experience.

DEPARTMENT OF DENTAL HEALTH, TOWN OF BROOKLINE, MASSACHUSETTS
This direct affiliate of the School of Graduate Dentistry provides a portion of the clinical facilities and the teaching personnel necessary for training in Pedodontics and Public Health Dentistry. The members of its dental staff are on the faculty of the School. A fully equipped outpatient clinic and adequate patient load assure diversified clinical experience.

KENNEDY MEMORIAL HOSPITAL
Located at 30 Warren Street, Brighton, this general pediatric hospital is licensed for pediatrics and rehabilitation; it is nonsectarian, voluntary, and nonprofit. Considerable emphasis is placed on acute pediatric problems, total rehabilitation programs for children with orthopedic conditions or disorders of the nervous system, and the child with a minimal handicap such as speech impairment or hearing
loss. The philosophy of treatment is the team approach; no one specialty can render all necessary care to a patient or achieve the hospital's primary goal of a functioning, adjusted future member of the community. The Dental Department provides complete pedodontic and oral surgical care; preventive dentistry and periodontal services are additionally emphasized. All graduate students in Pedodontics, under the guidance of a staff member, perform dental care in both the outpatient department and the operating room, where indicated.

BOSTON STATE HOSPITAL
Located in Mattapan and operated under the aegis of the Massachusetts Department of Mental Health, this large modern institution is equipped in every way for the study and care of the mentally ill, and offers exceptional opportunities for teaching in dentistry.

Library
The library of the School of Medicine and the School of Graduate Dentistry is located on three floors of the Instructional Building of the Medical Center. It presently contains over 50,000 medical and dental volumes and regularly receives current periodicals and serial publications. An intensive program designed to escalate the number and quality of books and periodicals is in progress. All of the important indexing publications are available. Well-selected monographs, as well as new journal titles, are constantly being added to the files. Equipment is available for use of microfilms and microcards as well as photocopying. Extensive interlibrary loan service is maintained. A well-trained staff is on hand to give aid to the reader.
Admission

A candidate for admission to the School should send his completed application to Boston University School of Graduate Dentistry, 100 East Newton Street, Boston 02118. Applications are reviewed periodically by the Committee on Admissions during the year preceding that for which the applicant desires admission. The application fee is $25; it should be remitted by check when the application is submitted. Candidates accepted for admission to the School are required to pay a deposit of $200 toward the first year’s tuition, usually within 20 days of notification to the applicant of his acceptance. If the candidate withdraws his acceptance, the fee will not be refunded.

The following documents should be submitted in support of the application:

1. Letters of recommendation from individuals capable of impartially judging the applicant’s professional and ethical qualifications. These letters should originate from the dean of the dental school attended and the chairman of the department of that school in the field in which the candidate seeks admission. Special forms are provided by the School of Graduate Dentistry for this purpose. Additional letters in support of the application may be submitted.

2. Complete transcripts of dental school and undergraduate scholastic records.

3. A health evaluation submitted by the candidate’s physician; a special form is available.

4. Other credentials as may be requested by the department chairman in the specialty subject in which the applicant seeks training or by the Committee on Admissions.

5. Students applying from non-English-speaking nations are required to demonstrate an adequate reading, writing, and conversational knowledge of the English language. The International Student Center of Boston University arranges appropriate examinations for the applicant in the country of origin.
Grading System
The faculty has approved a grading system in which only PASS-FAIL marks are noted in the student’s record. Instructors in individual courses, if requested, may advise the student as to his progress. The student is required and expected to express and maintain his interest and knowledge in his major field and allied subjects to the extent—both absolute and relative—expected by the faculty, public, and the profession of those engaged in specialty practice, teaching, or research. In a general context, the specialist is the ultimate authority in his phase of dentistry in his locale of practice; his professional knowledge, judgment, and performance skills must therefore be superior and complete.

Promotion
A Committee on Promotion has the duty to review the eligibility of the student for advancement to the second year of graduate studies. This Committee also recommends to the Dean those who are eligible for the award of a Certificate of Advanced Graduate Study or Master of Science in Dentistry degree. A student wishing to appeal a Committee decision is given an opportunity to appear before a special meeting held within two weeks of the Committee’s action.

The Committee on Promotion constitutes the final authority on student ratings, and no final grades are issued before the action of the Committee.

Rules Governing Promotion
1. The faculty reserves the right to require the withdrawal of any student at any time when in the opinion of the faculty he is unfit to continue his course.
2. Passing marks are required in all subjects for promotion and for the award of certificates and all degrees.
3. If a student fails in one or more subjects, he must, before promotion, obtain a satisfactory grade in these subjects by reexamination or repetition of the course as determined by the Committee on Promotion.
4. If a student is unable to obtain the required mark by means of such reexamination, the Committee on Promotion shall determine disposition.
5. The student must receive the endorsement of his department chairman and the faculty prior to the award of a certificate or degree.

Students Who Withdraw to Enter the Armed Services
Students who withdraw to enter the armed services prior to the end of the semester may be allowed academic credit at the discretion of the faculty. In no case, however, may full academic credit be allowed when the student withdraws before mid-semester. When full academic credit is given for the work of a semester, there shall be no refund of tuition.
Full-time students who withdraw to enter the armed services on an involuntary basis may receive a refund on the basis of time proration, provided no academic credit is earned. In addition, the student may have a deferred credit for that part of his tuition which was not refunded at the time of withdrawals, provided he returns to the University for full-time study within one year of his discharge from the armed services.

Students who withdraw to enter the armed services on a voluntary basis may receive a refund based on the established refund schedule of the University.

Absence
A student who is absent from school assignments must inform the Dean’s Office promptly of the reason for absence and its expected duration. All absences other than those necessitated by reason of health or emergency must receive the prior approval of the Department Chairman and the Dean or his representative.

Registration
Registration is conducted under the direction of the Office of the University Registrar. The student receives by mail, in the summer prior to enrollment, detailed instructions from the School of Graduate Dentistry concerning the procedure to be followed during the published dates for registration.

Every student must register at the official registration time, the dates for which are set forth in the printed calendars in the front of this bulletin.

A fee of $25 is charged if a student does not register during the official period. In no event may a student register later than one week immediately following the official registration period without the written approval of the Dean or other authorized official of the School.
Financial Information

Tuition
Tuition per each academic year is $2,400. It is to be paid in full at the time of registration either to Bursar's representatives or at the Office of the Bursar, 755 Commonwealth Avenue. Tuition deposits (as explained in the section on Admission) are credited to tuition charges. If financing is not arranged through other sources, students may finance through the Tuition Plan, Inc. See following section on Deferred Payment.

Checks should be made payable to Boston University.

No student may withdraw in good standing unless all current obligations to the University are paid.

The trustees of the University reserve the right to change tuition rates or fees at their discretion whenever it is deemed advisable.

Service Charges
Application for admission .............................................. $25
Medical Insurance (required) ........................................... Varies by plan
Medical insurance is provided by a separate student Blue Cross plan in which membership is required. Blue Shield is optional, but advisable.
Health Fee ................................................................. $25
Transcript (no charge for first request) .............................. $1
When two or more transcripts are ordered at the same time, the first copy is $1 and each additional copy is $.50. The fee must accompany the transcript order.
Diploma Fees
C.A.G.S. ................................................................. $10
M.Sc.D. and D.Sc.D. .................................................... $25
Late registration and payment ......................................... $25
Reissue of I.D. card ..................................................... $5

The student is charged at actual cost for any breakage or damage to University property. Library fines are charged by the librarian. All fees are nonrefundable.

Deferred Payment
As a convenience to students who wish to make payments on a monthly basis, the services of Tuition Plan, Inc., are available. Information may be obtained through the Bursar's Office of the University. Contracts for all full-time students or students under 21 years of age must have the signature of a parent or guardian.
To use Tuition Plan, Inc., a student must register for a minimum of three credits or a minimum amount of $125.

Withdrawals and Refunds
To receive a credit to his tuition account, any student registered in the School of Graduate Dentistry who finds it necessary to withdraw from his course of study must submit a formal notice in writing to the Office of Admissions. When his withdrawal has been duly processed and the Bursar of the University is so notified, his account will be credited as follows:

- Within two weeks of the opening date: 80% of the tuition charge
- Between two and three weeks: 60% of the tuition charge
- Between three and four weeks: 40% of the tuition charge
- Between four and five weeks: 20% of the tuition charge
- After five weeks: No refund allowed

The tuition deposit of $200 made by the student within 20 days after his acceptance into graduate studies is nonrefundable.

Refund balances as a result of withdrawal and credit balances in a student’s account resulting from overpayment or adjustments will be paid either to the student or parent.

Scholarships and Financial Aid
Each year the School of Graduate Dentistry awards some full- or partial-tuition grants-in-aid to students whose scholastic record and qualities of personality show promise of superior scholarship and whose financial resources require supplementation in order for them to attend the graduate school. These awards are renewed provided the recipients achieve a superior record in their work. To apply for one of these awards a candidate should submit a written request to the Financial Aid Committee.

Awards are not made for the first semester of enrollment, but may begin at any time thereafter.

The Financial Aid Committee will consider a scholarship request as soon as possible after it has been submitted. The applicant generally will be notified within a reasonable period thereafter, but in some cases consideration must be delayed until all requests have been received.

It is the School’s expectation that students receiving scholarship awards will feel a sense of obligation to return a similar amount or more to the School of Graduate Dentistry when they are able to do so in order to permit equal opportunities to students of the future.

LOAN FUNDS
The Dorothy and Henry M. Goldman Loan Fund. This fund is intended for small loans to tide a student over in time of need. It is expected that the loan will be paid within a reasonable period.

