1974-05-01

Boston University Bulletin: School of Graduate Dentistry: 1974-1975
May 1, 1974

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Boston University
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The University reserves the right in its sole judgment to make changes of any nature in its program, calendar, or academic schedule whenever it is deemed necessary or desirable including changes in course content, the rescheduling of classes with or without extending the academic term, canceling of scheduled classes and other academic activities, and requiring or affording alternatives for scheduled classes or other academic activities, in any such case giving such notice thereof as is reasonably practicable under the circumstances.

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

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## Calendar

### 1974–1975

#### FIRST SEMESTER

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<tr>
<td>Orientation at School of Graduate Dentistry, predoctoral program</td>
<td>Friday, August 30, 1974</td>
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<td>Orientation at School of Medicine, Predoctoral program</td>
<td>Tuesday, September 3, 1974</td>
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<tr>
<td>Registration, Predoctoral program</td>
<td>Thursday, September 5, 1974</td>
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<tr>
<td>Classes begin, 8:00 a.m., predoctoral program</td>
<td>Monday, September 9, 1974</td>
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<tr>
<td>Registration and orientation, 9:30 a.m., postdoctoral programs</td>
<td>Monday, October 14, 1974</td>
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<tr>
<td>Classes begin, 0:00 a.m., postdoctoral programs</td>
<td>Monday, October 28, 1974</td>
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<tr>
<td>Columbus Day: no classes or clinics</td>
<td>Wednesday–Monday, November 27–December 1</td>
</tr>
<tr>
<td>Veteran's Day: no classes or clinics</td>
<td>Thursday, November 28, 1974</td>
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<tr>
<td>Thanksgiving recess, 12:00 noon–8:00 a.m., postdoctoral program</td>
<td>Friday–Thursday, December 13–January 2</td>
</tr>
<tr>
<td>Thanksgiving recess, predoctoral program</td>
<td>Monday, February 17, 1975</td>
</tr>
<tr>
<td>Vacation</td>
<td>Monday, April 21, 1975</td>
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#### SECOND SEMESTER

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<tr>
<td>Registration, 9:00 a.m.–12:00 noon postdoctoral programs</td>
<td>Thursday, January 2, 1975</td>
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<tr>
<td>Registration, Predoctoral program</td>
<td>Monday, May 19, 1975</td>
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<tr>
<td>Washington's Birthday: no classes or clinics</td>
<td>Monday, May 26, 1975</td>
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<tr>
<td>Classes and clinics end, 5:00 p.m., postdoctoral programs</td>
<td>Thursday, July 4, 1975</td>
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<tr>
<td>University Commencement</td>
<td>Monday, September 2, 1975</td>
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#### SUMMER SESSION

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<td>Classes begin for continuing students, postdoctoral programs</td>
<td>Monday, May 19, 1975</td>
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<tr>
<td>Memorial Day: no classes or clinics</td>
<td>Monday, May 26, 1975</td>
</tr>
<tr>
<td>Independence Day: no classes or clinics</td>
<td>Thursday, July 4, 1975</td>
</tr>
<tr>
<td>Labor Day: no classes or clinics</td>
<td>Monday, September 2, 1975</td>
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</table>
Officers of Administration
and Faculty

School of Graduate Dentistry

ADMINISTRATION

John R. Silber, B.A., M.A., Ph.D., L.H.D. (hon.), President of the University
Dean B. Doner, B.A., M.A., Ph.D., Academic Vice President
Richard Egdaahl, M.D., Ph.D., Academic Vice President; Director of Boston University Medical Center
Douglas W. Palmer, B.A., M.A., Vice President for Administration
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Daniel J. Finn, B.A., J.D., Vice President for Operations
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Spencer N. Frankl, D.D.S., M.S.D., F.A.C.D., Associate Dean of the School; Chairman, Department of Pedodontics; Professor of Pedodontics
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Herbert Wells, B.A., D.M.D., Assistant Dean for Predoctoral Program; Director, Graduate Student Research; Professor of Pharmacology
Louis C. Fillios, A.B., M.S., Sc.D., Director of Basic Sciences; Chairman, Department of Nutritional Sciences; Professor of Biochemistry
M. Doris Rodman, Executive Administrative Assistant
Irene Christopher, A.B., B.S. in L.S., Librarian
Cynthia M. Downs, Registrar

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

In September 1972, the first class to enter the new Doctor of Dental Medicine (D.M.D.) program was welcomed by the faculty of the School of Graduate Dentistry. Throughout its history, Boston University has viewed itself as an institution with a keen sensitivity to the present and future needs of society and a desire to be responsive to these needs. At the present time, some of society's most pressing needs lie in the field of health, and the University has embarked upon a major effort to do its part in helping to improve the quality of health care and to make it more easily available to more of our citizens. A significant indication of the University's increasing commitment in the health care field is the Doctor of Dental Medicine program initiated at the School.

