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Sarah Doyle, Editor
Carol Noble, Bulletins Editor

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For information and a bulletin, write to Boston University, PO Box 886 (graduate), or PO Box 887 (undergraduate), Boston, MA 02215. Bulletins are available for the following schools and programs:

School for the Arts
Graduate Program in Banking Law Studies
College of Basic Studies
College of Communication
School of Education
College of Engineering
Goldman School of Graduate Dentistry
Graduate School, Arts and Sciences
Graduate Tax Program
School of Law
School of Management
School of Medicine
Metropolitan College
School of Nursing
Overseas Programs
School of Public Health
Sargent College of Allied Health Professions
School of Social Work
Summer Term
School of Theology
Undergraduate Programs

Degree and Certificate Programs
Boston University has sixteen schools and colleges and one independent program offering the degree and certificate programs listed below.

School for the Arts
BFA, MusB, MFA, MusM, MusAD

College of Basic Studies
2-year nondegree program

College of Communication
BS, MS

Goldman School of Graduate Dentistry
MS, MScD, CAGS, DScD, DMD

School of Education
BS, MAT, EdM, CAGS, EdD

College of Engineering
BS, MEng, MS

Graduate School
MA, PhD

School of Law
JD, LLB

College of Liberal Arts
BA

School of Management
BSBA, MBA, MSM, DBA

School of Medicine
MPH, MD

Metropolitan College
AS, BLS, BS, MCJ, MCP, MLA, MLS, MS, MSBA, MUA

School of Nursing
BS, MS, DNSc, CAGS

Sargent College of Allied Health Professions
BS, MS, MSOT, MSPT, CAGS, DSc

School of Social Work
MSW

School of Theology
MDiv, MSM, MTS, STM, DMin, ThD

University Professors Program
BA, MA, PhD

Cover: Dr. Paula Friedman demonstrates patient management to junior students Kevin Taylor, Cheryl Worrel, Margaret Jones, and Catherine Cech (in chair).

Credits: Cover photo and photos on pages 1 and 26 by Brad Herzog. Photos on pages 2, 3, 10, 11, 14, 27, 29, and 41 by Bruce Spector.
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Semester I 1985

July
1 Mon Program begins for entering Oral and Maxillofacial Surgery residents.
4 Thu Holiday. Classes/clinics suspended.

August
15 Thu Registration and orientation for Orthodontic residents.
19 Mon Program begins for Dental Assistant students.
21 Wed International Postdoctoral Student Orientation Program through September 4.

September
2 Mon Holiday: Labor Day. Classes/clinics suspended.
3 Tue Orientation: First-year predoctoral students at the School of Medicine. Classes/clinics begin for second-, third- and fourth-year predoctoral students.
5 Thu Classes begin for first-year predoctoral students.
5 Thu Orientation: Postdoctoral Program, through September 6.
6 Fri Registration: All students.
9 Mon Classes/clinics begin for Graduate and Postdoctoral Programs; core curriculum courses begin.

October
14 Mon Holiday: Columbus Day. Classes/clinics suspended.

November
11 Mon Holiday: Veterans Day. Classes/clinics suspended.
27 Wed Thanksgiving recess begins at 1:00 p.m. for first-year predoctoral students, 5:00 p.m. for postdoctoral students. Through December 1.

December
20 Fri First semester ends at 5:00 p.m. for all students.

Semester II 1986

January
6 Mon Classes/clinics resume for second semester.
7 Tue Registration: All students.
20 Mon Holiday: Martin Luther King Day. Classes/clinics suspended.

February
17 Mon Spring recess for sophomore, junior, and senior predoctoral students, through February 23.

March
24 Mon Spring recess for freshmen students, through March 30.

April
21 Mon Holiday: Patriot’s Day. Classes/clinics suspended.
22 Tue Sophomore students begin clinic.

May
16 Fri Classes/clinics end for graduating predoctoral students.
18 Sun University Commencement.
26 Mon Holiday: Memorial Day. Classes/clinics suspended.

June
1 Sun Commencement for Dental Assistants.
6 Fri Second semester ends for freshmen predoctoral students.
27 Fri Second semester ends for junior predoctoral students and graduating Orthodontic, Oral Surgery, Prosthodontic, and Periodontology students.

July
4 Fri Holiday: Independence Day. Classes/clinics suspended.

Students observing religious holidays on which classes are scheduled will be given ample opportunity to make up their work; faculty members who wish to observe religious holidays will arrange for another faculty member to meet with their classes or for canceled classes to be rescheduled.

The academic calendar is subject to change.
# Degree and Certificate Programs

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| BA/DMD             | Liberal Arts/Dental Medicine  
                       [offered with College of Liberal Arts] |
| **Postdoctoral**   |            |
| CAGS               | Dental Public Health  
                       Endodontics  
                       Operative Dentistry  
                       Oral and Maxillofacial Surgery  
                       Orthodontics  
                       Pediatric Dentistry  
                       Periodontology  
                       Prosthodontics |
| MSD                | Dental Public Health  
                       Endodontics  
                       Operative Dentistry  
                       Oral and Maxillofacial Surgery  
                       Oral Biology  
                       Orthodontics  
                       Pediatric Dentistry  
                       Periodontology  
                       Prosthodontics |
| DSc                | Dental Public Health  
                       Endodontics  
                       Operative Dentistry  
                       Oral and Maxillofacial Surgery  
                       Oral Biology  
                       Orthodontics  
                       Pediatric Dentistry  
                       Periodontology  
                       Prosthodontics |
| **Graduate**       |            |
| MS                 | Dental Public Health  
                       Nutritional Sciences |
| DSc                | Nutritional Sciences |
| PhD                | Dental Science [offered through the Graduate School Division of Medical and Dental Sciences] |
| **Undergraduate**  |            |
| AS                 | Dental Assisting [offered with Metropolitan College] |
| Certificate        | Dental Assisting |
Dean's Message

The profession of dentistry offers greater challenges today than in any decade of its history. As science and technology provide us with new diagnostic tools and new materials and medicine, we are increasingly able to deliver better health care to our patients. In addition, we have become educators in our communities, informing people of their options and addressing not only the issue of oral health, but also a vision of physical well-being of which dentistry is an important component.

Changing social, economic, and demographic patterns have affected and will continue to affect the way we promote and practice dentistry. Community outreach and professionalism responsive to the needs of society represent ongoing concerns, as does the vital continuation of high ethical standards.

The Goldman School of Graduate Dentistry provides an ideal synthesis of the best biological and clinical training with the highest regard for human services. The School's graduates become leaders in the field — professionals who stimulate the growth of the profession and who are, in turn, enhanced by it.

Part of a great University, the School of Graduate Dentistry is proud to uphold a long tradition of excellence.

Spencer N. Frankl
Dean

The Goldman School of Graduate Dentistry.
The Goldman School

The Henry M. Goldman School of Graduate Dentistry, established as part of Boston University Medical Center in October 1963, provides predoctoral education leading to the DMD degree and postdoctoral education in the following specialties:

- Oral and Maxillofacial Surgery
- Orthodontics
- Periodontology
- Endodontics
- Pediatric Dentistry
- Prosthodontics
- Oral Pathology
- Dental Public Health

The School has also instituted advanced education programs in operative dentistry, nutritional sciences, oral biology, and general practice.

The School provides both the training necessary for clinical specialization in dentistry and the education for prospective teachers and investigators in the clinical disciplines and related basic sciences.

The School's faculty stresses a direct relationship between the predoctoral and postdoctoral phases of dental education.

Faculty members and graduate and undergraduate students work together to create a mutually beneficial environment. Traditionally, students of the School have become clinically proficient, prevention- and people-oriented dentists and dental specialists, professionals capable of making a full contribution to the health needs of their patients. For this reason, the School places strong emphasis on each student's responsibility to be prepared to meet the needs of the community in which he or she will serve.

Accreditation

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

The Goldman School is accredited by the Commission on Dental Accreditation of the American Dental Association.
Extramural Programs

An important part of the predoctoral program is the six-week extramural experience during the senior year. The Goldman School recognizes that the practice of dentistry requires skills that go beyond those learned in dental school classrooms and clinics. To enable students to acquire these skills in a practical setting, the Goldman School requires the six-week Extramural Program. This gives the senior predoctoral student experience in a primary care setting outside the School. Students select one extramural site from Veterans Administration hospitals, public health clinics, major medical centers, and Coast Guard stations across the country. The type of experience varies from site to site according to the population being served. Students strengthen their skills in clinical diagnosis, treatment planning, patient and practice management, and emergency care.

Present extramural sites are:

- Brighton Marine Public Health Center, Brighton, MA
- Brookside Park Family Life Center, Jamaica Plain, MA
- New Hampshire Hospital, Concord, NH
- Rhode Island Hospital and J. Samuels Dental Clinic, Providence, RI
- Veterans Administration Center, Boston, MA
- Veterans Administration Center, Togus, ME
- Uphams Corner Community Health Center, Boston, MA
- US Coast Guard Stations:
  - Alameda, CA
  - Aguadilla, PR
  - Boston, MA
  - Cape May, NJ
  - Governor’s Island, NY
  - Honolulu, HI
  - Kodiak, AK
  - Long Beach, CA
  - New London, CT
  - Petaluma, CA
  - Portsmouth, VA
  - Yorktown, VA
Predoctoral Program

Doctor of Dental Medicine

The DMD predoctoral program prepares students for the modern practice of dentistry, with emphasis on prevention and early detection of dental disease, development of working relationships with other health professionals, use of auxiliary dental personnel, and alternatives to traditional modes of health care delivery.

Through this program, students develop a spirit of inquiry that enables them to question what they know and do, and that leads them to seek better ways to promote and preserve oral and general health. Students learn to see dentistry in a social context and to recognize their responsibility toward patients and community.

Students study basic human biology before acquiring in-depth knowledge of the biology of the oral cavity. Classroom, laboratory, and clinical experiences prepare students to diagnose and treat general dental conditions. An appreciation for and lasting interest in health-related research is encouraged.

Students gain the competence to organize and administer a practice, and learn the effective use of auxiliary dental personnel.

DMD Plan of Study

The DMD program requires four years of study, the first consisting primarily of basic science instruction in conjunction with the School of Medicine. Dental School courses in preventive dentistry, dental anatomy, occlusion, and oral biology are introduced in the first year.

The second year begins with a continuation of the basic sciences. Instruction in dental sciences commences midway through the first semester and continues throughout the year. The primary emphasis in this year is the teaching of preclinical skills. During the second semester, students are gradually introduced to the clinic, doing examinations and taking impressions of one another's teeth, and progressing to simple dental procedures on patients.

The third and fourth years of study emphasize clinical dental practice, with increasing exposure to the specialty areas of dentistry. Students receive experience in using auxiliary dental personnel. While most of this period is spent in clinics and operating rooms within the Goldman School and its affiliated institutions, students also have direct experience in community-based clinics. Students provide dental care for special-needs children, carry out dental procedures requiring general anesthesia, and manage patients with systemic diseases.

In the fourth year, the course of study becomes more flexible, allowing students some freedom in choosing electives. The School believes that an effective educational program combines required and elective course work and selective extramural and clinical experiences. Students not only to master the information and acquire the skills basic to a career in dentistry, but also gain the opportunity to explore more fully those areas related to their interests and goals.

The plan of study is developed by the Curriculum Committee and undergoes constant revision to meet the high academic standards of the School. As society changes, so too does the academic program of the dental school, to reflect these changes. This bulletin describes the courses as they exist as of May 24, 1985, but curriculum revision can occur throughout the year.

Advanced Standing Program

Students of an accredited dental school or graduates of an international equivalent are eligible to apply for admission to the DMD degree program with advanced standing. Interested parties should write to the Admissions Officer, Henry M. Goldman School of Graduate Dentistry, 100 East Newton Street, Boston, MA 02118, for an application. There is a $35 application processing fee.

Applicants must have successfully completed the National Board Examination, Part I. It is also recommended that applicants complete Part II prior to admission.

Applicants whose credentials are acceptable to the Committee on Admissions (Advanced Standing) may be requested to take bench and written tests administered at the School. A personal interview is required.

Applicants who are accepted are placed in the appropriate class. A student can usually anticipate a course of study lasting two years, although greater acceleration is possible.

Admission

The DMD program of Boston University's Goldman School is a participant in the American Association of Dental Schools Application Service (AADSAS). Once the applicant has received a copy of the application materials prepared by the service and verified their accuracy, all subsequent communications regarding admission are made directly with the individual dental schools. All applications must be processed through this service. For students whose native language is not English, proficiency is expected. The curriculum does not provide for remediation of language deficiencies.

AADSAS Application Request Cards may be obtained from the Office of the Director of Predoctoral Admissions of the Goldman School, from college preprofessional advisers, or by writing to AADSAS, PO Box 4000, Iowa City, Iowa 52240.

Upon receipt of the Application Request Card, AADSAS will forward application forms and descriptive material, including the application procedures specific to Boston University.

An application fee of $35 should be remitted by check to Boston University when the application is submitted to AADSAS.

Candidates are not accepted for admission to the DMD program before December 1 of the academic year prior to the year of matriculation. Accepted applicants are required to remit an initial deposit of $1000 toward the first year's tuition within three weeks following notification of their acceptance.

Application fees and acceptance deposits are nonrefundable.

Decisions and policies regarding admission into the DMD program are made by the Predoctoral Admissions Committee, composed of faculty and students.

The Admissions Committee considers those students who are in good standing or who are graduates of colleges listed as approved in the Higher Education Directory published by the Office of Education of the U.S. Department of Health and Human Services. The Committee selects students who, in its best judgment, have the capacity for success in the study of dentistry. This judgment is based on an evaluation of all available and significant information. Selection is made without reference to race, reli-
gion, sex, residence, or financial need. Women and minority students are encouraged to apply.

The Committee evaluates applicants who have completed four years of college and will be awarded a baccalaureate degree prior to matriculation.

Course Requirements The Committee recommends that, as part of their preprofessional training, candidates have completed the following suggested courses or their equivalents.

**Biology** One and one-half years (12 semester hours). Courses in basic biology, genetics, embryology, and molecular biology are strongly recommended.

**Chemistry** Two years (16 semester hours). A sound understanding of the basic principles of inorganic and organic chemistry is required. It is recommended that the 16 semester hours be divided equally between the inorganic and organic areas.

**Physics** One year (8 semester hours). Students should learn the general principles of physical laws and phenomena, mechanics, light, heat, sound, electricity, and radiation are recommended.

**English** Two years (12 semester hours). Two years or the equivalent at the college level are suggested, even if advanced credit was received on entry into college.

**Mathematics** One year (6 semester hours). A basic understanding of calculus is required.

**Social sciences** Three years (18 semester hours). The Committee strongly recommends that the applicant's curriculum includes courses in psychology, humanities, sociology or anthropology, and economics.

The Dental Admission Test is a requirement for admission and should be taken no later than October of the year prior to admission.

**Personal interviews** are required.

Every effort will be made by the Committee to arrange meetings convenient to the candidate.

**Recommendations** An important part of an applicant's credentials is the appraisal made by members of his or her college faculty. If the college has a predoctoral or premedical advisory committee, its composite evaluation is required. In the absence of such a committee, the School requires three evaluations by senior faculty members, at least two of whom should be in a science department.

### Evaluation of Academic Performance

Promotion Committees consider all matters related to promotion, recommendations for honors, and special achievements as well as recommendations related to academic probation, suspension, dismissal, and requests for withdrawal or leave of absence for those students enrolled in the predoctoral (DMD) program.

Student work is graded as "A" (excellent), "B" (good), "C" (fair), "D" (poor), "I" (incomplete), or "F" (failure). The first three grades represent passing performance; D represents marginally satisfactory but passing performance; and F represents failure.

Any student receiving an incomplete must remove the deficiency within one year; otherwise the deficiency will be recorded as a failure.

Student promotion requires satisfactory completion of all requirements, both clinical and didactic, and the maintenance of professional ethical standards. Student performance shall be evaluated according to the conditions described in the School's Clinical Manual. Any student who wishes to withdraw from the School must request permission in writing from the Dean. Withdrawal without first requesting the Dean's permission can result in automatic dismissal.

### Curricular

The courses comprising the DMD program of study are described below.

#### First-Year Curriculum

**Anatomy** Although the anatomy is treated in its broadest aspects, emphasis is placed on points of clinical importance. Morphology is learned by dissection and from films, Basset's Atlas, demonstrations, and lectures. Surface anatomy, embryology, and radiologic anatomy are presented to reinforce and correlate the morphologic studies. Internists, surgeons, gynecologists, and urologists teach the anatomy of their specialties. During the study of the head and neck, dentists, ophthalmologists, and otolaryngologists instruct students in the examinations of the oral cavity, eye, ear, nose, and throat. Dr. McNary and staff. 164 hours, 1st and 2nd sem.

**Biochemistry** The nature of the chemical processes that occur in the living cell, emphasis on enzymes and on the functions of the nucleus, mitochondria, and microsomes in metabolism. Biochemistry applied to clinical experience, genetics, immunohemistry, and radiation. Drs. Oppenheim, Troxler, and staff. 105 hours, 1st sem.

**Histology** Microscopic anatomy of cells, tissues, and organs. Emphasis on the relation of structure to function and on recent advances in histology and electron microscopy. Slide collections provided. Dr. Vaughn and staff. 102 hours, 1st sem.

**Oral Biology I and II** A comprehensive consideration of the embryology, microscopic and macroscopic structure, and functional relations of the orofacial complex. Material from the other basic sciences is expanded and related to the oral cavity. Emphasis is on the normal state of oral health. The concepts significant to dental research are introduced. Dr. Oppenheim and staff. 43 hours, 1st & 2nd sem.

**Neurosciences** This course deals with the anatomy and physiology of the nervous system. Clinical correlations are used to show the effects of lesions. The aim of the course is to give the student an integrated view of the nervous system. In anatomical practical classes, the human brain is dissected and the positions of some of the major pathways are demonstrated using sections of the brain stem and spinal cord. The cytoLOGY of neurons is studied. There are also demonstrations of some aspects of neurophysiology and neurophysiology is reviewed in a tutorial setting. Dr. A. Peters and staff. 120 hours, 2nd sem.

**Physiology** Physiology of cells, tissues, organs, and integrated body functions. Physiological basis for the understanding of clinical conditions. Small group discussions promote active participation of students. Lab exercises in physiological observation and measurement are supplemented with animal experimentation and demonstration. Dr. Kaminetz and staff. 150 hours, 2nd sem.

**Epidemiology/Biostatistics** The course and related reading materials illustrate descriptive, analytic, and experimental methods of epidemiology. Principles of epidemiology are applied to disease states. Biostatistics, logic, and procedural details of experimentation in medical and dental science, including biologic measurement, data description and summary, statistical inference, comparison, association among variables, and principles of experimental design. Dr. Colton, Kayne, and staff. 27 hours, 2nd sem.

**Endocrinology** An integrated approach to endocrinology and reproduction covering histological, physiological, and biochemical features and events. Hormone-producing organs, stimulatory events, biosynthetic routes, transport, physiological effects, feedback control, mechanism of action, and metabolic transformations as well as histologic changes in end organs. Hormonal aberrations and their end results in humans presented in clinical correlations. Sex, reproduction and
Biomaterials An in-depth consideration of the physical and chemical properties of materials related to the practice of dentistry; their uses, handling, and biologic effects. Dr. Nathanson. 31 hours, 1st & 2nd sem.

Preventive Dentistry An introduction to the basic concepts of preventive dentistry including an understanding of the etiology and epidemiology of dental caries, periodontal disease, and oral cancer. Included in instruction are fluoride modalities, pit and fissure sealants, oral prophylaxis, nutritional counseling, and oral cancer detection. Format is both lecture and clinical laboratory. Ms. Mann and staff. 28 hours, 2nd sem.

Dental Anatomy A lecture and laboratory course introducing normal tooth morphology and the anatomy and occlusion of the healthy dentition. The lecture and laboratory tooth carving exercises are foundations for second-year restorative dentistry courses. Dr. Welz and staff. 110 hours, 2nd sem.

Second-Year Curriculum

Microbiology Bacteriology, parasitology, virology, mycology, and immunology prepare students for a detailed study of infectious diseases, general characteristics of pathogenic bacteria, viruses, rickettsiae, and fungi causing infections in humans. Considerable time devoted to the genetics and physiology of microorganisms at a molecular level. Lab instruction covers the elements of bacteriological and immunological technique and observation of the characteristic properties of common microorganisms including their biochemical activity and genetics. Important diseases caused by animal parasites; special attention to those of importance in the US and its possessions. Dr. Moellen and staff. 77 hours, 1st sem.

Pharmacology General principles of drug action in the body and toxicology of drugs presented in lectures, conferences, and lab. Particular attention to drugs of abuse. Extensive use of clinical pharmacologic data emphasizes the quantitative and comparative aspects of pharmacology and facilitates development of skills important for critical evaluation of data pertaining to drugs. Dr. Estes and staff. 124 hours, 1st sem.

Pathology (General) Core curriculum dealing with fundamental mechanisms and general principles of pathology. Didactic sessions largely comprised of lectures, gross and microscopic laboratories, seminars, clinicopathologic conferences, and multidisciplinary seminars. Microscopic study of slides and review of x-rays concerns both clinical and anatomic changes. Dr. Gottlieb and staff. 84 hours, 1st sem.

Biology of Disease Lectures, case presentations, and demonstrations illustrate the relationships between the pathological processes of disease and their clinical manifestations. Presentations by members of the faculty representing concerned disciplines. Dr. Thomas and staff. 56 hours, 1st & 2nd sem.

Oral Biology The second-year course in Oral Biology expands on concepts introduced in the first year. Emphasis is on the discussion of specific oral structures and functions, and an introduction to the biology of oral disease-states. Dr. Oppenheim and staff. 37 hours, 1st & 2nd sem.

Radiology A comprehensive presentation of radiology in its four basic aspects: radiation physics, radiation biology, radiographic techniques, and technology and radiographic interpretation. Didactic, clinical, and lab instruction. Dr. Boush or staff. 20 hours, 1st & 2nd sem.

Periodontology Clinical and microscopic characteristics of the periodontium in healthy and diseased states. Definition of factors which initiate, perpetuate, and modify the diseased condition. Dr. Polons and staff. 64 hours, 1st & 2nd sem.