Dr. Seymour Abrams Fund (1963). A loan fund established in the memory of Dr. Seymour Abrams, Assistant Professor of Orthodontics. Awards may be made to assist graduate students in the Department of Orthodontics.

Maxine Talkov Memorial Fund (1965). A loan fund established in the memory of Mrs. Maxine Talkov, wife of Dr. Leo M. Talkov, Professor and Chairman of
the Department of Prosthetic Dentistry. Awards may be made essentially to aid graduate students in the Department of Prosthetic Dentistry.

**Harold and Helen Berk Fund.** A loan fund, made possible through the contributions of Dr. and Mrs. Harold Berk of Brookline, for students enrolled in either the program in Pedodontics or the program in Endodontics.

**Bernard and Esther Chaikin Fund.** A fund, made possible by the donations of Dr. Bernard Chaikin, Professor of Periodontology, Emeritus, and wife to aid students in the Department of Periodontology with small loans to meet sudden needs.

**BANK LOANS**

The school has made arrangement with two local banks to facilitate loans made to students. Information concerning this is sent to the student prior to the time of registration.
Certification and Degree Programs

Certificate of Advanced Graduate Study
The program of study for the Certificate of Advanced Graduate Study includes those courses specified in this bulletin in the candidate's specialty curriculum. The School reserves the right to modify at any time its courses and programs so as to conform with dynamic trends in dental education and practice and is not obligated to conform to the curricula set forth within this bulletin. The department chairman, with the concurrence of the Committee on Advanced Degrees, may alter a candidate's program by the addition of such individual course(s) as may be warranted for the extension of the student's academic, clinical, or research scope. Whenever deemed advisable, courses in the School of Medicine may be substituted for those in the School of Graduate Dentistry; these courses may be in either clinical or preclinical sciences.

FIELD OF SPECIALIZATION
The student pursues an area of specialization from among the following departments: Clinical Restorative Dentistry, Periodontology, Endodontics, Pedodontics, Orthodontics, Oral Surgery, Oral Pathology, or Public Health Dentistry.

RESIDENCE REQUIREMENT
The minimum residence time, i.e., the period of enrollment, for a Certificate of Advanced Graduate Study is 21 months, except in the program in Oral Surgery where the requirement is one calendar year of a sequential three-year program.

CLINICAL REQUIREMENT
The certificate candidate must demonstrate proficiency in the clinical aspects of his specialty and related fields when applicable. He must receive the endorsement of his department chairman prior to the award of a certificate.

FINANCIAL REQUIREMENT
All financial obligations to the University must be discharged prior to promotion and the award of a certificate.

Master of Science in Dentistry
The Master of Science in Dentistry degree programs comprise extensions of those courses of study which would ordinarily lead to the award of a Certificate of Advanced Graduate Study. In general, well-conceived research and an original thesis, with its successful defense, are additional requirements.
FIELD OF SPECIALIZATION
The candidate pursues full-time graduate studies in one of the fields of major specialization of the School: Clinical Restorative Dentistry, Periodontology, Endodontics, Pedodontics, Orthodontics, Oral Surgery, Oral Pathology, or Public Health Dentistry. The candidate must carry out such collateral studies as his department chairman or the Committee on Advanced Degrees may direct after examination of his credentials.

RESIDENCE REQUIREMENT
The minimum residence time, i.e., period of enrollment for the Master of Science in Dentistry degree program is 21 months, except in Oral Surgery where the required time may be fulfilled at another approved institution.

APPLICATION
The candidate for the Master of Science in Dentistry degree must meet the admission requirements previously stated in this bulletin. In addition, a student desiring to become a candidate for the Master of Science in Dentistry degree must so indicate in his application to the School; if the student is undecided, such action may be deferred until the completion of the first semester of his studies at which time he may apply for the master's degree program.

GRADE REQUIREMENT
A grade of PASS is required in all subjects. The candidate must also have the endorsement of the faculty and chairman of the department in the major specialty subject.

RESEARCH REQUIREMENTS
1. During the first semester of enrollment, the student should submit a protocol for a research project upon which to base his master's thesis. The research may be oriented toward a problem with clinical significance or it may be concerned with a preclinical subject related to dentistry. It should be designed so as to contribute significant information to the realm of dental or biological knowledge.

2. The candidate's credentials and the protocol, submitted as a basis for research and thesis, are reviewed by the chairman of the department representing the clinical specialty, the Director of Graduate Student Research, and the Student Academic Achievement Committee. When approved, the student may then proceed with the investigation. The project is conducted by the candidate in consultation with his department chairman and with the guidance of an adviser who is a member of the faculty of the School of Graduate Dentistry or one of its affiliates.

3. The candidate must present subsequently an original, unpublished thesis based upon his research effort. The thesis must be submitted, in triplicate and in the prescribed format, by March 1 of the school year in which the degree is sought.

4. After presentation of the thesis, the candidate must defend it before a faculty committee selected by the Dean and the Student Academic Achievement Committee. The report of the chairman of the thesis-defense committee will be submitted to the Student Academic Achievement Committee for final approval and recommendation for degree. The thesis defense can be made up to April 15 of the year in which the degree is sought.
5. The investigation should possess a degree of originality and sophistication so as to merit the award of the advanced degree. A thesis may be rejected on the bases of content, style of writing and composition, assembly format, etc., by the department chairman, the Director of Graduate Student Research, the Student Academic Achievement Committee, or the thesis-defense panel; the thesis is returned to the candidate for revision or a new writing. The deficiencies of a thesis are made apparent to the candidate by his adviser, department chairman, or the thesis-defense panel. The paper may then be resubmitted by March 15 of the following school year for review and defense.

6. If a candidate's degree of achievement proves to be inadequate when questioned by the thesis-defense panel, despite the fact that the thesis itself may be satisfactory, he will not be recommended for the award of the advanced degree. The candidate may redefend his thesis before a thesis-defense panel at the designated time during the succeeding school year.

**COMPREHENSIVE EXAMINATION**

After presenting evidence to the Dean of having completed his studies satisfactorily, and prior to the submission of his thesis, the candidate may be required to pass a written and/or oral examination given by a panel of the faculty designated by the Dean. The candidate is required to demonstrate to the panel adequacy of knowledge in his major and related fields.

**CLINICAL REQUIREMENT**

The candidate must demonstrate proficiency in the clinical aspects of his specialty and related fields when applicable. He must receive the endorsement of his department chairman prior to the award of the degree.

**FINANCIAL REQUIREMENT**

All financial obligations to the University must be discharged prior to promotion and the award of a degree.

**Doctor of Science in Dentistry**

Graduate dental education is directed to prepare a sufficient number of individuals to guarantee a source of specialists, teachers, and research workers in the various branches of dentistry. The Doctor of Science in Dentistry degree program is applicable to those individuals who are motivated towards postdoctoral training in a clinical specialty of dentistry; this course of study permits emphasis on the attainment of clinical and academic excellence and research competency. With such background the graduate student can and should contribute significantly to scientific knowledge and should be capable of communicating to others concepts, appreciation of science, and experience in varied problems. Therefore, he should emerge as a sophisticated and proficient clinician, capable of and committed to the performance of research and teaching.

The student must fulfill three general requirements: (1) academic course work; (2) clinical therapeutics, and (3) original research and preparation of a thesis and its defense.

The student's progress is reviewed at the time of completion of the first year of graduate studies, and if progress is deemed satisfactory, he is allowed to continue in the doctoral program.
Credits may be earned for formal courses, seminars, and research in proportion to the particular needs and background of the candidate as worked out in consultation with his major adviser. It is expected that at least 18 credits will be allocated to a research project. The program for the Doctor of Science in Dentistry degree consists essentially of the equivalent of one and a half to two years of fundamental course work in basic and clinical sciences and one to one and a half years of research. The course work is based upon and correlated with the areas of specialization and research for any one individual. Evidence must be submitted to the Committee for Advanced Degrees that these studies have been completed in a superior manner.

Whenever deemed advisable, courses in the School of Medicine and the Graduate School (Arts and Sciences) may be utilized in lieu of or to supplement courses offered in the School of Graduate Dentistry.

FIELD OF SPECIALIZATION
The student pursues an area of specialization from among the following departments: Clinical Restorative Dentistry, Periodontology, Endodontics, Pedodontics, Orthodontics, Oral Surgery, Oral Pathology, or Public Health Dentistry. In consultation with the department chairman, he selects a sponsor who is a member of the teaching staff. The candidate plans his course in consultation with his major instructor and in accordance with the requirements of his major department.

RESIDENCE REQUIREMENT
A residence time of three calendar years is required for the degree of Doctor of Science in Dentistry. A minimum of 48 credits is necessary, all of which must be earned at Boston University.

ELIGIBILITY AND APPLICATION
Any well-qualified person with a doctorate in dentistry from a recognized dental school may apply for admission to the Doctor of Science in Dentistry degree program.

Application should be made to Boston University School of Graduate Dentistry, 100 East Newton Street, Boston 02118. In addition to the regular admission requirements, transcripts of both the undergraduate school and the dental school academic records must be submitted. A student's undergraduate program must include courses in general biology, inorganic and organic chemistry, physics, and English totalling 38 credits. All courses in science must include didactic and laboratory instruction. In addition, courses in quantitative analytical chemistry, mathematics, psychology, and foreign languages are desirable. The student may be required to make up any deficiencies in his academic background by completion of specified courses without graduate credit. These courses, together with the dental curriculum, serve as a basis for determining admission to the program.

Students seeking admission to the program leading to the Doctor of Science in Dentistry degree should be intellectually, morally, and physically qualified. They should be superior individuals whose records indicate promise in the attainment of the specific goals set for the proposed degree.