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

Research is considered to be an essential phase of advanced education in dentistry. This discipline is designed to develop the investigative talents of those inter-
ested in such an opportunity, to bring into focus the numerous and complex
dental and medical health problems in need of amplification or solution, and to
add much-needed responsible investigators to the teaching-research community.

Adequate research preceptorship and facilities exist to accomplish these goals.
The School of Graduate Dentistry utilizes not only its own research staff and fa-
cilities, but also, because of close liaison and cooperation with the School of Medi-
cine and University Hospital, employs their investigators and investigative areas
when the nature of the research so requires.

A primary objective of postdoctoral dental education is to provide skilled
and productive clinicians, researchers, and educators to the profession. Education
on a graduate level emphasizes the interdependence of clinical problems and
current basic concepts, an understanding furthered by a sustained and guided
exposure to the scientific method in the classroom, clinic, and research laboratory.
Individuals endowed with an understanding of biologic principles and the ability
to utilize these principles effectively in the prevention, amelioration, and cure of
oral disease contribute to the vitality of the University, the profession, and the
community.

The School of Graduate Dentistry includes, in addition to the new D.M.D.
program, (1) departmental subdivisions devoted to training in the eight dental
specialties, (2) a Program for Continuing Education presenting short, intensive
courses of interest to the general dental practitioner and specialist, and (3) a
Program in Dental Assisting for those desiring training in this ancillary dental field.

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

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

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

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

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

Clinical Facilities

UNIVERSITY HOSPITAL

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

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

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

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

SCHOOL OF GRADUATE DENTISTRY BUILDING

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

In the fall of 1973 construction was initiated for the addition of four floors to the present building. The new facilities are scheduled for completion in the fall of 1974 and will be principally utilized for the housing of the D.M.D. program.

CLINICAL RESEARCH CENTER

The Clinical Research Center was established in August 1970 by the Trustees of Boston University as an all-University activity to be located within the Medical Center complex. The primary objective of the Center is to provide an environment conducive to group-effort clinical or applied research toward the solution of the complex and challenging problems in dental diseases. The all-University approach adds insight to investigations, lending competence and expediting instrumentation. A second objective of the Center is the training of individuals in clinical research. This is particularly important in light of the acute shortage of clinical researchers in U.S. dental schools today.

REISMAN DENTAL CLINIC, BETH ISRAEL HOSPITAL

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

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

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

NEWTON-WELLESLEY HOSPITAL
Located in Newton, this community hospital serves the Greater Newton-Wellesley area.

The Department of Pedodontics has established a dental clinic in the outpatient department of the hospital together with in-patient care for the handicapped child. This large modern institution is equipped in every way for the study and care of the pediatric patient and offers exceptional opportunities for teaching in Pedodontics.

HOGAN REGIONAL CENTER
Hogan Regional Center, in Hathorne, is the newest comprehensive facility for the retarded child in the Commonwealth of Massachusetts. Opened in 1967, it is committed to an education and rehabilitation philosophy, and hence accepts only those children for whom a comprehensive treatment and training program can be provided. The center is divided into four independent functional units: an infirmary for non-ambulatory patients requiring basic nursing care, a nursery, a preadolescent unit; and an adolescent unit. Each unit is backed by a battery of professional services including dental, medical, psychological, educational, vocational, and recreational. Health services include comprehensive dental care provided by the staff and residents of the Department of Pedodontics in the center's modern dental clinic.

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

**Accreditation**

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

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

The objectives of the D.M.D. program are to select individuals who are intellectually, morally, and physically qualified for a career in dentistry and to provide them with an educational program through which they may reach the highest level of personal and professional development for such a career.

In planning the D.M.D. program, it was essential to be aware of the recent ferment in dental education and in higher education in general. Dental educators have been subjecting their programs, and the products of those programs, to increasingly critical scrutiny and many, dissatisfied with the results of existing programs, have initiated new programs incorporating changes of greater or lesser magnitude. The educational ferment and the stimulus for change stem from a number of factors:

1. There has been an enormous increase in information in the sciences basic to dentistry. The pace of the increase in knowledge has made it virtually impossible for a dentist to learn, or even to be taught, all that it would be desirable for him to know. Thus, more than ever before, a successful basic science curriculum requires careful selection of material and the development of new ways of teaching.