Oral Diagnosis Instruction in the systemic background of oral diseases and the effect of oral disease on total patient health. Patient history taking techniques; comprehensive patient examination; use of diagnostic aids and tests; and formulation of treatment plans. Dr. Boushany and staff. 22 hours, 2nd sem.

Orthodontics Orofacial growth and development, and an introduction to the concepts and practical aspects of orthodontic diagnosis and treatment. Dr. Arena. 13 hours, 2nd sem.

Preclinical Operative Dentistry Comprehensive introduction to intracoronal tooth restorative systems in a laboratory environment. Includes amalgam, cast gold, com­ pacted gold, and bonding materials. Drs. Kelleher, Colella, and staff. 276 hours, 1st & 2nd sem.

Preclinical Fixed Prosthodontics A comprehensive introduction to extracoronal full-coverage tooth restoration systems. Both single-tooth crowns and multiple-tooth bridgework are taught in a laboratory environment. Dr. Welz and staff. 192 hours, 1st & 2nd sem.

Preclinical Removable Prosthodontics A comprehensive laboratory introduction to the fabrication of removable denture prostheses. The first part of the course focuses on complete dentures, the latter part teaches the design and fabrication of partial dentures. Dr. Emerling and staff. 168 hours, 1st & 2nd sem.

Preclinical Pedodontics/Orthodontics A comprehensive laboratory introduction to the techniques of pediatric dentistry and orthodontic techniques. Includes the technical aspects of restorative dentistry space mainten­ ance, cephalometric analysis, and orthodontic tooth movement. Drs. Bouts and staff. 52 hours, 2nd sem.

Clinical Orientation to Patient Care A clinic preparatory course applying material from didactic and clinical courses into a unified approach to patient diagnosis, treatment planning, and management in a clinical setting. Dr. Whitman and staff. 57 hours, 2nd sem.

Third-Year Curriculum

Ethics and Law An examination of professional ethics as they relate to the dentist's relationships to peers, patients, and the community. Discussion of professional malpractice laws and the judicial system as relates to professional liability. Drs. Jong and Beal. 8 hours, 2nd sem.

Dental Care Perspectives Overview of social, political, and economic issues in the dental profession today. Preventive dentistry, community dental health, dental economics, health care delivery, and current legislation, regulations, and planning policies affecting dentistry. Ms. Mann, Dr. Jong, and staff. 10 hours, 2nd sem.

Oral Pathology Prepares the student to recognize, analyze, and appreciate primary and secondary disease conditions of the oral and para-oral regions present in patients under his or her care, and to respond to an appropriate manner when these conditions appear. The curriculum emphasizes the understanding of basic and fundamental biologic aberrations. Concepts are integrated these concepts into a meaningful approach to diagnostic clinical oral pathology, with an appreciation for the therapeutic indications, approaches, and alternatives. Dr. Richardson. 56 hours, 1st & 2nd sem.

Periodontology Building on the concepts presented in the second year, emphasis is placed on the diagnosis and clinical management of periodontal disease, including the principles and techniques of periodontal surgery. Dr. Polons and staff. 35 hours, 1st & 2nd sem.
Psychological Considerations for the Dentist  Introduction to stress management in the health professional, as well as to the variety of behavioral and psychological considerations in the care and treatment of dental patients. Dr. Raman. 15 hours, 1st & 2nd sem.

Endodontics  Provides the dental student with a clear understanding of the biologic foundations of the pulp and periapical disease. Students learn to: (1) relate clinical signs and symptoms to underlying tissue pathology, (2) determine a prognosis derived from the assessment of all factors—endodontic, periodontic, prosthetic, and systemic; and (3) institute appropriate treatment with retrospective critique. The above form the basis for endodontic expertise expected of the graduating dental student. Lecture and laboratory. Dr. Richardson. 67 hours, 1st sem.

Oral Surgery  An introduction to the basic concepts and techniques of tooth removal as well as minor and major oral surgical problems. A section of this course introduces the student to the principles of hospital dental practice. Dr. Kilgore and staff. 50 hours, 1st & 2nd sem.

Orthodontics  A continuation of the basic concepts presented in the second year, with emphasis on the diagnosis and treatment of specific orthodontic problems. Dr. Arena. 27 hours, 1st sem.

Physical Diagnosis  Intended to train dental students in the recognition of clinical abnormalities and thereby appreciate the full scope of the patient evaluation process. By acquiring a basic understanding of procedures designed to elicit signs and symptoms common to many disease procedures, the student will not only enhance inter-professional communication skills, but will also broaden the range of basic knowledge used in making clinical judgments regarding various types of dental patients. Dr. Haltom. 26 hours, 2nd sem.

Oral Diagnosis  Expands upon the foundation laid in the sophomore course. Stress is placed on the diagnosis and comprehensive treatment planning of specific clinical problems. A clinical case presentation format is used. Dr. Friedman and staff. 36 hours, 1st & 2nd sem.

Pediatric Dentistry  Oral health problems during development and growth of the orofacial structures of the child and adolescent. Training in patient management, preventive and restorative dentistry, treatment of traumatic dental injuries, minor tooth movement, and dental procedures related to growth of the stomatognathic system. Dr. Bourassa and staff. 36 hours, 1st & 2nd sem.

Periodontology  Emphasis is placed not only on treating the patient's existing periodontal disease, but also on maintaining the patient's overall normal periodontium in a state of health through patient education. Dr. Polins and staff.

Fixed Prosthodontics  The diagnosis of patients with missing dental units amenable to fixed prosthetic restorations, design of prostheses, and fabrication of the fixed single unit or multiple unit prosthesis. Treatment integrated with periodontology and other restorative departments. Dr. Garvey and staff.


Preventive Dentistry  Clinical rotations in the school's Prevention Center treating new patients or patients returning for periodic recall. Emphasis is on preventive dentistry, patient management, and practice management. Dr. J. Peters and staff.

The following courses are part of the Comprehensive Care Clinical Curriculum in years 2-4:

Operative Dentistry  Individual intracoronal restorations including amalgam restorations, cast and compacted gold, and composite resin restorative systems. Emphasis is placed on coordinating restorative treatment with the patient's overall dental needs. Dr. Chaissone and staff.

Removable Prosthodontics  The diagnosis of fully and partially edentulous mouths; design and fabrication of complete and partial denture appliances. Dr. Emerling and staff.

Endodontics  The diagnosis and treatment of pulpal and periapical pathology requiring endodontic intervention. Dr. Richardson and staff.

Clinical Rotations  The following clinical courses are taught as part of a special assignment or block rotation:

Oral Surgery  Clinical rotations in the oral surgery clinic, with practical training in endodontia and minor oral surgical procedures. The student has the opportunity to observe patients with complex surgical problems. Dr. Kilgore and staff.

Operative Dentistry  Detailed study of the proper diagnosis, treatment plan, and technique for fixed prosthetic appliances. Sequential consideration of approaches to therapy suitable for various pathologic states, and the differential diagnosis required for the individual patient. Stress on the integration of periodontal and endodontic considerations that may affect the final prosthetic appliance. Dr. Garvey and staff. 36 hours, 1st & 2nd sem.

Periodontology  Emphasis is placed not only on treating the patient's existing periodontal disease, but also on maintaining the patient's overall normal periodontium in a state of health through patient education. Dr. Polins and staff.

Removable Prosthodontics  The diagnosis of fully and partially edentulous mouths; design and fabrication of complete and partial denture appliances. Dr. Emerling and staff.

Endodontics  The diagnosis and treatment of pulpal and periapical pathology requiring endodontic intervention. Dr. Richardson and staff.


Preventive Dentistry  Clinical rotations in the school's Prevention Center treating new patients or patients returning for periodic recall. Emphasis is on preventive dentistry, patient management, and practice management. Dr. J. Peters and staff.

Dental Emergency Care  Periodic assignment to the dental emergency area. The student gains experience in the diagnosis and management of patients with acute dental emergencies, under the supervision of faculty of the Endodontics Department or other appropriate clinical departments. Dr. Richardson and staff.
Oral Diagnosis/Radiology  Clinical anatomy in the department of oral diagnosis and radiology. The student makes and interprets radiographs on new dental patients or performs initial screening examinations on incoming patients. In addition, this clinical department is the prime resource for coordinating and sequencing treatment on the student’s comprehensive care patients. Dr. Friedman and staff.

The Fourth Year Curriculum
The fourth academic year at the Goldman School of Graduate Dentistry is designed for flexibility to allow the senior student to pursue his or her particular interests and concentrate on clinical patient care. All elective curriculum offerings are listed below, with several of them open to first-, second-, and third-year students as well as seniors.

Practice Management  Information necessary to develop a dental practice. Includes jurisprudence, insurance, estate planning, office design, financing, personnel management, and cost accounting. Guest speakers. Drs. Bojia, Aitahalez, and staff. 16 hours, 1st and 2nd sem.

Treatment Planning Seminar  Discussion of advanced diagnostic and treatment planning problems, with special emphasis on the rationale for decision-making in a private practice setting. Case presentation format. Dr. McManama. 24 hours, 1st and 2nd sem.

Extramural Training Programs  Six-week selective externships at sites outside the Medical Center, designed to expose the student to alternative clinical settings, modes of treatment, and instruction. In addition, the student is sensitized to the specific needs of a variety of patient populations. Ms. Mann and extramural preceptors. 4th year

Oral Surgery Seminar  A discussion of advanced topics in oral surgery such as facial trauma, maxillofacial deformities, and temporomandibular joint problems. Dr. Kilgore and staff. 1st or 2nd sem.

Electives
Senior Seminars  A multidisciplinary series of elective seminars and demonstrations on topics relating to advances and newer concepts in the field. Staff and guest lecturers. 4th year

Hospital Dentistry  A three-week clinical externship on the oral surgery service. Students treat patients in the clinic as well as hospitalized patients at University Hospital, Boston City Hospital, and the Booth Ambulatory Surgery Unit. Dr. Kilgore and staff.

Hypnosis  A lecture/demonstration/participation course introducing concepts of suggestion, trance induction, patient self-hypnosis, and the use of hypnosis in clinical dentistry. Dr. Hagens. 4th year. 20 hours, 1st sem.

Orthognathic Surgery  A series presented by the departments of oral surgery and orthodontics on the principles of surgical orthodontics. Drs. Booth and Dietz. 4th year. 16 hours, 2nd sem.

Shared Elective Course Offerings  Several courses in the graduate division or department of continuing education are open to limited elective predoctoral participation.

Summer Elective Externships  Designed to give the interested student intensive exposure in one of several clinical areas:

General Anesthesia  One-month rotation consisting of conferences and operating room experiences on the anesthesia services staff at University Hospital and Boston City Hospital. Drs. Hagens and staff. 3rd year

Otolaryngology  One-month rotation on the otolaryngology team at University Hospital, Boston City Hospital, and the Boston Veterans Administration Hospital. Dr. Strong. 2nd and 3rd years

Six-Year Liberal Arts/Dental Education Program
The faculties of Boston University's College of Liberal Arts and the Henry M. Goldman School of Graduate Dentistry have developed a combined preprofessional and professional curriculum leading to the simultaneous awarding of the Bachelor of Arts and the Doctor of Dental Medicine degrees. This program, patterned after the highly successful six-year medical program, is designed to maintain the quality of dental education while shortening the overall period of study. Qualified seniors in secondary schools may apply for admission to this program and, if accepted, are admitted to the College of Liberal Arts and the Goldman School subject to the review described under Program Requirements.

The first two years and two summers are spent in the College of Liberal Arts, where the student takes (with the six-year medical students) preprofessional science courses specifically prepared for this program. Portions of the third and fourth summers are spent taking elective courses in the humanities and social sciences. All students are required to complete a minor in a discipline other than the natural sciences and must meet all liberal arts, residence, and course distribution requirements for the Bachelor of Arts degree.

First-year dental studies begin in the program's third year. The amount of time devoted to dental studies remains the same as in the present dental program in the Goldman School of Graduate Dentistry. Upon completion, students are awarded the BA and the DMD.

Admission
This program is designed for highly competent graduates of secondary schools who have decided upon a career in dentistry. Applicants must present evidence of academic achievement of the highest quality and should have College Entrance Examination Board (CEEB) Scholastic Aptitude Test scores in the top ten percent of national competition. Students are also required to take the CEEB Achievement Tests in English composition, chemistry, mathematics (level I or II), and a foreign language. These tests must be completed by the January administration. The minimum entrance requirements are four years of English; four years of mathematics; three years of a foreign language; and one year each of history, chemistry, and physics. Accepted students who have not had calculus should complete such a course during the summer prior to enrollment.

All applications must be postmarked on or before the first week in July for which the candidate is applying. Decisions are usually announced in April, and there is no early-decision plan offered. The Joint Admissions Committee can consider only those candidates who are completing four full academic years of secondary school education and are currently high school seniors.

If eligible for consideration for the program, the applicant will be contacted for a personal interview with a representative of the Joint Admissions Committee. Eligibility may be determined only after the receipt of an application, secondary school transcripts, and CEEB scores. The required personal interview will be scheduled through the Admissions Office only after the candidate has been advised that an interview is appropriate. Applicants not eligible for further consideration after an initial
review by the Admissions Committee will not be interviewed.
Secondary school applicants who have taken college-level courses that count toward diploma requirements or that augment their studies are fully eligible for consideration for the program. However, candidates with other college experiences (transfer applicants) cannot be considered for the program. They may be considered, however, for the conventional preclinical program.
Applications may be obtained by writing to the Boston University Office of Admissions, or calling (617) 353-2300.

Scholarship Assistance and Loans
A range of financial assistance is available to students in this program, based on financial need and academic achievement. Application may be made by submitting the Financial Aid Form to the College Scholarship Service. Further information may be obtained by contacting the Office of Financial Assistance.
Students admitted to the program are not eligible for Trustee Scholarships or Honor Awards.

Acceleration
The Six-Year Program is made possible by combining studies in the liberal arts and dentistry. Each of the twelve-week summer sessions at the end of the first four academic years are used to achieve this acceleration. Because this program requires only seven semesters of undergraduate work, no advanced-standing credit is awarded. This eliminates credit for previous college-level work and CEEB examinations.

Program Requirements
Students in the program must demonstrate the capability to master an accelerated program of studies and to exhibit a high degree of maturity and emotional stability in order to be promoted to the third year of the program (DENT I). At the end of each semester, a faculty committee and the Committee on Promotions review students' progress. Students are expected to maintain a minimum of a B average in both the sciences and the nonsciences. During February of each year, the academic record of all students is reviewed by this committee. Final decisions concerning promotion to the third year are made by the end of April.
A student who for any reason is found to be ill-suited for the program may be transferred without loss of credits to the liberal arts curriculum. Such students may still obtain a dental education either at the Goldman School or at another dental school, after completing a conventional preclinical education. Students may voluntarily transfer out of the program at any point with the option to continue a liberal arts education at Boston University.
Six-year dental students, although admitted to the Goldman School of Graduate Dentistry, are required to take the Dental Admission Test (DAT) in the spring of the program's second year.

Graduation Requirements
Students must satisfy the distribution, language, and residence requirements required for the BA degree. In addition, students must complete a minor of six semester courses, four of which are at the advanced level, in a discipline other than the natural sciences. Mathematics is an acceptable minor in the natural sciences.

Seven-Year Option
Some students may prefer an additional academic year before entering the School of Graduate Dentistry to explore in-depth a variety of educational interests. Students in good standing may request the opportunity to pursue a third academic year in place of Summers II, III, and IV. In this case, students attend the College of Liberal Arts three full academic years and the first summer, thereby leaving two summers free for work or travel. This also provides students with an additional year prior to committing themselves to a career in dentistry. Formal request for the seven-year option should be made prior to the end of the fall semester of the second year of the program. Students exercising the seven-year option are expected to earn a grade of B in each course.

The Curriculum

First Year, CLA I
Semester I
CLA CH 181 General and Physical Chemistry
CLA PY 181 Physics
CLA MS 151 Proseminar: Social Science Humanities [English or foreign language]

Semester II
CLA CH 182 General and Physical Chemistry
CLA PY 182 Physics
CLA MS 156 History, political science, or economics elective
Humanities [English or foreign language]

Summer I
SFA AR 127 Introduction to the Structure of the Human Head
One course in the minor
Elective

Second Year, CLA II
Semester I
CLA CH 281 Organic Chemistry
CLA BI 281 Fundamentals of Biology
CLA PS 243 Lifespan Developmental Psychology in Health and Illness
CLA EN 220 Proseminar: Literature

Semester II
CLA CH 282 Organic Chemistry
CLA BI 282 Fundamentals of Biology
CLA PS 371 Abnormal Psychology
Elective

Summer II
CLA BI 383 Fundamentals of Biology
CLA HU 221 Major Authors I
One course in the minor
Elective

Third Year, DENT I
First-year dental subjects
Basic preclinical sciences

Summer III
Two liberal arts electives

Fourth Year, DENT II
Second-year dental subjects
Basic preclinical sciences

Summer IV
Two liberal arts electives

Fifth Year, DENT III
Third-year dental subjects
Clinical sciences

Sixth Year, DENT IV
Fourth-year dental subjects
Clinical sciences
Below, a predoctoral student sets denture teeth. Right, an instructor with a predoctoral student in the dental technology laboratory.

Left, predoctoral students in the science laboratory. Right, a postdoctoral student puts a young patient at ease.
Postdoctoral Programs

The Goldman School reserves the right to modify at any time its courses and programs to incorporate scientific advancement in dental education and practice. The School is not obligated to conform to the curricula set forth within this bulletin. The department chair, with the concurrence of the Postdoctoral Curriculum Committee, may alter a candidate's program by the addition of courses as may be warranted. Whenever deemed advisable, clinical or basic science courses in the School of Medicine may be substituted for those in the Goldman School.

Certificate of Advanced Graduate Study

The program of study for the Certificate of Advanced Graduate Study (CAGS) includes those courses specified in this bulletin in the candidate's specialty curriculum.

Specializations

The student pursues a specialization from among the following departments:
- Dental Care Management
- Endodontics
- Operative Dentistry
- Oral and Maxillofacial Surgery
- Oral Pathology
- Orthodontics
- Pediatric Dentistry
- Periodontology
- Prosthodontics

Program of Study

See the sections describing the individual departments for an outline of the program of study in each field.

Residency Requirement

The minimum residence time (i.e., period of enrollment) for a CAGS is 21 to 24 months, except in the oral and maxillofacial surgery program, where the requirement is one calendar year of a sequential three-year program.

Clinical Requirement

The CAGS candidate must demonstrate proficiency in the clinical aspects of his or her specialty and in related fields when applicable. The candidate must receive the endorsement of the appropriate departmental chair prior to the award of a certificate.

Master of Science in Dentistry

The Master of Science in Dentistry (MSD) programs are one-year extensions of those courses of study that would ordinarily lead to the award of the CAGS. Approved research and an original thesis, including its successful defense, are required.

A variation of the above consists of a clinical CAGS program in conjunction with a nonclinical program such as Dental Public Health. The usual course of study entails the first year in Dental Public Health followed by two years of clinical study, leading to a CAGS and MSD degree at the close of the third year.

Specializations

The MSD candidate pursues full-time postdoctoral studies in one of the major specializations of the School:
- Dental Public Health
- Endodontics
- Operative Dentistry
- Oral Biology
- Oral and Maxillofacial Surgery
- Oral Pathology
- Orthodontics
- Pediatric Dentistry
- Periodontology
- Prosthodontics

Program of Study

See the sections describing the individual departments for an outline of the program of study in each field.

The MSD candidate must carry out such collateral studies as the department chair or the Postdoctoral Curriculum Committee may direct after examination of the candidate's credentials.

Residency Requirement

The minimum residency requirement (i.e., period of enrollment) for the MSD program is 36 months, with the exception of oral and maxillofacial surgery, where the residency requirement may be fulfilled at another approved institution, and Dental Public Health, where it is 24 months.

Application for Admission

Applicants to the MSD program must meet the requirements stated in the section on Postdoctoral Admission. In addition, a student desiring to become a candidate for the MSD must so indicate in applying to the School, if the student is undecided, he or she may defer application for the master's degree program until completion of the first semester of a CAGS program.

See the sections on the individual departments for any additional requirements for a particular specialization.

Research Requirements

Students accepted into a clinical postdoctoral program are required to spend two full years in the advanced specialty education program for the award of a CAGS and one additional year devoted to research for the award of the MSD.

1. Before the fifth semester of enrollment, the student should submit a protocol for a research project on which to base a master's thesis. The research may be oriented toward a problem with clinical significance, or it may be concerned with a basic science subject related to dentistry. It should be designed to contribute significant information to dental or biological knowledge.

2. The candidate's credentials and protocol are reviewed by the chair of the department representing the clinical specialty. When they have been approved, the student may proceed with his or her investigation. The project is conducted by the candidate in consultation with the department chair and with the guidance of an adviser who is a member of the faculty of the Goldman School or one of its affiliates.

3. The candidate must subsequently present an original, unpublished thesis based on the research. The thesis must be submitted, in triplicate and in the prescribed format, by April 10 of the school year in which the degree is sought.

4. The candidate must defend his or her thesis before a faculty committee selected by the Department Chairperson. The report of the chair of the thesis defense committee will be submitted to the Dean for final approval and recommendation for the degree. The deadline for the thesis defense is May 1 of the year in which the degree is sought.

5. The investigation should possess a degree of originality and sophistication in order to merit the award of the advanced degree. The department chair, the thesis defense panel, or the Dean may reject a thesis on the basis of elements such as content, style of writing and composition, or assembly format. If rejected, the thesis is returned to the candidate for revision or a new writing.
6. If a candidate’s achievement proves to be inadequate when the candidate is questioned by the thesis defense panel, despite the fact that the thesis itself may be satisfactory, he or she will not be recommended for award of the advanced degree. The candidate may redefend the thesis before a thesis defense panel at the designated time during the succeeding school year.

Comprehensive Examination
After presenting to the department chair evidence of satisfactory completion of studies, and prior to the submission of the thesis, the MSD candidate may be required to pass a written and/or oral examination given by a panel of the faculty designated by the department chair. The candidate is required to demonstrate to the panel adequate knowledge in his or her major and in related fields.