In addition to the above credentials, letters of recommendation from two senior faculty members from the undergraduate school and the Dean and two senior faculty members of the dental school are required. A student may be enrolled for the Doctor of Science in Dentistry degree only if he is accepted for such by the Student Academic Achievement Committee.
QUALIFYING EXAMINATION
Each student must demonstrate competence in his major area of specialization in special examinations offered by his department.

DISSERTATION
The candidate must demonstrate his ability for independent study in a dissertation representing original research.

GRADE REQUIREMENT
A grade of PASS is required in all subjects. The candidate must also have the endorsement of the faculty and chairman of the department in the major specialty subject.

FINAL ORAL EXAMINATION
The candidate must defend his thesis by an oral examination before a committee selected by the chairman of the department involved in consultation with the Dean. The report of the chairman of the dissertation defense committee is submitted to the Student Academic Achievement Committee for final approval and recommendation for the degree.

LANGUAGE REQUIREMENT
There is no formal language requirement in this program.

FINANCIAL REQUIREMENT
All financial obligations to the University must be discharged prior to promotion and the award of a degree.

SUMMARY OF REQUIREMENTS FOR DOCTOR OF SCIENCE IN DENTISTRY DEGREE
The following represents, in summary form, the dynamics of admission and fulfillment for the degree of Doctor of Science in Dentistry:

1. Application for admission to the School of Graduate Dentistry and for admission as a candidate for the Doctor of Science in Dentistry degree.
2. Submission of transcripts of undergraduate and dental school records.
3. Letters of recommendation.
4. Declaration of research intention.
5. Provisional acceptance by Committee; an interview is then requested.
6. Interview and selection of research project.
7. Sponsor obtained for graduate student.
8. Registration and program formulated by sponsor (course work and research) and chairman of the department (course work and clinical training).
9. Qualifying examination at the end of the first year (to determine eligibility to continue in program).

It is expected that some students will have no particular research problem in mind at the beginning. It is necessary, however, that these students select an appropriate research subject during the first semester of enrollment. The finalized program should begin at the start of the second semester of the first year.
Courses of Instruction

Clinical Restorative Dentistry

Leo Talkov, D.M.D., F.A.C.D., Chairman of the Department
Donald Mori, B.A., D.M.D., Chairman of Department of Fixed Partial Prosthesis
Charles Paraskis, B.S., D.M.D., Chairman of Department of Full and Removable Partial Prosthesis
Joseph Barron, D.M.D., F.A.C.D., Chairman of Department of Maxillofacial Prosthesis
Lloyd Chaisson, B.S.c, D.D.S., F.I.C.D., Chairman of Department of Operative Dentistry

A two-year program that has been planned not only to present the theoretical knowledge correlating all aspects of oral biology, but also to strengthen the clinical and laboratory skills of the trainee in the three major phases of prosthetic dentistry, namely fixed partial, removable partial, and complete denture prosthesis. The department's scope has been expanded to include both implant prosthesis and maxillofacial prosthesis.

An important aspect of this curriculum is the intensive and systematized library reading requirement which has been designed to acquaint the student with all of the necessary facets of prosthodontics and occlusion.

This program fulfills the formal educational requirements of the American Board of Prosthodontics; it also provides a well-rounded background in other phases of clinical dentistry: endodontics, orthodontics, and periodontology. Special emphasis is given to the correlation of periodontology with clinical periodontal prosthesis.

The curriculum in Clinical Restorative Dentistry includes:

Preclinical Sciences
DE 701 Anatomy (head and neck) Dr. Moyer, staff *1, second semester
DE 702 Oral Biology Staff and visiting lecturers 8, two semesters
DE 708 Endodontic Histopathology Dr. Rubin 2, two semesters
DE 761 Biostatistics Dr. Stahl 1, second semester

Clinical Sciences
DE 754 Oral Medicine Drs. Ruben, Grots 2, two semesters
DE 760 Maxillofacial Prosthesis Dr. Barron 1, first semester
DE 760A Implant Prosthesis Dr. Gershkoff 2, first semester
DE 763 Occlusion Dr. Kohn, staff 2, two semesters

*Arabic numeral preceding the semester indicates number of semester credits for each course.
Periodontology

Gerald M. Kramer, D.M.D., F.A.C.D., F.I.C.D., Chairman of the Department

In the first academic year, emphasis is placed on the sciences essential to the understanding of the principles involved in the practice of clinical periodontology such as correlated basic and clinical medical sciences, periodontology, principles of occlusion, orthodontics, oral medicine, oral pathology, and research principles. The second year of study is devoted to the clinical practice of this specialty along with additional instruction in the basic and clinical services. This program is designed to meet the formal educational requirements of the American Board of Periodontology.

The course of instruction in Periodontology includes:

Preclinical Sciences

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DE 701</td>
<td>Anatomy (head and neck)</td>
<td>Dr. Moyer, staff</td>
<td>*1, second semester</td>
</tr>
<tr>
<td>DE 702</td>
<td>Oral Biology</td>
<td>Staff and visiting lecturers</td>
<td>8, two semesters</td>
</tr>
<tr>
<td>DE 703</td>
<td>Biology of Disease</td>
<td>Drs. Lanzoni, Pelikan, Levine,</td>
<td>8, two semesters</td>
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<tr>
<td></td>
<td></td>
<td>Cochin</td>
<td></td>
</tr>
<tr>
<td>DE 706</td>
<td>Pharmacology</td>
<td>Drs. Ruben Hodess, Schulman,</td>
<td>2, first semester</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Anapolle</td>
<td></td>
</tr>
<tr>
<td>DE 709</td>
<td>Periodontal Pathology</td>
<td>Drs. Ruben, Harris, Anapolle</td>
<td>4, two semesters</td>
</tr>
<tr>
<td>DE 709A</td>
<td>Periodontal and Oral Pathology</td>
<td></td>
<td>2, sixteen weeks</td>
</tr>
</tbody>
</table>

*Arabic numeral preceding the semester indicates number of semester credits for each course.
Clinical Sciences
DE 754 Oral Medicine
DE 757 Otolaryngology
DE 759 Anesthesiology
DE 760A Implant Prosthesis
DE 763 Occlusion
DE 763A Occlusal Waxing Laboratory

Major Clinical Sciences
DE 805 Periodontology (lecture)
DE 806 Periodontology (seminar)
DE 807 Periodontology (clinic)
DE 808 Periodontology (lecture)
DE 809 Periodontology (seminar)
DE 809A Treatment Planning Seminars
DE 810 Periodontology (clinic)
DE 810A Environmental and Presurgical Periodontology
DE 811 Orthodontics
DE 814A Endodontics
DE 850 Special Lecture Series for Students in Periodontology

Research
DE 921 Periodontology (approved investigation and successful defense of thesis)

Endodontics
Herbert Schilder, D.D.S., F.I.C.D., F.A.C.D., Chairman of the Department

A two-year course of study designed to meet the formal educational requirements for the examinations of the American Board of Endodontics. The program leads to either a certificate or a Master of Science in Dentistry degree, depending upon the depth and originality of the candidate's research investigation and thesis.

Intensive training is given in clinical endodontics and correlated basic and medical sciences as well as in other dental subjects as they relate to endodontic practice. The supervised clinical training encompasses both surgical and nonsurgical endodontics in order that the trainee may acquire diagnostic and operative facility in these areas.

All students must be prepared to meet the systematized library requirements which familiarize them with the development of endodontics and permit intelligent evaluation of current techniques.

The program in Endodontics is as follows:

Preclinical Sciences
DE 701 Anatomy (head and neck) Dr. Moyer, staff 1, second semester

*Arabic numeral preceding the semester indicates number of semester credits for each course.
DE 702 Oral Biology
DE 703 Biology of Disease
DE 706 Pharmacology

Staff and visiting lecturers 8, two semesters
Staff 8, two semesters
Drs. Lanzoni, Pelikan, Levine, Cochin 2, first semester
Dr. Ruben 2, two semesters
Dr. Rubin 2, two semesters
Dr. Stahl 1, second semester

DE 708 Endodontic Histopathology
DE 708A Pulp Biology
DE 761 Biostatistics (elective)

Clinical Sciences

DE 754 Oral Medicine
DE 760A Implant Prosthesis

Major Clinical Sciences

DE 805B Periodontology
DE 814 Endodontics (lecture)
DE 815 Endodontics (seminar)
DE 816 Endodontics (clinic)

DE 817 Prosthetic Dentistry

Research

DE 941 Endodontics (approved investigation and successful defense of thesis)

Selected preceptor 12, four semesters and summer

Pedodontics

Spencer N. Frankl, D.D.S., M.S.D., F.A.C.D., Chairman of the Department

The curriculum in Pedodontics is designed to meet the formal educational requirements for specialization and for certification by the American Board of Pedodontics.

Participants in the two-year program are provided with the necessary clinical experience and formal study to diagnose and treat any oral health problem within the pediatric age group. The following areas of competence are stressed in Pedodontics: preventive dentistry, growth and development, orthodontics, specialized operative and prosthodontic techniques, pulp therapy in the primary and immature permanent dentitions, periodontology, and child management. In order that the techniques discussed in lectures, seminars, and demonstrations be directly applied to the patient, pertinent clinical operations are performed upon carefully selected children.

Emphasis is given to management of the young hospitalized child. Complete restorative and surgical care under general anesthesia for the exceptional child together with ward rounds are conducted at the University Hospital, Beth Israel Hospital, and Kennedy Memorial Hospital.

