Degree and Certificate Programs

Boston University has fifteen schools and colleges and one independent program offering the degree and certificate programs listed below.

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

College of Basic Studies
2-year nondegree program

College of Communication
BS, MS

Goldman School of Graduate Dentistry
MS, MSD, CAGS, DSc, DMD

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

College of Engineering
BS, MEng, MS

Graduate School
MA, PhD

School of Law
JD, LLM

College of Liberal Arts
BA

School of Management
BSBA, MBA, MSMIS, DBA

School of Medicine
MPH, MD

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

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

School of Social Work
MSW

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

University Professors Program
BA, MA, PhD

Cover Photo: Brad Herzog

Inquiries

Office of Predoctoral Admissions
Boston University
Goldman School of Graduate Dentistry
100 East Newton Street
Boston, MA 02118
617/638-4787

Office of Postdoctoral Admissions
Goldman School of Graduate Dentistry
100 East Newton Street
Boston, MA 02118
617/638-4708
## Calendar 1988/89

<table>
<thead>
<tr>
<th>Semester I 1988</th>
<th>Semester II 1989</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>July</strong></td>
<td><strong>January</strong></td>
</tr>
<tr>
<td>1 Fri</td>
<td>3 Tue</td>
</tr>
<tr>
<td>Program begins for entering Oral and Maxillofacial Surgery residents.</td>
<td>Registration: All students. Classes/clinics resume for second semester.</td>
</tr>
<tr>
<td>4 Mon</td>
<td>16 Mon</td>
</tr>
<tr>
<td>Holiday.</td>
<td>Holiday: Martin Luther King Day.</td>
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<tr>
<td><strong>August</strong></td>
<td><strong>February</strong></td>
</tr>
<tr>
<td>18 Thu</td>
<td>20 Mon</td>
</tr>
<tr>
<td>Registration and orientation for Orthodontic residents.</td>
<td>Holiday: Washington's Birthday.</td>
</tr>
<tr>
<td>29 Mon</td>
<td>March</td>
</tr>
<tr>
<td>Orientation for Postdoctoral students through September 1.</td>
<td>Spring recess for all Pre-doctoral students, through April 2.</td>
</tr>
<tr>
<td><strong>September</strong></td>
<td><strong>April</strong></td>
</tr>
<tr>
<td>5 Mon</td>
<td>17 Mon</td>
</tr>
<tr>
<td>7 Wed</td>
<td>18 Tue</td>
</tr>
<tr>
<td>Classes begin for third- and fourth-year Pre-doctoral students. Classes and clinics begin for Graduate and Postdoctoral programs.</td>
<td>Sophomore students begin clinic.</td>
</tr>
<tr>
<td><strong>October</strong></td>
<td><strong>May</strong></td>
</tr>
<tr>
<td>10 Mon</td>
<td>19 Fri</td>
</tr>
<tr>
<td>Holiday: Columbus Day.</td>
<td>Classes/clinics end for graduating students.</td>
</tr>
<tr>
<td><strong>November</strong></td>
<td>21 Sun</td>
</tr>
<tr>
<td>11 Fri</td>
<td>University Commencement.</td>
</tr>
<tr>
<td>Holiday: Veterans Day.</td>
<td><strong>June</strong></td>
</tr>
<tr>
<td>23 Wed</td>
<td>2 Fri</td>
</tr>
<tr>
<td>Thanksgiving recess begins.</td>
<td>Second semester ends for freshman predoctoral students.</td>
</tr>
<tr>
<td><strong>December</strong></td>
<td>30 Fri</td>
</tr>
<tr>
<td>5 Mon</td>
<td>Second semester ends for sophomore and junior predoctoral students and graduating Orthodontic, Oral Surgery, Prosthodontic, and Periodontology students.</td>
</tr>
<tr>
<td>Administration of National Board Examination, Part II, Senior Pre-doctoral Students, through December 6.</td>
<td>July</td>
</tr>
<tr>
<td>16 Fri</td>
<td>4 Tue</td>
</tr>
<tr>
<td>First semester ends at 5 p.m. for all students.</td>
<td>Holiday: Independence Day.</td>
</tr>
</tbody>
</table>

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 cancelled classes to be rescheduled.

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

<table>
<thead>
<tr>
<th>Degree/Certificate</th>
<th>Major Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Predoctoral</strong></td>
<td></td>
</tr>
<tr>
<td>DMD</td>
<td>Dental Medicine</td>
</tr>
</tbody>
</table>
| BA/DMD             | Liberal Arts/Dental Medicine  
[offered with College of Liberal Arts] |
| **Postdoctoral**   |             |
| CAGS               | Advanced General Dentistry  
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  
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 |
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 not only addressing the issue of oral health, but also realizing 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 Goldman School of Graduate Dentistry is proud to uphold a long tradition of excellence.

Spencer N. Frankl, DDS, MSD, FACD, FICD
Dean
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, general dentistry, and oral biology, as well as graduate programs in nutritional sciences and dental public health.

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 positive 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.
Predoctoral Program

Doctor of Dental Medicine

The Doctor of Dental Medicine program prepares students for the practice of patient-oriented dental care with emphasis on prevention and early detection of dental disease. Students develop a spirit of inquiry that enables them to question what they know and do, and leads them to seek better ways to promote and preserve oral and general health. The School sees as its primary goal the education of dentists who are well-grounded in the basic medical sciences, skilled in the exercise of clinical care, and sensitive to the needs of their patients. To this end, the curriculum combines a didactic program, a team approach to clinical care, and a series of planned practical learning experiences in dental offices outside the dental school. These off-site experiences are the core of the A.P.E.X. Program (Applied Professional Experience), in which students assist dental practitioners and receive a salary enabling them to help defray their educational expenses.

DMD Plan of Study

The DMD program requires four years of didactic and clinical study. The first year begins with a preparatory program in oral radiology, dental assisting techniques, and preventive dentistry. The basic science courses are introduced in the freshman year and are taught jointly by the faculties of the Schools of Medicine and Graduate Dentistry. This foundation year includes preclinical dental sciences and rotations in private dental offices for dental assistants.

During the second year of the curriculum, the focus shifts from the basic sciences to the clinical dental sciences with increased opportunity for the student, as a member of a dental team, to treat patients in the school clinic. This team is comprised of students from each of the four classes with faculty who oversee and coordinate the clinical activities. Team meetings stimulate learning and attend to the problems and questions that arise in any dental practice. As integral members of the team, sophomore students assist other team members in providing comprehensive care to patients.

The third and fourth years of study emphasize clinical dental practice, with increasing exposure to the specialty areas of dentistry. Students provide dental care for special needs children, carry out dental procedures requiring general anesthesia, and manage patients with systemic diseases. Students spend the majority of their time in diagnosis, treatment planning, and patient care. Through seminars and a computer laboratory, students learn to organize and administer a dental practice, including the application of data management systems. Fourth-year students have a six-week externship during which they practice clinical dentistry at one of more than twenty sites located from Boston to Hawaii.

The entire four-year curriculum is designed to provide an innovative and comprehensive education. Our graduates seek challenge and strive for independence and creativity, combining technical excellence with a sensitivity to patient needs.

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 those changes. This bulletin describes the courses as they exist as of May 1988, but curriculum revision can occur throughout the year.

International Student Program

Students with a dental degree from countries other than the United States or Canada are invited to apply for admission to the DMD degree program with advanced standing. This program credits international students for portions of their previous dental training and experience. An international student can usually anticipate a course of study lasting two and a half years, although greater acceleration is possible.

Interested parties should write for an application to the Office of Predoctoral Admissions, Boston University Goldman School of Graduate Dentistry, 100 East Newton Street, Boston, MA 02118. Applicants for the International Student Program must have successfully completed the National Dental Board Examination, Part I. It is also recommended that applicants complete Part II prior to admission. A personal interview is required of applicants whose credentials are acceptable to the Admissions Committee.

Admission

The DMD program of Boston University's Goldman School is a participant in the American Association of Dental Schools Application Service (AADSAS), through which all applications must be processed. Applicants must obtain copies of application materials prepared by the AADSAS and return them to that service; once their accuracy has been verified, all subsequent communications regarding admission are made directly with the individual dental schools. 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 advisors, or by writing to AADSAS, PO Box 4000, Iowa City, IA 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 ($40 for those students applying for admission for the fall of 1989 or thereafter) should be submitted 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 four weeks following notification of their acceptance. A second payment of $1000 toward the first year's tuition is required 30 days thereafter. Application fees and acceptance deposits are nonrefundable.

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

The Admissions Committee considers current students in good standing or 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, religion, sex, residence, or financial need. Women and minority students are encouraged to apply.

The Committee evaluates applicants who will have completed a minimum of three years of predental or premedical college curriculum prior to matriculation.

Course Requirements

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

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 16ual programs does not provide for remediation of language deficiencies.

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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.

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 complete the work 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 Clinic 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.

Curriculum
The courses comprising the DMD program of study for students entering in September, 1988 are described below.

First-Year Curriculum
Gross Anatomy/Neuroanatomy Although anatomy is treated in its broadest aspects, emphasis is placed on points of clinical importance. Morphology is learned by dissection and from films. Bassett's Atlas, demonstration, and lectures. Surface anatomy, embryology, and radiologic anatomy are presented to reinforce and correlate the morphologic studies. Emphasis in this course is placed on head and neck anatomy and dental applications. During the study of the head and neck, dentists, ophthalmologists, and otolaryngologists instruct students in the examination of the oral cavity, eye, ear, nose, and throat.

The neuroanatomy section deals with the anatomy 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. Drs. Zollner, Peters, and staff. 130 hours, 1st & 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 is applied to clinical experience; genetics, immunology, and radiation. Drs. Oppenheim, Troxler, and staff. 50 hours. 1st sem.