2. There has been a major advance in the amount of new knowledge available in regard to human behavior. This knowledge has provided new material that must be included in the curriculum. In addition, the increased understanding of the human learning process has enhanced the potential for developing improved methods of teaching.

3. Experimentation with curricular changes has also been occasioned by the rapid changes taking place in our society which have led to changes in the methods by which health care is made available to various segments of American society.

The School recognizes the fact that students completing their dental education within the next decade will reach the peak of their professional careers early in the next century. During this time, dentistry, along with the other health professions, will undergo continuous and, possibly, explosive change. It is generally agreed that, in the future, dental practice will be characterized by (1) an increased emphasis on the early detection of incipient disease and on the routine application of preventive measures, (2) an increasingly close working relationship between dentists and other members of the health professions in providing total patient care, (3) greatly increased utilization of auxiliary personnel, and (4) the responsibility for a larger number of patients. Since such progress is inevitable and, in large
measure, all to the good, a major effort is being made to prepare students so they possess the capacity to incorporate beneficial developments into their overall approach to dentistry. In the D.M.D. program, the curriculum must attempt to foster in students the ability to accept change and to incorporate beneficial changes into their own approaches to the delivery of dental care. To attain these basic objectives, the curriculum has been designed to:

1. Develop in students a lifelong spirit of inquiry which leads them to question seriously what they know and do and which leads them to seek, through continuing education and study, better ways to promote and preserve the oral and general health of their own patients and of the community as a whole.

2. Prepare students who possess the capabilities of viewing dentistry within its social context as one of the health services. This entails their having an acute awareness of their responsibilities to individual patients and to society in general in preventing oral diseases and in maintaining oral health. In short, the School hopes to develop in students a superior sense of their responsibilities to society.

3. Provide students with a firm, basic understanding of human biology, especially the biology of the oral cavity, both in health and in disease.

4. Prepare students who have been equipped by means of didactic, laboratory, and, especially, clinical experience to carry out the diagnosis and treatment of those problems in dental medicine which usually fall within the purview of the general practitioner. Included in this is a knowledge of and an ability to practice preventive dentistry.

5. Develop in students an understanding, appreciation, and, if possible, an abiding interest in health-related research.

6. Provide students with the competence to organize and administer a practice including the effective utilization of dental auxiliary personnel.

The faculty has designed a program curriculum which has some unique and innovative features. The curriculum is three calendar years in duration. For those students who wish to become generalists, an internship emphasizing oral diagnosis, prosthetic dentistry, periodontics, and endodontics is advised. No tuition is charged for this academic year.

During the first year, the emphasis is on the biomedical sciences basic to an understanding of general and dental health and disease. Behavioral sciences are also stressed. This portion of the curriculum is offered jointly with the School of Medicine.

The second year of the curriculum concentrates on developing the knowledge and skills necessary for the diagnosis and treatment of oral and dental diseases. Contact with patients in the dental clinics and hospital wards provides experience in techniques of interviewing and case history taking and in medical diagnosis. Dental operative techniques are integrated into the overall study of the teeth and jaws as a functioning organ system.

During the final third of the curriculum, the emphasis is on further development of the knowledge and skills required in general dental practice. There is wide exposure to the specialty areas in dentistry. While most of this period is spent in the clinics and operating rooms of the School and its affiliated institutions, students have direct experience in providing dental care within community-based clinics. The student gains experience in providing dental care for exceptional children, in carrying out dental treatment procedures under general anesthesia, and in the management of patients with systemic disease conditions. A significant
amount of elective time is available.

During that portion of the curriculum primarily oriented towards instruction in patient care, students have direct and extensive experience in utilizing the whole spectrum of dental auxiliary personnel. Instruction in practice administration includes principles of personnel selection and management. Present and future problems in the administration of dental health insurance and in third-party payment programs are covered in detail.

Finally, the School realizes that students are individuals with differing social and educational backgrounds and with differing needs and interests. Therefore, it makes little sense to force students into an identical lock-step educational experience. The School believes in flexibility and in the idea that the most effective educational program is one composed of a mixture of required and elective experiences, for this insures that each student not only masters the information and acquires the skills basic to a career in dentistry, but also has the opportunity to develop himself more fully in those areas of greatest interest to him in keeping with his ultimate career goals. This philosophy permits individual exploration of future career opportunities at a much earlier time in the educational process. Options available following completion of the D.M.D. program are (1) general practice, (2) a one-year personalized internship prior to general practice, (3) a two or three-year certificate or degree program in any of the eight recognized specialties of dentistry, (4) Ph.D. program in one of a selected number of basic sciences, and (5) fulfillment of requirements for the M.D. degree.
Administrative Policies

Pre-Doctoral (D.M.D.) Program

ADMISSION

The D.M.D. Program of the Boston University School of Graduate Dentistry is a participant in the American Association of Dental Schools Application Service (AADSAS*). It is required that all applications be processed through this service.