The course of study in Pedodontics includes:

Preclinical Sciences

DE 701 Anatomy (head and neck) Dr. Moyer, staff 1, second semester
DE 702 Oral Biology Staff and visiting lecturers 8, two semesters

*Arabic numeral preceding the semester indicates number of semester credits for each course.
DE 761 Biostatistics

Clinical Sciences
DE 754 Oral Medicine
DE 759 Anesthesiology
DE 759A Anesthesiology
DE 762 Pediatric Medicine

Major Clinical Sciences
DE 805A Periodontology
DE 811A Orthodontics (lecture)
DE 811B Orthodontics (clinic)
DE 826 Public Health Dentistry
DE 828 Pedodontics (lecture)
DE 829 Pedodontics (seminar)
DE 830 Pedodontics (clinic and hospital)

Research
DE 991 Pedodontics (approved investigation and successful defense of thesis)

Orthodontics
Anthony A. Gianelly, D.M.D., Ph.D., Chairman of the Department
Murray Bernstein, D.M.D., M.S., Director of Clinical Orthodontics

A course designed for those interested in the clinical practice of orthodontics. The curriculum is arranged so that approximately one-half of the time is devoted to supervised clinical practice during which each student treats an adequate and representative number of patients. The remainder of the time is devoted to lectures and seminars in the basic sciences and clinical subjects related to orthodontics.

The program in Orthodontics is designed to provide a broad background of knowledge regarding growth and development of the face and cranium in order that an analysis of dentofacial deformities, as related to orthodontics, may be formulated as an indispensable adjunct to the planning and management of orthodontic therapy. Mechanotherapy and treatment are based on a complete physical and psychological appraisal of the patient, cephalometric analysis of the face and cranium, and detailed and correlated consideration of occlusion as revealed by clinical observations and all other means available to modern orthodontics.

The course consists of two academic years with an intervening summer utilized for clinical practice and research and is designed to provide both the formal educational requirements and partial clinical bases for the examinations of the American Board of Orthodontics.

The courses in instruction in Orthodontics are as follows:

Preclinical Sciences
DE 701 Anatomy (head and neck)  Dr. Moyer, staff *1, second semester
DE 702 Oral Biology  Staff and visiting lecturers 8, two semesters
DE 761 Biostatistics  Dr. Stahl 1, second semester

*Arabic numeral preceding the semester indicates number of semester credits for each course.
Clinical Sciences
DE 754 Oral Medicine
DE 762 Pediatric Medicine
DE 763 Occlusion

Major Clinical Sciences
DE 805B Periodontology
DE 812 Orthodontics (lecture)
DE 813 Orthodontics (clinic)

Research
DE 931 Orthodontics (approved investigation and successful defense of thesis)

Oral Surgery
Donald F. Booth, D.M.D., Chairman of the Department
A one-year course of study designed to meet the formal educational requirements for examination by the American Board of Oral Surgery. The board requirements also necessitate two additional years of hospital training. The oral surgery program is conducted by lectures, clinical demonstrations, operative clinics, and laboratory exercises in such a manner that the clinical phases of oral surgery are intimately correlated to the pertinent basic and preclinical sciences.

The Oral Surgery program includes the following courses:

Preclinical Sciences
DE 701 Anatomy (head and neck)
DE 702 Oral Biology
DE 703 Biology of Disease
DE 705 Oral Pathology
DE 706 Pharmacology

Clinical Sciences
DE 752 Physical Diagnosis
DE 754 Oral Medicine
DE 756 Clinical Surgery Seminar
DE 757 Otolaryngology
DE 758 Clinical Oral Surgery Conferences
DE 759 Anesthesiology
DE 760 Maxillofacial Prosthesis
DE 760A Implant Prosthesis
DE 767 Radiology

*Arabic numeral preceding the semester indicates number of semester credits for each course.
Major Clinical Sciences
DE 801 Oral Surgery (lecture)  Drs. Booth, Harris  2, two semesters
DE 802 Oral Surgery (seminar)  Dr. Booth, staff  Two semesters
DE 803 Oral Surgery (clinical assignments)  Dr. Booth, staff  Two semesters
DE 804 Oral Surgery Laboratory  Dr. Pierce, staff  Two semesters

Research
DE 951 Oral Surgery (approved investigation and successful defense of thesis)  Selected preceptor  12, four semesters and summer

Oral Pathology
Henry M. Goldman, D.M.D., F.A.C.D., F.I.C.D., Chairman of the Department

The two-year curriculum in Oral Pathology presents to the student a rich and comprehensive foundation for teaching and research. This course of study provides for a full year in general pathology at the University Hospital. The student is given an opportunity to participate in gross necropsy procedures; he is required to complete the subsequent pathological reports. In addition, the student assumes the full duties of an intern in pathology so that his knowledge may be enriched with every aspect of general and specialized pathology, allowing a fuller understanding of the normal and pathological processes that may be correlated to the field of oral pathology.

Instruction is given in clinical oral pathology in the outpatient clinics and on the ward services of the University Hospital and Boston City Hospital.

The second year comprises study in oral pathology as a specialty. There is ample opportunity to review specimens in a registry and also to review daily surgical specimens. Research and thesis are also required of all students.

This program meets the formal educational requirements of the American Board of Oral Pathology.

The course of study in Oral Pathology includes:

Preclinical Sciences
DE 700 Pathology—University Hospital  Dr. Balogh  Two semesters and summer
DE 701 Anatomy (head and neck)  Dr. Moyer, staff  1, second semester
DE 702 Oral Biology  Staff and visiting lecturers  8, two semesters
DE 703 Biology of Disease  Staff and visiting lecturers  8, two semesters
DE 705 Oral Pathology  Drs. Harris, Pearlman, Ruben  4, two semesters
DE 709 Periodontal Pathology  Drs. Ruben, Hodess, Schulman, Anapolle  4, two semesters
DE 712 Oral Histopathology (laboratory)  Dr. Goldman, Mr. Bloom  Two semesters
DE 761 Biostatistics  Dr. Stahl  1, second semester

Clinical Sciences
DE 753 Surgery  Dr. J. Fine  2, two semesters

*Arabic numeral preceding the semester indicates number of semester credits for each course.
Public Health Dentistry

Lester E. Block, D.D.S., M.P.H., Chairman of the Department

This two-year program is designed to provide a broad background of knowledge and practical experience in the general activities of public health with special emphasis on the dental aspects of the public health field. The course has been developed as a formal educational experience for dentists who intend to make dental public health their full-time career.

By active participation in a local program it is expected that the dentist will achieve the viewpoint of the public health team sufficiently to integrate his specialized program thoroughly in the total public health program.

Emphasis is placed on the social trends affecting the practice of dentistry; utilizing preventive and control measures for dental caries, periodontal diseases, and malocclusion; conducting essential surveys for documenting complete and accurate data; developing dental health education procedures; and participation in other directed field experiences.

The facilities of a local health department and other affiliated agencies are integrated for approved field experience.

The course of study in Public Health Dentistry includes:

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DE 754</td>
<td>Oral Medicine</td>
<td>Drs. Ruben, Grots</td>
<td>2</td>
</tr>
<tr>
<td>DE 761</td>
<td>Biostatistics</td>
<td>Dr. Stahl</td>
<td>1</td>
</tr>
<tr>
<td>DE 764</td>
<td>Psychiatry</td>
<td>Drs. Cohen, Kahn, staff</td>
<td>1</td>
</tr>
<tr>
<td>DE 826</td>
<td>Public Health Dentistry</td>
<td>Dr. Block, staff</td>
<td>3</td>
</tr>
<tr>
<td>DE 827</td>
<td>Preventive Dentistry</td>
<td>Dr. Block, staff</td>
<td>4</td>
</tr>
<tr>
<td>DE 831</td>
<td>Principles of Epidemiology</td>
<td>Staff</td>
<td>3</td>
</tr>
<tr>
<td>DE 832</td>
<td>Public Health Administration</td>
<td>Staff</td>
<td>3</td>
</tr>
<tr>
<td>DE 833</td>
<td>Environmental Health</td>
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</tr>
<tr>
<td>DE 981</td>
<td>Public Health Dentistry (approved research project and successful defense of thesis)</td>
<td>Selected preceptor</td>
<td>12</td>
</tr>
</tbody>
</table>

Depending upon the student's interests and career objectives, a series of elective courses may be selected from among the following (other courses given at the University may also be selected if the student and his adviser feel it is desirable):

*Arabic numeral preceding the semester indicates number of semester credits for each course.
Preclinical Sciences

DE 702 Oral Biology
DE 705 Oral Pathology
DE 703 Biology of Disease

Clinical Sciences

DE 762 Pediatric Medicine
DE 767 Radiology

Major Clinical Sciences

School of Medicine

Preventive Medicine and Public Health
Occupational Health

Rehabilitation Medicine

DE 805B Periodontology
DE 812 Orthodontics
DE 814 Endodontics
DE 828 Pedodontics
SON NY 706 Epidemiological Approach to the Study of Mental Illness
SON NU 218-219 Nutrition

Social Sciences (refer to other University bulletins for a complete listing of courses and course descriptions)

CLA PS 341 Child Psychology
CLA BI 406 Human Ecology
CLA GO 331-332 Public Administration
GRS PS 704 Theories of Learning
CLA SO 377 Sociology of Medicine
SSW SW 773 Community Organization and Administration
SSW SW 777 Seminar in Administration
SPC PR 715 Public Relations for Health, Education, and Welfare
MET EP 615E Teaching Machines and Programmed Instruction—Theory
SED EH 705 Community Health Education
SED EH 711 Methods and Materials in Health Instruction
SED EH 714 School Health Education

Anesthesiology

Benjamin Kripke, M.D.