Histology Microscopic anatomy of cells, tissues, and organs. Emphasis on the relation of structure to function and on recent advances in histochemistry and electron microscopy. Slide collections provided. Dr. Vaughan and staff. 50 hours, 1st sem.

Oral Biology A comprehensive consideration of the anatomy, microscopic and macroscopic structure, and functions of the oral cavity 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. Drs. Oppenheim and staff. 35 hours, 2nd sem.

Physiology/Endocrinology/NeuropHysiology 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. 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 its control, and the psychological effects of sex hormones. Drs. Esig, O'Bryan, and staff. 75 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. Drs. Beriff and Jorg. 20 hours. 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 physiotherapy, nutritional counseling, and oral cancer detection. Format is both lecture and clinical laboratory. Staff. 40 hours, 1st 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. Welf and staff. 140 hours, 1st sem.
Preclinical Operative Dentistry Comprehensive introduction to intracoronal tooth restorative systems in a laboratory environment. Includes amalgam, cast gold, compaction, gold, and bonding materials. Drs. Kelohe, Colella, and staff. 100 hours, 1st sem.

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 genetics and physiology of microorganisms including their biochemical activity and genetics. Important diseases caused by animal parasites; special attention to those of importance in the U.S. and its possessions. Dr. Kupchik and staff. 50 hours, 2nd sem.

Second-Year Curriculum

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. Walsh and staff. 80 hours, 2nd 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, clinico-pathologic conferences, and multidisciplinary seminars. Microscopic study of slides and review of post-mortem correlate clinical and anatomic changes. Drs. Gottlieb and Rogers. 80 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 disciplines concerned. Dr. Thomas and staff. 50 hours, 1st & 2nd sem.

Nutrition The science of clinical nutrition as it relates to systemic diseases and dental health. Dr. Filhois and staff. 12 hours, 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.

Pain Control An introduction to the methods used in dentistry to control pain. A review of head and neck anatomy as pertinent to pain control. Management of medical emergencies, including American Heart Association certification in basic life support. In preparation for the student's entry into clinical practice, the course presents the pharmacology and techniques of local anesthesia as well as prescription writing. Dr. Whitman and staff. 18 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. Polins and staff. 64 hours, 1st & 2nd sem.

Radiology A comprehensive presentation of oral and maxillofacial radiology in its four basic aspects: radiation physics, radiation biology, radiographic techniques, and technology and radiographic interpretation. Didactic, clinical, and lab instruction. A section of this course introduces the student to the basic concepts of quality assurance in radiology. Dr. Boustany. 60 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. Boustany 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. Arens. 13 hours, 2nd sem.

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

Preclinical Removable Prosthodontics A continuation of the first-year course. Dr. Emerling and staff. 60 hours, 1st sem.

Preclinical Operative Dentistry A continuation of the first-year course. Drs. Kelohe, Colella, and staff. 160 hours, 1st & 2nd sem.

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. 50 hours, 1st & 2nd sem.
Preclinical Pediatric Dentistry  A comprehensive laboratory introduction to the techniques of pediatric dentistry and orthodontic techniques. Includes the technical aspects of restorative dentistry space maintenance, cephalometric analysis, and orthodontic tooth movement. Drs. Bouska, Arena, and staff. 52 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, and the judicial system as it relates to professional liability. Dr. Jong, 8 hours, 2nd sem.

Dental Care Perspectives  An overview of social, political, and economic issues as they apply to dental care today. Preventive dentistry, community dental health, dental economics, health care delivery, and current legislation, regulations, and planning policies affecting dentistry. Dr. Jong and staff. 10 hours, 2nd sem.

Oral Pathology  Preparing the student to recognize, analyze, and appreciate primary and secondary disease conditions of the oral and maxillary regions present in patients under his care, and to respond in an appropriate manner. The curriculum emphasizes the understanding of basic and fundamental biologic aberrations. These concepts are integrated into a meaningful approach to diagnosis and treatment. Dr. Richardson. 56 hours, 1st & 2nd sem.

Periodontology  Building on 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. Polins and staff. 35 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. Ebetehaj. 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. 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.

Pain Control  Lectures build on the concepts presented in the second year, emphasizing the psychology of pain, hypnotic, and intravenous sedation. A clinical laboratory segment allows the student to administer nitrous oxide and intravenous sedatives in a controlled setting. Dr. Whimtman and staff. 42 hours, 1st & 2nd sem.

Removable Prosthodontics  Analysis of the edentulous and partially edentulous patient and use of removable prosthesis. Emphasis on diagnosis, prosthetic design, and materials. Correlation with comprehensive clinical practice. Dr. Emerling and staff. 36 hours, 1st & 2nd sem.

Fixed Prosthodontics  Detailed study of the proper diagnosis, treatment plan, the techniques 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. DuLong and staff. 36 hours, 1st & 2nd sem.

Operative Dentistry  Dental restorations in fixed prosthodontics, including diagnosis, treatment planning, and establishment of sensitivity to the patient's health and comfort. Review of histopathology, biomaterials, and basic operative techniques, followed by discussion of advanced restorative systems and problem-oriented techniques. Closely coordinated with the delivery of actual clinic care in operative and associated disciplines. Dr. McManama 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.

Physical Diagnosis  Intended to train dental students in the identification of gross 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 interpersonal communication skills, but will also broaden the range of basic knowledge used in making clinical judgments regarding various types of dental patients. Dr. Crowley. 36 hours, 2nd sem.

Oral Diagnosis/Oral Medicine  Lectures, case presentations, and seminars illustrate the basic principles of oral diagnosis and oral medicine and their effect on comprehensive treatment planning. Stress is placed on the diagnosis and management of the medically compromised patient. Dr. Bouskely and staff. 46 hours, 1st & 2nd sem.

Occlusion  A lecture/laboratory course taking the student from normal intra-arch and inter-arch dental anatomy and occlusion through analysis of deviations from normal natural dentition, to an approach to maintenance of healthy occlusal patterns in restorative dentistry and correction of occlusal patterns and disharmonies. Concepts from the course are integrated with courses in operative dentistry, prosthodontics, periodontics, and orthodontics. Dr. DuLong and staff. 39 hours, 1st sem.

The Clinical Curriculum  In the spring of the second year, students are assigned patients for comprehensive dental care. With few exceptions, the student dentist will perform all the necessary dental care for the assigned patient and therefore assume the position of general practitioner or family dentist. Patients with less complex dental needs are assigned to sophomores. Due to this comprehensive care system, in most cases students are not assigned to individual clinical departments for a set number of hours. The clinical curriculum comprises approximately 100 hours in the second year and approximately 1000 hours in both the third and fourth years.

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. McManama and staff.

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 restorative treatments, design of prosthesis, and fabrication of the fixed single unit or multiple unit prosthesis. Treatment integrated with periodontology and other restorative departments. Dr. DuLong 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 pulp and periapical pathology requiring endodontic intervention. Dr. Chemel 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 exodontia and minor oral surgical procedures. The student has the opportunity to observe patients with complex oral surgical problems. Dr. Crowley 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. I. 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. C. Castellucci 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. Boustan 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. Altshuler, Bofta, and staff. 16 hours, 1st & 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 & 2nd sem.

Extramural Training Program  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. Kranz and extramural preceptors. 4th year.

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. Crowley and staff.

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 clinical experiences on the anesthesia services staff at University Hospital and Boston City Hospital. Dr. Whitman 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. Simpson. 2nd and 3rd years.

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 provide further opportunity for 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 clinic outside the School. Each student selects 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, Boston, MA
Long Island Jewish Medical Center, New Hyde Park, NY
New Hampshire Hospital, Concord, NH
Rhode Island Hospital and J. Samuels Dental Clinic, Providence, RI
Veterans' Administration Center, Bedford, MA
Veterans' Administration Center, Boston, MA

Uphams Corner Community Health Center, Boston, MA
Seven-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 seven-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 three years and two summers are spent in the College of Liberal Arts, where the student takes (with the seven-year medical students) preprofessional science courses specifically prepared for this program. Portions of the third summer 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 fourth 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 February 1 of the year 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 predental 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.
Students admitted to the program are not eligible for Trustee Scholarships or Honor Awards.

Acceleration
The Seven-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 three 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 a capability of mastering an accelerated program of studies and to exhibit a high degree of maturity and emotional stability in order to be promoted to the fourth 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 average of B 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 fourth 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 predental education. Students may voluntarily transfer out of the program at any point with the option to continue a liberal arts education at Boston University.

Seven-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 third 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.
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 chairman, 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 these 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 area of concentration.

Areas of Concentration

The student pursues a course of study 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 generally 21 to 24 months, with the exception of the Advanced Education Program in General Dentistry which is 12 months.

Clinical Requirement

The CAGS candidate in a clinical program must demonstrate proficiency in the clinical aspects of his or her area and must receive the endorsement of the appropriate departmental chairman 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 clinical CAGS program in conjunction with a nonclinical program such as Dental Public Health is also possible. 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.

Areas of Concentration

The MSD candidate pursues full-time postdoctoral studies in one of the major areas of concentration within the School:

- Dental Public Health
- Endodontics
- Operative Dentistry
- Oral Biology
- Oral and Maxillofacial Surgery
- 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 21 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.
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 chairman 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 chairman. 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 specialties and related fields when applicable, and they must receive the endorsement of their department chairmen 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 the 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 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 chairman and the director of this program, students select a major advisor. A faculty member from an appropriate basic science area (anatomy, biochemistry, microbiology, pathology, pharmacology, or physiology) may serve as a minor advisor.

Credit may be earned for formal courses, seminars, and research in proportion to the particular needs and background of the candidate as determined in consultation with the major advisor. 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 basic research training. Coursework 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.

The DSc program in oral biology can be combined with a clinical program with a minimum of one additional year.