Clinical Requirement
Candidates must demonstrate proficiency in the clinical aspects of their specialty and related fields when applicable, and they must receive the endorsement of their department chair prior to receiving the degree.

Doctor of Science Programs

At the present time, there are three programs:

Dentistry
Oral Biology
Nutritional Sciences

DSc in Dentistry
The Doctor of Science program in dentistry is designed for individuals seeking advanced postdoctoral training emphasizing both clinical and academic excellence. Graduates of this program should be able to contribute significantly to scientific knowledge and be capable of communicating professional concepts and research experiences. They should emerge from the program as sophisticated dental educators capable of and committed to the performance of advanced research and teaching.

Students in the DSc program in dentistry pursue a specialization in preparation for advanced research, teaching, and practice in prosthodontics, periodontology, endodontics, pediatric dentistry, orthodontics, dental public health, oral pathology, operative dentistry, or oral and maxillofacial surgery. After consultation with the department chair and the director of this program, students select a major adviser. A faculty member from an appropriate basic science area (anatomy, biochemistry, microbiology, pathology, pharmacology, or physiology) may serve as a minor adviser.

Credit 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 the major adviser. At least 18 credits are allocated to a research project.

DSc in Oral Biology
The Doctor of Science program in oral biology consists of a minimum of three years devoted to course work and practical experience in advanced clinical and basic research training. Course work is based upon and correlated with specific areas of dentistry, the basic and medical sciences, and research. The program trains individuals to teach and conduct research in oral biology.

To fulfill the minor requirements of the degree, courses in the School of Medicine and the Graduate School may supplement courses in the Goldman School.

Students in the DSc program in oral biology can arrange to carry on clinical specialty training as part of their program.

DSc in Nutritional Sciences
The Doctor of Science program in nutritional sciences is designed for individuals interested in teaching or carrying out research related to nutrition. Individuals holding the DMD or its equivalent must earn a minimum of 32 credits. In addition to those offered at the Goldman School, courses are also available in the Graduate School through the Division of Medical and Dental Sciences. A residence period of six semesters is required.

Holders of a bachelor’s degree are eligible for the DSc in nutritional sciences program, but are required to earn a minimum of 64 credits in the form of major and minor course requirements at the Goldman School and Graduate School Division of Medical and Dental Sciences. DSc candidates must spend at least eight semesters in the program.
Eligibility and Application for Admission
Any well-qualified person with a doctorate in dentistry from a recognized dental school may apply for admission to any of the DSc programs. An individual with a bachelor's degree from a recognized school may be admitted to the DSc program in nutritional sciences.

Applications for admission should be made to the Office of the Registrar, Boston University Goldman School of Graduate Dentistry, 100 E. Newton Street, Boston, MA 02118.

In addition to the above credentials, letters of recommendation are required from two senior faculty members, the dean of the undergraduate school, and two senior faculty members of the dental school.

Dissertation
Candidates must demonstrate ability to pursue independent study by preparing a dissertation representing original research. The dissertation must be defended successfully in an oral examination before a committee approved by the Associate Dean for Academic Affairs and the chair of the pertinent department.

Graduate Programs
Graduate programs are offered that lead to the MS degree in dental public health and nutritional sciences and the DSc degree in nutritional sciences.

Master of Science in Dental Public Health
The master of science program in dental public health is designed to prepare dental hygienists, technologists, and assistants for careers in education and health administration. Minimum residency time is nine months, and an oral examination and a project are required.

Master of Science in Nutrition
This program is designed for individuals planning academic or research careers. A minimum residency of four semesters is required.

Doctor of Science in Nutritional Sciences
See program requirements stated above under Doctor of Science Programs.

Postdoctoral and Graduate Admission
Candidates for admission to a postdoctoral program should send a completed application to the Office of the Registrar, Boston University Henry M. Goldman School of Graduate Dentistry, 100 E. Newton Street, Boston, MA 02118. It is recommended that a candidate's application be completed and received prior to December 15 of the year preceding the expected date of enrollment. Applications are reviewed periodically by the Committee on Admissions during the year.

The application fee of $35 must be remitted with the application. Candidates accepted for admission to the Goldman School must pay a $1,000 deposit toward the first year's tuition, usually within twenty days of notification of acceptance. The application fee and deposit are nonrefundable.

Supporting Documents
The following should be submitted in support of the application for admission:

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 from the chair of the department of that school in the field in which the candidate seeks admission. Additional letters in support of the application may be submitted.

2. Proof of a doctorate from an accredited dental school or its international equivalent. Candidates for the three-year Oral and Maxillofacial Surgery Program must submit proof of graduation from a dental school accredited by the Council on Dental Education of the American Dental Association.

3. Complete, official transcripts of dental school and undergraduate records.

4. National Board scores, which applicants must have sent to the Office of the Registrar. This requirement may be waived for international applicants.

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

Interviews
Interviews are recommended, but may be waived due to distance from Boston.

International Applicants
As well as submitting the above documents, international applicants must submit an additional information sheet. The two most important additional criteria are the student's ability to speak, read, and write English, and his or her ability to meet financial obligations. The information contained in this form is forwarded to the University's International Student Office to verify the student's credentials for a visa.

Orientation Program for International Students
All entering postdoctoral international students must complete a two-week orientation program, held during the last part of August and the first part of September. The program is designed to ease and accelerate students' adjustment to the School and to the Boston community. Participants have the opportunity to improve their English language skills and to become familiar with essential school policies and procedures. Through discussions and workshops, students are encouraged to explore their experiences, share their concerns, and develop an invaluable support system.
Postdoctoral Departments and Programs of Study

Descriptions of the various postdoctoral programs are given on the pages that follow and are arranged alphabetically by department. Refer to the more general sections above for information about postdoctoral admission requirements and general requirements of postdoctoral programs of study.

Dental Care Management

Anthony Jong, DDS, MPH, DSc, Chair
Two master's programs and a CAGS program in dental public health are offered. One program, offered to dentists, leads to the MSD degree; the other, offered to dental auxiliaries, leads to the MS degree. A three-year doctoral program is offered as well as a one-year residency in dental public health for those who hold an MPH degree.

Master of Science in Dentistry

The two-year MSD program provides the student with broad knowledge and practical experience in health care delivery. The program prepares a dentist for a career in dental public health and is designed to meet the educational and residency requirements of the American Board of Dental Public Health.

Students take courses at the Goldman School as well as relevant courses in other graduate schools of Boston University. The courses form the matrix from which the directed field activities evolve. Students participate in community health programs and thus gain experience in the day-to-day administration of ongoing programs. Students act as teaching assistants during the second year and are given the opportunity to develop and improve skills in curriculum design and teaching.

Emphasis is placed on leadership skills, social and cultural determinants of health behavior, preventive dentistry, and dental health education. Students have the opportunity to conduct research, and are encouraged to publish papers in professional journals. In addition to course work and field experience in the administration and management of dental programs, involvement in clinical activities augments the ability to direct dental care programs. Courses in oral diagnosis, oral pathology, and basic sciences in clinical specialties may be elected.

Core Curriculum

The core curriculum for the MSD in dental public health is listed below.

First Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD PH 762</td>
<td>Biomedical Law and Ethics</td>
<td>2 cr</td>
<td>2 nd sem</td>
</tr>
<tr>
<td>SGD PH 764</td>
<td>Psychological Considerations for the Dentist</td>
<td>1 cr</td>
<td>2 nd sem</td>
</tr>
<tr>
<td>SGD PH 801</td>
<td>Introduction to Public Health</td>
<td>2 cr</td>
<td>1 st sem</td>
</tr>
<tr>
<td>SGD PH 803</td>
<td>Biostatistics I</td>
<td>4 cr</td>
<td>1st sem</td>
</tr>
<tr>
<td>SGD PH 804</td>
<td>Introduction to SPSSX</td>
<td>2 cr</td>
<td>1/2 sem</td>
</tr>
<tr>
<td>SGD PH 804</td>
<td>Introduction to Computers</td>
<td>2 cr</td>
<td>1/2 sem</td>
</tr>
<tr>
<td>SGD PH 808</td>
<td>Health Care Management and Finance</td>
<td>3 cr</td>
<td>2 nd sem</td>
</tr>
<tr>
<td>SGD PH 817</td>
<td>Organizational Principles in Education</td>
<td>3 cr</td>
<td>1 st sem</td>
</tr>
<tr>
<td>SGD PH 820</td>
<td>Issues in Public Health</td>
<td>3 cr</td>
<td>1 st sem</td>
</tr>
<tr>
<td>SGD PH 825</td>
<td>Statistical Analysis Using Minitab</td>
<td>1 cr</td>
<td>lab, 1st sem</td>
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Second Year

<table>
<thead>
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<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tr>
<td>SGD PH 807</td>
<td>Research Methods</td>
<td>2 cr</td>
<td>1 st sem</td>
</tr>
<tr>
<td>SGD PH 813</td>
<td>Practicum: Clinical Teaching</td>
<td>3 cr</td>
<td>1st sem</td>
</tr>
<tr>
<td>SGD NS 781</td>
<td>Application of Nutritional Principles</td>
<td>1 cr</td>
<td>1st sem</td>
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Research

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD PH 991</td>
<td>Public Health Dentistry</td>
<td>4 cr</td>
<td>4 cr, 4 semesters and summer</td>
</tr>
</tbody>
</table>

Doctor of Science in Dentistry

The three-year doctoral program is designed for the student interested in a full-time academic career. This program permits the student to take additional graduate courses at the various schools of Boston University, such as the College of Communication, the School of Education, and the School of Management. Oral examination and successful defense of a dissertation are required. A graduate of the three-year program is expected to be a competent educator, administrator, and clinician who can take a leadership role in the dental profession.

Certificate of Advanced Graduate Study

A one-year residency in dental public health is offered to dentists who hold an MPH degree. The program consists of field experience, research, and teaching, and is designed to fulfill the residency requirements of the American Board of Dental Public Health. Residents may also take courses offered within the Goldman School and other schools and colleges of the University to further interests in specific areas.

Master of Science

The nine-month program leading to the MS degree is designed to prepare dental hygienists, technologists, and assistants for careers in education and health administration.

The program provides the opportunity to acquire skills in administration and management of health care, the design of effective community programs, and the development of dental health education techniques. Options exist for concentrations in public health and nutrition. Emphasis is placed on development of management style and acquisition of quantitative skills needed for graduates to assume a leadership role in dental health. Students wishing to pursue a career in dental education may elect graduate courses in education from Boston University's School of Education. Because practical experience and training are emphasized in the program, all students are required to conduct a research project or practicum. The research project is an original research investigation in an area of the student's choice; the practicum is an individual field experience in a community, health agency, hospital, or school setting.

Program requirements are subject to change without notice.

Admission

A baccalaureate degree or its equivalent and a certificate in dental hygiene, dental technology, or dental assisting are required for admission. Students are accepted in the spring for enrollment the following September.

Graduation Requirements

Students must earn a minimum of 32 credits, maintain a 3.0 grade point average, and complete a research project or practicum in order to receive the MS degree.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Semester</th>
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<tbody>
<tr>
<td>SGD PH 801</td>
<td>Introduction to Public Health</td>
<td>4 cr</td>
<td>1 st sem</td>
</tr>
<tr>
<td>SGD PH 803</td>
<td>Biostatistics / Epidemiology</td>
<td>4 cr</td>
<td>1 st sem</td>
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<tr>
<td>SGD PH 807</td>
<td>Research Methods</td>
<td>3 cr</td>
<td>1st sem</td>
</tr>
<tr>
<td>SGD PH 815</td>
<td>Master's Project: Research or Public Health Practicum</td>
<td>0 cr</td>
<td>1st sem</td>
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</table>
Endodontics

Herbert Schilder, BA, DDS, FACD, FICD, Chair

This twenty-one month course of study is designed to meet the formal educational requirements of the American Board of Endodontics. The program leads to a Certificate of Advanced Graduate Study in endodontics.

Intensive training is given in clinical endodontics and correlated basic and medical sciences, as well as in other dental subjects related to endodontic practice. Supervised clinical training encompasses both surgical and nonsurgical endodontics, ensuring the acquisition of diagnostic and operative facility in this area. Extensive opportunities exist for combined treatment of endodontic-periodontic problems and for endodontic management of teeth involved in major oral rehabilitative procedures.

All students must be prepared to meet the library requirements that familiarize them with the development of endodontic theory and practice and permit intelligent evaluation of current techniques.

A thesis is required to document student participation in ongoing departmental research projects.

A Master of Science in dentistry, with a specialization in endodontics is available with a one-year extension of the above program and requires a thesis documenting an original significant research effort in endodontics.

Curriculum

Preclinical Sciences

SGD OB 761 Oral Microbiology 1st sem
SGD NS 781 Application of Nutritional Principles 1st sem

Clinical Sciences

SGD EN 801, 802 Endodontics I 1st & 2nd sem
SGD EN 803 Endodontics II 1st sem
SGD EN 804 Endodontics IV 2nd sem
SGD EN 805, 806 Endodontics V 1st & 2nd sem
SGD EN 807 Endodontic Radiology 1st sem
SGD EN 808 Physiology of Pain 2nd sem
SGD EN 809 Microbiology in Endodontics 1st sem
SGD EN 810 Pulp and Periapical Pathobiology 2nd sem
SGD EN 811, 812 Seminar: Endodontic Diagnosis and Treatment Planning 1st & 2nd sem
SGD EN 813 Seminar: Surgical Endodontics 1st sem
SGD EN 814 Restoration of Endodontically Involved Teeth 2nd sem
SGD EN 816 American Board of Endodontics Preparation 2nd sem
SGD EN 818 Pediatric Dentistry-Endodontics 2nd sem
SGD PE 803 Clinical Periodontology 1st sem
SGD EN 911, 912 Endodontics III 1st & 2nd sem
SGD EN 991, 992 Endodontics VI 1st & 2nd sem

Biomedical Law and Ethics

Medical Surgical Management of the Patient 1st & 2nd sem
Psychological Considerations for the Dentist 2nd sem
Research Design with Computer Laboratory 1st sem
Oral Immunology 2nd sem
Topics in Periodontology 1st & 2nd sem
Oral Biology 1st & 2nd sem

Research Credits

A minimum of 12 credits of research is required of all degree candidates.

Electives

Elective courses may be taken in the Graduate School Division of Medical and Dental Sciences. Courses are available in anatomy, biochemistry, microbiology, pathology, pharmacology, physiology, neuroscience, and endocrinology. Other electives are available at the Goldman School of Graduate Dentistry.

Advanced Operative Dentistry

Lloyd B. Chaisson, BSc, DDS, FICD, Chair

The two-year CAGS program is designed for individuals interested in the advanced biological and technical aspects and practice of operative dentistry, and especially for those pursuing teaching careers in operative dentistry. Psychomotor and didactic skills are developed to a high degree, and each student receives individual attention and counseling.

Initial activities include preclinical training in operative techniques and participation in a clinical practice program. In addition, students learn teaching skills such as demonstration of preclinical techniques, evaluation of student performance, and lecture presentation. Particular emphasis is placed on occlusion as an understanding of advanced restorative dentistry.

Nutritional Sciences

Louis C. Fillios, AB, MS, ScD, Chair

The Department of Nutritional Sciences offers programs for individuals interested in academic or research careers in fields related to nutrition. Students accepted into the Master of Science program or the Doctor of Science program may fulfill their major course and research requirements at the Goldman School and their minor requirements in one of the related areas of science at the Boston University School of Medical and Dental Sciences.

The Department of Nutritional Sciences also offers courses, lectures, and other forms of training to students enrolled in any of the School's graduate clinical or predoctoral programs. Along with stressing the importance of nutritional sciences in dental education, these studies are designed to integrate a basic knowledge of science with clinical training.

Core Courses

SGD NS 781 Application of Nutritional Principles 2 cr, 1st sem
SGD NS 785 Seminar: Nutritional Sciences 2 cr, 1st & 2nd sem
SGD NS 788 Advances in Nutritional Sciences 2 cr, 2nd sem
SGD NS 888 Tutorial in Nutritional Science 2 cr, 1st & 2nd sem
SGD NS 891 Research in Nutritional Sciences by arrangement

Electives

Elective courses may be taken in the Graduate School Division of Medical and Dental Sciences. Courses are available in anatomy, biochemistry, microbiology, pathology, pharmacology, physiology, neuroscience, and endocrinology. Other electives are available at the Goldman School of Graduate Dentistry.
The psychological and motivational aspects of teaching are stressed, with emphasis on leadership, role models, and the development of communication skills. Texts and visual aids are used for clinical and didactic purposes.

The program provides the academic and clinical training required to participate in a department of operative dentistry. **The MSD program** is essentially the same as the CAGS program described above, with an additional academic year for clinical, research, and thesis requirements.

**Curriculum**

The course of study in operative dentistry includes the following courses:

**Preclinical Sciences**

- SGD NS 781 Application of Nutritional Principles 1st sem
- SGD PH 763 Medical Surgical Management of the Patient 1st & 2nd sem
- SGD PE 761, 762 Topics in Periodontology 1st & 2nd sem
- SGD PR 761, 762 Occlusion 1st & 2nd sem
- SGD OB 763, 764 Oral Biology 1st & 2nd sem

**Clinical Sciences**

- SGD OP 801 Radiology Review 1st sem
- SGD OP 802 Advanced Restorative Systems 2nd sem
- SGD OP 803, 804 Seminars: Operative Dentistry 1st & 2nd sem
- SGD OP 805 Preclinical Techniques and Operative Philosophy 1st sem
- SGD OP 807, 808 Preclinical Technique 1st & 2nd sem
- SGD OP 809 Instrumentation 1st sem
- SGD PR 825, 826 Postdoctoral Biomaterials 1st & 2nd sem
- SGD OP 911 Clinical Operative Dentistry I 1st sem
- SGD OP 913, 914 Clinical Operative Dentistry II 1st & 2nd sem

**Oral Biology**

Carl Franzblau, BS, PhD, Chair

The program in oral biology is designed for students who wish to continue an academic and research-oriented career. As such, the program is flexible and is especially suited for those whose interests may span more than one discipline. Research programs focusing on dental-related problems may be conducted in conjunction with other departments within the Boston University Medical Center or affiliated institutions. Every effort is made to provide training in research that will enable students completing this program to continue as independent investigators.

In conjunction with their basic research studies, students receive advanced clinical training and experience in areas of special interest to them. This training may lead to either the Master of Science degree or the Doctor of Science in Dentistry. With the approval of the appropriate clinical department, students may include training in one of the dental specialties (periodontology, endodontics, operative dentistry, prosthodontics, dental public health, oral and maxillofacial surgery, pediatric dentistry, oral pathology, orthodontics), leading to the additional award of the Certificate of Advanced Graduate Study. The clinical requirements of the selected specialty program must be fulfilled to the satisfaction of that department’s faculty. The MSD program can normally be completed in two years. Attainment of the DSc degree and a clinical specialty normally require a minimum of three years.

**Oral and Maxillofacial Surgery**

Donald F. Booth, DMD, Chair

The CAGS oral and maxillofacial surgery training program at the Goldman School is a four-year postdoctoral course of study designed to satisfy the training requirements of the American Board of Oral Surgery and the Council on Dental Education of the American Dental Association. The oral and maxillofacial surgery program is run as a cooperative effort with Tufts University School of Dental Medicine and is carried out at University Hospital, Boston City Hospital, Tufts New England Medical Center, and the Boston Veterans Administration Hospital. Also associated with the program are the Kennedy Memorial Hospital in Brighton, the Chelsea Old Soldiers Home, and the Carney Hospital in Dorchester.

The oral and maxillofacial surgery program offers an integrated curriculum of clinical training, basic science study, and research, all within the hospital environment. **A Master of Science in Dentistry** program is offered. Stipends are available.

The program is open to all graduates of dental schools accredited by the Council on Dental Education of the American Dental Association. Preference is given to applicants who show high academic achievement and an aptitude for oral surgery. Two positions are usually filled to the satisfaction of that department.

**Curriculum**

A sample of courses in the program is given below.

- SGD OP 860 Principles of Surgery Year I
- SGD OP 861 Head and Neck Anatomy Year I
- SGD OP 862 Head and Neck Anatomy with Lab Year I
- SGD OP 863 Advanced Medicine Year I
- SGD OP 865 Experimental Surgery Year I
- SGD OP 866 Orthognathic Surgery Year I
- SGD OP 868 Oral Pathology Year II
- SGD OP 869 Anesthesia Year II

**Oral Pathology**

John Richardson, BA, DDS, DSc, Chair

A program in oral pathology is available for individuals who require a broad, in-depth background in human and oral disease as preparation for careers in clinical or academic dental medicine, as an adjunct to research activity, or as intellectual enrichment for those in allied areas of the profession.

Directed by a Board-Certified Specialist, the curriculum builds on the graduate division basic sciences program, and emphasizes cell and tissue structure and function. Concepts of disease are developed through interaction with Medical Center specialists in integrated multidisciplinary courses, in special lectures, and on grand rounds. For qualifying individuals, a second year comprised of an internship on the anatomic pathology service of the Medical Center may be available, subject to approval of the director of the Mallory Institute of Pathology.
Orthodontics

Anthony A. Gianelly, DMD, PhD, MD, Chair

This two-year CAGS program in orthodontics is designed for those interested in clinical practice. The curriculum is arranged so that approximately half the time is devoted to training. The remainder of the program is devoted to lectures and seminars in the basic sciences and clinical subjects related to orthodontics.

The intent of the course is to educate students to become competent clinicians who can successfully analyze and treat dentofacial deformities. To this end, emphasis is placed on craniofacial and psychological growth and development, cephalometrics, biomechanics, occlusion, and neuromuscular physiology.

The course provides both the formal educational requirements and the partial clinical bases for the examinations of the American Board of Orthodontics.

Curriculum

The course of instruction is given below:

Preclinical Sciences
SGD NS 781 Application of Nutritional Sciences 1st sem
SGD PH 764 Psychological Considerations for the Dentist 2nd sem
SGD PH 766 Research Design with Computer Laboratory 2nd sem
SGD PE 761, 762 Topics in Periodontology 1st & 2nd sem
SGD PR 761, 762 Occlusion 1st & 2nd sem
SGD OB 763, 764 Oral Biology 1st & 2nd sem

Clinical Sciences
SGD OR 803, 804 Orthodontics I 1st & 2nd sem
SGD OR 911, 912 Orthodontics II 1st & 2nd sem
SGD OR 991, 992 Research: Orthodontics 1st & 2nd sem

Pediatric Dentistry

Jon T. Kapala, BS, DMD, MScD, Chair

The CAGS curriculum in pediatric dentistry is designed to meet the formal educational requirements for specialization and for certification by the American Board of Pediatric Dentistry.