A one-year program in general anesthesiology is offered to oral surgeons. This course consists of a didactic program as well as clinical training at the University Hospital. All phases of anesthesiology are offered.
Oral Biology Program

Louis C. Fillios, A.B., M.S., Sc.D., Director

This is a Ph.D. program for holders of Dental Degrees. The principal aim of the program is to help meet the need of dental schools for greater numbers of highly qualified teachers and scientists in preclinical or basic sciences. The program is therefore designed to offer an opportunity for holders of dental degrees to obtain advanced education and research training in the sciences basic to dentistry.

The program leads to a Ph.D. degree in one of the basic sciences with the candidate's major area of concentration in one of the following areas: Anatomy, Biochemistry, Physiology, Pharmacology, Microbiology, or Pathology. The minor area of concentration is Oral Biology. In addition, candidates obtain experience by assisting in the teaching of a basic science to predoctoral students.

The design of this program is quite similar to that of other Ph.D. programs in the Division of Medical and Dental Sciences of the Graduate School. The courses from which a candidate can fulfill his major (or departmental) requirements are those described in the catalog of the Graduate School (Arts and Sciences) for each major area of concentration. A candidate satisfies his minor requirement with the two-semester course in Oral Biology and by attending a weekly seminar in Dental Research for four semesters. These latter courses are offered jointly by the Graduate School (Arts and Sciences) and the School of Graduate Dentistry.

By means of lectures and readings, the Oral Biology course provides intensive interdisciplinary coverage of the tissues and organ systems of particular importance to dentistry. Approximately twenty-five percent of the course is devoted to hard tissues. Other areas include connective tissues, oral microbiology, genetics and teratology, neuromuscular function in the oro-facial region, saliva and salivary glands, and nutritional and metabolic factors in dental development and disease. A one-semester elective course in Nutrition is also available.

It is expected that all formal course requirements will be completed by the end of the third or fourth semester. Holders of dental degrees are required to pass a minimum of eight courses (32 credits) in the Graduate School.

The seminars in Dental Research are an ongoing but informal program to keep the student in touch with new developments in the field.

TRAINING SEQUENCE

After successfully completing the formal course requirements, a candidate is eligible to take a qualifying oral examination which is required of all candidates in this program. If a departmental written examination is required, it must be taken before the qualifying examination.

The purpose of the oral qualifying examination is to assess the knowledge of the candidate in both his major and minor areas of concentration. The examination committee consists of six members including a non-voting chairman. At least two of the voting members are selected from the faculty of the School of Graduate Dentistry.

After passing this oral examination and after completing all of the course requirements as well as the foreign language requirement of the Graduate School (Arts and Sciences), a candidate concentrates on the investigative work for his dissertation.

REQUIREMENTS FOR ADMISSION

The formal application procedures are those presently followed in the Graduate
School (Arts and Sciences). After receiving a completed application, the Graduate School office sends a copy to the Division of Medical and Dental Sciences for final review and assignment. Candidates accepted into the program are assigned two faculty advisers. One, his major adviser, is a member of the Graduate School department where the dissertation is to be written. The second, or minor, adviser is a member of the faculty of the School of Graduate Dentistry.

**ADVISORY SYSTEM**

The selection of a major adviser is made after a careful consideration of a candidate’s scientific interests. The selection procedures are those generally followed by the Division of Medical and Dental Sciences of the Graduate School.

The task of the minor adviser is to assure that the candidate masters the material related to Oral Biology. In addition, he attempts to insure that the candidate maintains a strong interest in dental education. A continuing interest in dentistry is also encouraged by having the candidates in the program participate in various activities in the School of Graduate Dentistry. These activities include attendance at research seminars, participation in predoctoral teaching, and invitations to all social events. Participation in these activities at the dental school have a variety of beneficial effects. It assures that a candidate does not become isolated from his original professional interests during the course of his Ph.D. program. In essence, a balanced program is offered that produces a well-trained basic scientist with a strong positive orientation toward dentistry and dental education.

After completing the course work, a candidate is required to spend at least one year in full-time residency devoting his time to research and the writing of his dissertation under the supervision of his major adviser.

**POSTGRADUATE RESIDENCY AND PLACEMENT**

Upon completion of the Ph.D. program, a graduate has the option of receiving intensive clinical training in one of the clinical specialty areas in dentistry. Graduates can be accepted immediately into clinical training in Oral Surgery, Orthodontics, Periodontics, Endodontics, Pedodontics, Prosthodontics, Oral Pathology, or Public Health Dentistry. This training satisfies the requirements for a certificate in one of the clinical specialty areas. The period of post-graduate clinical training depends on the candidate’s previous training and the requirements of the clinical department. This advanced training assists some of the candidates in translating their Ph.D. training into future clinical research and teaching.
Course Descriptions

DE 700. Pathology—University Hospital.
Dr. Balogh
Full year in general pathology at University Hospital. Participation in gross necropsy procedures and completion of subsequent pathological reports. Full duties of intern in pathology providing knowledge of every aspect of general and specialized pathology. Correlation of the normal and pathological processes to the field of oral pathology.
Hours to be arranged, two semesters and summer

Dr. Moyer, staff
Gross structure of the human head and neck; emphasis on points of clinical importance in diagnosis and therapy of oral disease. Presented by lecture, roentgenology, and laboratory dissection.
16 hours lecture, 48 hours lab (Oral Surgery students);
16 hours lecture (other students); second semester

Staff and visiting lecturers
Comprehensive consideration of the origins, structure, and functions of the orofacial complex. After a review of essential and fundamental biologic data, strong emphasis is placed upon those updated concepts which bear upon and which are considered significant in the research and clinical aspects of dentistry. Included are discussions relative to cell biology and cytopathology; epithelial structure and behavior with normalcy and under stressful conditions; connective tissue organization and biochemistry; epithelial-mesenchymal interactions; genetics and the consequences of genetic error; bone—including such facets as mineralization, osteogenesis, and bone induction; healing of wounds; development and relationships of vascular and lymphatic systems; chemistry and physiology of saliva; the temporomandibular joint in static and dynamic states; speech and speech defects of local and central nervous system origins; mastication and swallowing; nutrition; oral microbiology. This is a core course required of all students in the school.
4 hours per week, two semesters

DE 703. Biology of Disease (Dental).
Staff and visiting lecturers
Core course for all students of the school designed to review and subsequently update and collate the basic sciences as they pertain to the clinical practice of dentistry and medicine. Intensive consideration given to such areas as the anatomy, physiology, pathology, and clinical manifestations of dermatologic and mucosal disease; correlation of basic and diagnostic microbiology with clinical aspects of infectious diseases; the foundations of diagnosis and the treatment of allergic and hypersensitivity reactions; the hemopoietic system and its afflictions; respiratory and cardiovascular lesions of significance in dental and specialty practice; metabolic and endocrine physiology and diseases; bone and connective tissue lesions; neural system and neuropathology; oncology and tumor-like conditions.
41/2 hours per week, two semesters
DE 705. Oral Pathology. Drs. Harris, Pearlman, Ruben
Lectures, laboratory exercises, and clinico-pathologic conferences correlating the clinical and microscopic attributes of dental, periodontal, pulpal, and periapical lesions, followed by detailed consideration of cysts and tumors of odontogenic and non-odontogenic origin, benign and malignant neoplastic processes as they affect the oral and perioral tissues, and the inflammatory and dystrophic lesions of the hard and soft oral tissues. Correlated to the courses in Oral Medicine, Oral Surgery, Periodontal Pathology, etc.
32 hours lecture, 96 hours lab, two semesters

DE 706. Pharmacology. Drs. Lanzoni, Pelikan, Levine, Cochin
Lectures utilized to present the pharmacologic properties, toxic manifestations, and therapeutic applications of the agents employed in the practice of dentistry and medicine.
32 hours, first semester

DE 708. Endodontic Histopathology. Dr. Ruben
Systematic presentation of the diseases affecting the dental, pulpal, and periapical tissues. Lectures and lab exercises integrated with lectures and seminars in endodontics; attention to correlation of histopathology with therapeutic rationale and post-operative healing. Attention to the healing of wounds, particularly those of pulp and periapical tissues after therapy.
32 hours lecture, 64 hours lab, two semesters

DE 708A. Pulp Biology. Dr. Rubin
Designed to familiarize Endodontic graduate students with the continuous relationship of the vital pulp with tooth development behavior. In addition, discussion format acts as a stimulus to research thoughts in pulpal relationship to patient symptomatology.
32 hours, two semesters

DE 709. Periodontal Pathology. Drs. Ruben, Hodess, Schulman, Anapolle
Macro- and microscopic examination of normal and diseased periodontal tissues. Lectures presented also in techniques of histologic specimen preparation, histochemical tissue evaluation, wound healing, etc., in order to assure a complete understanding of periodontal tissues in health and disease. Stress on advanced concepts of periodontal and oral embryology, histology, ultrastructure, physiology, and pathology.
48 hours lecture and lab, two semesters

DE 709A. Periodontal and Oral Pathology. Drs. Ruben, Harris, Anapolle
Series of lectures and lab exercises in periodontal and oral pathology presenting advanced concepts in periodontal and related oral embryology, histology, physiology, and pathology. Detailed attention also to the structure, physiology, and pathology of the temporomandibular joint and masticatory musculature.
32 hours lecture and lab, sixteen weeks

DE 710. Periodontal Pathology. Drs. Ruben, Harris
Series of lectures and lab exercises for second-year students in Periodontology and Oral Pathology, presenting advanced concepts in periodontal and related oral embryology, histology, physiology, and pathology. Detailed attention also to the structure, physiology, and pathology of the temporomandibular joint and masticatory musculature.
32 hours, two semesters

DE 712. Oral Histopathology Laboratory. Dr. Goldman, Mr. Bloom
Lab program designed for the student of oral pathology which includes seminars and lab experience in the preparation of tissue specimens for macro- and microexamination.
384 hours, two semesters
DE 752. Physical Diagnosis.
Instruction for students in Oral Surgery in techniques of various bodily examinations, their interpretation, and subsequent collation for effective diagnosis and treatment of oral disease.
18 hours, two semesters