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 a master's degree in nutrition 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 residency 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. These 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 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 $50 must be remitted with the application. Candidates accepted for admission to the

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 chairman 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 Nutritional Sciences
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 $50 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 chairman 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 four-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 chairman 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.
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 W. Jong, DDS, MPH, DSc, Chairman

Two master's programs, a CAGS program in dental public health and an Advanced Education Program in General Dentistry are offered. The public health program, offered to dentists, leads to the MSD degree; the public health program, offered to dental auxiliaries, leads to the MS degree. A three-year doctoral program is offered as well as a one-year residence 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 coursework 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**

- SGD PH 762 Biomedical Law and Ethics 1st sem
- SGD PH 764 Psychological Considerations for the Dentist 2nd sem
- SGD PH 801 Introduction to Public Health 4 cr, 1st sem
- SGD PH 803 Biostatistics 1 4 cr, 1st sem
- SGD PH 803 Introduction to SPSS 2 cr, 1st sem
- SGD PH 804 Introduction to Computers 2 cr, 1st sem
- SGD PH 805 Principles of Epidemiology 2 cr, 1st sem
- SGD PH 808 Health Care Management and Finance 3 cr, 2nd sem
- SGD PH 820 Issues in Public Health 3 cr, 1st sem
- SGD PH 825 Statistical Analysis Using Minitab 1 cr, lab, 1st sem

**Second Year**

- SGD NS 781 Research Methods 2 cr, 1st sem
- SGD PH 807 Application of Nutritional Principles 1 cr, 1st sem

**Research**

- SGD PH 991 Public Health Dentistry (approved research project and successful defense of thesis) 4 cr, 4 semesters and summer

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.

Advanced Educational Program in General Dentistry

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**

**Fall Semester**
- SGD PH 801 Introduction to Public Health 4 cr, 1st sem
- SGD PH 803 Biostatistics/Epidemiology 4 cr, 1st sem
- SGD PH 807 Research Methods 4 cr, 1st sem
- SGD PH 815 Master's Project: Research or Public Health Practice 0 cr, 1st sem
- SGD PH 825 Statistical Analysis Using Minitab 1 cr, lab, 1st sem
- SGD PH 821 Introduction to Management 4 cr, 1st sem

**Spring Semester**
- SGD PH 804 Introduction to SPSSX 2 cr, 1/2 sem
- SGD PH 804 Introduction to Computers 2 cr, 1/2 sem
- SGD PH 808 Health Care Management and Finance 4 cr, 2nd sem
- SGD PH 815 Master's Project: Research or Practice 4 cr, 2nd sem
- SGD PH 822 Dental Care Issues 2 cr, 2nd sem
- Electives 6 cr, 2nd sem

**Endodontics**

Herbert Schilder, BA, DDS, FACP, FICD, Chairman

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 related 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 NS 781 Application of Nutritional Principles 1st sem
- SGD OB 761 Oral Microbiology 1st sem
- SGD OB 763, 764 Oral Biology 1st & 2nd sem
- SGD OB 767 Oral Immunology 2nd sem
- SGD OS 761, 762 Medical Surgical Management of the Patient 1st & 2nd sem
- SGD PE 761, 762 Topics in Periodontology 1st & 2nd 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 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 Endodontic Radiology 2nd sem
- SGD EN 809 Microbiology in Endodontics 1st sem
- SGD EN 810 Pulp and Periapical Pathology 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 EN 911, 912 Endodontics III 1st & 2nd sem
- SGD EN 991, 992 Endodontics VI 1st & 2nd sem
- SGD PE 803 Clinical Periodontology 1st sem

**Nutritional Sciences**

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

The Department of Nutritional Sciences offers programs for individuals preparing for academic or research careers in fields related to nutrition. Students accepted into either the Master of Science 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 basic areas of science at the Boston University Graduate School's Division 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 Seminars: Nutritional Sciences 2 cr, 1st & 2nd sem
- SGD NS 788 Advances in Nutritional Sciences 2 cr, 2nd sem
- SGD NS 888 Advanced Tutorial in Nutritional Science 2 cr, 1st & 2nd sem
- SGD NS 891 Research in Nutritional Sciences by arrangement

**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**

John C. McManama, DDS, Chairman

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.
addition, students learn teaching skills such as demonstration of preclinical techniques, evaluation of student performance, and lecture presentation. Particular emphasis is paid to occlusion.

The psychological and motivational aspects of teaching are stressed, with emphasis on leadership, role models, and the development of communication skills. Texts, visual aids, and audiovisual presentations 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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semesters</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD NS 781</td>
<td>Application of Nutritional Principles</td>
<td>1st sem</td>
</tr>
<tr>
<td>SGD OS 761, 762</td>
<td>Medical Surgical Management of the Patient</td>
<td>1st &amp; 2nd sem</td>
</tr>
<tr>
<td>SGD PE 761, 762</td>
<td>Topics in Periodontology</td>
<td>1st &amp; 2nd sem</td>
</tr>
<tr>
<td>SGD PR 761</td>
<td>Occlusion</td>
<td>2nd sem</td>
</tr>
<tr>
<td>SGD OB 763, 764</td>
<td>Oral Biology</td>
<td>1st &amp; 2nd sem</td>
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**Clinical Sciences**

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<th>Course Title</th>
<th>Semesters</th>
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</thead>
<tbody>
<tr>
<td>SGD OP 801</td>
<td>Radiology Review</td>
<td>1st sem</td>
</tr>
<tr>
<td>SGD OP 802</td>
<td>Advanced Restorative Systems</td>
<td>2nd sem</td>
</tr>
<tr>
<td>SGD OP 803, 804</td>
<td>Seminars: Operative Dentistry</td>
<td>1st &amp; 2nd sem</td>
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<tr>
<td>SGD OP 805</td>
<td>Preclinical Techniques and Operative Philosophy</td>
<td>1st &amp; 2nd sem</td>
</tr>
<tr>
<td>SGD OP 807, 808</td>
<td>Preclinical Technique</td>
<td>1st &amp; 2nd sem</td>
</tr>
<tr>
<td>SGD OP 809</td>
<td>Instrumentation</td>
<td>1st sem</td>
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<tr>
<td>SGD PR 825, 826</td>
<td>Postdoctoral Biomaterials</td>
<td>1st &amp; 2nd sem</td>
</tr>
<tr>
<td>SGD OP 911</td>
<td>Clinical Operative Dentistry I</td>
<td>1st sem</td>
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<tr>
<td>SGD OP 913, 914</td>
<td>Clinical Operative Dentistry II</td>
<td>1st &amp; 2nd sem</td>
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**Department of Oral Biology and Periodontology**

Frank Oppenheim, DMD, Dr.Med.Dent., PhD, Chairman

The program in oral biology is designed for students who wish to pursue 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 oral medicine-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 training and experience in bio-medical specialties. This training may lead to either the Master of Science in Dentistry degree or the Doctor of Science in Oral Biology. With the approval of the appropriate clinical department, students may opt for a combined program that includes training in one of the clinical 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 requires a minimum of three years. The combination with a clinical specialty program requires a minimum of one additional year.

Oral and Maxillofacial Surgery

Donald F. Booth, DMD, Chairman

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 and Maxillofacial 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 and maxillofacial
surgery. A maximum of two positions, fully funded through University Hospital and Boston City Hospital, are open annually.

Curriculum
A sample of courses in the program is given below:

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

Oral Pathology
John Richardson, BA, DDS, DSc, Chairman
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, Chairman
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 clinical 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 dento-facial deformities. To this end, emphasis is placed on cranio-facial 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SGD NS 781</td>
<td>Application of Nutritional Sciences 1st sem</td>
</tr>
<tr>
<td>SGD OB 763, 764</td>
<td>Oral Biology 1st &amp; 2nd sem</td>
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<tr>
<td>SGD PE 761, 762</td>
<td>Topics in Periodontology 1st &amp; 2nd sem</td>
</tr>
<tr>
<td>SGD PH 764</td>
<td>Psychological Considerations for the Dentist 2nd sem</td>
</tr>
<tr>
<td>SGD PH 766</td>
<td>Research Design with Computer Laboratory 2nd sem</td>
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<tr>
<td>SGD PR 761, 762</td>
<td>Occlusion 1st &amp; 2nd sem</td>
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### Clinical Sciences

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<th>Course Code</th>
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<tr>
<td>SGD OR 803, 804</td>
<td>Orthodontics I 1st &amp; 2nd sem</td>
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<tr>
<td>SGD OR 911, 912</td>
<td>Orthodontics II 1st &amp; 2nd sem</td>
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<tr>
<td>SGD OR 991, 992</td>
<td>Research: Orthodontics 1st &amp; 2nd sem</td>
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Pediatric Dentistry
Jon T. Kapala, BS, DMD, MScD, Chairman
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 oral health problems within the pediatric age group. The following areas of competence are stressed in pediatric dentistry:

- Preventive dentistry
- Growth and development
- Specialized operative and prosthodontic techniques
- Pulp therapy in primary and immature permanent dentitions
- Periodontology
- Pediatric Oral Pathology
- Conscious Sedation
- 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

Curriculum

### Preclinical Sciences

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<tr>
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<tbody>
<tr>
<td>SGD NS 781</td>
<td>Application of Nutritional Principles 1st sem</td>
</tr>
<tr>
<td>SGD OB 761, 764</td>
<td>Oral Microbiology 1st sem</td>
</tr>
<tr>
<td>SGD OB 763, 764</td>
<td>Oral Biology 1st &amp; 2nd sem</td>
</tr>
<tr>
<td>SGD PE 761, 762</td>
<td>Topics in Periodontology 1st &amp; 2nd sem</td>
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### Clinical Sciences