Participants in the two-year program are provided 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 pediatric dentistry:

Preventive dentistry
Growth and development
Orthodontics
Specialized operative and prosthetic techniques
Pulp therapy in primary and immature permanent dentitions
Periodontology
Behavioral sciences and their application to the pediatric patient

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, including complete restorative and surgical care under general anesthesia for the exceptional child.

Affiliated Institutions
Affiliated institutions include:
Boston City Hospital
Brookline Health Department
Kennedy Memorial Hospital
Solomon Carter Fuller Mental Health Center

Periodontology

Morris P. Ruben, BSc, DDS, FACD, FICD, Chair

The first year of the CAGS program emphasizes the sciences essential to understanding the principles of clinical periodontology such as clinical medical sciences, periodontology, principles of occlusion, orthodontics, oral medicine, oral pathology, and oral biology. The second year is devoted primarily to the clinical practice of this specialty and additional instruction in the clinical sciences. This program is designed to meet the formal educational requirements of the American Board of Periodontology. Its graduates become Board-eligible upon completion of Part I of the Board Examinations.

Curriculum

Preclinical Sciences
SGD OB 761 Oral Microbiology 1st sem
SGD NS 781 Application of Nutritional Principles 1st sem
SGD PH 762 Biomedical Law and Ethics 2nd sem
SGD PH 764 Psychological Considerations for the Dentist 2nd sem
SGD PH 766 Research Design with Computer Laboratory 2nd sem
SGD OB 767 Oral Immunology 2nd sem
SGD PH 763 Medical Surgical Management of the Patient 1st & 2nd sem
SGD PR 761, 762 Occlusion 1st & 2nd sem
SGD OB 763, 764 Oral Biology 1st & 2nd sem
SGD OP Oral Pathology 1st sem
SGD PE Oral Medicine 1st & 2nd sem

Clinical Sciences
SGD EN 819 Endodontics for Periodontists 2nd sem
SGD PE 801, 802 Periodontology 1st & 2nd sem
SGD PE 805, 806 Periodontology Lecture 1st & 2nd sem
SGD PE 807, 808 Seminars: Treatment Planning 1st & 2nd sem
SGD PE 809 Principles of Prosthetic Reconstruction 1st sem
SGD PE 811 Orthodontic Mechanotherapy
  2nd sem
SGD PE 815, 816 Seminar: Literature Review
  1st & 2nd sem
SGD PE 817, 818 Seminar: Grand Rounds
  1st & 2nd sem
SGD PE 819, 820 Seminar: Periodontal Surgery
  1st & 2nd sem
SGD PE 821 Preclinical Periodontology
  1st sem
SGD PE 823, 824 Clinical Periodontics, Phase I
  1st & 2nd sem
SGD PE 825, 826 Clinical Periodontics, Phase II
  1st & 2nd sem
SGD PE 827 Applied Dental Pharmacology
  2nd sem
SGD PE 901, 902 Seminar: Periodontology
  1st & 2nd sem
SGD PE 911, 912 Clinic: Periodontology
  1st & 2nd sem
SGD PE 991, 992 Periodontology (approved investigation and successful defense of thesis)
  1st & 2nd sem

The MSD program is three years long, with a research project and thesis requirement. It is otherwise comparable to the CAGS program.

**Prosthodontics**

Ronald G. Granger, AB, DDS, FACD, Chair

The two-year CAGS program prepares the candidate with a comprehensive knowledge of fixed and removable prosthodontics. Students may place clinical emphasis in either of these two areas. The curriculum includes complete dentures, removable partial dentures, fixed partial dentures, and maxillofacial prosthodontics. The didactic background and clinical and laboratory skills of these prosthodontic areas are stressed. Emphasis is placed on the periodontal integrity of the patient and the supportive therapy of all other disciplines in achieving total patient care. This is achieved through interdisciplinary joint seminars with the other specialties and through coordinated treatment planning. An important aspect of this curriculum is the intensive and systematized library reading requirements, designed to acquaint the student with the principal facets of the prosthodontic specialty, including dental materials, gnathology, occlusion, treatment philosophies, and case selection.

This program is carefully designed along the ADA guidelines for graduate programs in prosthodontics and the multidisciplinary scope of the American Board of Prosthodontics for specialty certification examination eligibility.

The MSD program is three years long, with a research project and thesis requirement.

**Curriculum**

**Preclinical Sciences**

SGD OB 761 Oral Microbiology
  1st sem
SGD NS 781 Application of Nutritional Principles
  1st sem
SGD PH 762 Biomedical Law and Ethics
  2nd sem
SGD PH 763 Medical Surgical Management of the Patient
  1st & 2nd sem
SGD PH 764 Psychological Considerations for the Dentist
  2nd sem
SGD PH 766 Research Design with Computer Laboratory
  2nd sem
SGD OB 767 Oral Immunology
  2nd sem
SGD PE 761, 762 Topics in Periodontology
  1st & 2nd sem
SGD PR 761, 762 Occlusion
  1st & 2nd sem
SGD OB 763, 764 Oral Biology
  1st & 2nd sem
SGD PE 804 Endodontics for Prosthodontists

**Clinical Sciences**

SGD PR 801, 802 Fundamental Principles of Fixed Prosthodontics
  1st & 2nd sem
SGD PR 803, 804 Complete Denture Prosthodontics
  1st & 2nd sem
SGD PR 806 Removable Prosthodontics
  1st & 2nd sem
SGD PR 807, 808 Seminar: Prosthodontic Literature Review
  4 sems
SGD PR 809, 810 Fundamentals of Full Mouth Reconstruction
  1st & 2nd sem
SGD PR 811 Partial Coverage and Hydrocolloid Techniques
  2nd sem
SGD PR 812 Prosthodontic Documentation and Case Presentation
  2nd sem
SGD PR 814 Removable Prosthodontics—Overlay Denture
  2nd sem
SGD PR 815 Basic Prosthodontic Techniques
  1st sem
SGD PR 818 Principles of Gnathology
  2nd sem
SGD PR 820 TMJ and Physiopathology
  2nd sem
SGD PR 825, 826 Postdoctoral Biomaterials
  1st & 2nd sem
SGD PR 901, 902 Prosthodontic Literature Review
  4 sems
SGD PR 911, 912 Prosthodontic Clinic
  1st & 2nd sem
SGD PR 991, 992 Prosthodontic Research
  1st & 2nd sem
SGD PE 811 Orthodontic Mechanotherapy for Periodontics and Prosthodontics
SGD EN 819 Endodontics for Periodontics and Prosthodontics
SGD PR 830, 831 Seminar: Prosthodontic Treatment Planning and Techniques
  4 sems
SGD PR 827 Seminar: Articulators, Articulations, and Concepts of Occlusion
  1st sem
Postdoctoral Courses

Courses are coded with a departmental abbreviation and are arranged alphabetically by the department code.
Codes used are as follows:

EN Endodontics
NS Nutritional Sciences
OB Oral Biology
OP Operative Dentistry
OR Orthodontics
OS Oral and Maxillofacial Surgery
PD Pediatric Dentistry
PE Periodontology
PH Dental Care Management (Public Health)
PR Prosthodontics

Endodontics

SGD EN 801, 802 Endodontics I Details essentials of endodontic diagnosis, treatment planning, and therapy. All forms of endodon-
tic treatment discussed and evaluated, with emphasis on indications for nonsurgical and surgical therapy as well as the correlation of
these therapies to other phases of dentistry such as periodontology, restorative dentistry, and pedodontics. Develops the funda-
mental philosophy and techniques of patient care. Dr. Schiller and staff. 4 sem.

SGD EN 803 Endodontics II Prerequisite for clinical program. Participation in endo-
donotic procedures performed on extracted teeth. Lectures and clinical demonstrations by the endodontic staff cover the range of
clinical procedures to be perfected by students during the clinical phases. Dr. Schiller, Walker, and Williams. 1 sem.

SGD EN 804 Endodontics IV Seminars on endodontic/prosthetic, endodontic/pediatric, endodontic/pediatric correlation
for therapy. A senior staff prosthodontist, pediatric dentist, and periodontist join the endodontic staff to present the diagnosis and
treatment planning of endodontic therapy combined with therapeutic approaches in these other specialties. Dr. Schiller and staff. 1 sem.

SGD EN 805, 806 Endodontics V Seminars based on intensive and compre-
hensive readings in the literature of endodon-
tics covering all facets of endodontic diagnosis, prognosis, treatment planning, and therapy. Dr. Schiller and staff. 4 sem.

SGD EN 807 Seminar: Endodontic Radi-
ology A review course for the postdoctoral
endodontic student. Details radiographic
 technique, radiation, and the chem-istry of photography to minimize the ex-
posure of patients and dental staff. Dr. Wolman. 1 sem.

SGD EN 808 Physiology of Pain A signi-
ificant element in achieving a successful en-
dodontic result is the control of pain during
and after each endodontic procedure. This
course reviews the mechanism of pain trans-
mission and methods of controlling it. Dr. Wolman. 1 sem.

SGD EN 809 Microbiology in Endodontics Designed to provide a comprehensive understand-
ing of the microbiological spectrum in pulpal-periapical disease. Emphasis on clinical and biological approach, with
therapeutic considerations. Dr. Matusow. 1 sem.

SGD EN 810 Pulp and Periapical Patho-
biology Seminar for advanced endodontic
students. Comprehensive and up-to-date look
at pulp and periapical tissues with clinical correlates. Students present cases and analyze histologic aspects. Dr. Richardson. 1 sem.

SGD EN 811, 812 Seminar: Endodontic Diagnosis and Treatment Planning Develop logical approaches to endodontic
diagnosis and treatment planning procedures. Includes discussion of a wide range of
endodontic problems not usually encour-
taged in clinical courses. Dr. Melnick. 2 sem.

SGD EN 813 Seminar: Surgical Endon-
donics Seminars based on case studies in-
volving periapical surgery. Presentations/
discussions emphasize diagnosis, treatment
techniques, and complications during periapical surgery. Dr. Nagel. 1 sem.

SGD EN 814 Restoration of Endodon-
tically Involved Teeth Presentation by a
senior staff member of the Prosthodontics
Department of rationale and operative pro-
cedures best employed in restoring endodon-
tically treated teeth and in using them as
long-term abutments for prosthetic appli-
cances. Dr. Barabini. 1 sem.

SGD EN 815 American Board of Endo-
donics Preparation Student examined orally on a specific topic from a series of
subjects related to endodontics, followed by
class discussion. After discussions of all
topics in the series, students are given writ-
en and oral examinations designed to close-
ly parallel American Board Examinations.
Evaluations based on ability to display
knowledge. Dr. Lithotis. 1 sem.

SGD EN 816 Pediatric Dentistry/Endo-
donics Seminars emphasize the treatment of
traumatic injury, including discussions on
diagnosis, pulpotomy, apexification, frac-
tures, luxation, and evulsion of teeth (both primary and secondary). Dr. Rosenkrantz. 1 sem.

SGD EN 817 Endodontics for Periodon-
tists and Prosthodontists Focuses on the
biological foundations of pulp and periapical
disease and the diagnosis and treatment of
periodontic and prosthetic endodontic
problems. For first-year students. Dr. Schiller.
6 wks.

SGD EN 811, 812 Endodontics III Clinical participation in surgical and nonsurgical
phases of endodontic therapy. Special atten-
tion to development of diagnostic skills and
clinical endodontic facility and to the appli-
cation of a therapeutic approach formed in
consultation with other dental specialties. Dr. Schiller. 2 sem.

SGD EN 891, 892 Endodontics VI Approved research in endodontics. Designed
as a partial requirement for the Certificate of
Advanced Graduate Study in Endodontics
and the Master of Science in Endodontics.
Four semesters and summer as partial fulfill-
ment of requirements for Master of Science Degree. Selected preceptor. 4 sem and
summer.

Nutritional Sciences

SGD NS 761 Application of Nutritional
Principles An overview of nutritional con-
cepts, the nutrients, diseases where nutrition
may have a primary or a secondary effect,
clinical manifestations of such disorders
with particular emphasis on the head and
neck region, and the evaluation of the diet in
the management of patients. This course is
designed for graduate dental students with a
strong background in the biological sciences
as related to nutritional principles. Dr. Fillios. 1 sem.

SGD NS 765 Seminars: Nutritional
Sciences Weekly research seminar. Presen-
tations and discussions by students and staff.
The critical evaluation of current scientific
literature in nutrition and in the communi-
cation of related ideas. Dr. Fillios and staff. 2 sem.

SGD NS 788 Advances in Nutritional
Sciences Prereq: NS 781 and consent of
instructor. Interdisciplinary, comprehensive
approach to the science of nutrition. Lec-
tures, lab, and clinical demonstrations. Two
sections offered alternate years. May be re-
peeled for credit. Dr. Fillios and staff. 1 sem.

SGD NS 888 Tutorials in Nutritional
Sciences These weekly sessions are of-
fered only to candidates for the Doctor of
Science degree. The purpose is to discuss
basic and advanced topics to ascertain that
each individual candidate is knowledgeable
in all areas of the profession. The tutorials
also serve as a means of assessing that each
candidate is adequately prepared to take the
oral qualifying examination. Limited to
three students per semester. Dr. Fillios 1 or
2 sem.

SGD NS 891 Research: Nutritional
Sciences Research labs with animal quar-
ters available for a wide variety of biochem-
ical and morphological research projects
related to nutrition. Arrangements can be
made with other labs at the Medical Center
to use specialized facilities and equipment.
Variable credit. Dr. Fillios and staff. 2 sem.
Oral Biology

SGD OB 761 Oral Microbiology
Distribution, ecology, and pathogenic potential of oral microbiota. Pathogenicity of components of bacterial plaque and their role in the development of oral diseases. Mechanisms of local and systemic resistance to pathogenic oral microbiota. Dr. Franzblau and staff. 1 sem.

SGD OB 763, 764 Oral Biology
Studies of mechanisms of cellular reactions of the oral cavity underlying many chemical manipulations. Emphasis on interactions of cells and extracellular matrix, control of mineral metabolism, and repair responses of tissues to injury. Dr. Franzblau and staff. 2 sem.

SGD OB 767 Oral Immunology
Defense mechanisms that the host utilizes against exogenous matter. Although the immune system is protective, there is also a destructive aspect that affects most tissues; the course deals with these seemingly divergent mechanisms. Dr. Franzblau and staff. 1 sem.

Operative Dentistry

SGD OP 801 Radiology Review

SGD OP 802 Advanced Restorative Systems
Lectures, seminars, and clinical instruction in advanced methods of tooth preparation and material selection and usage. Restoration placement procedures in difficult applications using pins, posts, and specially fabricated matrices for incremental materials. Restorative needs assessed in relation to cost effectiveness of modern materials. Drs. Ponte and Chaisson. 1 sem.

SGD OP 803, 804 Seminars: Operative Dentistry
Review of literature with assigned topics designed to be presented. Other topics are researched and presented. This is a participation course patterned as an ongoing symposium with student presentations and evaluations. Drs. Ponte, Chaisson, and McManus. 2 sem.

SGD OP 805 Preclinical Techniques and Operative Philosophy
Cavity design and fabrication of matrix systems. Consideration given to previous training and present state of the art. Retention methods for various dental materials are presented. Restorations fabricated in the lab using Etch-Bond composites, silver amalgam, cast gold, and gold foil. Special attention to cavity design, margins, morphology, occlusal contacts and function, and proximal contacts and embrasures design. Drs. Chaisson, Cataldo, and Reznick. 1 sem.

SGD OP 806 Conformative Occlusion
Single tooth restorations maintaining occlusal schemes and patterns that are physiologically and functionally stable without developing new patterns of occlusion. Drs. Ponte, Reznick and staff. 1 sem.

SGD OP 807, 808 Preclinical Technique Lab
Instruction in instrumentation and development of cavity preparation. CAVITIES fabricated and restorative materials placed with attention to outline form, retention and resistance form, line and point angles, reestablishment of tooth morphology, occlusal contact placement, and function. Drs. Ponte, Chaisson, and Reznick. 2 sem.

SGD OP 809 Instrumentation Symposium

SGD OP 911 Clinical Operative Dentistry I
Clinical participation in operative dentistry procedures. Special attention to role of operative dentistry as part of total patient care. Drs. Chaisson and Ponte. 1 sem.

SGD OP 913, 914 Clinical Operative Dentistry II
Clinical participation in advanced operative dentistry procedures with special emphasis on restorative needs in advanced periodontal disease. Short- and intermediate-term stabilization as well as clinical influence of occlusion in relation to advanced mobility at the clinical level. Drs. Chaisson and Ponte. 2 sem.

Oral and Maxillofacial Surgery

SGD OS 860 Principles of Surgery
The entire spectrum of oral surgery, emphasizing proper diagnosis and treatment. Management of the medically compromised patient is included with proper respect for the application of basic sciences to patient care. Dr. Booth and staff.

SGD OS 861, 862 Head and Neck Anatomy
Intensive course of lectures and dissection with demonstrations of surgical and clinical approaches and techniques. Dr. Metz.

SGD OS 863 Advanced Medicine
Allows advanced education students to gain proficiency and in-depth knowledge of evaluation and treatment of patients with acute and chronic systemic illnesses. Dr. Kaslowicz.

SGD OS 865 Experimental Surgery
Advanced surgical course emphasizing several surgical techniques under sterile operating room conditions. Dogs and primates used as subjects. Dr. Shepherd.

SGD OS 866 Orthognathic Surgery
Designed to familiarize students with the problems associated with the diagnosis and treatment of dentofacial deformities. Stresses orthodontic principles and surgical techniques, and team evaluation. Drs. Booth and Dietz.

SGD OS 868 Oral Pathology
Graduate oral pathology is designed to rekindle an interest and impart a depth of knowledge in selected areas of pathology related to the oral and parotid structures, oral manifestations of systemic disease. Dr. Cataldo.

SGD OS 869 Anesthesia
All clinical aspects of anesthesia practiced under the direct supervision of anesthesia staff members. Includes nasal and oral endotracheal intubation, hypnosis anesthesia, and management of anesthetic emergencies. Drs. Crocker and staff.

Pediatric Dentistry

SGD PD 801, 802 Lecture: Pediatric Dentistry
Lectures and seminars on the theory and practice of pediatric dentistry. Factors related to treatment planning and measures for control of oral disease in children, in greater detail. Dr. Allard and staff. 2 sem.

SGD PD 803, 804 Seminar: Pediatric Dentistry
Comprehensive review of the literature pertinent to prevention and control of dental and oral deformities and diseases in the child. Emphasis on case presentations. Dr. Allard and staff. 2 sem.

SGD PD 805, 806 Lecture: Orthodontics
Emphasis on growth and development, cephalometrics, diagnosis and treatment planning, and the evaluation of the normal and abnormal conditions in the primary, early mixed, and late mixed dentitions. For students in pediatric dentistry. Dr. Kapala. 4 sem.
Postdoctoral Courses

SGD PD 807, 808 Orthodontics Clinic for Pediatric Dentistry Residents Development of clinical expertise through practical application of principles developed in lecture and seminar. Dr. Kapala. 2 sem.

SGD PD 911, 912 Pediatric Dentistry (Clinic and Hospital) Supervised clinical and hospital experience in the total dental and oral care of the child and adolescent patient. Measures employed for cases control and maintenance of periodontal health, restoration of missing members of the dentition, and correction of oral and dentofacial deformities. Dr. Kapala and staff. 4 sem.

SGD PD 991, 992 Research: Pediatric Dentistry Guidance for investigation that fulfills one of the requirements for the Master of Science in Dentistry. Research topic chosen from the preclinical and clinical subjects associated with pediatric dentistry. Selected preceptor. 2 sem.

Periodontology

SGD PE 761, 762 Topics in Periodontology Basic concepts for specialists interacting with the discipline of periodontology. Course includes an update on tooth formation and eruption, development of periodontium, the gingival sulcus and junctional epithelial complex, periodontal biology, dysfunctional manifestations, occlusal traumatism and the traumatic lesion, periodontal inflammation, diseases of children and adolescents, systemic factors, and rationale for periodontal therapy, including wound healing. Dr. Ruben. 2 sem.

SGD PE 801, 802 Periodontology Formation of the periodontium, clinical anatomy, microscopic structure, and physiology of the periodontium and the pathogenic processes affecting its integrity. Etiology, epidemiology, and diagnosis of periodontal disease and the biologic bases of periodontal therapeutic modalities. Dr. Ruben. 2 sem.

SGD PE 805, 806 Lecture: Periodontology Concepts, criteria, and techniques involved in periodontal diagnosis, treatment planning, and therapy. Dr. Ruben and staff. 2 sem.

SGD PE 807, 808 Seminars: Treatment Planning in Periodontics Weekly case presentations followed by discussion of various alternatives of periodontal therapy and integrated dental disciplines. Drs. Smukler, Isenberg, and staff. 2 sem.

SGD PE 809 Principles of Prosthetic Reconstruction Factors influencing the diagnosis, prognosis, and treatment planning for restorations requiring prosthetic reconstruction. Emphasis on periodontal structures and their influential concepts of occlusion and their clinical application. Dr. Stein. 9 wks.

SGD PE 811 Orthodontic Mechanotherapy for Periodontics and Prosthodontics Basic principles for tooth movement and their application to clinical situations. Treatment planning and orthodontic mechanics stressed. Provides a solid knowledge of adult tooth movement. Dr. Arena. 1 sem.

SGD PE 815, 816 Seminar: Literature Review Weekly seminar focusing on the critical evaluation of classic and current periodontal literature. Provides the student with the background necessary to develop and defend rationales for therapy. For second-year students. Dr. Smukler. 2 sem.

SGD PE 817, 818 Seminar: Grand Rounds Weekly case presentations by second-year periodontic and prosthodontic students, emphasizing comprehensive treatment planning. Students and faculty discuss ideal and alternative treatment plans. Stresses importance of interdisciplinary coordination of treatment. For first- and second-year students. Dr. Smukler and staff. 2 sem.