Dr. Boyer

DE 753. Surgery.
Introduction to basic surgical principles of diagnosis and treatment. Post-operative care of the surgical patient including current concepts of fluid and electrolyte balance, antibiotic therapy, and wound healing. Pre-operative evaluation of patient and diseases effecting surgical care discussed.
32 hours, two semesters

Dr. J. Fine

Discussion of oral manifestations of diseases of local and systematic origin as well as the systematic approach, utilizing laboratory, histological, and other aids, to their diagnosis and therapy. Lecture series includes such subjects as oral and dental malformations, infections, oral attributes of dermatologic lesions, the endocrinopathies, reaction of oral tissues to nutritional deviations, genetically derived diseases, etc.
32 hours, sixteen weeks

Drs. Ruben, Grots

DE 756. Clinical Surgery Seminars.
Discussions related to field of general surgery and applicability of its principles to practice of both hospital and office oral surgery. Illustrative areas of discussion: surgical infections, shock, coma, electrolyte and water balance, endocrine relationships, etc.
32 hours, two semesters

Dr. J. Fine

DE 757. Otolaryngology.
Lectures detailing principles of diagnosis and treatment of diseases of the ear, nose, and throat; specific emphasis on etiology and pathology and their oral and perioral manifestations.
32 hours, two semesters

Drs. Strong, Vaughn

DE 758. Clinical Surgery Conferences.
Students in Oral Surgery assigned to Boston Naval Hospital to receive instruction in areas of medicine, surgery, and dentistry which are intimately associated with diagnosis and therapy of oral surgical problems.
32 hours, two semesters

Staff

DE 759. Anesthesiology.
Systematic documentation of physiology and pathology of bodily systems associated with use of anesthetics, e.g., central nervous system, respiratory system, cardiovascular system, various anesthetic agents employed in office and hospital surgery, their pharmacologic action and technics of employment, adjunctive agents utilized to facilitate anesthesia, etc.
16 hours, first semester

Dr. Kripke

DE 759A. Anesthesiology.
Lectures and demonstrations in anesthesiology; specific orientation for students in Pedodontics.
16 hours, second semester

Dr. Kripke, staff

DE 760. Maxillofacial Prosthesis.
Lectures illustrated by slides of actual cases devoted to the indications and techniques for the prosthetic reconstruction of lost or damaged oral and facial tissues.
16 hours, first semester

Dr. Barron

DE 760A. Implant Prosthesis.
Rationale, indications, technique, postoperative appraisal of subperiosteal, unilateral, and full implant prostheses.
32 hours, first semester

Dr. Gershkoff
DE 761. Biostatistics.  
Dr. Stahl  
Methods of statistical analysis, their application to formulation of research protocols, and their use in interpretation of investigative and epidemiologic data.  
16 hours, second semester

DE 762. Pediatric Medicine.  
Dr. Kibrick, staff  
Lecture series devoted to discussion of diseases and lesions peculiar to the child and adolescent patient and their influences in the genesis, diagnosis, and therapy of oral diseases and deformities. Program especially related to the needs of postdoctoral students in Pedodontics and Orthodontics.  
32 hours, two semesters

DE 763. Occlusion.  
Dr. Kohn, staff  
Comprehensive discussion of development, structure, and physiology of the stomatognathic complex, occlusal concepts and analysis, and the pathologic occlusion. Rationale and technics of occlusal adjustment, control of habits, dental stabilization, and their relationship to the restoration of oral health presented in detail.  
48 hours, two semesters

DE 763A. Occlusal Waxing Laboratory.  
Drs. Nevins, Skurow  
Visual and dextrous realization of the didactic study of occlusion. Ideal and aberrant occlusions mounted and adjusted via selective grinding exercises.  
16 hours, 8 weeks

DE 764. Psychiatry.  
Drs. Cohen, R. Kahn, staff  
Lectures and demonstrations on the nature of human personality as a mechanism which serves to integrate various activities of the individual into a functional unit and adjustment of this unit to environmental stress. In the later phase of the course the psychoneurotic reactions and personality disorders taken up in systematic manner.  
32 hours, two semesters

DE 766. Special Lecture Series for Students in Pedodontics and Orthodontics.  
Staff  
Discussion of wide range of basic and clinical subjects applicable to the practice and teaching of these specialties. Included are lectures in anthropology, genetic psychology, basic and applied metallurgy, radiology, child psychology, physiology and pathology of speech, cleft-palate management, oral and maxillofacial surgery, and nutrition.  
Hours to be arranged

Dr. Feldman  
Lectures and demonstrations on principles of dental and oral radiographic technics and interpretation as necessary aids to diagnosis and treatment planning. Application of radiotherapy to oral disease amelioration and cure additionally emphasized.  
16 hours, second semester

DE 768. Clinical Pathology Conferences.  
Guest and staff seminarians  
Special lectures, seminars, and case presentations in which emphasis placed on the pathogenesis, correlated clinical and laboratory pathology, and treatment of oral and orally related diseases. Major attention given to subject of oral cancer. Lectures devoted to appropriate surgical, radiological, and chemotherapeutic treatment of this condition.  
Hours to be arranged

DE 769. Preventive Medicine.  
Dr. French, staff  
Lecture series stressing such subjects as (1) nature of the social and environmental factors responsible for initiation, dissemination, perpetuation, and modification of disease, (2) measures necessary to ameliorate, control, and minimize their impact upon
the individual and the community, (3) management and rehabilitation of patients with physical impairment, (4) nature and operation of public health agencies.

32 hours, two semesters

**DE 801. Oral Surgery.**

Lectures covering clinical and correlated radiographic and histopathologic aspects of oral deformities, fractures, and disease processes amenable to surgical therapy. The indications and applicability of various surgical technics for correction of oral lesions discussed in detail.

96 hours, two semesters

**DE 802. Oral Surgery.**

Seminars designed for detailed exploration and discussion of selected aspects of oral pathology and their ameliorative or corrective therapy. Pertinent literature references applied to these discussions.

64 hours, two semesters

**DE 803. Oral Surgery.**

Observational experience in small groups relative to oral surgical procedures in operating rooms of University Hospital and other affiliated hospitals.

24 hours, two semesters

**DE 804. Oral Surgery Laboratory.**

Participation in oral surgery procedures under operating room conditions performed on laboratory animals. Experience also secured in anesthesiology and operating room methodology.

96 hours lab, two semesters

**DE 805. Periodontology.**

Detailed study of the formation, clinical anatomy, microscopic structure, and physiology of the periodontium followed by discussion of the pathologic processes affecting their integrity. Attention to the etiology, epidemiology, and diagnostic essentials of periodontal disease. Second semester directed to discussion of the biologic bases of periodontal therapeutic modalities.

96 hours, two semesters

**DE 805A. Periodontology for Pedodontic Students.**

Special lecture series in periodontology for students in Pedodontics.

16 hours, second semester

**DE 805B. Periodontology.**

Special lecture series in periodontology for students in Orthodontics, Prosthetics, and Endodontics.

18 hours, second semester

**DE 806. Periodontology.**

Weekly seminars based on extensive literature readings in periodontology and related dental and basic services. Aim to provide the broad foundation necessary for practice and teaching. For first-year students.

90 hours, two semesters

**DE 807. Periodontology.**

Clinical periodontal practice emphasizing the elements of complete case documentation, patient evaluation and examination, diagnosis, prognosis, and treatment planning. Complete periodontal therapy performed under staff guidance. For first-year students.

204 hours, two semesters

**DE 808. Periodontology.**

Lecture series designed to present the concepts, criteria, and techniques relative to periodontal, diagnosis, prognosis, treatment planning, and therapy.

80 hours, two semesters
DE 809. Periodontology. Dr. Kramer, staff
Continuation of DE 806. Weekly literature seminars utilizing laboratory and clinical information emphasizing periodontal diagnosis, treatment planning, and therapy. For second-year students. 20 hours, two semesters

DE 809A. Treatment Planning Seminars in Periodontology. Drs. Nevins, Kramer, Skurow
Weekly case presentations followed by discussion of various alternatives in periodontal therapy and integrated dental disciplines. 120 hours, two semesters

DE 810. Periodontology. Dr. Kramer, staff
Continuation of DE 807. Advanced clinical instruction and participation; additional emphasis on variations in approach to periodontal treatment planning and therapy. 1200 hours, twelve months

DE 810A. Environmental and Presurgical Periodontology. Drs. Kramer, Nevins, Skurow
Presentation of those adjuncts to periodontal therapy that either preclude or precede periodontal surgery. Methodologies of achieving proper tooth position and stabilization are included; emphasis placed on plaque control. 70 hours, second semester

DE 811. Orthodontics. Drs. Gianelly, Nevins, staff
For students in Periodontology and Prosthetic Dentistry. 16 hours, second semester

DE 811A. Orthodontics. Drs. Drizen, Gamm
Emphasis placed on growth and development, cephalometrics, diagnosis and treatment planning, and the evaluation of the normal and abnormal conditions that exist in the primary, early mixed, and late mixed dentitions. For students in Pedodontics. 36 hours, two semesters

DE 811B. Orthodontics (clinic). Drs. Drizen, Gamm
Development of clinical expertise through practical application of principles developed in lecture and seminar. For students in Pedodontics. 960 hours, four semesters

DE 812. Orthodontics. Dr. Gianelly, staff
Lectures and seminars providing extensive background relative to analysis of dentofacial deformities, treatment planning, and therapy. 192 hours, four semesters