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>SGD PD 801, 802</td>
<td>Lecture: Pediatric Dentistry 1st &amp; 2nd sem</td>
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<tr>
<td>SGD PD 803, 804</td>
<td>Seminar: Pediatric Dentistry 3rd &amp; 4th sem</td>
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<tr>
<td>SGD PD 805, 806</td>
<td>Lecture: Orthodontics 4th sem</td>
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<tr>
<td>SGD PD 807, 808</td>
<td>Clinic: Orthodontics 3rd &amp; 4th sem</td>
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<tr>
<td>SGD PD 809, 810</td>
<td>Pediatric Diagnosis and Treatment Planning 1st &amp; 2nd sem</td>
</tr>
<tr>
<td>SGD PD 911, 912</td>
<td>Pediatric Dentistry and Hospital 3rd &amp; 4th sem</td>
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Periodontology

Frank Oppenheim, DMD, Dr.Med.Dent., PhD, Chairman, Department of Oral Biology and Periodontology
Simao Kon, DDS, MSed, Associate Chairman, Department of Oral Biology and Periodontology

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 NS 781 Application of Nutritional Principles 1st sem
SGD OB 761 Oral Microbiology 1st sem
SGD OB 763, 764 Oral Biology 1st & 2nd sem
SGD OB 767 Oral Immunology 2nd sem
SGD OB 763 Oral Pathology 1st sem
SGD PE 761, 762 Topics in Periodontology 2nd sem
SGD PE 801, 802 Periodontology 1st & 2nd sem
SGD PE 811 Orthodontic Mechanotherapy 2nd sem
SGD PE 815, 816 Seminar: Literature Review 2nd sem
SGD PE 817, 818 Seminar: Grand Rounds 4 sem
SGD PE 819, 820 Seminar: Periodontal Surgery 4 sem
SGD PE 821 Introduction to Clinical Periodontology 1st sem
SGD PE 823, 824 Periodontal Therapy I, 1st & 2nd sem
SGD PE 825, 826 Periodontal Therapy II, 1st & 2nd sem
SGD PE 837 Applied Dental Pharmacology 2nd sem
SGD PE 901, 902 Seminar: Periodontology 4 sem
SGD PE 911, 912 Clinic: Periodontology 4 sem
SGD PE 991, 992 Periodontology [approved research] 1st & 2nd sem

Prosthodontics

Remo Sinibaldi, DMD, Chairman

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 requirements.

Curriculum

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

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 805 Removable Prosthodontics 1st & 2nd sem
SGD PR 807, 808 Seminar: Prosthodontics 4 sems
SGD PR 809, 810 Fundamentals of Full Mouth Reconstruction 1st & 2nd sem
SGD PR 811 Partial Coverage and Hydrocolloid Techniques 1st sem
SGD PR 812 Prosthodontic Documentation and Case Presentation 1st sem
SGD PR 813 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 821, 822 Maxillo-Facial Prosthetics 1st, 2nd, 3rd, & 4th 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 2nd, 3rd, & 4th sem
SGD PE 811 Orthodontic Mechanotherapy for Periodontics and Prosthodontics 1st sem
SGD EN 819 Endodontics for Periodontics and Prosthodontics 1st & 2nd sem
SGD PR 830, 831 Seminar: Prosthodontic Treatment Planning 4 sems
SGD PR 827 Seminar: Articulators, Articulations, and Concepts of Occlusion 1st & 2nd sem
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 endodontic treatment discussed and evaluated, with emphasis on nonsurgical and surgical therapy as well as the correlation of these therapies to other phases of dentistry, such as periodontology, restorative dentistry, and pediatric dentistry. Develops the fundamental philosophy and techniques of patient care. Dr. Schilder and staff. 4 sem.

SGD EN 803 Endodontics II Prerequisite for clinical program. Participation in endodontic procedures performed on extracted teeth. Lectures and clinical demonstrations by the endodontic staff cover the range of clinical procedures to be performed by students during the clinical phase. Dr. Schilder and staff. 1 sem.

SGD EN 804 Endodontics IV Seminars on endodontic/prosthetic, endodontic/pediatric, endodontic/periodontal correlations 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. Schilder and staff. 1 sem.

SGD EN 805, 806 Endodontics V Seminars based on intensive and comprehensive readings in the literature of endodontics covering all facets of endodontic diagnosis, prognosis, treatment planning, and therapy. Dr. Schilder and staff. 4 sem.

SGD EN 807 Seminar: Endodontic Radiology A review course for the postdoctoral endodontic student. Details radiographic technique, radiation hygiene, and the chemistry of photography to minimize the exposure of patients and dental staff. Dr. Wolman. 1 sem.

**SGD EN 808 Physiology of Pain** A significant element in achieving a successful endodontic result is the control of pain during and after each endodontic procedure. This course reviews the mechanism of pain transmission and methods of controlling it. Dr. Wolman 1 sem.

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

SGD EN 810 Pulp and Periapical Pathobiology Seminar for advanced endodontic students. Comprehensive and up-to-date look at pulp and periapical tissues with clinical correlations. 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 encountered in clinical courses. Dr. Melnick 2 sem.

SGD EN 813 Seminar: Surgical Endodontics Seminars based on case studies involving periapical surgery. Presentations and discussions emphasize diagnosis, treatment techniques, and complications during periapical surgery. Dr. Nagel 1 sem.

SGD EN 814 Restoration of Endodontically Involved Teeth Presentation by a senior staff member of the Prosthodontics Department of rationale and operative procedures employed in restoring endodontically treated teeth and in using them as long-term abutments for prosthetic appliances. Dr. Baraban 1 sem.

SGD EN 816 American Board of Endodontics 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 written and oral examinations designed to qualify for the American Board Examinations. Evaluations based on ability to display knowledge. Staff 1 sem.

SGD EN 818 Pediatric Dentistry/Endodontics Seminars emphasize the treatment of traumatic injury, including discussions on diagnosis, pulpotomy, extraction, fractures, luxation, and eruption of teeth (both primary and secondary). Dr. Rosenkranz 1 sem.

SGD EN 819 Endodontics for Periodontists and Prosthodontists Focuses on the biological foundations of pulpal and periodontal disease and the diagnosis and treatment of periodontic and endodontic problems. For first-year students. Dr. Schilder 6 wks.

SGD EN 911, 912 Endodontics III Clinical participation in surgical and nonsurgical phases of endodontic therapy. Special attention to development of diagnostic skills and clinical endodontic facility and to the application of a therapeutic approach formed in consultation with other dental specialties. Dr. Schilder 2 sem.

SGD EN 991, 992 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 fulfillment of requirements for Master of Science Degree. Selected preceptor 4 sem. and summer.

**Nutritional Sciences**

SGD NS 781 Application of Nutritional Principles An overview of nutritional concepts, 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 785 Seminars: Nutritional Sciences Weekly research seminar. Presentations and discussions by students and staff. Critical evaluation of current scientific literature in nutrition and in the communication of related ideas. Dr. Fillios and staff. 2 sem.

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

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

SGD NS 891 Research: Nutritional Sciences Research labs with quarters for animals available for a wide variety of biochemical 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. 1 or 2 sem.

**Oral Biology**

SGD OB 761 Oral Microbiology Distribution, ecology, and pathogenic potential of oral microbiota. Pathogenesis 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. Oppenheim and staff 1 sem.

Operative Dentistry


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. McManama and Cataldo. 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. Dr. McManama. 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 inlay/onlay 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. Aveni, Colella, Keleher, and Kulka. 1 sem.

SGD OP 806 Conformative Occlusion Single tooth restorations maintaining occlusal schemes and patterns that are anatomically and functionally stable without developing new patterns of occlusion. Dr. McManama. 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, establishment of tooth morphology, occlusion contact placement, and function. Drs. Aveni, Colella, Keleher, and Kulka. 2 sem.


SGD OP 911 Clinical Operative Dentistry I Clinical participation in routine operative dentistry procedures. Special attention is given to diagnosis, treatment planning, and the relationship of restorative dentistry to other disciplines. Drs. McManama, Bachelor, and Frofete. 1 sem.

SGD OP 913, 914 Clinical Operative Dentistry II Clinical participation in all phases of operative dentistry procedures with special emphasis on esthetics and on patients with multidisciplinary needs. Drs. Kane, McManama, and Strazziero. 2 sem.

Orthodontics

SGD OR 803, 804 Orthodontics I Lectures and seminars providing extensive background in the analysis of dentofacial deformities, treatment planning, and therapy. Dr. Claney and staff. 4 sem.

SGD OR 911, 912 Orthodontics II Supervised clinical practice in orthodontic dentistry. Dr. Claney and staff. 4 sem.

SGD OR 911, 912 Research: Orthodontics Guided investigation of the field of orthodontics or its related preclinical sciences. Partially satisfies requirements for the Master of Science in Dentistry. Selected preceptor. 4 sem.

Oral and Maxillofacial Surgery

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. Dr. Kapala. 4 sem.

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 809, 810 Pediatric Diagnosis and Treatment Planning Resident review of the diagnoses and treatment plans for specific pediatric patients. Alternative forms of treatment are discussed. Literature pertaining to
SGD PE 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 care and maintenance of periodontal health, restoration of missing members of the dentition, and control of oral and dentofacial deformities. Drs. D’Ambrosia, Goncalves, and staff. 2 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 selected topics in periodontal biology and pathology, rationale of periodontal therapy, nonsurgical and surgical treatment, and post-therapeutic evaluation. Dr. Ruben and staff 2 sem.

SGD PE 801, 802 Periodontology Formation, 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. Emphasis in 3rd and 4th semesters on healing processes after therapy. Dr. Ruben. 4 sem.