SGD PE 821 Preclinical Periodontology Introduction to the practice of clinical periodontics through lectures, seminars, and clinical exercises. Instruction in the etiology and epidemiology of periodontal disease, methods of data collection, instrumentation, and prevention of disease. Clinical exercises in patient examination, case documentation, initial therapy, and treatment planning. For first-year students. Dr. Bercichevsky and staff. 9 wks.

SGD PE 823, 824 Clinical Periodontics, Phase I An introduction to the rationale for and objectives of periodontal therapy. Weekly lectures cover data collection, treatment planning, and the role of initial therapy in periodontal treatment. For first-year students. Drs. Smukler, Isenberg, and staff. 2 sem.

SGD PE 825, 826 Clinical Periodontics, Phase II Lecture series stressing the objectives, advantages, indications, rationales, and techniques of the many surgical procedures used in periodontics. For second-year students. Drs. Smukler, Isenberg, and staff. 2 sem.

SGD PD 827 Applied Dental Pharmacology Discussion of the major drug classes and their relationship to dental management of the patient, including contraindications, precautions, adverse reactions, and drug interactions. For first-year students. Dr. Kupferman. 6 wks.

SGD PE 901, 902 Seminar: Periodontology Weekly seminar on extensive reading in the literature of periodontology and related dental and basic sciences. Provides broad framework for practice and teaching. For first-year students. Drs. Rosania and G. Castellucci. 2 sem.

SGD PE 911, 912 Clinic: Periodontology Clinical periodontal practice emphasizing the elements of case documentation, patient evaluation and examination, diagnosis, prognosis, and treatment planning. Complete periodontal therapy performed under staff guidance. For first-year students. Dr. Ruben and staff. 2 sem.

Dental Care Management

SGD PH 762 Biomedical Law and Ethics Introduces the fundamental principles of biomedical ethics and law, with a focus on professional ethics and malpractice as they affect the practicing dentist. Drs. Jong and Beal. 1 sem.

SGD PH 783 Medical and Surgical Management of the Patient Designed to give students working knowledge of the management of the systemically compromised patient. Focuses on biology of disease in dentistry, hospital management, head and neck anatomy, and surgical anatomy. A rationale is presented for pre-and postoperative patient assessment and management. Dr. Thomas. 2 sem.

SGD PH 784 Psychological Considerations for the Dentist Through the use of the case-study method, students in a variety of postdoctoral specialties explore psychological and behavioral dimensions of dental care. Students are required to read extensively in the literature, specifically in the areas of psychology relating to their specialty. Dr. Kamen. 1 sem.

SGD PH 785 Research Design with Computer Laboratory Topics include introduction to fundamental techniques for developing research projects, examining resources, and interpreting and analyzing research results. Laboratory involves small group, statistical problem sessions with examples derived from dental literature. No prior computer experience is required. Dr. Boffa and staff. 2 cr. 1 sem.

SGD PH 801 Introduction to Public Health History and overview of major public health concerns, including an analysis of health care costs, manpower issues, methods of delivery of care, regulation, legislation, program planning and evaluation, and environmental health issues. Drs. Jong and staff. 4 cr. 1 sem.

SGD PH 803 Biostatistics Develops skill in elementary statistical techniques necessary in handling group data in the health care area, including normal distributions, central tendency, and significance testing. Drs. Boffa and Burek. 4 cr. 1 sem.
SGD PH 804 Introduction to SPSS This course covers in depth the concepts taught in Biostatistics I. Includes a more detailed discussion of estimation techniques, central limit theorem, analysis of variance, regression, and correlation, and analysis of covariance. Multivariate techniques will be covered in conjunction with SPSS (Statistical Package for Social Sciences) facilities at Boston University Academic Computing Center. 2 cr, V sem.

SGD PH 804 Introduction to Computers Designed for students with no prior experience with computers. Those students with programming experience will elect to take a more formal language or computer systems course from Boston University's Charles River Campus. Emphasis in this course will be on the social impact of computers, computer applications in research and administration, algorithms, flow-charting, and programming. Dr. Boffa. 2 cr, V sem.

SGD PH 805 Principles of Epidemiology Study of predisposing causative factors and frequency of disease in certain populations. Topics include descriptive epidemiology, formulation of hypotheses, analytic epidemiology, and experimental epidemiology. Dr. Boffa. 3 cr, 1 sem.

SGD PH 807 Research Methods Introduction to fundamental techniques for developing research projects, examining resources, interpreting research, and analyzing research information. Dr. Baruk. 3 cr, 1 sem.

SGD PH 808 Health Care Management and Finance Topics include accounting principles, budgetary processes, accounting documentation, and cash flow analysis, with an emphasis on dental care delivery using computer simulation. Dr. Boffa. 4 cr, 1 sem.

SGD PH 813 Practicum: Clinical Teaching Coreq: SGD PH 817 or previous clinical teaching experience. Practical experience in clinical teaching gained through supervision of dental, dental hygiene, or dental assisting students. 1-3 cr, 1-2 sem.

SGD PH 815 Master's Project: Research or Practicum Approved research of field investigation necessary to satisfy degree requirements. 0 cr, 1 sem.

SGD PH 817 Organizational Principles in Education Introduction to teaching techniques and evaluation including objective writing, course design, didactic methods, test construction and reliability, and grading. 4 cr, 1 sem.

SGD PH 820 Issues in Public Health Disciplines of management, economics, sociology, law, political science, and behavioral science as they relate to health and health care issues. 3 cr, 1 sem.

SGD PH 825 Statistical Analysis Using Minitab This course will provide the student with data analysis case studies in biostatistics and epidemiology. Topics include introduction to the Boston University timesharing system, minitab statistical package and its uses, and individual biostatistics and epidemiology problems to be analyzed by the students. Dr. Boffa. 1 sem.

SGD PH 991, 992 Research: Public Health Dentistry Investigation necessary to satisfy requirements for the MSD and DSc degrees. May include preclinical or clinical aspects of public health dentistry. In most instances, an epidemiologic or biostatistical correlation is required. Selected preceptor. 4 cr, 4 sem and summer.

**Prosthodontics**

SGD PR 801, 802 Fundamental Principles of Fixed Prosthodontics Survey course presenting basic principles of all aspects of fixed prosthodontic therapy. Full and partial coverage techniques and clinical experience in the necessary technical skills. Drs. Granger and Riis. 2 sem.

SGD PR 803, 804 Complete Denture Prosthodontics Historical evaluation of the techniques, articulators, and philosophies related to complete denture therapy. Emphasis given to the indications for various modalities and the handling of problem cases. Drs. Panakis. 2 sem.

SGD PR 806 Removable Prosthodontics Treatment planning, design, indications for clasp, semiprecision and precision attachment, retained-tooth and tissue-borne restorations with an emphasis on preservation of remaining structures. Dr. Sinibaldi and staff. 1 sem.

SGD PR 807, 808 Prosthodontic Seminar I, II Series of seminars on diagnosis and treatment planning of prosthodontic reconstructions. Case presentations and patient management are analyzed to illustrate the pitfalls in therapy and their programmed avoidance. Dr. F. Castellucci. 3 cr, 1 sem.

SGD PR 809, 810 Fundamentals of Full Mouth Reconstruction Factors influencing the diagnosis, prognosis, and treatment planning for dentitions requiring prosthetic reconstruction. Emphasis on endodontically treated teeth and their use as abutments, dowel cores on periodontal structure, and their influence role. Concepts of occlusion and the clinical application. Dr. Baraban. 2 sem.

SGD PR 811 Partial Coverage Preparation and Hydrocolloid Techniques A lecture-series covering the design of various partial coverage restorations and abutment retainers, plus hydrocolloid impression techniques for their indirect fabrication. Dr. Gassiraio. 1 sem.

SGD PR 812 Prosthodontic Documentation and Case Presentation Lectures and clinical demonstration of intra- and extraoral photographic and radiographic techniques required for prosthodontic case presentations. Dr. F. Castellucci. 1 sem.

SGD PR 814 Removable Prosthodontics-Overlay Denture Special course stressing minimal dental units in a removable prosthesis. Objectives, techniques, and rationale of the overlay denture in terms of providing a functionally viable modality of therapy. Dr. Mark. 1 sem.

SGD PR 815 Basic Prosthodontic Techniques Laboratory course in which students participate in preclinical prosthodontic techniques and concepts as well as advanced laboratory techniques. Dr. F. Castellucci. 1 sem.

SGD PE 817 Seminar: Grand Rounds An interdisciplinary comprehensive diagnostic and treatment planning approach to total patient care. 4 sem.

SGD PR 818 Principles of Gnathology Integration of the biological and mechanical aspects of the trigeminal system. Emphasis on its effect on mechanical concepts of occlusion. Engineering principles of mandibular motion to explain articulator design and illustrate the function of the system. Dr. Gassiraio. 1 sem.

SGD PR 820 TMJ and Physiopathology Examines normal and abnormal mandible function. Clinical manifestations of mandible dysfunction as well as diagnosis and control through appropriate treatment. Dr. Atkins. 1 sem.

SGD PR 825, 826 Postdoctoral Biomaterials In-depth discussion of all dental materials relative to the practice of restorative dentistry. The latest polymer and ceramic chemistry as well as the metallurgy of precious and nonprecious metals. Dr. Nathanson. 2 sem.

SGD PR 901, 902 Prosthodontic Literature Review Current and classical prosthodontic literature as a base for substantive discussion of concepts in therapy and research. Drs. Granger and Yaghoubzadeh. 4 sem.

SGD PR 911, 912 Clinic: Prosthodontic Advanced clinical participation in all phases of prosthodontics. 4 sem.

SGD PR 991, 992 Research: Prosthodontic Approved investigative effort to satisfy requirements for the MSD degree. Research may involve preclinical and clinical subjects related to prosthodontics. Selected preceptor. 4 sem.

SGD PE 817, 818 Seminar: Grand Rounds Weekly case presentations by second-year periodontic and prosthodontic students, emphasizing comprehensive treatment planning. Students and faculty discuss ideal and alternative treatment plans. Stress importance of interdisciplinary coordination of treatment. For first- and second-year students. Dr. Smukler and staff. 2 sem.
Dental Assistant Program

The dental assistant is a vital member of the dental health team. Trained dental assistants are in great demand and may find employment in a wide variety of dental settings. The Goldman School's Dental Assistant Program is nine months long. After completing the program students take the National Board Examination for Dental Assistants.

During the training period, students receive both clinical and didactic training. Clinical training includes actual clinic assignments in all of the dental specialty areas. Didactic courses give the student pertinent background information in the theoretical and biological considerations in dentistry.

Students who graduate from the program are eligible to transfer their credits to Boston University's Metropolitan College, where an associate's degree in dental assisting may be earned with a concentration in either liberal arts or dental office management. For information, see the section in this bulletin on the Associate of Science (AS) Dental Assistants Program.

Requirements for Admission
Requirements for admission to the dental assistant program are:

1. a high school diploma;
2. high school or college transcript;
3. three references; and
4. a personal interview.

Further information, including costs, may be obtained from the Director of the Dental Assistant Program, Boston University, Goldman School of Graduate Dentistry, 100 E. Newton Street, Boston, MA 02118, (617) 247-6335.

Curriculum
The program of study for the Dental Assistant Program, totalling 40 credits, is outlined below. The number of lecture and laboratory hours per week are indicated. Courses are 4 credits unless otherwise noted.

Semester I 18 Weeks
SGD DA 223 Preclinical I 2 hrs lecture, 3 hrs lab
SGD DA 131 Dental Materials 2 hrs lecture, 3 hrs lab
SGD DA 121 Head and Neck Anatomy 1 hr lecture
SGD DA 123 Preclinical II 3 hrs lecture
SGD DA 125 Dental Health Education and Nutrition 3 hrs lecture
SGD DA 221 Dental Anatomy 2 hrs lecture

Semester II 20 Weeks
SGD DA 127 Dental Sciences 3 hrs lecture
SGD DA 129 Practice Management 1.5 hrs lecture
SGD DA 209 Communications for Dental Assistants 1.5 lecture, 2 cr
SGD DA 210 Psychology 3 hrs lecture
SGD DA 211 Radiology 2.5 hrs lecture

Clinical Rotations 500 Hours
Endodontics
Operative Dentistry
Oral and Maxillofacial Surgery
Orthodontics
Pediatric Dentistry
Periodontics
Prosthodontics
Radiology

Courses
SGD DA 121 Head and Neck Anatomy
Basic information about the human body and its systems, with emphasis on head and neck anatomy.

SGD DA 123 Preclinical II Held prior to clinical assignments, this course covers charting, dental specialties, and office emergencies. CPR certificates are earned during this course.

SGD DA 125 Dental Health Education and Nutrition
Basic information on the course and progress of dental disease. How disease can be prevented by oral hygiene and proper nutritional habits. Includes the role of nutrition in the overall health of an individual.

SGD DA 127 Dental Sciences This course is divided into three subject areas. 1) Microbiology covers organisms that exist in the oral cavity and those relevant to sterilization procedures. 2) Pharmacology pertains to the various drugs used in treatment and prevention of disease and the usage and administration of anesthetics used in dentistry. 3) Pathology deals with the causes and effects of diseases found in the oral cavity; oral cancer and other disease states are discussed in terms of diagnosis and treatment.

SGD DA 129 Practice Management
Ethics and jurisprudence of dentistry. Business office procedures such as appointment control, telephoning, receiving and disbursements, recall systems, and supply inventory.

SGD DA 131 Dental Materials Provides students with information concerning the composition, properties, and manipulation of the various materials used in dentistry. Students use the materials in a laboratory situation to fabricate a temporary bridge, custom trays, and different types of dental models prior to clinical assignments.

SGD DA 209 Communications for Dental Assistants Grammar review; perception of self and others; verbal and nonverbal communication; first impressions, listening, interviewing.

SGD DA 210 Introduction to Psychology
Basic introduction to the study of psychology as a behavioral science; emphasis on learning, motivation, perception, personality, and social psychology.

SGD DA 211 Radiology History of radiology; radiation physics and production; biological effects of x-radiation; radiation safety; radiographic techniques, film processing and viewing procedures. Lectures are given in conjunction with rotations through the radiology clinic for preclinical training.

SGD DA 221 Dental Anatomy Designed to give the student a background in microscopic tooth development as well as the development of the supporting tissues. A laboratory session is held in conjunction with the lectures, where students learn tooth shape and form by drawing individual teeth.

SGD DA 223 Preclinical I Basic principles employed in four-handed sit-down dentistry. Laboratory sessions give the student the opportunity to become competent in procedures such as instrument transfer and aspiration before their clinical assignments.
Associate of Science Dental Assistant Program

This AS degree program is offered jointly by the Goldman School and Metropolitan College. Students focus either on arts and sciences or management, taking courses as required to fulfill basic requirements of the particular focus.

**Basic Requirements**

**Arts and Sciences**
- MET BI 105 Introductory Biology for Health Sciences
- MET BI 211 Human Physiology or MET CH 171 Life Science Chemistry
- MET EN 104 English Composition
- MET HC 300 Health and Society
- MET PS 101 General Psychology
- MET SO 106 Principles of Sociology

**Management**
- MET AC 101 Small Business Accounting
- MET BE 320 Managerial Psychology I
- MET EN 104 English Composition
- MET HC 300 Health and Society
- MET MG 301 Introduction to Management
- MET MG 310 Management Skills: Executive Writing or MG 410 Management of New and Small Enterprises
- MET PS 101 General Psychology

**Electives**
Students select two courses with the advice of the department coordinator.

**Specialization Preclinical Courses**
A two-semester course of study at the Goldman School is required and may be completed either before or after the basic requirements of a particular focus have been met. These specialization preclinical courses at the Goldman School must be completed with a grade of C or higher.

- SGD DA 121 Head and Neck Anatomy
- SGD DA 221 Dental Anatomy
- SGD DA 131 Dental Materials
- SGD DA 125 Dental Health Education and Nutrition
- SGD DA 223 Preclinical I
- SGD DA 123 Preclinical II
- SGD DA 127 Dental Sciences
- SGD DA 129 Practice Management

**Clinical Experience**
Students are required to complete a minimum of 500 clinical hours. These hours include rotations in the following clinical areas:
- Endodontics
- Operative
- Oral and Maxillofacial Surgery
- Orthodontics
- Pediatric Dentistry
- Periodontology
- Prosthodontics
- Radiology

*A postdoctoral and a predoctoral student care for a patient.*
Division of Continuing Education

Herbert Schilder, AB, DDS, FACD, FICD, Assistant Dean

Even before founding the Goldman School, Dr. Henry M. Goldman established an international reputation in continuing dental education, using faculty of outstanding clinical and academic quality. Courses were originally given at the Beth Israel Hospital and then in a variety of settings within the Boston University Medical Center.

Today, the Division of Continuing Education of the Goldman School is considered a foundation of the School, offering over seventy courses a year to more than 1,500 general dentists, dental specialists, and dental auxiliaries from around the country and around the world. Courses, which vary in length from one day to two weeks, present current concepts and procedures in all phases of dental practice and relevant scientific developments in dental and oral medicine. All participants receive continuing education credits acceptable to the American Dental Association and the Commonwealth of Massachusetts.

Any member of a recognized dental association is eligible for enrollment in the Division’s courses. Members are accepted in the order in which their applications are received. Full tuition must accompany each application. Tuition will be refunded if enrollment exceeds course limitations or if the course is cancelled.

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

University housing facilities are not available for participants in continuing education. A list of hotels conveniently located near the School is provided. Special announcements are issued periodically.

Precision and patience are necessary for work at the laboratory bench.
Facilities and Resources

Boston University Medical Center
The Boston University Medical Center, at 80 East Concord Street in the South End of Boston, forms a semi-autonomous but integral part of the University. It consolidates the resources and activities of the School of Medicine, the Goldman School of Graduate Dentistry, the University Hospital, and units such as the Humphrey Cancer Research Center and the Cardiovascular Institute. More than twenty New England health institutions are affiliated with the Center. Boston University Medical Center was established with the belief that by combining resources and activities, the basic objectives of patient care, teaching, and research of its constituent institutions could be more effectively met.

Goldman School of Graduate Dentistry
Principal clinical teaching facilities are located within the School. Ambulatory dental services include primary, secondary, and tertiary care in general dentistry and specialty clinics. Clinical facilities are designed so that each student is able to deliver care in a manner similar to that of private dental practice.

The Institute for the Correction of Facial Deformities, using a multidisciplinary team approach to patient care, provides comprehensive care for patients with congenital, developmental, and acquired facial deformities. The Institute operates within the Goldman School, using the resources of the Medical Center, and it acts as a teaching resource for the Goldman School and the School of Medicine on graduate and postdoctoral levels. One of the Institute’s aims is to make available to other members of the health profession the most current information concerning the diagnosis, treatment, and prevention of facial deformities. The Institute receives referrals from all six New England states, other parts of the United States, and foreign countries. It sees and treats approximately 100 new patients each year.

The Harold C. and Evalina M. Booth Ambulatory Surgery Unit was established by the Goldman School and University Hospital in October 1979 to provide surgical and dental care on a one-day admission basis. The Booth Unit, housed in the Goldman School, serves as an adjunct to the Institute for the Correction of Facial Deformities.

School of Medicine
The School offers a four-year program leading to the Doctor of Medicine (MD) degree. In cooperation with the College of Liberal Arts, the School offers a six-year liberal arts/medical education program and an eight-year modular medical integrated curriculum (MMEDIC) program, both of which lead to the BA and MD degrees. MA and PhD programs in medical sciences are available through the Division of Medical and Dental Sciences of the Graduate School. A combined MD/PhD program is also available. During the first year and a half of their education, predoctoral students at the Goldman School take Basic Science course offerings at the School of Medicine.

The School of Public Health, part of the Medical School, offers a program leading to the Master of Public Health (MPH), with concentrations in health law; health systems, environmental health; health behavior, health promotion, and disease prevention; and epidemiology and biostatistics. The combined programs are also available: the MD/MPH and the MA in Economics and MPH.

University Hospital
University Hospital, founded in 1855, is a 379-bed, private, nonprofit hospital. It is a major teaching hospital of the Goldman School and the School of Medicine. All full-time medical staff members and most physicians and dentists with admitting privileges are on the faculties of either the Goldman School or the School of Medicine.

University Hospital is a specialty referral center in medicine, surgery, psychiatry, and dentistry. It draws patients from a wide geographical area. The Hospital’s staff provides approximately 124,000 days of inpatient care and handles more than 68,000 outpatient visits each year.

The Institute for the Correction of Facial Deformities and the Booth Ambulatory Surgery Unit (described above) are joint programs of the Hospital and the Goldman School. In addition, the Hospital offers a wide range of inpatient and outpatient services, including a Regional Oncology Program, Occupational Health Services Center, Home Medical Service, and Neurological Referral Center.

Library
Students in the Goldman School use the library in the Instructional Building of the Medical Center. This library contains over 85,000 medical and dental volumes and regularly receives current periodicals and serial publications. All the important indexing publications are available, and new monographs and journals are constantly added to the files. Microfilms, microcards, and photocopying equipment are available. An extensive interlibrary loan service is maintained, and a well-trained staff is on hand to assist anyone using the library facilities.

Hubert H. Humphrey Cancer Research Center
The Humphrey Cancer Research Center was chartered by the President and the Board of Trustees of the University in 1974 to focus and organize the diverse and scattered cancer-related activities at the Medical Center and the Charles River Campus.

Dr. Paul Black, Director of the Center and Chair of the Department of Microbiology at the School of Medicine, directs a research team in immunological studies in the Goldman School’s basic science laboratories. Dr. Black’s group also interacts with dental faculty who are conducting research activity in immunological studies of periodontal disease.

The Hospital’s Evans Memorial Department of Clinical Research and Preventive Medicine, endowed in 1910, has produced many leaders in American medicine and has been responsible for important advances in the diagnosis, treatment, and prevention of disease.
Clinical Affiliations

Brookline Health Department
This affiliate of the Goldman School provides part of the clinical facilities and teaching personnel necessary for training in pediatric dentistry and dental public health. 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
This general pediatric hospital located at 30 Warren Street in Brighton is licensed for pediatrics and rehabilitation. It is nonsectarian 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 treatment of children with such handicaps as speech impairment or hearing loss. The philosophy of treatment involves the team approach, since no one specialty can render all necessary care. The Dental Department provides comprehensive care, with an emphasis on preventive dentistry. All postdoctoral students in pediatric dentistry perform dental care, under the guidance of staff members, in both the outpatient departments and the operating room.