DE 813. Orthodontics. Drs. Gianelly, M. Bernstein, staff
Supervised clinical practice in orthodontics in out-patient orthodontic clinic. 1280 hours, four semesters and summer

DE 814. Endodontics. Dr. Schilder
Lectures detailing essentials of endodontic diagnosis, treatment planning, and therapy. Indications for non-surgical and surgical therapy emphasized as well as the correlation of these therapies to other phases of dentistry, e.g., periodontology, restorative dentistry. 160 hours, four semesters

DE 814A. Endodontics. Dr. Levin
Basic concepts of endodontics as they relate to the other specialty areas of dentistry; emphasis placed on pathology of pulp and periapical tissues. 30 hours, second semester

DE 815. Endodontics. Dr. Schilder, staff
Seminars based on intensive and comprehensive readings in the literature, covering each facet of endodontic diagnosis, prognosis, treatment planning, and therapy. 96 hours, four semesters
DE 816. Endodontics. Dr. Schilder, staff
Clinical participation in surgical and non-surgical phases of endodontic therapy; special
attention given not only to development of clinical facility, but also the application
of a therapeutic approach formed in consultation with the other dental specialties.
1110 hours, four semesters and summer

DE 817. Prosthetic Dentistry. Dr. Mori, staff
Lectures concerned with the indications, treatment planning, and technics for fixed
prosthodontics. Stress placed not only upon the elements of restoration of missing
teeth, but also on the planning and construction of periodontal prosthesis.
64 hours, two semesters

DE 818. Crown and Bridge. Dr. Mori, staff
Seminars based upon selected readings in the literature covering all elemental and
clinical aspects of prosthodontics and occlusion.
96 hours, four semesters

DE 819. Crown and Bridge. Dr. Mori, staff
Supervised clinical and lab practice in all phases of Crown and Bridge dentistry.
1920 hours, four semesters and summer

DE 820. Full Denture Prosthesis. Drs. Paraskis, Chapman, staff
Lectures and discussions relative to full denture prosthodontics. Detailed attention
given to oral analysis and treatment planning as well as to actual clinical technics
related to denture construction. Special problems considered. 32 hours, two semesters

DE 821. Full Denture Prosthesis. Dr. Paraskis, staff
Supervised clinical and lab experience in full denture prosthodontics.
800 hours, four semesters and summer

DE 822. Prosthetic Dentistry. Drs. Talkov, Mori, Baraban, staff
Continuation of DE 817 for second-year students in Prosthetic Dentistry. Advanced
didactic instruction in fixed prosthesis with additional presentations relative to periodontal prosthodontics.
64 hours, two semesters

DE 823. Prosthetic Dentistry. Drs. Talkov, Mori, Baraban, staff
Continuation of DE 818. Seminars in Prosthetic Dentistry for second-year students.
Hours to be arranged, two semesters

DE 824. Prosthetic Dentistry. Dr. Mori, staff
Advanced clinical participation in all phases of prosthodontics.
576 hours, two semesters

DE 825. Oral and General Pathology. Drs. Balogh, Goldman, Harris
Full year (July 1–June 30) in general pathology in the Department of Pathology, University
Hospital. Student serves as an interne in pathology, participating in gross necropsy
and diagnostic procedures. In addition, the student studies a registry of specimens in
oral pathology and is afforded opportunity to review daily surgical specimens in the
Department of Oral Pathology. Approximately 2000 hours, four semesters and summer

DE 826. Public Health Dentistry. Dr. Block, staff
Lectures and seminars in which student is made aware of his responsibility to the
individual patient and to the community in the prevention of dental and oral disease
and the maintenance of health, of the proper relationship between the private dentist
and public health agencies, and of the importance of social and environmental factors in disease prevention and health promotion. Consideration of epidemiology and preventive aspects of oral disease, oral hygiene, occupational dental diseases, rehabilitation dentistry, organized dental care, etc. 36 hours, second semester

Dr. Block, staff  
Seminars reviewing literature pertinent to public health dentistry; emphasis on problems associated with prevention and control of dental and oral disease.  
*Hours to be arranged, four semesters*

Dr. Frankl, staff  
Lectures and seminars on the theory and practice of pedodontics. Factors related to treatment planning and measures for the control of oral disease in children discussed in great detail.  
192 hours, four semesters

DE 829. Pedodontics.  
Dr. Frankl, staff  
Seminars devoted to a comprehensive review of the literature pertinent to prevention and control of dental and oral deformities and diseases in the child.  
*Hours to be arranged, four semesters*

DE 830. Pedodontics.  
Dr. Frankl, staff  
Supervised clinical and hospital experience in the total dental and oral care of the child and adolescent patient. Measures employed for caries control, maintenance of periodontal health, restoration of missing members of the dentition, and for the correction of oral and dentofacial deformities.  
Approximately 2000 hours, four semesters and summer

DE 831. Principles of Epidemiology.  
Staff  
Lectures on the principles, purposes, and methods of epidemiology. Laboratory exercises used to illustrate principles and methods of epidemiological investigations both of infections and noninfectious diseases.  
*Hours to be arranged, second semester*

DE 832. Public Health Administration.  
Dr. Block, staff  
Lectures introducing the field of public health and basic concepts essential to planning, organization, and administration of public health programs.  
*Hours to be arranged, second semester*

DE 833. Environmental Health.  
Staff  
Lecture course on physiological effects of the environment and their relation to health and disease. Topics: water supply and pollution, waste disposal, air pollution, radiation, food sanitation, and effects of physical factors in the environment.  
*Hours to be arranged, second semester*

DE 850. Special Lecture for Students in Periodontology.  
Visiting lecturers  
Variety of lectures in periodontology on highly specialized areas of study by prominent investigators.  
*Hours to be arranged, twenty-one months*

Selected preceptor  
Research in periodontology or its related preclinical sciences. Partial requirement for the Master of Science in Dentistry degree.

DE 931. Research—Orthodontics.  
Selected preceptor  
Guided investigation relative to the field of orthodontics or its related preclinical sciences. Partially satisfies the requirements for the Master of Science in Dentistry degree.
DE 941. Research—Endodontics.  
Selected Preceptor  
Approved research in endodontics or related sciences. Designed as a partial requirement for the Master of Science in Dentistry degree.

Selected preceptor  
Preceptored investigation in oral surgery or related preclinical sciences designed to fulfill one of the requirements for the Master of Science in Dentistry degree.

Selected preceptor  
Approved investigative effort partially satisfying requirements for the Master of Science in Dentistry degree. Research may involve preclinical and clinical subjects related to prosthetic dentistry.

DE 971. Research—Oral Pathology.  
Selected preceptor  
Required investigation, needed as a partial requirement for the Master of Science in Dentistry degree, conducted in a basic subject related to oral pathology and oral medicine. Where a clinical project is conducted, a preclinical correlation is necessary.

Selected preceptor  
Investigation necessary to satisfy requirement for the Master of Science in Dentistry degree; may include preclinical or clinical aspects of public health dentistry. In most instances an epidemiologic or biostatistical correlation is required.

Selected preceptor  
Guidance provided for investigation, which fulfills one of the requirements for the Master of Science in Dentistry degree. Research topic chosen from preclinical and clinical subjects associated with pedodontics.
Courses in Other Schools of the University

Courses in Medical School
Whenever it shall be deemed advisable, courses in the School of Medicine curriculum may be substituted for those in the School of Graduate Dentistry. These courses are in the preclinical sciences, e.g., microbiology, pathology, pharmacology, biochemistry. For further reference, see the School of Medicine bulletin.

Courses in the Graduate School
In addition to the Oral Biology Course (DE 702) listed previously, the following two courses are listed in the Graduate School (Arts and Sciences) Bulletin. These courses are taught at the School of Graduate Dentistry; qualified students may take them for credit.

Offered through the Division of Medical and Dental Sciences of the Graduate School:

SGD ME 784. Selected Topics in Nutritional Biochemistry. Dr. Fillios, staff
Prerequisite: SM ME 751 or equivalent. Examination of basic concepts in nutritional biochemistry and metabolism. Lectures deal with selected topics of current interest; emphasis on material pertinent to oral biology in the latter part of the course.
Second semester

SGD ME 882. Research Seminars in Oral Biology. Dr. Wells, staff
Selected topics on recent advances in various areas related to oral biology and dentistry.
Second semester
Herbert Schilder, D.D.S., F.I.C.D., F.A.C.D., Assistant Dean

A variety of short postgraduate courses are offered for the general practitioner and the specialist. They are intended to review the currently accepted concepts and procedures in the various branches of dentistry and to present the newer developments.

Any dentist who is a member in good standing of the American Dental Association or a similar or comparable group is eligible for enrollment in the courses in the Program for Continuing Education. Members are accepted in the order in which their applications are received.

The full tuition must accompany the application. It will be refunded if the applicant is not accepted or if the course is cancelled.

The School reserves the right to cancel any course, schedule additional courses, and modify the course content or the personnel of the teaching staff as may be deemed necessary or advisable.

The University housing facilities are not available for students in continuing education. A list of hotels conveniently located near the school will be provided upon request.

Special announcements are issued periodically.
Dental Auxiliary Program

A young woman who chooses dental assisting as a career becomes a part of a most honored profession. The dental profession has been continuously growing for many years, thus increasing its demand for the well-trained dental assistant.

The dental assistant has assumed an important role in the dental office due to the expansion of her duties. The responsibilities of the assistant are varied, ranging through a wide spectrum from office management to chairside assisting.

The program, accredited by the Council of Education of the American Dental Association, trains young women who intend to participate as auxiliary personnel in the dental profession. The training comprises one full year beginning the last week in June and ending the last week of the following June. A pertinent background in the basic sciences and all of the branches of dentistry is taught by lectures and demonstrations with charts, slides, and models. Clinical assisting experience in all aspects of dentistry is an integral part of the course. A unique opportunity is offered by this program since all of the didactic instruction is provided by specialists in each of the eight recognized specialties of dentistry.