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

SGD PE 809 Principles of Prosthetic Reconstruction Factors influencing the diagnosis, prognosis, and treatment planning for dentitions requiring prosthetic reconstruction. Emphasis on periodontal structures and their influence on the patient’s oral and physical activities. 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. Drs. Arena and Blanco. 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. Drs. Kon, Castellicci, and staff. 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. Drs. Kon, Isenberg, Smukler, and staff. 2 sem.


SGD PE 821 Preclinical Periodontology Introduction to the practice of clinical periodontics through lectures, seminars, and clinical exercises. Emphasizes 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. Drs. Berkovich, Blanco, Castellicci, and staff. 9 wks.

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

SGD PE 825, 826 Clinical Periodontics Lecture series stressing the objectives, advantages, disadvantages, rationale, and techniques of the many surgical procedures used in periodontics. For second-year students. Dr. Kon and staff. 2 sem.

SGD PE 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 828 Anxiety and Pain Control Theories of production and perception of craniofacial and oral pain. Spectrum of methods of reduction and obliteration of pain and anxiety, including pharmacologic agents, neuropsychologic considerations (e.g. opiate-like peptides), and control of psychologic interactions. Dr. D’Ambrosio. 1 sem.

SGD PE 901, 902 Seminar: Periodontology Weekly seminar on extensive reading in the literature of periodontology and related dental and basic sciences. Provides breadth of literature necessary for practice and teaching. For first-year students. Dr. G. Castellicci and staff. 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. Drs. Ruben, Kon, and staff. 2 sem.

SGD PE 991, 992 Research: Periodontology Research in periodontology or its related preclinical sciences. Partial requirement for the Master of Science in Dentistry. Dr. Ruben and selected preceptor. 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. Dr. Jong. 1 sem.

SGD PH 764 Psychological Considerations for the Dentist Thorough 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. Kemem. 1 sem.

SGD PH 766 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. Dr. 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. Ms. Rose. 4 cr. 1 sem.

SGD PH 804 Introduction to SPSS This course covers in depth the concepts taught in Biostatistics I and II. 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. 1/2 sem.

SGD PH 804 Introduction to Computers Designed for students with no prior experience with computers. These students with programming experience can 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, 1/2 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. Burek. 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. 3 cr, 1 sem.

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

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

SGD PH 821 Introduction to Management Explores the student to the basic principles of management, both theoretical and practical, provides opportunities to build on current skills in verbal and written communication, analyzes and evaluates real management situations, and develops an understanding of management skills. Ms. McComb. 4 cr, 1st 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 Buxton University time-sharing system, MINITAB statistical package and its uses, and individual biostatistics and epidemiology problems to be analyzed by the students. Dr. Boffa. 2 cr, 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.

Prosthodontics

SGD PR 781 Multidisciplinary Approach to Occlusion and Myofacial Pain and Temporomandibular Joint Disorders Focuses on all aspects of diagnosis and treatment of these problems. Lectures, seminars, and clinical instruction. Dr. Boustany and staff. 1 sem.

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. Dr. Riss. 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. Dr. Paraskis. 2 sem.

SGD PR 806 Removable Prosthodontics Treatment planning, design, indications for clasp, semiprecision and precision attachment, and retained-tooth and tissue-borne restorations with an emphasis on presentation of remaining structures. Dr. Sinibaldi. 3 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. Sinibaldi. 4 sem.

SGD PR 809, 810 Fundamentals of Full Mouth Reconstruction Factors influencing the diagnosis, prognosis, and treatment planning for dentures requiring prosthetic reconstruction. Emphasis on endodontically treated teeth and their use as abutments, dowel cores on periodontal structure, and their influential role. Concepts of occlusion and the clinical application. Dr. Burek. 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. De Gassiotto. 3 sem.

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

SGD PR 814 Removable Prosthetics—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. Staff. 1 sem.

SGD PE 830, 831 Seminar: Prosthodontic Treatment Planning Dr. Stein. 2 sem.

SGD PR 818 Principles of Gnatology 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. Gassiotto. 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 821, 822 Maxillo-Facial Prosthetics A comprehensive didactic and clinical program focusing on all aspects of the rehabilitation of patients with congenital and acquired maxillo-facial defects. Drs. Sinibaldi and guest lecturers. 4 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. Jacobson and Riss. 4 sem.

SGD PR 911, 912 Clinic: Prosthodontic Advanced clinical participation in all phases of prosthodontics. 3 sem.

SGD PR 991, 992 Research: Prosthodontic Approved investigative effort to satisfy requirement 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. Stresses importance of interdisciplinary coordination of treatment. For first- and second-year students. Dr. Kon and staff. 2 sem.
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.

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 Gold- man School of Graduate Dentistry, 100 E. Newton Street, Boston, MA 02118, 617/638-4669.

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 121 Anatomy and Physiology 1 hr lecture
SGD DA 123 Preclinical I 3 hrs lecture
SGD DA 131 Dental Materials 2 hrs lecture, 3 hrs lab
SGD DA 209 Introductory Psychology and Communications 1.5 hrs lecture
SGD DA 221 Dental Anatomy 2 hrs lecture
SGD DA 223 Preclinical I 2 hrs lecture, 3 hrs lab

Semester II 20 Weeks
SGD DA 125 Dental Health Education and Nutrition 2 hrs lecture
SGD DA 127 Dental Sciences 3 hrs lecture
SGD DA 129 Practice Management 1.5 hrs lecture
SGD DA 211 Radiology 2.5 hrs lecture

Clinical Rotations 400-500 Hours
Endodontics
Operative Dentistry
Oral and Maxillofacial Surgery
Orthodontics
Pediatric Dentistry
Periodontics
Prosthodontics
Radiology

Courses
SGD DA 121 Anatomy and Physiology Basic information about the human body and its systems, with emphasis on head and neck anatomy.
SGD DA 123 Preclinical I 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 disbursing, 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 Introductory Psychology and Communications Grammar review; perception of self and others; verbal and nonverbal communication; first impressions; interviewing; job interview skills. Basic introduction to the study of psychology as a behavioral science; emphasis on learning, motivation, pain perception, and fear.
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 tissue. 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.
Division of Continuing Education

Dan Nathanson, DMD, Director

Continuing education is a necessity for every dentist and dental auxiliary. The Division's mission is to update practicing professionals on new technologies and to improve and increase their skills. In 1987 the School provided 58 courses to over 1,300 general dentists, dental specialists, and dental auxiliaries. The courses which vary from one day to two weeks in length are taught by Goldman School faculty and selected outside lecturers.

Predoctoral and postdoctoral students can register for a continuing education course for a nominal fee if their program director feels that the course would be of benefit to their education. All courses carry continuing education credit approved by the American Dental Association and the Commonwealth of Massachusetts.

Dean Emeritus Henry M. Goldman teaches a continuing education course.
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 Goldman School of Graduate Dentistry, the School of Medicine, 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 met more effectively.

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 post-doctoral 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.

The Dental Placement Program
The Goldman School of Graduate Dentistry, in cooperation with the Massachusetts Dental Society, is offering a dental placement service designed to serve as a clearinghouse for professional opportunities that meet the varied needs of dental professionals at all stages of their careers. The program provides a regularly updated source of job information for those who are seeking or offering practice opportunities, such as internships in private practice, or who are buying or selling a practice. This service is of particular benefit to our graduating DMD and postdoctoral students.

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 seven-year liberal arts/medical education program and an eight-year modular medical integrated curriculum (MIMEDIC) 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 services and environmental health; health behavior, health promotion, and disease prevention; and epidemiology and biostatistics. Two combined programs are also available: the MD/MPH and the MA in Economic policy and MPH.

The University Hospital
The 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.

The 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.

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.

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 of 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. The Director, Dr. Herbert, Wotiz, Professor of Biochemistry, has organized the Center around three principle areas of interest: immunology, toxicology, and regulation of cell growth.
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.

Solomon Carter Fuller Mental Health Center
The EISEG Program (Early Intervention and Stimulation of Exceptional Children) is housed within this facility at 85 East Newton Street in Boston. EISEG 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 multihandicapped children between the ages of three and twenty-one years.

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.
Faculty members Dr. Furid Boustany and Ms. Debra Pan review a case and discuss a treatment plan.

Precision and patience are necessary for work at the laboratory bench.
Drs. Paula K. Friedman and Ramiro Blanco conduct a case study seminar.

Dental student carving a wax crown on a model.

Predoctoral students examine a fixed die for a full crown.

Drs. Paula K. Friedman and Ramiro Blanco conduct a case study seminar.
Financial Information

Tuition, fees, residence hall charges, and any prior balance must be paid in full each semester before the official registration deadline. Invoices are mailed to preregistered students' 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, PO Box 4105, Boston, MA 02215 at least three weeks before classes start.

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

Although the University does not offer its own deferred payment plan for full-time students, parents may arrange for financing through private agencies. This should be done well in advance of the start of the academic year. Information on such plans may be obtained by contacting the Student Accounting Services, 881 Commonwealth Avenue 617/353-2264. The Office of Financial Assistance, 881 Commonwealth Avenue, also provides information on meeting college costs in their booklet, Financial Assistance: General Information.

Deposits made upon acceptance of the University's offer of admission are credited toward the student's semester bill.

The University assumes no liability for refusal 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—1st deposit, $1,000—2nd deposit.
- Postdoctoral Program: $1,000.
- Graduate Program: $1,000.
- Dental Assisting Program: $300.

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

It has been and remains the policy of Boston University to withhold all diplomas, degrees, official transcripts, and other official recognition work done at the University from students with respect to whom there are any outstanding overdue debts to the University, including, but not limited to, amounts owed in satisfaction of tuition, loan agreements, fees, and charges, as well as monies owed for occupancy in University-owned or -operated residence facilities and apartments and for food service. No student may withdraw from the University in good standing or graduate from the University unless all current obligations to the University are paid in full.