Eunice Kennedy Shriver Center
The Shriver Center in Waltham is one of twelve institutions comprising a national network for research in mental retardation and related aspects of human development. The Center serves children from communities in northeastern Massachusetts, including urban centers characterized by poverty and severe social problems as well as suburban and semirural areas. The Center's dental facility has three fully equipped operatories, two of which are available for team use, and provides sufficient space for both individual and group instruction. Preventive dentistry and dental health education are emphasized. The facility also provides dental care for the developmentally disabled, both homebound and ambulatory.

Solomon Carter Fuller Mental Health Center
The EISEC Program (Early Intervention and Stimulation of Exceptional Children) is housed within this facility at 85 E. Newton Street in Boston. EISEC is a University Hospital clinic program under the auspices of the Department of Psychiatry of the Boston University Medical Center. It provides a variety of services for multi-handicapped children between the ages of three and twenty-one years.

The Department of Pediatric Dentistry of the Goldman School provides a supervised oral prevention and treatment service for program participants.

Boston City Hospital
This general hospital, located adjacent to the Boston University Medical Center, offers a variety of health services and is a major teaching hospital of the Medical Center. It is a 400-bed, inner-city hospital treating the poor and indigent in both inpatient and outpatient settings. The City Hospital supports a general-practice residency program in dentistry and is a component of the Boston University Oral Surgery Training Program. Pediatric Dentistry residents of the Goldman School regularly participate in clinical rotations provided by City Hospital's Department of Pediatric Medicine.

A postdoctoral student teaches proper brushing techniques.
Financial Information

Tuition, fees, residence hall charges, and any prior balance must be paid in full each semester either before the official registration deadline. For preregistered students, invoices are mailed to their permanent address several weeks prior to the start of the semester. Payments made in advance of registration should be directed to the Office of the Comptroller, P.O. Box 4105, Boston, MA 02215, at least three weeks before classes start.

The University accepts MasterCard and VISA. Checks must be made payable to Boston University.

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

The University assumes no liability for failure to provide educational or related services arising out of or due to causes beyond the reasonable control of the University. The University will exert reasonable efforts to provide comparable or substantially equivalent services, but its inability to do so shall not subject it to liability. The Trustees of the University reserve the right to change tuition rates or fees at their discretion whenever it is deemed advisable.

Deposit

Upon acceptance, students must make a nonrefundable deposit toward the first semester tuition. This deposit must be sent to the Registrar's Office along with a letter stating that the student intends to enroll in the class. In the event the student does not register in that class, the deposit will be retained by the University.

The deposits required for the various programs are:

- Predoctoral Program: $1,000 – February 1, $1,000 – March 1.
- Postdoctoral Program: $1,000.
- Graduate Program: $300.
- Dental Assisting Program: $200.

Deferred Payment

Boston University does not offer its own deferred payment plan. However, if you wish to finance your charges, monthly payment plans are available with the following agencies:

- Academic Management Services
  1110 Central Avenue
  Pawtucket, RI 02861
  (800) 556-6684

- Tuition Plan, Inc.
  Concord, NH 03301
  (603) 228-1161

Tuition

Full-time tuition figures for the 1985/86 academic year are indicated below. Costs for subsequent years will show an increase. For current figures, contact the Goldman School.

- Predoctoral Program: $17,500.
- Postdoctoral Program: $13,700.

Graduate Programs:

- Dental Public Health: $10,100.
- Nutritional Sciences: $10,100.

Dental Auxiliary Programs:

- Dental Assisting: $2,600.

Instrument Fees, Book Costs

Students in the DMD program are required to purchase three instrument kits from the University during enrollment in this program. The approximate total cost of these instruments is $4,500. The kits contain carefully selected items which are used most frequently during the course of study and which continue to be of value to students after they have completed the program.

For students enrolled in clinical postdoctoral programs, estimated costs for books and instruments are:

- Endodontics: $2,700.
- Operative Dentistry: $5,600.
- Orthodontics: $1,500.
- Pediatric Dentistry: $3,900.
- Periodontology: $3,500.
- Prosthodontics: $6,000.

Research Program Fee

A research fee of $3,000 is required for students enrolled in the Doctor of Science program or in a three-year MSD program. A research fee is also assessed, based on research costs, for the two-year postdoctoral program in dental public health.

Service Charges

In addition to the costs mentioned above, a number of service charges may affect a student. All fees and charges are nonrefundable and subject to change.

- Application for Admission: $35.
- Late Registration: $50 minimum.
- Late Payment: Students who complete their registration after the on-site date and before the University official registration deadline are assessed both a late registration fee ($50 for full-time students, $15 for part-time students, minimum) and a late payment fee ($50 for full-time students, $15 for part-time students, minimum).
- Reissue of Picture ID Card: $10.
- Transcript: $2. Transcripts ordered at one time in excess of ten are $2 each up to ten, $1 for each copy exceeding ten, $1.50 if notarized.
- Library: breakage or damage to property is charged at actual cost.
- Dental Assistant Student Activity Fees: $150.

Medical Insurance

Students are required to procure membership in a health insurance program. Students may elect to participate in the Boston University Medical Center, Blue Cross Blue Shield Master Medical Health insurance program. Rates for 1984/85 were:

- Individual: $622.00
- Family: $1,610.00

License/Intern Certificate to Practice Dentistry in Massachusetts

All residents in a clinical program at the School and its affiliate institutions and agencies must have a license to practice in the Commonwealth of Massachusetts or an intern certificate valid for one calendar year from the date issued by the Massachusetts Board of Registration in Dentistry. Specific information concerning the Intern License is distributed in the registration package prior to matriculation.

Professional Liability Insurance

All postdoctoral residents in a clinical program at the School and its affiliate institutions and agencies must have evidence of ownership of professional liability insurance for the duration of their program. Students may secure insurance through a plan of their own choice or by the recommended American Dental Association (ADA) and American Student Dental Association (ASDA) Program. Specific information is distributed to students in their registration packages prior to matriculation.

National Board Dental Examination Fees

Fees are payable to the American Dental Association, Commission on National Dental Examination, 211 E. Chicago Avenue, Chicago, Illinois 60611.

Fees for 1984/85 were:
Part I, administered to second-year students in July: $45. 
Part II, administered to fourth-year students in December: $65.
Retake of the Exam: $10 application fee; $10 for each subject retaken.

Northeast Regional Board of Dental Examiners
Fees are payable to the Northeast Regional Board of Dental Examiners, 2600 Virginia Avenue, NW, Washington, DC 20037.
NERB, administered to fourth-year students in May: $275.

Withdrawals, Leaves of Absence, and Refunds
Students, both full- and part-time, who find it necessary to withdraw from their curriculum must file an Official Withdrawal Form with the Registrar of the Goldman School within five days of the withdrawal. Mere absence from classes does not reduce a student's financial obligation nor guarantee that a final withdrawal will be approved for one or two terms.

Students wishing to take a leave of absence should send a letter to the Dean requesting a leave of absence. The student should also schedule an appointment with the Assistant to the Dean for Student Affairs. A leave of absence can be approved for one or two terms.

Students who officially withdraw from the University will have their accounts adjusted. Students withdrawing during the first two weeks of classes are eligible to receive a refund or credit of 80% of their tuition; during the third week, 60%; during the fourth week, 40%; during the fifth week, 20%. There will be no refund or credit after the fifth week of classes.

Financial Aid
Several representative sources of financial assistance available to dental students entering Boston University are listed below. A booklet, Financial Assistance—Goldman School of Graduate Dentistry, is available from the Boston University Medical Center, Office of Student Financial Management, 80 E. Concord Street, Boston, MA 02118.

Funding of financial aid varies from year to year, but the Loans and Scholarship Committee usually responds quickly to applications. The School's Office of Student Financial Management attempts to keep every accepted student well-informed of financial aid information, policies, and procedures.

DMD Program
Guaranteed Student Loans A graduate student may borrow up to $5,000 per year ($25,000 altogether), graduate and undergraduate loans combined, for educational expenses if family income is $30,000 or less per year. If the family income is above $30,000, students must demonstrate need by submitting a college financial aid form or short-term needs test. The interest is 7% and 9% for previous borrowers with outstanding loans, and 8% for new borrowers. Students can receive a federal subsidy to meet the interest charges for their in-school period. New York State residents should contact the Office of Student Financial Management for clarification of the Auxiliary Loan and New York State Supplemental Loan Programs.

Boston University School of Graduate Dentistry Loan This revolving loan fund provides interest rates at 9% and repayment structures extending to ten years. The fund is new and has limited resources. Loans are based upon need.

Health Professions Student Loan
This loan comes from a revolving fund produced by appropriations from the federal government and matched by the Goldman School. Legislation dictates that a Health Professions Loan may be awarded only to a student demonstrating exceptional financial need, family resources toward the cost of education cannot exceed $5,000. The HPS Loans begin to accrue 9% interest one year after the borrower's graduation and are payable for up to ten years in monthly installments. There is a one-year grace period immediately following graduation, and it is possible for the borrower to secure deferment for time spent in advanced professional training, Peace Corps, VISTA, the armed forces, or the US Public Health Service. No interest accrues during periods of grace or deferment.

National Direct Student Loans come from a revolving fund produced by appropriations from the federal government and held by Boston University. Limited amounts are available from time to time to aid students at the Goldman School. Loans accrue no interest until six months after the borrower's graduation; they thereafter require 5% interest and are payable over a maximum of ten years with minimum principal payments of $360 per year. Deferment is possible for service with the Peace Corps, VISTA, or the armed forces.

Cancellation is possible for teaching handicapped children and for combat service for the United States.

College Work-Study Funds for work-study jobs come from a grant made to Boston University by the federal government. Students must earn the grant by working at an agency that is nonprofit, nonsectarian, and apolitical. The work-study account pays a percentage of the wages, and the employer pays the remaining percentage. Jobs are available at the Boston University Medical Center for work-study students.

Summer Work-Study Depending upon fund availability, students may be able to secure summer work-study grants. Students must submit a separate application for these funds by early February.

Exceptional Financial Need Scholarship. Under the provisions of the Health Manpower Act of 1976, the School can award scholarships from government funds to first-year students of exceptional financial need. This need is defined as personal and/or family resources of zero or less. The 1984/85 benefits of this scholarship amounted to tuition and fees, required medical insurance, and a monthly stipend (twelve months) of $599. The School receives between one to three scholarships per year. Second-year students who have had Exceptional Financial Need Scholarships in their first year are given preference by the government in the selection for National Health Service Corps scholarships. No service commitment is required for the one-year EFN Scholarship, but the School cannot promise it will be able to support those students financially after they finish their first year. It is now unlikely that an EFN recipient will be accepted into the NHSC.

Dental Scholarships for Undergraduate Disadvantaged Minority Students are also available. Information and applications are available from the American Fund for Dental Education, Suite 1630, 211 E. Chicago Avenue, Chicago, IL 60611.

State Assistance Several states provide financial assistance to resident students. The Commonwealth of Massachusetts Dental and Medical Scholarship Program offers partial scholarship assistance to permanent residents of Massachusetts (resident since
Aid Funds.

obtaining a lender, the Office of Student
availability for a national lender program
charges. For students having difficulty
ately, full-time students are eligible for
regular CSL program. Thus, graduate
the Treasury Bill rate. Although the
rate is set at the 91-day Treasury Bill
fluctuate periodically based on changes in
The ALAS program currently carries a
interest rate, but the rate can fluc-
tuate periodically based on changes in
the Treasury Bill rate. Although the
loans enter "repayment status" immedi-
ately, full-time students are eligible for
a full-time student deferment. Full-time
students do not make principle pay-
ments on the loan but must pay interest
charges. For students having difficulty
obtaining a lender, the Office of Student
Financial Management has applications
available for a national lender program
that is guaranteed by United Student
Aid Funds.

Postdoctoral Programs
Goldman School postdoctoral students
are eligible for the Guaranteed Student
Loan Program described above. The
following programs are also available.

Senior Foreign Dental Scientist
Fellowships This program provides an
opportunity for leading dental investiga-
gators of countries outside the U.S. to
engage in scientific information with
dental researchers in this country. The
Fellow is paid a stipend and dependent’s
allowance throughout the assigned peri-
iod. Funds for the Fellow’s travel to the
institution and return home may be
provided up to $1,000 for individuals
who are engaged for a twelve-month
period. Lesser funds are available for
persons engaged for shorter periods.
During a twelve-month fellowship, a
maximum amount of $1,000 is avail-
able for approved travel within the U.S.
for the Fellow to attend meetings, pre-
sent lectures, conduct seminars, etc.
The host institution may be paid up to
$1,000 a year for laboratory support of
the Fellow. For information, write the
American Association for Dental Re-
search, 211 E. Chicago Avenue, Chi-
ago, IL 60611.

International Fellowships for Women of
Countries Other Than the United States
The American Association of University
Women Education Foundation
makes funds available for one-year
advanced research grants for women
from foreign countries. An applicant
must express the intention to return to
her native country to pursue her profes-
sional career. Satisfactory proficiency in
English is required. The applicant must
submit an up-to-date score on one of the
following tests of English: Test of
English as a Foreign Language (TOEFL),
University of Michigan Examination for
Proficiency in English, or the American
Language Institute, Georgetown Univer-
sity (ALIGU). Stipends range from
$3,500 to $7,000. Applications are
available from either the Cultural Af-
fairs Officer at any American Embassy
or by writing Education Foundation Pro-
grams Office, AAUW, 2401 Virginia
Avenue, NW, Washington, DC 20037.

American Academy of Periodontology
The Academy offers financial assistance
through a loan program to students en-
rolled in courses of postdoctoral peri-
dontology. Students may apply after
completion of four months of training.
The maximum amount under this plan
is $1,000. Interested persons should
contact the Student Loan Fund, Ameri-
can Academy of Periodontology, 211 E.
Chicago Avenue, Chicago, IL 60611.

Dental Teacher Training Fellowship
Established under the direction of the
American Fund for Dental Health, this
program is designed to assist those stu-
dents who are enrolled in a two-year
course leading to a master's degree. Re-
cipients must agree to teach at least two
and one-half days a week at an ac-
credited dental school. Fellowships in-
clude a stipend, living allowance for
each dependent, and full tuition. Applica-
tions are available from the American
Fund for Dental Health, 211 E. Chicago
Avenue, Chicago, IL 60611.

Smith-Holden Scholarships
Four scholarships of $300 each are offered
yearly for students who are residents of
Connecticut, Rhode Island, New Hamp-
shire, or Massachusetts. Qualifications
are determined and scholarships admin-
istered by the individual state dental
societies.

Health Education Assistance Loan
(HEAL) A student may borrow up to
$20,000 per academic year to an out-
standing total of $80,000. Loans may be
used only for educational expenses in-
cluding tuition, fees, room and board,
books, equipment, and interest on pre-
vious loans. In addition, students who
borrowed while in school may also
borrow during periods of internship, resi-
dency, and authorized periods of deter-
ment, but only to pay interest accru-
ing on previous HEAL loans. The interest
rate is set at the 91-day Treasury Bill
plus 3.5%. Currently, interest is
12.75% compounded semiannually.

Auxiliary Loans to Assist Students
(ALAS) were authorized in October
1981 in the Federal Budget Reconcilia-
tion Act of 1981. Under the ALAS pro-
gram, graduate and professional stu-
dents may borrow up to $3,000 per year
and $15,000 in the aggregate in addition
to the amounts they receive through the
regular GSL program. Thus, graduate
and professional students can receive up
to $8,000 per year and $40,000 in the
aggregate through the two programs.
The ALAS program currently carries a
12% interest rate, but the rate can fluc-
tuate periodically based on changes in
the Treasury Bill rate. Although the
loans enter “repayment status” immedi-
ately, full-time students are eligible for
a full-time student deferment. Full-time
students do not make principle pay-
ments on the loan but must pay interest
charges. For students having difficulty
obtaining a lender, the Office of Student
Financial Management has applications
available for a national lender program
that is guaranteed by United Student
Aid Funds.

September 1, 1980). Entering students
from other states should contact their
state government to determine if similar
financial assistance programs are avail-
able and transferable to other states.

State and Local Dental Societies
provide loan and scholarship funds for
dental students. Inquiries should be made
at respective state and local dental so-
cieties to obtain information regarding
availability of financial aid.

Smith-Holden Scholarships Four
scholarships of $300 each are offered
yearly for students who are residents of
Connecticut, Rhode Island, New Hamp-
shire, or Massachusetts. Qualifications
are determined and scholarships admin-
istered by the individual state dental
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dency, and authorized periods of deter-
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ments on the loan but must pay interest
charges. For students having difficulty
obtaining a lender, the Office of Student
Financial Management has applications
available for a national lender program
that is guaranteed by United Student
Aid Funds.
Policies and Procedures

The general policies of the Goldman School and Boston University appear below. See the sections in this bulletin that describe specific programs for more information. Some of the School's policies and procedures are described in greater detail in the clinic manual distributed to matriculated students.

Registration
Prior to enrollment, students receive registration instructions from the Registrar of the School. Registration is conducted under the direction of the University Registrar. An officially registered student is one who has:

1. submitted the registration form, obtained necessary approvals, and had tuition and fee charges assessed;
2. settled in full with the Comptroller's Office the current semester tuition and fees, residence charges, and any prior semester balance; and
3. had the invoice approved by the Comptroller's Office and obtained an ID validation sticker.

A student who does not register on time must report to the Registrar for permission to register late. Late registration and late payment fees will be charged to students who fail to register during the official registration period.

Grading System and Promotion
For information about grading and promotion, see the Evaluation of Academic Performance section under Predoctoral and Postdoctoral Programs.

Absence
A student must inform the Dean's Office of the reason for any absence. All absences other than those necessitated by health or emergency must receive prior approval.

Transcripts
To request an academic transcript of grades and course work, submit a transcript request form to the Registrar's Office. Letter requests will be honored if they give complete information about attendance, including enrollment dates and course numbers and titles. Transcripts are mailed within five working days after receipt of the request. The transcript fee is $2. Transcripts are $2 per copy up to ten, and $1.50 if notarized and $1 if not notarized thereafter. Payment must accompany the request.

Veterans Information
In cooperation with the Veterans' Administration, the University participates in numerous veterans' benefits programs, including educational assistance, work-study, rehabilitation, deferred payment, and tutorial programs.

If you are eligible for veterans' benefits or would like more information about VA rules and veterans' programs, contact the Boston University Office of Veterans' Affairs, 881 Commonwealth Avenue, Boston, MA 02215, (617) 353-2390.

Privacy Act (Buckley Amendment)
Under the provisions of the Family Educational Rights and Privacy Act, also known as the Buckley Amendment, students have the right to inspect the educational records kept by the University concerning them, to request correction of any inaccurate data, and to file complaints concerning any misleading information contained therein. Parents of dependent students may inspect their son's or daughter's academic record after establishing proof of their dependency. Disclosures are restricted to those who are authorized and who have legitimate need for the data. The University safeguards against third-party redislosure of personally identifiable information.

An annual notification of rights and the procedures for exercising these rights are printed on the University registration form and mailed to supporting parents. Copies of the University's Compliance Manual and forms for obtaining access to records are available at each school or college office.

For further information contact your school or college office or the Assistant Registrar at the University Access Office, 881 Commonwealth Avenue, (617) 353-3678.

Equal Opportunity Policy
Boston University prohibits discrimination against any individual on the basis of race, color, religion, sex, age, national origin, physical or mental handicap, marital, parental, or veteran status. This policy extends to all rights, privileges, programs, and activities, including admissions, financial assistance, employment, housing, athletics, and educational programs. Boston University recognizes that nondiscrimination is a reality. Because of this, the University will continue to implement affirmative action initiatives which promote equal opportunity for all students, applicants, and employees. Inquiries regarding the application of this policy should be addressed to the Director of Equal Opportunity, Office of Personnel, 25 Buick Street, Boston, MA 02215, (617) 353-4475.

Grievance and Arbitration Procedures under Title IX
Undergraduate students who believe they have been discriminated against because of their race, color, creed, religion, ethnic origin, sex, age, or physical disability may file in writing a formal grievance with the Dean of Students. Graduate students file formal grievance directly with the dean of their school or college. The written statement should be as specific as possible regarding the action that precipitated the grievance: date, place, and people involved, efforts made to settle the matter informally, the remedy sought.

Within one week of receiving the statement, the Dean of Students forwards a copy to the appropriate person. If the complaint raises an academic question, the statement is forwarded to the dean of the school or college involved; if a nonacademic unit is concerned, the statement is forwarded to the administrative head of that unit. Individuals whose actions or inactions are the subject of the grievance receive a copy from their dean or administrative head and may respond in writing.

The dean or administrative head will try to meet with all concerned parties within two weeks of receiving the statement. He or she may receive both oral and written presentations and may make independent inquiry.

Within one week after such a meeting, the dean or administrative head decides the merits of the statement and appropriate resolution of the grievance. Copies of this decision are sent to the student, the individuals whose actions are the subject of the grievance, the Dean of Students, and the Provost. If dissatisfied with the decision, the student may appeal to the Dean of Students, and from there to the Provost.

A record of all formal grievances is kept in the office of the Dean of Students, East Tower of the George Sherman Union, 775 Commonwealth Avenue. Copies of all written statements, letters, etc., relating to a grievance should be sent to that office.

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Faculty

Clinical faculty are faculty appointed to supervise the clinical, didactic, or field experiences of students; they may also teach in courses dealing with clinical, didactic, or field work.