Each student is rotated on assignments to the various clinical departments of the School of Graduate Dentistry. Other assignments include the operating rooms of the University Hospital and the Health Clinic of the Town of Brookline.

Students become proficient in the taking of radiographs and in all the assisting procedures involved in general dentistry: oral surgery, periodontics, endodontics, orthodontics, pedodontics, crown and bridge, and full and partial denture prostheses. Basic laboratory techniques are taught and experience is gained in general office procedures.

Upon successful completion of the course, the graduate is awarded a school cap and pin and a certificate making her eligible to apply for the examination conducted by the Certifying Board of the American Dental Assistants Association.

Requirements for Admission

1. Graduation from high school is required. Skill in typing is desirable. Courses in biology and/or chemistry are recommended.

2. An application for admission must be filed along with an official transcript of the high school scholastic record. Applications must be filed before March 15.
Application filed after this date will be processed only if there are openings left in the class.

3. A personal interview with the Director is required.

Further information about the program such as fees and other charges may be secured by writing to the Director of the Dental Auxiliary Program, Boston University School of Graduate Dentistry, 100 E. Newton Street, Boston, Massachusetts 02118.

Course Descriptions

PRECLINICAL SUBJECTS

DE 101. Gross Anatomy and Physiology. Dr. Papuga
Lectures on systems and functional activity of vital organs of the body. 15 hours

DE 102. Histology. Dr. Papuga
Lectures on general biological principles: cell structure, divisions, and vital functions. 10 hours

DE 103. Dental Anatomy. Dr. Papuga
Lectures on the development and anatomy of the teeth and their supporting structures. 25 hours

DE 104. Dental Materials. Dr. Allard
Lectures on the types, physical and working qualities, and clinical uses of materials used in dentistry. 20 hours

DE 105. Microbiology. Dr. Hoffman
Lectures on principles of transmittal of common diseases and principal microorganisms infectious to man. 20 hours

DE 106. Oral Hygiene and Preventive Dentistry. Dr. Eskow
Lectures on principles and procedures to follow in order to maintain healthy teeth and supporting structures. 6 hours

DE 118. Dental Terminology. Staff
Assignments and quizzes on glossaries of dental terms and the use of the medical dictionary. 6 hours

DE 201. Pharmacology. Dr. Hoffman
Lectures on pharmacological properties, therapeutic application, and toxicities of various medicaments commonly used in dental practice. 10 hours

DE 202. Oral Pathology. Drs. Harris, Pearlman
Lectures on structural and functional changes caused by various diseases in the oral cavity. Caries, pulpal, and apical pathology of the teeth and anomalies in growth and development as well as various lesions of the oral cavity and bone discussed. 8 hours

DE 203. Nutrition. Miss Cross
Lectures on the basic food groups and the elements needed for a well-balanced diet. 15 hours
DE 204. Oral Medicine.  
Description of the causation, clinical expressions, and treatment of lesions of the oral mucosa and jaws.  
Dr. R. Chaikin  
5 hours

DE 211. Dental Health Education.  
Lectures on education of the patient in good oral hygiene. Assignments in the preparation of educational materials.  
Miss Cross  
10 hours

DE 212. Ethics–Economics.  
Lectures on the history, ethics, and economics of dental assisting as related to the profession.  
Staff  
50 hours

CLINICAL SUBJECTS

Principles and techniques of intra-oral and extra-oral roentgenography. Demonstrations are important aspect of course.  
Dr. Hodess  
12 hours

DE 108. Operative Dentistry.  
Topics discussed include caries, cavity classification and preparation, restorative and impression materials, instruments, and techniques.  
Dr. Chaisson  
12 hours

Instrument and material. Sterilization techniques and their significance.  
Dr. Hoffman  
10 hours

DE 110. Endodontics.  
Lectures related to the diagnosis and treatment of pulpal disease and technique for root canal treatment.  
Dr. Rosenkranz  
12 hours

DE 111. Prosthetics.  
The principles and techniques of the fabrication of full and partial prosthetic restorations. Discussion of the significance of crown and bridge prosthesis. Included are the instrumentation, materials, making of dies, supplies, and laboratory procedures.  
Dr. Thiel  
12 hours

DE 112. Periodontics.  
The character of the supporting structures of the teeth in health and disease.  
Dr. R. Chaikin  
20 hours

DE 113. Orthodontics.  
Principles of orthodontics: prevention and correction of malocclusion.  
Dr. Tayer  
10 hours

DE 114, 214. Dental Assisting.  
Lectures on general dental assisting procedures  
Staff  
50 hours

DE 115, 215. Laboratory Instruction.  
Instruction and demonstrations of various laboratory procedures in prosthetic dentistry.  
Staff  
30 hours

Chairside assisting in the specialty clinics of the School of Graduate Dentistry.  
Staff  
1290 hours

Lectures and demonstrations of oral surgery procedures. General and local anesthesia used in dental procedures.  
Dr. T. Bethoney  
15 hours
DE 205. Pedodontics.
Techniques of dentistry as related to children. The psychology of the normal and exceptional child patient.

Dr. Kapala

10 hours

Role of dental team in public health field.

Dr. Block

10 hours

DE 211. Work Simplification.
Procedures to increase productivity of the dentist and his assistant, enhance quality of patient care, and reduce stress and tension in the dental office.

Dr. Sutton

6 hours

DE 217. Equipment and Instruments.
Care of different dental equipment and instruments.

Mr. Meehan

20 hours

RELATED SUBJECTS

DE 119. First Aid.
American Red Cross course.

10 hours

DE 120. Modes, Manners, and Morals.

Mrs. Fitzgerald

6 hours

DE 207. English.
Fundamentals of business and professional English with added emphasis on grammar and diction.

Prof. Cohen

15 hours

General dental bookkeeping, daily records, case histories, appointment management, recall systems, and billing.

Dr. Altshuler

20 hours

Instruction in bank deposits, withdrawals, and statements.

Staff

5 hours

DE 210. Special Lectures Series.
S.G.D. staff and guest lecturers
(1) Ethics, (2) Telephone Department, (3) Equipment Care, (4) Operating Room Techniques.

DE 220. Typing.
Introductory course designed for those students without previous instruction and experience.

15 hours
Boston University

FOUNDED 1839; CHARTERED 1869 AS TRUSTEES OF BOSTON UNIVERSITY

Calvin B. T. Lee, Acting President of the University
Everett Walters, Senior Vice President and Dean of Faculties
James H. Baker, Vice President for Public Affairs
Joseph Kiebala, Jr., Vice President for Business Affairs
Lewis H. Rohrbaugh, Vice President for Medical Affairs and Director of Boston University Medical Center

College of Liberal Arts: A.B. degree in arts and sciences; six-year liberal arts-medical education program.
Division of General Education: An integrated two-year program in liberal studies.

William J. Newman, Acting Dean, 725 Commonwealth Avenue

College of Business Administration: Undergraduate and graduate degrees of B.S. in B.A. and M.B.A. in business administration.
John S. Fielden, Dean, 685 Commonwealth Avenue

Sargent College of Applied Health Professions: Undergraduate and graduate degrees of B.S. and M.S. in health dynamics, occupational therapy, and physical therapy.
George K. Makechnie, Dean, University Road

College of Engineering: B.S. degree with curricula in aerospace, biomedical, manufacturing, and systems engineering. Graduate programs for M.Eng. and M.S.
Arthur T. Thompson, Dean, 110 Cummington Street

College of Basic Studies: Two-year program in general liberal education.
Horatio M. LaFauci, Dean, 871 Commonwealth Avenue

Metropolitan College: Evening, late afternoon, and Saturday morning courses leading to certificates and B.L.S., B.A.S., M.L.S., and M.U.A. degrees.
Hubert S. Gibbs, Dean, 755 Commonwealth Avenue

School of Theology: Degrees of Th.M., M.S.M., S.T.M., and Th.D. Open only to college graduates.
Walter G. Muelder, Dean, 745 Commonwealth Avenue

School of Law: Graduate degrees of J.D. and L.L.M.
Paul M. Siskind, Dean, 755 Commonwealth Avenue

School of Medicine: Courses leading to M.D. degree.
Henry J. Bakst, Dean, 89 East Concord Street

Jack R. Childress, Dean, 765 Commonwealth Avenue

School of Social Work: Graduate training in professional social work for M.S. in S.S. degree.
Joseph F. Meisels, Dean, 855 Commonwealth Avenue

Edwin E. Stein, Dean, 855 Commonwealth Avenue

School of Nursing: Undergraduate and graduate degrees of B.S., M.S., C.A.G.S., and D.N.Sc. in nursing and nursing education.
Irene S. Palmer, Dean, 635 Commonwealth Avenue

School of Public Communication: Undergraduate and graduate degrees of B.S. and M.S. in public relations, journalism, broadcasting, and film. Graduate program in communication research.
Gerhart D. Wiebe, Dean, 640 Commonwealth Avenue

School of Graduate Dentistry: Graduate degrees of C.A.G.S., M.S.C.D., and D.Sc.D. Postgraduate courses for practitioners; program in dental assisting for women.
Henry M. Goldman, Dean, 100 East Newton Street

Graduate School: Courses leading to the degrees of A.M. and Ph.D.
Philip E. Kubzansky, Dean, 705 Commonwealth Avenue

Summer Term: Beginning in May and continuing for twelve weeks, divided into two sessions of six weeks each. Courses leading to degrees offered by the University.
Robert W. Sherburne, Director, 685 Commonwealth Avenue