Full-time tuition figures for the 1988/89 academic year are indicated below:

- Predoctoral Program: $19,900.
- Postdoctoral Program: $17,200.
- Graduate Programs:
  - Dental Public Health: $12,800.
  - Nutritional Sciences: $12,800.
- Dental Auxiliary Programs:
  - Dental Assisting: $3,100.

Instrument Fees, Book Costs

Students in the DMD program are required to purchase four instrument kits from the University during enrollment in the program. Used instruments or instruments purchased outside the University are not acceptable. The approximate total cost of these instruments is $6,600 and they are purchased as follows:

- $3,192.00 1st semester freshman year
- $2,688.00 1st semester sophomore year
- $653.00 1st semester junior year

Instrument fees are payable at the time of registration. These 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: $4,100.
- Operative Dentistry: $5,980.
- Orthodontics: $1,600.

Pediatric Dentistry: $4,500.
Periodontology: $4,500.
Prosthodontics: $6,100.

Research Program Fee

A research fee of $3,000 is required for students enrolled in the Master of Science Degree in Dentistry program or in a Doctor of Science 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. ($40 for those students applying for admission for the fall of 1989 or thereafter.)
Late Fee: A minimum late payment fee of $100 for full-time students and $50 for part-time students may be assessed to students who complete their official registration during the late registration period.

Reissue of Picture ID Card: $10.
Transcript: $2.
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 1987/88 were:

- Individual: $748.00
- Family: $1,764.00

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. Specific information concerning the Intern License is distributed in the registration package 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 1988 were:
Committee usually responds quickly to

From the Boston University Medical Center, assistance available to dental students enter­

Applications. The School’s Office of Student Affairs. A leave of absence can be approved

for the Goldman School. The interest is 7 percent and 9 percent for previous borrowers with outstanding loans, and 8 percent for new borrowers. Students can receive a federal subsidy to meet the interest charges for their in-school period.

Boston University School of Graduate Dentistry Loan This revolving loan fund provides interest rates at 9 percent 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 finan­
cial 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 deferral 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.

Perkins Loans (formerly 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 nine 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. Deferral 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.

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. Chi­
cago 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 DMD candidates who are permanent residents of Massachusetts (since September 1, 1984). Entering students from other states should contact their state governments to determine if similar financial assistance programs are available 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 societies 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 Hampshire, or Massachusetts. Qualifications are determined and scholarships administered by the individual state dental societies.

Health Education Assistance Loan (HEAL) A student may borrow up to $20,000 per academic year to an outstanding total of $80,000. Loans may be used only for educational expenses including tuition, fees, room and board, books, equipment, and interest on previous loans. The interest rate is set at the 91-day Treasury Bill plus 3.0 percent. Students must demonstrate need by submitting a national financial aid form.

Supplemental Loans for Students (SLS) Under the SLS program, graduate and professional students may borrow up to $4,000 per year and $20,000 in the aggregate in addition to the amounts they receive through the regular CSL program. The SLS program has a variable interest rate. Although the loans enter "repayment status" immediately, full-time students are eligible for a full-time student deferment for principal payments; however, they must pay interest charges.

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 investigators of countries outside the U.S. to exchange scientific information with dental researchers in this country. The fellow is paid a stipend and dependent's allowance throughout the assigned period. 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 available for approved travel within the U.S. for the fellow to attend meetings, present 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 Research, 211 E. Chicago Avenue, Chicago, 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 professional 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 University (ALIGU). Stipends range from $3,500 to $7,000. Applications are available from either the Cultural Affairs Officer at any American Embassy or by writing Education Foundation Programs Office, AAUW, 2401 Virginia Avenue, NW, Washington, DC 20037.

American 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 students who are enrolled in a two-year course leading to a master's degree. Recipients must agree to teach at least two and one-half days a week at an accredited dental school. Fellowships include a stipend, living allowance for each dependent, and full tuition. Applications are available from the American Fund for Dental Health, 211 E. Chicago Avenue, Chicago, IL 60611.

Hillenbrand Fellowship This program provides fellowships for recently graduated dentists interested in pursuing a career in dental administration. Fellowships consist of a stipend of $15,000 plus a reasonable budget for subsistence and travel. Applications are available from the American Fund for Dental Health, 211 E. Chicago Avenue, Chicago, IL 60611.

Dental Public Health, Nutritional Sciences Students in the Dental Public Health and Nutritional Sciences programs are eligible for Guaranteed Student Loans and SLS loans, described above.

Dental Assisting Students in the Dental Assisting program are eligible for Pell Grants (formerly Basic Educational Opportunity Grants) and Guaranteed Student Loans ($2,625 for the academic year), PLUS loans are available to parents.
A brief presentation of the general policies of the Goldman School and Boston University is given below. See the sections in this bulletin that describe specific programs for additional information. Some of the School's policies and procedures are described in greater detail in the Clinic Manual distributed to matriculated students.

Registration

Registration procedures may vary depending on the college of enrollment. See registration information for your college as well as the general policies stated here.

An officially registered student is one who has submitted course selections on a registration form, obtained the necessary approvals, and has settled all charges with Student Accounting Services.

Candidates for admission to degree programs may not register until they receive a formal statement of acceptance. Students accepted to the University receive registration forms and a class schedule (horarium) from the Registrar. To register, select your courses from the horarium according to instructions provided by your school or college, complete the registration form, and return it to the Registrar by mail or in person. If the form is processed before the billing deadline, Student Accounting Services will mail an invoice (statement of charges). Upon settlement of the invoice (payment procedures are given under Financial Information in this bulletin), your registration is approved and you are sent confirmation of the approval. If the registration form is not processed by the billing deadline, you will not receive an invoice in the mail and will have to complete the registration and payment process in person.

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 prolonged absence. All absences other than those necessitated by health or emergency must receive prior approval.

Absence for Religious Reasons

According to Chapter 151C of the General Laws, Commonwealth of Massachusetts, any student in an educational or vocational training institution, other than a religious or denominational educational or vocational training institution, who is unable, because of his (or her) religious beliefs, to attend classes or to participate in any examination, study, or work requirements on a particular day shall be excused from any such examination or study or work requirements, and shall be provided with an opportunity to make up such examination, study, or work requirements which he (or she) may have missed because of such absence on any particular day; provided, however, that such makeup examination or work shall not create an unreasonable burden upon such school. No fees of any kind shall be charged by the institution for making available to the said student such opportunity. No adverse or prejudicial effects shall result to any student because of his (or her) availing himself (or herself) of the provisions of this section.

Transcripts

To request an academic transcript of grades and course work, submit a transcript request form to the Office of the University Registrar. Letter requests will be honored if they are signed and give complete information about attendance, including enrollment dates, college(s) of registration, and degree(s) earned. Official transcripts are mailed approximately two weeks after receipt of the request. The transcript fee is $2 per copy, and payment must accompany the request. For transcripts sent certified mail, add $2 per address. For transcripts sent express mail, add the current express mail charge per address. Unofficial transcripts for student use may be obtained from the Registrar's Office.
Administrative Policies Relating to Federal Guidelines

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 redisclosure of personally identifiable information.

A semester notification of rights and the procedures for exercising them are printed on the University registration form. A mailing to the parents of incoming freshmen and transfer students each year informs them of their rights under this law, and how to exercise those rights. The supporting parents or legal guardians who complete the form attached to the letter, and return it to the required address receive a copy of their dependents grade report each semester. Copies of the University's Compliance Manual and forms for obtaining access to records are available at the Office of the University Registrar.

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 does not ensure that equal opportunity 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, Office of Equal Opportunity, 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 grievances 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 have an opportunity to 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 makes a decision as to 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.

Student Retention Information Statistics for the student retention rate at Boston University are available on request from the Office of the Registrar, 881 Commonwealth Avenue, in accordance with the Education Amendments of 1976, Section 493A.
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 Research 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

**Deborah Almeida**  Assistant Clinical Professor in Periodontology. MScD, Boston University

**David J. Baraban**  Professor Emeritus of Prosthodontics. BS, CD, Universidad Nacional Autonoma de Mexico; DDS, Universidad Nacional de Mexico Escuela Dental; Cert., MscD, Boston University

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

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

**Leonard Bernstein**  Clinical Professor of Orthodontics. MScD, Boston University

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

**Paul H. Black**  Chairman, Department of Microbiology; Professor of Microbiology and Medical Chemistry; Research Professor of Surgery, School of Medicine. AB, Dartmouth College; MD, Columbia University

**Ralph Blanchard, Jr.**  Clinical Lecturer in Dental Care Management, BA, Northeastern University; DDS, University of Maryland

**Ramiro Blanco**  Assistant Clinical Professor of Periodontology. DDS, Zaiia University (Venezuela); CAGS, MScD, Boston University

**Michael Blau**  Associate Clinical Professor of Orthodontics, BSc, DDS, McGill University (Canada); MScD, Harvard University

**Arthur Bloom**  Associate Professor of Oral Histopathology

**Margaret Jacobs Bloy**  Clinical Instructor of Dental Care Management. BA, MS, Boston University

**Joseph Boifa**  Associate Professor of Dental Care Management. BA, DDS, State University of New York, Buffalo; MPH, Harvard University

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

**Jacques E. E. Bori**  Director, Boston University International Dental Program; Visiting Associate Clinical Professor of Periodontology. BS, University of Paris (France); DMD, Tufts University; Cert., MScD, Boston University

**Antonio E. Boscieri**  Instructor of Pathology. BA, Boston College; MD, University of Bologna

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

**Farid Boussany**  Chairman and Associate Professor, Division of Oral Diagnosis and Radiology; Radiation Safety Officer; DDS, St. Joseph University (Lebanon); Cert., Diploma of Oral Surgery, University of Paris (France); Cert., Tufts University; DMD, Boston University

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

**Margaret Bresnahan**  Assistant Research Professor of Nutritional Sciences, AB, River College; SM, Massachusetts Institute of Technology; DSc, Boston University

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

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

**Louis Brown**  Clinical Instructor of Prosthodontics. BA, Brandeis University; DMD, Boston University

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

**Mitchell Burek**  Associate Professor of Dental Care Management. BA, MEd, PhD, Boston College

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

**Solomon Cadoff**  Clinical Instructor of Prosthodontics. CDT, Boston School

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Ladislaw Volcier  Professor of Pharmacology and Medicine, School of Medicine. PhD, Academy of Sciences; MD, Charles University (Czechoslovakia)

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William Walker  Associate Professor of Endodontics. BS, University of Dubuque; DDS, Howard University; Cert., Boston University

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

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

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

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Lawrence Zoller  Associate Professor of Anatomy. BA, University of Pennsylvania; PhD, Rutgers University

Howard Zolot  Clinical Instructor of Periodontology. BS, MS, DMD, Fairleigh Dickinson University; CAGS, Boston University

Jonathan Zucker  Clinical Instructor of Dental Care Management. BA, Clark University; DMD, Boston University

Dr. Valdemar Welz (left) with students in the laboratory.
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 finds a nearly limitless range of educational, social, and civic resources.