Edward A. Alexander  Professor of Medicine; Associate Professor of Physiology, School of Medicine. AB, Rutgers University; MD, Northwestern University

Richard Allard  Clinical Professor of Pediatric Dentistry. BS, DMD, Tufts University; Cert, MScD, Boston University

Myron Allukian  Lecturer in Dental Care Management. BS, Tufts University; DDS, University of Pennsylvania; MPH, Cert, Harvard University

Sahibah Al-Mutawa  Clinical Instructor in Pediatric Dentistry. BDS, Cairo University; Certs., Forsyth Dental Center, Boston University

Justin L. Altshuler  Clinical Professor of Dental Care Management. DMD, Tufts University

Morton Amsterdam  Visiting Professor of Prosthodontics. AB, DDS, University of Pennsylvania; FACD

Gaspar Anastasi  Clinical Professor of Surgery (Plastic), School of Medicine. BS, St. John's University; MD, University of Ottawa

Steven A. Arena  Director of Predoctoral Orthodontics; Instructor in Orthodontics. BA, University of Massachusetts; DMD, Cert, MScD, Boston University

Nargess Ashayeri  Clinical Instructor of Operative Dentistry. DMD, CAGS, MSD, Boston University

George Atkins  Assistant Clinical Professor of Prosthodontics. BS, University of Massachusetts; DMD, Tufts University

Steven V. Aveni  Assistant Clinical Professor of Operative Dentistry. BS, Stonehill College; DDS, Georgetown University

Jonathan Bamel  Clinical Instructor of Operative Dentistry. BS, Union College; DMD, Boston University

David J. Baraban  Professor of Prosthodontics. DMD, Harvard University; FACD, FICD

John A. Beal  Assistant Clinical Professor of Dental Care Management. BS, MS, Massachusetts College of Pharmacy; DMD, University of Pennsylvania (ID), Suffolk University; MPH, Harvard University, Cert, Boston University

John R. Bednar  Instructor in Orthodontics. BA, DMD, New Jersey College of Medicine and Dentistry; Cert, MScD, Boston University

Morris Berdichevsky  Assistant Professor of Periodontology. BS, CD, Universidad Nacional Autonoma de Mexico; Cert, MScD, Boston University

Leonard D. Berman  Professor of Pathology. BA, Hobart College; MD, New York University; DCP, University of London

Herbert F. Bernstein  Associate Clinical Professor of Oral and Maxillofacial Surgery. AB, DDS, New York University; Cert, University of Pennsylvania

Leonard Bernstein  Clinical Professor of Orthodontics. DMD, Tufts University; Cert, Boston University

Murray Bernstein  Clinical Professor of Orthodontics. BS, DMD, MS, Tufts University; FACD

Paul H. Black  Chair, Department of Microbiology, Director, Humphrey Cancer Research Center; Professor of Microbiology and Medicine, Research Professor of Surgery, School of Medicine. AB, Dartmouth College; MD, Columbia University

Michael Blau  Assistant Clinical Professor of Orthodontics. BS, DDS, McGill University; MPH, Cert, Harvard University

Arthur Bloom  Associate Professor of Oral Histopathology

Joseph Bufera  Associate Professor of Dental Care Management. DMD, State University of New York, Buffalo; MPH, Harvard University

Donald F. Booth  Assistant Dean for Hospital Affairs; Director, Institute for Correction of Facial Deformities and Booth Ambulatory Surgical Unit; Professor and Chair, Department of Oral and Maxillofacial Surgery. BA, Middlebury College; DMD, Harvard University; Cert, Tufts University

Jacques E.F. Bori  Visiting Associate Clinical Professor of Periodontology. BS, University of Paris; DMD, Tufts University; Cert, MScD, Boston University

Antonio E. Boschetti  Instructor in Pathology. AB, Boston College; MD, University of Bologna

William Bourassa  Director of Predoctoral Pediatric Dentistry; Associate Professor of Pediatric Dentistry, Oral Biology, and Nutritional Sciences. BS, University of Notre Dame; DMD, University of Louisville; Cert, MScD, PhD, Boston University

Farid Boustany  Associate Professor of Dental Care Management; Clinical Director, Division of Oral Diagnosis/Radiology, Radiation Safety Officer. DMD, St. Joseph University (Lebanon); Certs, Diploma of Oral Surgery, University of Paris, Cert, Tufts University; DMD, Boston University

Peter J. Brecher  Associate Professor of Biochemistry; Associate Research Professor of Medicine, School of Medicine. BS, Ohio University, PhD, Boston University

Jane U. Brisbane  Assistant Professor of Pathology. BA, Smith College; MD, Universidad Central de Venezuela

Selwyn A. Broitman  Professor of Microbiology and Nutritional Sciences, School of Medicine. BS, MS, University of Massachusetts; PhD, Michigan State University

Thomas R. Browne, III  Associate Professor of Neurology. AB, Princeton University; MD, University of Rochester

Beverly A. Bullens  Professor of Nutritional Sciences. BS, University of Wisconsin; MS, Wellesley College; MS, ScD, Harvard University

Belton A. Burrows  Research Professor of Medicine. School of Medicine. BA, Yale University, MD, Columbia University

Solomon Cadoff  Instructor in Prosthodontics. CDT

Michael Cahoon  Clinical Instructor in Oral and Maxillofacial Surgery. BA, University of California; DMD, Tufts University

Richard Carr  Assistant Clinical Professor of Pediatric Dentistry. BS, Lincoln University; MS, University of Missouri; DDS, Meharry Medical College; Cert, MScD, Boston University

Carlos Castellucci  Clinical Instructor in Endodontics. BChD, University of Pretoria; DMD, MScD, Cert, Boston University

Federico Castellucci  Instructor in Prosthodontics. BChD, University of Pretoria; DMD, Cert, MScD, Boston University

Giovanni Castellucci  Instructor in Periodontology. BChD, University of Pretoria; DMD, Cert, MScD, Boston University

Gennaro Cataldo  Director, Audionic Services; Associate Director of Clinical Operations; Professor of Operative Dentistry. MS, Harvard University; DMD, Tufts University, FICD

Edgar S. Carhart  Professor of Medicine. School of Medicine. MB, Ch, BAO, Queen's University of Belfast

Lloyd B. Chaissone  Director of Clinical Operations; Professor and Chair, Department of Operative Dentistry. BSc, Tufts University; DDS, Northwestern University, FICD

Dorothy Chase  Instructor in Physiology, School of Medicine. AB, BS, Tufts University; MA, MD, Boston University

Aram van Chobanian  Professor of Medicine. School of Medicine. AB, Brown University; MD, Harvard University

Lih-Nah Chou  Associate Professor of Microbiology. BS, National Taiwan University; PhD, University of Illinois

Thomas G. Christensen  Assistant Professor of Pathology. BS, Rutgers University; PhD, University of Vermont

Joseph Cochin  Professor of Pharmacology and Psychiatry, School of Medicine. BS, Wayne State University; PhD, MD, University of Michigan
Jay D. Coffman  Professor of Medicine, School of Medicine. AB, Harvard College; MD, Boston University

D. Walter Cohen  Visiting Professor of Periodontology. DDS, University of Pennsylvania

Stanley R. Cohen  Assistant Clinical Professor of Oral and Maxillofacial Surgery. AB, Boston University; DMD, Tufts University; MS, University of Kansas City

Stephen Colchamiro  Clinical Instructor in Operative Dentistry. BS, Brooklyn College; DMD, Harvard University

Roy A. Colella  Associate Clinical Professor of Operative Dentistry. BS, Boston College; DDS, Georgetown University

Theodore Colton  Professor of Sociomedical Sciences and Community Medicine and Public Health (Epidemiology and Biostatistics); AB, Brooklyn College; MS, University of North Carolina; ScD, Johns Hopkins University

Constance C. Cornog  Assistant Professor of Sociomedical Sciences and Community Medicine; Assistant Clinical Professor of Medicine, School of Medicine. AB, Earlham College; BS, Butler University, MD, Women's Medical College of Philadelphia

Melvin C. Cornwall  Associate Professor of Physiology, School of Medicine. BS, MD, University of Utah

Hugh D'Ambrosio  Clinical Instructor in Pediatric Dentistry. BA, College of the Holy Cross; DDS, New York University; Cert, MScD, Boston University; Cert, Allegheny General Hospital

Richard D. Diamond  Associate Professor of Medicine and Microbiology. BA, Brookline College; MD, Harvard University

Victor S. Dietz  Associate Professor of Orthodontics. DMD, University of Pennsylvania; Cert, MScD, Boston University

Ronald R. Diodato  Clinical Professor of Pediatric Dentistry. BS, Northeastern University; MS, University of Massachusetts; DMD, Tufts University; MScD, University of Nebraska

John E. Dittmer  Associate Professor of Anatomy. BS, Arizona State University; MA, PhD, Brown University

Douglas I. Doben  Assistant Clinical Professor of Periodontology. BS, DMD, University of Pittsburgh; Cert, Columbia University

William G. Does  Assistant Professor of Pathology. BS, MD, University of Wisconsin

Kenneth Drizen  Associate Clinical Professor of Orthodontics. MS, Northwestern University; DMD, Temple University

Stephen C. DuLong  Assistant Professor of Prosthodontics. BA, DMD, Cert, Boston University

Roohangiz Ebtehaj  Assistant Clinical Professor of Endodontics. DDS, Tehran University; MPH, Harvard University; MS, DMD, Boston University

Robert Eckner  Associate Professor of Microbiology; Assistant Professor of Pathology, School of Medicine. BS, John Fisher College; MS, Niagara University; PhD, State University of New York, Upstate Medical Center

Jean S. Emerling  Director, Predoctoral Removable Prosthodontics; Associate Professor of Prosthodontics. BA, DDS, State University of New York, Buffalo

Armond Enos  Clinical Instructor of Dental Care Management. BA, Dartmouth College; DMD, Meharry College

Salvatore J. Esposito  Assistant Clinical Professor of Oral and Maxillofacial Surgery. AB, Fordham University; DDS, Marquette University

Alvin Essig  Professor of Physiology, Research Professor of Medicine, School of Medicine. BS, Harvard College; MD, Ohio State University

J. Worth Estes  Associate Professor of Pharmacology, Sociomedical Sciences, and Community Medicine. School of Medicine. AB, Harvard College; MA, MD, Boston University

Elliot V. Feldbau  Clinical Instructor in Operative Dentistry. BA, Clark University; DMD, Harvard University; Cert, US Public Health Service

Martin L. Feldman  Associate Professor of Anatomy. School of Medicine. AB, Brown University; MA, PhD, Boston University

Robert Fexa  Dental Technician of Prosthodontics. BS, Boston University

Louis C. Fillos  Professor and Chair, Department of Nutritional Sciences; Professor of Biochemistry. AB, Harvard College; MS, ScD, Harvard University

Alan Filzer  Clinical Instructor in Pediatric Dentistry. BS, Brooklyn College; DMD, New York University; Cert, MScD, Boston University

Richard E. Fine  Associate Professor of Physiology and Biochemistry. School of Medicine. AB, University of California, Berkeley; PhD, Brandeis University

James A. Fiore  Assistant Clinical Professor of Prosthodontics. BS, Boston College; DMD, Cert, Tufts University; FACD, FICD, FAGD

Spencer N. Frankl  Dean of the School, Professor of Pediatric Dentistry. DDS, University of Virginia; MS, Tufts University; FACD, FICD

Carl Franzblau  Director, Division of Dental Research; Professor and Chair, Department of Biochemistry. BS, University of Michigan; PhD, Yeshiva University

Glady S Freund  Associate Professor of Psychiatry and Pharmacology. BA, University of Maine; PhD, Boston University

Paula K. Friedman  Director, Division of Oral Diagnosis and Radiology; Associate Professor of Dental Care Management. BS, University of Massachusetts, Amherst; DDS, Columbia University; Cert, Beth Israel Medical Center, N.Y.

Paul Fugazzotto  Research Associate in Periodontology. BS, Boston College; DDS, New York University Dental School; CAGS, Boston University

Joseph P. Garvey  Director, Predoctoral Fixed Prosthodontics; Associate Professor of Prosthodontics. BS, College of the Holy Cross; DDS, Baltimore College of Dental Surgery; Cerr, Boston University

Francis E. Gassiraro  Assistant Professor of Prosthodontics. AB, Boston College; DDS, University of Maryland

Gherardo J. Gherardi  Associate Professor of Pathology AB, Princeton University; MD, Columbia University

Casimiro Gampalo  Assistant Professor of Pathology. BS, University of Notre Dame; MD, University of Chicago

Anthony A. Gianelly  Professor and Chair, Department of Orthodontics. AB, Harvard College; DMD, Harvard University; PhD, MD, Boston University

George Gildea  Clinical Professor of Orthodontics. DMD, Cert, Tufts University

Rupert Gildenhuys  Associate Clinical Professor of Periodontology. BChD, University of Pretoria; Cert, MScD, Boston University

Richard Gillis  Instructor in Prosthodontics. BS, Boston College; DMD, Boston University

Caryn Glaser  Instructor in Dental Care Management. BS, Fairleigh Dickinson University; MS, Boston University

Henry M. Goldman  Dean Emeritus of the School, Professor of Oral Pathology and Periodontology. DMD, Harvard University; FACD, FICD

Ronald E. Goldstein  Associate Clinical Professor of Continuing Education. DDS, Emory University

Wayne A. Gonnerman  Assistant Professor of Biochemistry. PhD, University of Missouri

Michael N. Goodman  Associate Research Professor of Medicine; Assistant Professor of Physiology. PhD, University of Houston

Leonard S. Gottlieb  Professor and Chair, Department of Pathology. AB, Bowdoin College; MD, Tufts University

Ronald G. Granger  Professor and Chair, Department of Prosthodontics. AB, DDS, Columbia College; FACD
William J. Lehman  Associate Professor of Physiology, School of Medicine. BS, State University of New York, Downstate Medical Center; PhD, Princeton University

Robert Lerman  Assistant Professor of Nutritional Sciences. BS, Stevens Institute of Technology; MD, Jefferson Medical College; PhD, Massachusetts Institute of Technology

Harold J. Levin  Professor of Endodontics. BA, Cert, Boston University; DMD, Tufts University

Robert M. Levin  Associate Professor of Medicine. BS, St. Vincent College; MD, Loyola University, Chicago

Paul A. Levine  Assistant Professor of Medicine, School of Medicine. BA, MD, Boston University

Ruth R. Levine  Associate Dean, Graduate Biomedical Science Studies; Chair, Division of Medical and Dental Sciences; University Professor, Professor of Pharmacology, School of Medicine. BA, City University of New York, Hunter College, MA, Columbia University; PhD, Tufts University

Elinor M. Levy  Assistant Professor of Microbiology. MA, Brandeis University; PhD, Emory University

Philip Lieb  Clinical Instructor in Dental Care Management. AB, Brandeis University; DDS, Temple University

Jaime Lifshitz  Assistant Professor of Endodontics. DDS, Universidad Tecnologica de Mexico; DMD, CAGS, MscD, Boston University

Weldon Lloyd  Assistant Research Professor of Nutritional Sciences. BA, Dsc, Boston University; MA, Northeastern University

Peter Luki  Assistant Clinical Professor of Pathology. MD, Palacky University, Olomouc, Czechoslovakia

Leopold P. Lustig  Clinical Professor of Prosthodontics. DMD, Harvard University

Philip L. Maloney  Clinical Professor of Oral and Maxillofacial Surgery. AB, Boston College; DMD, Tufts University

Madalyn Mann  Coordinator, Extramural Programs; Assistant Professor of Dental Care Management. RDH, BS, Northeastern University, Forsyth Dental Center; MS, Boston University

Richard Manski  Clinical Instructor in Dental Care Management. BS, Boston College; DDS, Howard University

Leonard Mark  Assistant Clinical Professor of Prosthodontics. DDS, Cert, University of Pittsburgh; Cert, Naval Dental School in Maryland

Mario Martignoni  Visiting Professor of Continuing Education. MD, University of Rome

Frank Mastrola  Clinical Instructor in Dental Care Management. BA, Providence College; DDS, University of Maryland

Robert Matusow  Associate Clinical Professor of Endodontics. DMD, Harvard University

Mario G. Mazzacane  Clinical Instructor in Dentistry. BS, Providence College, DDS, University of Montreal

John McCahan  Associate Professor of Medicine, Socio-Medical Sciences, and Community Medicine, School of Medicine. AB, MD, University of Pennsylvania

Anthony L. McCall  Assistant Professor of Medicine, School of Medicine. AB, Clark University; MD, Medical College of Wisconsin

Robert M. McCarthy  Clinical Instructor in Operative Dentistry. BS, University of Massachusetts; DMD, Boston University

Dorothy McComb  Clinical Lecturer in Dental Care Management. BS, Simmons College; MBA, Boston University

Keith P. McKay  Clinical Instructor in Operative Dentistry. DMD, Tufts University

John McManama  Assistant Clinical Professor of Operative Dentistry. BS, Boston College; DDS Loyola University

William F. McNary, Jr.  Associate Professor of Anatomy, School of Medicine. BS, Tufts University; PhD, Boston University

Bryan McSweeney  Clinical Instructor in Oral and Maxillofacial Surgery. BS, Boston College; DMD, Tufts University

Deborah E. Medalia  Lecturer in Dental Care Management. BA, MS, University of Oregon

James C. Melby  Professor of Medicine and Physiology, School of Medicine. BS, MD, University of Minnesota

Seymour Melnick  Associate Clinical Professor of Endodontics. DDS, Temple University; Cert, Boston University

Joseph C. Merriam, Jr.  Assistant Clinical Professor of Pathology. MD, Boston University

Philip Millstein  Associate Clinical Professor of Biomaterials. BA, Boston University; DMD, Cert, MS, Tufts University

Frederick L. Moolten  Associate Professor of Microbiology, School of Medicine. AB, Harvard College; MD, Harvard University

Peter Morgan  Assistant Clinical Professor of Endodontics. BS, DMD, University of Pittsburgh. Cert, MscD, Boston University

Robert Najarian  Clinical Instructor in Prosthodontics. BS, Massachusetts College of Pharmacy; DDS, West Virginia University School of Dental Medicine

Dan Nathanson  Professor and Chair, Department of Biomaterials. DMD, Hebrew University and Hadassah School of Dental Medicine, Jerusalem; Cert, Harvard University

Cynthia A. Needham  Assistant Professor of Pathology. MBBC, Bsc, National University of Ireland, MRC, Royal College of Pathologists

Paul M. O'Bryan  Associate Professor of Physiology. BS, Brescia College; PhD, Tulane University

Frank Oppenheim  Acting Chair, Department of Oral Biology; Professor of Biochemistry. BA, Cert, PhD, Boston University; DMD, Tufts University

Michael J. O'Brien  Associate Professor of Pathology. MBBC, Bsc, National University of Ireland, MRC, Royal College of Pathologists

Charles Paraskis  Professor of Prosthodontics. BS, College of the Holy Cross, DMD, Tufts University

Giselle S. Pechet  Associate Clinical Professor of Pathology. MS, Hebrew University, Jerusalem

Maxine Peck  Director, Dental Assistant Program; Instructor in Dental Care Management. BA, State University of New York, Albany; MS, Boston University

Edward W. Pelikan  Chair, Department of Pharmacology, Professor of Pharmacology, Socio-Medical Sciences, and Community Medicine, School of Medicine. BS, MS, MD, University of Illinois

Victor Penzer  Lecturer in Continuing Education. BS, Jagiellonian University, Krakow; MD, Johann Kepler University; DMD, Tufts University

Steven Perlman  Clinical Instructor in Pediatric Dentistry. BA, George Washington University; DDS, New York University; Cert, MscD, Boston University

Alan Peters  Waterhouse Professor and Chair, Department of Anatomy, School of Medicine. BS, PhD, University of Bristol

Janet Peters  Assistant Professor of Dental Care Management. BS, Syracuse University; DMD, University of Pennsylvania