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 fifteen 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.

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 waterfront 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 seventy-one 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. Convinced, 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.
Facilities and Resources

Libraries The staff of the Boston University Libraries provides extensive service to the entire University community with a collection of more than 1.6 million volumes in paper and 2.4 million volumes in microfilm, 29,000 current journals, and access to hundreds of bibliographic databases.

Central service is provided by the Mugar Memorial Library, 771 Commonwealth Avenue. The main book collections are on open shelves, and the library maintains an audio listening area, a music library, an African studies library, and a fine Department of Special Collections containing rare books and manuscripts.

Exhibits from Special Collections are regularly displayed throughout Mugar Library, drawing from the Collection’s Twentieth-Century Archives which contain the personal papers of over 1,200 public figures in literature, journalism, theatre, film, music, politics, and diplomacy, and from its collections on Lincoln, Pascal, Franz Liszt, colonial America, military history, nursing, and Spanish literature.

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

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

An interlibrary loan system further enhances the resources, and a consortium arrangement enables graduate students and faculty to use several local libraries.

Laboratory and Research Facilities The University provides laboratories for research and teaching in disciplines ranging from the physical sciences to the dramatic arts. These include an engineering laboratory; science laboratories for biology, chemistry, health sciences, and physics; and laboratories and other facilities for study in the humanities, languages, mental health, psychology, social sciences, and the performing arts. The Boston University Theatre, a full-sized professionally equipped facility on Huntington Avenue, serves as a workshop for the dramatic arts. Medical science laboratory facilities are found on the Medical Center campus.

Academic Computing Center The Academic Computing Center is located at 111 Cummington Street. The public access terminal room, which houses a large cluster of IBM 3278 full-screen display and DEC VT220 terminals, local printers, the terminal assistance window, and the batch input/output window, is located in the basement of the building and may be entered by the door opposite 64 Cummington Street. The main office is located on the first floor, with the graphics terminal room and lab on the second floor.

The Academic Computing Center operates an IBM 3090-200VF computer for instructional programs and research activities throughout the University. The principal operating system, VPS, provides high-speed interactive and batch processing. All students and faculty members are eligible for an account on VPS.

VPS supports all popular programming languages (and many others as well) including Ada, APL, Assembler, BASIC, C, COBOL, FORTRAN, LISP, LOGO, Pascal, PL/I, SNOBOL, and XPL. A state-of-the-art commercial data base package and a full array of statistical packages and programs are also offered. Powerful text-formatting packages are available for word-processing applications, including dissertations and theses.

In addition to the terminals located at 111 Cummington Street, clusters of terminals are located in Mugar Library on the third floor, river side, and in the Science and Engineering Center. For those wishing to use their own terminals or personal computers, dial-in ports to the 3090-200VF are available.

A sophisticated computer graphics laboratory is available for anyone needing graphics output (such as charts or plots), and to researchers studying computer animation and solids modeling.

A local area broadband network on campus allows high-speed terminal-to-computer and computer-to-computer communications. Boston University is also a charter member of the BITNET inter-university electronic message and mail network which connects over 1000 universities and research centers internationally. In addition, members of the University community currently have access to ARPA, CSNET, HEPNET, and USENET.

The Center’s main office is open Monday through Friday, 8 a.m. to 5 p.m. Public access facilities are available from 10 a.m. Sunday through 11 p.m. Friday, and from 9 a.m. to 9 p.m. on Saturday. Mugar and Science/Engineering facilities are open during regular building hours. VPS is available 24 hours a day, 7 days a week, except during disk backup and maintenance (Monday, 3 a.m.-6 a.m. and Thursday, 3 a.m.-6 a.m.).

George Sherman Union The George Sherman Boston University Union, 775 Commonwealth Avenue, serves many of the social, cultural, and recreational needs of the University community. Special exhibits, lectures, recitals, films, gallery showings, and a comprehensive recreation program are some of the activities which take place here. A recreation area offers billiards, video machines, and a variety of challenging games. Other facilities include student organization offices, a post office, a bank, a ballroom, meeting rooms, and a gift shop.

Union Information, 353-2921, located on the second floor, serves as ticket outlet for all major university events as well as selected theatres and cinemas in Boston, supplies Union activity information and offers MBTA passes, discount subscriptions to the New York Times, coat and package checking, equipment and technical assistance, plus the sale of candy, gum, cigarettes, and sundries.

B.U. Bookstore Mall The B.U. Bookstore Mall is a unique six-level vertical shopping environment. It features New England’s largest bookstore, the B.U. Bookstore — three floors of general, professional, technical, and academic books — plus three floors of shops. Located at 660 Beacon Street, Kenmore Square, Boston, the B.U. Bookstore Mall is open Monday through Friday 9:30 a.m. to 7 p.m., Saturday 10 a.m. to 6 p.m., and Sunday, September through May, noon to 5 p.m.

The Campus Shop at George Sherman Union, 775 Commonwealth Avenue, provides a complete selection of essential health and beauty aids, paper supplies, emblematic sportswear, magazines and newspapers, cigarettes, film, and sundries. Regular store hours are Monday through Friday 8:30 a.m. to 6:30 p.m., Saturday 11 a.m. to 5 p.m.

Campus Convenience, at 700 Commonwealth Avenue, is a full-service convenience store carrying everything from grocery items to insignia gifts, health and beauty aids, paper supplies, newspapers, and office supplies, and sundries. Regular store hours are Monday through Friday, 9:30 a.m. to 6:00 p.m.
Boston University Information Center
The Information Center, 771 Commonwealth Avenue, 353-2169, provides accurate information about events, University services and resources, office locations and personnel, procedures, deadlines, hours of operation, etc. Samples of current University publications are available at the Center. Hours during the academic terms are 8:30 a.m. to 8 p.m. weekdays, 9 a.m. to 8 p.m. Saturday, and noon to 8 p.m. Sunday. Summer hours are 9 a.m. to 6 p.m. Monday through Saturday. The Center is closed Sundays during the summer except for orientation and registration sessions.

The Center posts the Master Calendar of University Events, a computerized listing of all events sponsored by the University and off campus, or any event taking place in University facilities. The calendar is updated daily.

The King Center
Dedicated to the values and memory of alumnus Martin Luther King, Jr. (1929-1968), the King Center addresses the personal, educational, and career development needs of Boston University’s students. The Center is a centralized source of comprehensive professional services and programs for undergraduate and graduate students seeking counseling, learning, career planning, or placement assistance. These services, as well as the Center’s Minority Affairs and Disability Services offices, help students get the maximum benefit from their academic efforts.

Information and appointments can be obtained by telephoning or by visiting the second floor reception desk at 19 Deeringfield Street (in Kenmore Square).

Religious Centers
Protestant, Catholic, and Jewish groups are represented by Marsh Chapel, Newman House, and Hillel House, respectively. For a list of denominations represented on campus, see the Student Lifebook. For further information, contact the Marsh Chapel Office, 735 Commonwealth Avenue, 617/353-3560.

Marsh Chapel, at the heart of the Charles River Campus, 735 Commonwealth Avenue, offers programs of Christian worship, Bible study, counseling, music, and educational and outreach programs. An all-University service of worship is held each Sunday morning at 10:45 a.m., and is broadcast over WBUR-FM (90.9). The Chapel is open from 8 a.m. to 10 p.m. The Dean of the Chapel, Robert Watts Thornburg, as well as other campus ministers in the Marsh program, are available daily.

Other campus ministries available are: Asian Campus Ministry, Rev. & Dr. Jongshik Choe, 353-4710; Episcopal Ministry, Rev. John P. Streit, Jr., 277-5523; Lutheran Ministry, Rev. Richard Lingren, 477-2728.

For general information or guidance relating to other religious groups at Boston University, call 353-3560.

Hillel House, 233 Bay State Road, 353-3633, is the center for Jewish life at Boston University. Hundreds of students, faculty, and staff are involved in the cultural, religious, and social activities sponsored by Hillel throughout the year. Services in the reformation, conservative, and orthodox traditions are held each Friday. Call Hillel for the times and places for special services. A wide variety of programs relating to Israel and to contemporary world issues occur weekly. In addition, counseling services are provided and Kosher dining is available on religious holidays and through a daily meal plan. For further information call Hillel House at 353-3633.

Newman House, 211 Bay State Road, is the Roman Catholic center for the University community, offering weekday and Sunday worship, retreats, social events, counseling, Bible study, and other classes. Sunday Mass is celebrated in Marsh Chapel at 12:30 p.m. (traditional music), 6:00 p.m. (folk music), and 10:00 p.m. (candlelight with instrumental music). For further information call Newman House at 353-3632.