Paul Pitlch  Assistant Professor of Biochemistry and Endocrinology. BS, Temple University; PhD, Purdue University
A. Stephen Polins  Director, Predoctoral Periodontology; Associate Professor of Periodontology. BA, Boston University; DDS, Howard University; Cert, Boston University
Paul M. Ponte  Associate Clinical Professor of Operative Dentistry. BS, University of Massachusetts; DDS, Columbia University; MS, Boston University
Richard H. Price  Clinical Instructor in Dental Care Management. BA, Boston University; DMD, Tufts University
Leslie P. Racowsky  Assistant Clinical Professor of Prosthodontics. DMD, Washington University; Cert, Tufts University
Elizer Rapaport  Associate Professor of Microbiology. BSc, MSc, Hebrew University; PhD, Johns Hopkins University
Guiseppina d'Elia Raviola  Professor of Anatomy. School of Medicine. MD, PhD. University of Pavia, Italy
James Reilly  Clinical Instructor in Prosthodontics. BA, University of Maine; DMD, Tufts University; Cert, Florida State Dental Service
Leonardo Reznick  Clinical Instructor in Operative Dentistry. DMD, CAGS, Boston University
John Richardson  Director, Predoctoral Endodontics; Professor and Chair, Department of Oral Pathology; Assistant Professor of Endodontics. BA, University of Connecticut; DDS, Temple University; Cert, DSc, Boston University
Douglas Riis  Associate Professor of Prosthodontics. AB, Colby College; DMD, Fairleigh Dickinson University; MS, Tufts University
Flaviu C. A. Romanul  Professor of Neurology. MD, Harvard University
David A. Rosania  Clinical Instructor in Periodontology. BS, Tufts University; DMD, Cert, University of Connecticut
Mark M. Roseman  Associate Professor of Pediatric Dentistry. BS, DDS, University of Maryland; Cert, Boston University
Richard Rosen  Instructor in Prosthodontics. BA, Boston University; DDS, State University of New York
Douglas L. Rosene  Assistant Professor of Anatomy. AB, Stanford University; PhD, University of Rochester
Robert Rosenkranz  Assistant Clinical Professor of Endodontics. BS, Brooklyn College; DDS, New York University
Leila J. Rosenthal  Instructor in Prosthodontics. BFA, MFA, Cert, Boston University
Ann M. Rothstein  Assistant Professor of Microbiology. BA, Washington University; PhD, Massachusetts Institute of Technology
Robert Rozenc  Assistant Clinical Professor of Orthodontics. BS, MS, DMD, Tufts University; Cert, University of Buffalo
Morris P. Ruben  Professor and Chair, Department of Periodontology. BSc, Ohio State University; DDS, Loyola University; Cert, University of Pennsylvania; Cert, Boston University; FACD, FICD
Samuel Rubin  Associate Clinical Professor of Endodontics. BA, Alfred University; DDS, New York University; Cert, MScD, Boston University
Neil B. Ruderman  Professor of Medicine and Physiology. AB, Columbia University; MD, University of Pittsburgh; D Phil, Oxford University
Hughes J.P. Ryser  Professor of Pathology, School of Medicine. DrMed, University of Berne
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Jorge Sanchez  Assistant Professor of Periodontology. DMD, Javeriana University; Bogata, Colombia; Cert, National University; Cert, MSD, Boston University
Herbert Schilder  Assistant Dean for Continuing Education; Professor and Chair, Department of Endodontics. BA, DDS, New York University; Cert, Temple University; FACD, FICD
James L. Schmidt  Clinical Instructor in Operative Dentistry. BS, Tufts University; DMD, University of Pennsylvania
Ronni Ann Schnell-Short  Instructor in Prosthodontics. BA, City University of New York, Queens College; DMD, Boston University
Edward W. Schroeder  Assistant Professor of Microbiology. BS, Wagner University; MS, CW Post University; PhD, State University of New York
John H. Schwartz  Associate Professor of Medicine, School of Medicine. BA, Boston University; MD, New York University
Anthony Scinto  Clinical Instructor in Operative Dentistry. BA, University of Pennsylvania; DMD, Boston University
Richard H. Seder  Assistant Professor of Pathology. AB, Harvard College; MD, MPH, Harvard University
Edith Segal  Assistant Professor of Prosthodontics. DMD, Hebrew University; Hadassah School of Dental Medicine; Cert, MScD, Boston University
Mohammad R. Setayesh  Assistant Professor of Periodontology. DMD, Tehran University; Cert, Harvard University
James V. Shannon  Assistant Professor of Prosthodontics. BA, Carroll College; DDS, Marquette University
Leonard Shapiro  Associate Clinical Professor of Periodontology. DMD, Tufts University; Cert, MScD, Boston University
Sydell Shaw  Director of Predoctoral Admissions and Student Affairs; Assistant Clinical Professor of Endodontics. BA, DDS, New York University
Michael Shef  Assistant Professor of Pediatric Dentistry. AB, Cert, MScD, Boston University; DMD, Tufts University
Earl Shindell  Clinical Professor of Operative Dentistry. BA, University of Alabama; AB, MDS, MS, Tufts University
Graham Shipley  Professor of Biochemistry. PhD, University of Nottingham
Alan Shuman  Associate Clinical Professor of Periodontology. BS, University of Massachusetts; DMD, Tufts University; Cert, Boston University
Donald Simi  Instructor in Prosthodontics. BA, University of Pennsylvania; DMD, Boston University; GPR, USPHS Hospital
Remo Sinibaldi  Clinical Professor of Prosthodontics. DMD, Cert, Tufts University
Elizabeth Simons  Professor of Biochemistry. School of Medicine. BE, Cooper Union; PhD, Yale University
Wallace G. Smith  Clinical Instructor in Operative Dentistry. BA, Washington and Jefferson College; DMD, University of Pittsburgh
Hyman Smukler  Professor of Periodontology. BDS, University of Witwatersrand, South Africa; DMD, Cert, Boston University
David Snyderman  Clinical Instructor in Operative Dentistry. BA, Queens College; DDS, Howard University
Joseph P. Specanza  Assistant Professor of Dental Care Management. BS, MS, PhD, Massachusetts College of Pharmacy; DMD, New Jersey College of Dental Medicine
Marvin L. Spivack  Associate Professor of Medicine. School of Medicine. BA, University of Michigan; MA, PhD, Boston University
Richard Stall  Clinical Instructor in Periodontology. BS, Rutgers University; DMD, New Jersey Dental School; CAGS, Boston University
H. Eugene Stanley  Professor of Physiology. BA, Wesleyan University; PhD, Harvard University
Gerald Stechler  Professor of Psychiatry, School of Medicine. PhD, University of Chicago; BS, Columbia University; MS, PhD, Yale University
R. Sheldon Stein  Assistant Dean for Clinical Affairs; Research Professor of Prosthodontics. DMD, Cert, Tufts University; FACD, FICD
Magna H. Stilman  Associate Professor of Pathology. MD, Universite Libre de Bruxelles

Philip A. Struziiero  Clinical Instructor in Operative Dentistry. BS, Stonehill College; DMD, Tufts University

Ralph Struziiero  Clinical Professor of Operative Dentistry. AB, Boston College; DMD, Tufts University

Luke G. Tedeschi  Clinical Professor of Pathology. BS, University of Pennsylvania; MD, Jefferson Medical College

James Thiel  Associate Clinical Professor of Prosthodontics. DDS, Marquette University; Cert, Forsyth Dental Center

H. Emerson Thomas, Jr  Assistant Professor of Medicine and Oral and Maxillofacial Surgery. AB, Princeton University; MD, Tufts University

Thomas W. Timmons  Clinical Instructor in Operative Dentistry. BS, University of Illinois; DDS, Loyola University

Janet Harper Towe  Lecturer in Dental Care Management. BS (Nursing), BS (Dental Hygiene), MS, Northeastern University; Cert, Forsyth Dental Center

Robert F. Troxler  Professor of Biochemistry, School of Medicine. BA, Grinnell College; MS, Pennsylvania State University; PhD, University of Chicago

William C. Ullrick  Professor of Physiology, School of Medicine. BS, Northwestern University; MD, Tufts University

Judith L. Vaitukaitis  Professor of Medicine and Physiology, School of Medicine. BS, Tufts University; MD, Boston University

Robert J. van Hartingsveldt  Clinical Instructor in Prosthodontics. TANDARTS, Groningen State University, The Netherlands; CAGS, Boston University

Deborah W. Vaughan  Assistant Professor of Anatomy, School of Medicine. BA, University of Vermont; PhD, Boston University

Laurence E. Vienneau  Assistant Clinical Professor of Operative Dentistry. BS, Boston College; DMD, Tufts University; APH, Harvard University

Joseph J. Vitale  Professor of Pathology and Socio-Medical Sciences and Community Medicine (Nutrition). BS, Boston University; MS, New York University; ScD, Harvard University; MD, University of Antioquia

Walter M. Vogel  Assistant Professor of Pharmacology. PhD, University of Michigan

Brent A. Vogt  Assistant Research Professor of Anatomy. BA, Northeastern University; PhD, Boston University

Ladislaw Volcic  Professor of Pharmacology and Medicine, School of Medicine. PhD, Academy of Sciences, Czechoslovakia, MD, Charles University, Prague

William Walker  Director, Minority Affairs; Associate Professor of Endodontics. BS, University of Dubuque; DDS, Howard University; Cert, Forsyth Dental Center

Joanne M. Wall  Clinical Instructor in Dental Care Management. Cert (Dental Hygiene), Forsyth School for Dental Hygienists; AS, MPA, Northeastern University; BS, University of Massachusetts, Amherst

Carol T. Walsh  Assistant Professor of Pharmacology, School of Medicine. AB, Harvard University; Radcliffe College; PhD, Boston University

Donald C. Weikert  Clinical Instructor in Prosthodontics. BS, DDS, University of Maryland

Lewis R. Weintraub  Professor of Medicine, School of Medicine. AB, Dartmouth College; MD, Harvard University

Herbert Wells  Professor of Pharmacology. BA, Yale University; DMD, Harvard University

Valdemar Welz  Clinical Instructor in Prosthodontics. BA, DDS, Boston University

Richard A. Whitman  Assistant Professor of Dental Care Management. BS, Bucknell University; DMD, University of Pittsburgh; Cert, Forsyth Dental Center

Joseph Williams  Assistant Clinical Professor of Endodontics. DDS, State University of New York, Buffalo; Cert, Forsyth Dental Center

Steven Wolman  Assistant Clinical Professor of Endodontics. BS, City University of New York, City College; DMD, University of Pennsylvania; Cert, MScD, Boston University

Bruce Woollett  Clinical Instructor in Operative Dentistry. BS, Wilkes College; DDS, Fairleigh Dickinson University; Cert, Forsyth Dental Center

Edward Woolridge, Jr  Assistant Clinical Professor of Operative Dentistry. BS, Lynchburg College; MA, George Washington University; DDS, Medical College of Virginia; LLB, LaSalle Extension University

Herbert H. Wotiz  Professor of Biochemistry and Research Professor of Urology. BS, Providence College; PhD, Yale University

Joseph Yacavone  Lecturer in Dental Care Management. DMD, Tufts University; MPH, Harvard University

Ganesa Yageewarian  Assistant Professor of Microbiology. BSc, University of Madras; MSc, PhD, University of Toronto

Zhimon Yaghoubzadeh  Clinical Director of Postdoctoral Prosthodontics; Assistant Professor of Prosthodontics. DDS, National University of Iran; Cert, Michael Reese Hospital; CAGS, Boston University

Carol Yassinger  Clinical Instructor in Peridontology. BS, DDS, University of Illinois; CAGS, Boston University

Henry Yu  Clinical Instructor in Endodontics. BA, Indiana State University; DDS, Northwestern University; CAGS, MScD, DScD, Boston University

Glen B. Zamansky  Assistant Professor of Microbiology. BA, Brandeis University; PhD, Harvard University

Norman Zamcheck  Research Associate in Pathology. AB, Harvard College; MD, Harvard University

James G. Zavistoski  Assistant Clinical Professor of Prosthodontics. BA, University of Connecticut; PhD, Cornell University; DMD, Boston University

Maria Zuequiera  Assistant Clinical Professor of Endodontics. BS, DMD, University of Puerto Rico; CAGS, Boston University
The University

Boston University is an independent, coeducational, nonsectarian university with an enrollment of about 19,100 full-time students and a faculty that numbers more than 2,500. Its academic diversity meets the needs of one of the largest bodies of scholars in the world. A student here has a nearly limitless range of educational, social, and civic resources within reach.

The University traces its origins back to 1839, when a group of lay and ministerial delegates of the Methodist Episcopal Church began a school for the improvement of theological training. Incorporated by the Commonwealth of Massachusetts in 1869, Boston University dedicated itself to the liberal arts, promoting virtue, learning, and piety. Today, the sixteen schools and colleges of the University retain a human scale and a clear sense of academic purpose, providing students with the advantages of a large, contemporary, educational complex, while maintaining many traditional priorities.

Through its various schools and colleges, the University responds to its students’ occupational needs and the increasingly specialized demands they face in the contemporary world. Most plans of undergraduate study rely strongly on courses offered through the College of Liberal Arts, which may form a substantial part of a student's program, or which may offer electives to enrich a plan of study in one of the professional fields. Opportunities are available to combine and accelerate many of the University’s degree programs.

The University is progressive. It has broken ground in nursing, health care, science, engineering, communications, management, education, and other areas. The two-year College of Basic Studies introduced the first college program in the country organized around a team method of instruction. The University initiated accelerated programs in Liberal Arts/Medical Education, Liberal Arts/Dental Education, and Liberal Arts/Law Education. Numerous interdisciplinary programs offer broad possibilities for combining career goals and personal interests.

With a history free from racial and religious discrimination in the admission of students and the hiring of faculty, Boston University is strongly committed to minority recruitment, equality of the sexes, and opportunities for the disabled. It was the first university to open all its doors to female students, and it graduated the country’s first black woman MD and first woman PhD.

Most of the University’s schools and colleges line the south bank of the Charles River just west of downtown Boston. With the river as boundary to the north, this campus encloses a chain of peaceful waterway parks and esplanades. Straddling Commonwealth Avenue on the south, it also provides quick, convenient access to the heart of a thriving city.

The Charles River campus contains sixty-four acres of space for classrooms, libraries, research centers, laboratories, dormitories, lecture halls, and centers for social and cultural activities. Architecturally, the University has grown with the city. Contemporary classroom and dormitory buildings sit comfortably among the older gothic structures and the bowfront town houses of Boston’s Back Bay. Across town is the University’s Medical Center, which comprises the School of Medicine, the Goldman School of Graduate Dentistry, and University Hospital.

An urban institution from its inception, Boston University has always recognized that its future is indissolubly linked with the future of its city. Convincing, too, that its students must appraise and take responsibility for the problems of the modern world, the University fosters programs to promote the well-being of Boston’s citizens and to improve the city’s environment. University students work with people in hospitals and prisons, participate in a public defender program, aid community groups to solve management problems, assist the elderly in preparing tax returns, and work with young people in training for the arts. Boston University offers tutorial programs for disadvantaged children, new concentrations in urban and environmental engineering, and new techniques in the delivery of health care and preventive medicine. Each year, approximately 1,500 University students are involved with over 200 nonprofit organizations in areas such as social service, legal aid, and hospital work.

Accreditation

Boston University is accredited by the New England Association of Schools and Colleges, Inc. The individual schools and colleges of the University carry additional accreditation in their respective fields.

Facilities and Resources

Libraries All of the libraries within the University are open to the University community. Over 1,500,000 volumes are owned, with an additional 2,000,000 volume equivalents in microform. Central service is provided by the Mugar Memorial Library, 771 Commonwealth Avenue. Visitors to the Mugar Library must show Boston University identification at the entrance. Principal card catalogues are on the first floor. The main book collections are on open shelves. The library maintains an audio-listening area, a music library, an African studies library, and an excellent Department of Special Collections containing rare books and manuscripts. Exhibits from Special Collections are regularly displayed throughout Mugar Library. The Department includes the Twentieth-Century Archives which contain the personal papers of over 1,200 public figures in literature, journalism, theatre, film, music, politics, and diplomacy (among them are Martin Luther King, Jr., Bette Davis, Alistair Cooke, Max Ascoli, John W. McCormack, Danilo Dolci, Isaac Asimov, Irwin Shaw, and Rosalyn Tureck). Other collections include materials on Lincoln, Pascal, Franz Liszt, colonial America, military history, nursing, and book arts.

The Mugar Library is open 8 a.m. to midnight Monday through Thursday, 8:30 a.m. to 11 p.m. Friday and Saturday, and 10 a.m. to midnight Sunday.

The Department of Astronomy, the School for the Arts, the School of Theology, the School of Law, and the Medical Center maintain their own specialized libraries. Additional libraries include the Science/Engineering Library, the Educational Resources Library, the Krasker Film Library, the Minority Research Library, the Career Resource Library, and the Gerontology Library.

An interlibrary loan system further extends the resources, and a consortium arrangement enables graduate students to use the libraries of Boston College, Brandeis University, Massachusetts Institute of Technology, Northeastern University, Tufts University, Wellesley College, and the University of Massachusetts.
The City of Boston

Boston, the largest city in New England, is a seaport whose unique atmosphere combines a proud tradition and an active contemporary life. One of our nation's oldest cities, and long a cultural arbiter for much of the East, Boston serves as a vivid record of our country's development, from the early stages of democratic fervor, through decades of industrial expansion and international commerce, to its present strength in business, technology, medicine, and the arts. Home of approximately sixty colleges and universities, Boston is an unrivaled center of learning, offering students a wide variety of opportunities in a dynamic community.

Because of its compact size and many attractions, Boston is a great walking city. Bostonians love to stroll down fashionable Newbury Street, taking in art galleries and stopping in outdoor cafes. Glass surfaces of sleek downtown skyscrapers reflect the ornate structures of earlier periods. In the Public Garden pond, framed by the formal gardens and rare trees, swan boats glide under the world's smallest suspension bridge. The Boston Common, the oldest public park in the country, provides open space for frisbee, touch football, and rallies, and shade for quiet park-benching. Just off bustling major avenues are tree-lined, gas-lit streets, eighteenth- and nineteenth-century townhouses, and tiny cemeteries with gravestones bearing the names of major actors in the American Revolution. Federal-style mansions, wrought-iron fences, and cobblestone paths mark the steep streets of Beacon Hill, one of the birth places of the abolitionist movement. The centerpiece of a refurbished waterfront district, the Faneuil Hall restoration at Quincy Market is a short distance from the old wharves and the modern New England Aquarium.

Cosmopolitan surroundings, legendary landmarks, and many public and private institutions contribute to Boston's rich cultural life. The Old North Church and the Paul Revere House partake of the aromas of cappuccino and cannoli in the North End, the Italian neighborhood of Boston. Chinatown's exotic shops and restaurants flank the Theatre District, where many Broadway shows are tried out before opening in New York. Admission to the Museum of Fine Arts, with its notable collections of oriental and Egyptian art and French Impressionist paintings, is free to University students. The museum has a collection of ancient musical instruments, which advanced music students are permitted to play. The Isabella Stewart Gardner Museum houses a more intimate collection of painting, sculpture, and furniture in an Italian-style palazzo. The Institute of Contemporary Art, located in a former police station, exhibits modern art, including video. Visitors to the Museum of Science can manipulate and participate in many exhibits, and the shows at the adjacent Charles Hayden Planetarium change with the seasons. The Boston Public Library, one of the oldest free municipal libraries in the world, extends borrowing privileges to residents of the entire state.

Entertainment abounds in Boston. The Hatch Shell, on the Esplanade by the Charles River, is the site of free summer concerts by the Boston Pops. Through the Boston Symphony Orchestra, the Opera Company of Boston, fine chamber and jazz groups, and ballet and theatre companies, performances are available almost every night of the year. The Boston University series of concerts, recitals, and dance performances is available at discount prices for students, as are productions at the Boston University Theatre by the resident Huntington Theatre Company and by students in the School for the Arts; concerts by members of the faculty and students are usually free. First-run and classic films are shown in cinemas scattered throughout the city. Boston nightlife features a wide variety of local and nationally-known rock bands, and many of the city's clubs showcase up-and-coming comedians. Boston's professional sports teams include the Red Sox, the New England Patriots, the Celtics, and the Bruins. The Charles River, separating Boston from Cambridge, offers sailing and canoeing, and beaches are a short ride to the north and south by car or public transportation. Local skiing is minutes away in the Blue Hills; for the serious skier, the resorts of New Hampshire and Vermont are a two-hour drive.

Designated "Hub of the Universe" in the days of the Clipper ships and the China trade, Boston continues to live up to that reputation.
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Greater Boston Area

Getting to Boston University Medical Center

Via Major Highways

From the North:

Routes 1 (via Mystic/Tobin Bridge) or 93 to Route 3 (93) (Southeast Expressway or Central Artery) South. Take Albany/East Berkeley Street exit. Follow Albany Street, then take a right onto East Newton Street.

From the North Shore and Logan Airport:

Sumner Tunnel (Route 1A South) to Expressway South, then take Albany/East Berkeley Street exit. Follow Albany Street, then take a right onto East Newton Street.

From the West:

Take Route 90 (Massachusetts Turnpike) East to end. Take Expressway (Route 93) South to Albany/East Berkeley Street exit. Follow Albany Street, then take a right onto East Newton Street.

From the South Shore:

Take Expressway (Route 3) North to Massachusetts Avenue exit. Take a right onto Massachusetts Avenue, then take first right onto Albany Street. Take a left at second intersection onto East Newton Street.

Via Public Transportation:

Bus #47:
From Central Square, Cambridge, to Boston University Medical Center. Stops at Boston University’s Charles River campus. Frequency varies. Operates daily, with limited service on Sundays and holidays.

Bus #68:
From Copley Square, Boston, to Boston University Medical Center. Monday through Friday only.

Bus #49:
From Downtown (Essex and Washington Streets), via Boston University Medical Center to Northampton Station. Limited service Monday through Sunday.
Legend

A = Building A (BUSM)
  Boston University School of Public Health (SPH)
B = Robinson Building (UH)
C = Collamore Building (UH)
D = Old Evans Building (UH)
DOB = Doctors Office Building (incl. parking garage), 720 Harrison Avenue
E = New Evans Building (UH)
F = Preston Family Building (UH)
G = Goldman School of Graduate Dentistry (GSGD)
H = Health Services Building (UH)
K = Centers for Advancement in Health and Medicine (BUSM)
L = Boston University School of Medicine Instructional Building (BUSM)
N = Naval Blood Research Laboratory (BUSM)
PRP = Site of Partial Replacement
Site Project (UH)
R = Housman Medical Research Center (BUSM)
T = Talbot Building (UH)
V = Vose Hall (UH)
D = Dining Facilities
E = Emergency Services (Ambulance entrance)
A = Entrance
P = Medical Center parking facility

Boston University School of Medicine (BUSM)
Boston University School of Public Health (SPH)
Goldman School of Graduate Dentistry (GSGD)
University Hospital (UH)
at Boston University Medical Center
Highlights of Boston University
Charles River Campus

Schools and Colleges
5. College of Engineering, 110 Cummington St.
6. Henry M. Goldman School of Graduate Dentistry, 100 E. Newton St. (not on map)
10. School of Management, 685 Comm. Ave.
   — School of Medicine, 80 E. Concord St. (not on map)
12. Sargent College of Allied Health Professions, University Rd.
13. School of Social Work, 264 Bay State Rd.

Major Residence Halls
15. Danielsen Hall, 512 Beacon St.
16. Myles Standish Hall, 620 Beacon St.
17. Shelton Hall, 91 Bay State Rd.
   — South Campus (not on map)
18. Towers, 140 Bay State Rd.
20. West Campus, 273-277 Babcock St.

University Facilities
21. Academic Computing Center, 111 Cummington St.
22. Admissions (Undergraduate) Visitors' Center, 121 Bay State Rd.
23. Bookstore, 600 Beacon St.
25. Center for English Language and Orientation Programs, 703 Comm. Ave.
27. Concert Hall, 855 Comm. Ave.
32. International Student Office, 10 Deerfield St.
34. Martin Luther King, Jr., Center for Career, Educational and Counseling Services, 19 Deerfield St.
35. Morse Auditorium, 602 Comm. Ave.
37. President's Office, 147 Bay State Rd.
40. Student Health Services, 881 Comm. Ave.
41. Students, Dean of, 775 Comm. Ave.
42. Summer Term, 118 Bay State Rd.
   — Theatre, 264 Huntington Ave. (not on map)
43. University Information Center, 771 Comm. Ave.

Walking time from Kenmore Square to West Campus Residence Halls is approximately 30 minutes.

MBTA Stops
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Stretching along the banks of the Charles River, Boston University offers easy access to the many cultural pleasures and educational opportunities available in metropolitan Boston, and throughout Massachusetts. Fieldwork opportunities abound in the many hospitals, schools, museums, and social service agencies located in and around the City. Theatres, Red Sox games at Fenway Park, sailing on the Charles, Boston Pops concerts at Symphony Hall, swimming on Cape Cod, and camping in the Berkshires provide pleasant diversion.