Physical Education, Recreation, and Dance
The Department of Physical Education, Recreation, and Dance offers a broad spectrum of programs to interested students. Physical Education (PDP) credit courses provide a structured experience in activities ranging from rock climbing to scuba diving to aerobics. Instruction is also available in mini-courses (classes of shorter duration) through the Evening Instructional Program and the Fitness, Lifestyle, and Exercise Program (EIP/FLEX).

Workshops, special events, intramurals, club sports, and open recreation are additional Department offerings involving different levels of participation and commitment. Students can pursue and learn fitness activities in a format that meets their interests and schedule demands.

Facilities for informal recreation are housed primarily at the Case Center, 285 Babcock Street. They include a Nautilus and free weight room, a fitness room with state-of-the-art exercise equipment, gymnasium, saunas, locker rooms, a swimming pool, dance studio, and an ice skating rink.

Adjoining the Center are tennis courts, a tennis court, and Nickerson Field (Astroturf). The Sargent building on University Road contains a gymnasium, fitness room, and a dance studio/theatre. Sailing and canoe docks are located on the Charles River.

For more information on these programs, please call the Department of Physical Education, Recreation, and Dance at 353-2748.

International Students and Scholars Office
The International Students and Scholars Office, 19 Deeringfield Street, provides services to the approximately 2,600 international students and 240 international faculty and scholars at the University who represent 116 countries. The Office informs students and staff about regulations concerning U.S. immigration, employment and tax laws, and currency exchange.

To assist new students in adjusting to the University, the city of Boston, and life in the U.S., ISSO conducts special orientation programs every September and January. The Office also advises students on such matters as housing, cultural adjustment, and personal and financial problems. Other services include an International Hospitality Program, a Wives' Program, intercultural programs, assisting International Clubs, and a World Fair each spring.

ISSO publishes a newsletter, coordinates an emergency loan fund, and sponsors numerous activities to promote international awareness. Its basic mission is to act as a resource for the entire international population at Boston University.

Center for English Language and Orientation Programs
CELOP, 730 Commonwealth Avenue, 353-4870, offers intensive English courses and orientation programs for international students who wish to improve their English and prepare academically and culturally for college study in the United States.

Sargent Camp
Sargent Camp is located in the beautiful Monadnock region of southwestern New Hampshire, about 1 1/2 hours from Boston.

Sargent Camp offers team building and leadership development programs for students, faculty, and staff on a year-round basis. Sargent Camp is available for recreational retreats, conferences, and departmental picnics. The Camp offers a soccer program for boys and girls, ages 9-14, during the summer. The Camp covers 850 acres of forest and fields, including the 60 acre Halfmoon Pond, a floating glacial bog, and 25 miles of trails for hiking and ski touring. Facilities include two lodges (with
The University
dining, comfortable rustic winterized cabins, and recreational equipment.

For more information, contact Sargent Camp at 353-3203 or 603/525-3311.

Gerontology Center
The University's commitments to research, education, and service in the field of aging are coordinated and augmented by the Boston University Gerontology Center, Boston University Medical School, 720 Harrison Avenue, Suite 1101 and at 67 Bay State Road on the Charles River Campus which promotes understanding and professional competence in dealing with the biological, medical, psychological, and social aspects of aging. The Center maintains a non-circulating library at 67 Bay State Road; it includes books, journals, directories, state-of-the-art information, statistical data, training aids, and governmental and legislative references. An updated listing is kept of local and nation-wide conferences.

The Center's long-term care unit is located at Jewish Memorial Hospital. Its Geriatric Consultative Service is located within the Department of Medicine at University Hospital, and its community-based care is located within the Home Medical Service.

In addition to sponsoring lectures, workshops, and conferences, the Center offers an annual Summer Institute in Gerontology, featuring both academic and continuing education courses. Undergraduates may register in the Summer Institute for academic credit.

The Center publishes the Boston University Series in Gerontology with Lexington Books; the sixth volume in the series was published in 1986.

The Center awards the Louis Lowy Certificate in Gerontological Studies, upon graduation, to students in any of the University degree programs who have completed a specified number of courses focusing on gerontology. Students applying for the Certificate may major in any field with a subconcentration in aging; those interested in this subconcentration should contact the Center to help plan their courses. The Center also awards the Certificate of Recognition for the Study of Aging to nondegree students undertaking substantive study pertaining to gerontology. A list of courses applicable to the Certificates may be obtained from the Gerontology Center at 67 Bay State Road, 1st floor, Boston 02215; telephone 353-5045.
The City of Boston

Boston, the largest city in New England, is a seaport with a proud tradition and an active contemporary life. One of our nation's oldest cities, 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.

Because of its compact size and many attractions, Boston is the perfect walking city. A walking tour might start at the elegant Copley Place, a collection of glittering shops, restaurants, and movie theatres around a spectacular atrium. From there one might stroll past the fashionable art galleries and outdoor cafes of Newbury Street to the Bull & Finch Pub, inspiration for television's "Cheers." Across the street swan boats glide on the Public Garden pond and under the world's smallest suspension bridge. Next to the Garden is the Boston Common, the oldest public park in the country and the scene of summer concerts, rallies, frisbee throwing, and quiet sun bathing. Just beyond the gold dome of the State House are the tree-lined, gas-lit streets of Beacon Hill, where federal-style mansions, wrought-iron fences, and cobblestones mark one of the birthplaces of the abolitionist movement. The Faneuil Hall restoration at Quincy Market, centerpiece of a refurbished waterfront district, is a short distance from the modern New England Aquarium. In the North End, the Italian neighborhood of Boston, the red bricks of the Freedom Trail lead one at last to the Old North Church, the legendary Paul Revere House, and authentic cappuccino and cannoli. Chinatown's exotic shops and restaurants flank the Theatre District, where many Broadway shows are tried out before opening in New York.

Designated the "Hub of the Universe" in the days of the Clipper ships and the China trade, Boston continues to live up to that reputation. 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 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 fire station, exhibits modern art, including video. Visitors to the Museum of Science can manipulate and participate in 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 concerts, recitals, and dance performances are 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, punk, jazz, and blues 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. Each April, the Boston Marathon passes through the Boston University campus. 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. In the winter, cross-country skiers can step out their doors and glide across campus or follow the Emerald Necklace, the chain of parks designed by Frederick Law Olmsted. Beginners can enjoy downhill skiing in the nearby Blue Hills; for the serious skier, the resorts of New Hampshire and Vermont are a two-hour drive to the north.

Home of approximately sixty colleges and universities, Boston is an unrivaled center of learning, high-tech research and industry, and culture.
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Legend

1 = Atrium Pavilion (Main entrance of the University Hospital)
2 = Doctors Office Building (including public parking garage)
3 = Preston Family Building
4 = Evans Building
5 = Old Evans Building
6 = Collamore Building
7 = Vose Hall
8 = Robinson Building
9 = Talbot Building
10 = Instructional Building (School of Medicine main entrance)
11 = Housman Medical Research Center
12 = School of Public Health
13 = Silvio O. Conte Medical Research Center
14 = 801 Albany Street
15 = Nurses Education Building (Boston City Hospital)
16 = Maxwell Finland Laboratory (Boston City Hospital)
17 = Solomon Carter Fuller Mental Health Center (Commonwealth of Massachusetts)
18 = Goldman School of Graduate Dentistry (Goldman School main entrance)
19 = Naval Blood Research Center

Dining Facilities

Bistro — Atrium Pavilion, Level 2 (UH)
Cafeteria — Preston Building, 1st Floor (UH)
Cafeteria — Instructional Building, Basement (BUSM)
Cafeteria — Goldman School 1st Floor (GSGD)
Cafe — Doctors Office Building, 1st Floor (UH)
(Available food services will be available in late 1988 in Atrium Pavilion.)

Major Conference Rooms

Hiebert Lounge, 14th floor, Instructional Building (BUSM)
Bakst Auditorium, 1st floor, School of Public Health (BUSM)
L-110, L-112, 1st floor, Instructional Building (BUSM)
Shapiro Conference Room, 11th floor, Doctors Office Building (BUMC)
Keefer Auditorium, 1st floor, Evans Building (UH)

Public Parking Facilities

Doctors Building Garage
Lot A
Lot C
Prentice Conference Room, 1st floor, Preston Building (UH)
Whittier Conference Room, 5th floor, Old Evans (UH)
Wilkins Board Room, 1st floor, Evans Building (UH)
Goldman Auditorium, 3rd floor, Goldman School (GSGD)
Auditorium/Audiovisual Center, 7th floor, Goldman School (GSGD)
Highlights of Boston University
Charles River Campus

Schools and Colleges
5. College of Engineering, 44 Cummington St.
   — Henry M. Goldman School of Graduate Dentistry, 100 E. Newton St. (not on map)
7. School of Law, 765 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. Danileisen Hall, 512 Beacon St.
16. Myles Standish Hall, 610 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, 660 Beacon St.
24. Case Athletic Center, 265 Babcock St.
25. Center for English Language and Orientation Programs, 730 Comm. Ave.
27. Concert Hall, 855 Comm. Ave.
32. International Student Office, 19 Deerfield St.
34. Martin Luther King Jr. Center for Career, Educational and Counseling Services, 19 Deerfield St.
35. McKeef Science Center, 580 Comm. Ave.
38. President's Office, 147 Bay State Rd.
40. Student Health Services, 881 Comm. Ave.
41. Students, Dean of, 775 Comm. Ave.
42. Summer Term, 755 Comm. Ave.
   - Theatre, 264 Huntington Ave. (not on map)
43. University Information Center, 771 Comm. Ave.

MBTA Stops

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