AADSAS Application Request Cards may be obtained from the Office of the Director of Admissions of the School of Graduate Dentistry, from college pre-professional advisers, or by writing to AADSAS, P.O. Box 1003, Iowa City, Iowa 52240.

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

An application fee of $20 should be remitted by check to Boston University when the application is submitted to AADSAS.

Candidates are not accepted for admission to the D.M.D. Program before December 1 of the academic year prior to the year of matriculation. Accepted applicants are required to pay a deposit of $200 toward the first year's tuition, usually within thirty days of notification of their acceptance. If the candidate withdraws his acceptance, the fee will not be refunded.

*AADS Application Service

In June, 1972, the American Association of Dental Schools initiated a centralized application service (AADSAS*) to assist the large number of applicants seeking admission each year to United States dental schools. The application service was developed in response to the need for improved methods of dealing with increasing numbers of applicants applying to dental school.

The role of AADSAS is restricted to the collection, collation, and distribution of each applicant's information and does not interfere with the decision-making prerogative of the applicant or the admission committee at the dental school. AADSAS performs the function of converting the material submitted into uniform applications transmitted to the individual and to each of the dental schools selected by the applicant. AADSAS does not attempt to influence applicants or dental schools about any phase of the selection process. Once the applicant has received a copy of the application materials prepared by the service and verified their accuracy, all subsequent contacts regarding admission are made directly with the individual dental schools.
D.M.D. ADMISSIONS COMMITTEE

Decisions with regard to admission of students into the D.M.D. program are made by the D.M.D. Admissions Committee. Policies in regard to admissions are also made by this committee which consists of members of the faculty representing the various teaching departments.

The Admissions Committee considers for admission those students who are in good standing or who are graduates of colleges listed as approved in the Higher Education Directory published by the Office of Education of the U.S. Department of Health, Education, and Welfare. The Committee endeavors to select students who, in their 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.

1. The Committee evaluates applicants who will have completed four years of college and will be awarded a baccalaureate degree prior to matriculation. However, exceptional three-year applicants may be considered.

2. As part of their preprofessional training, the Committee recommends that candidates have completed the followed suggested courses or their equivalents:

   Biology—1½ years (12 semester hours). Along with basic biology, courses in genetics, embryology, and molecular biology are strongly recommended.

   Chemistry—2 years (16 semester hours). A sound understanding of the basic principles of chemistry, both inorganic and organic, is required. It is recommended that the 16 semester hours be divided equally between the inorganic and organic areas.

   Physics—1 year (8 semester hours). General principles of physical laws and phenomena, mechanics, light, heat, sound, electricity, and radiation are recommended.

   English—2 years (12 semester hours). Two years or the equivalent at the college level are required, even though advanced credit was received on entry into college.

   Mathematics—1 year (6 semester hours). A basic understanding of calculus is required.

   Social Sciences—3 years (18 semester hours). The Committee strongly recommends that applicants have taken 6 semester hours each in psychology, sociology or anthropology, and in economics.

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

4. Personal interviews may be required. Every effort will be made by the Committee to arrange meetings convenient to the candidate.

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

6. Accepted applicants are required to submit, prior to matriculation, a questionnaire completed by their personal physicians, attesting to the status of their general health.
Registration

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

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

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

Grading System

Examinations are held at regular intervals and at the close of each course of instruction. Student performance is assessed by the Promotions and Student Affairs Committee. A student may be graded as A (excellent), B (good), C (fair), I (incomplete), and F (failure). The first three represent passing grades and “F” represents a failure. The numerical values are as follows:

A, 4 points  
B, 3 points  
C, 2 points  
F, 0 points

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

Student promotion will require a 2.00 or higher grade point average (both didactic and clinical work) and the maintenance of acceptable ethical standards. Students with incomplete grades in one or more subjects may be promoted at the discretion of the Promotions and Student Affairs Committee. A student whose promotion is not recommended by the Committee will be dismissed upon approval by the Dean. Requests to repeat the year must be submitted to the Promotions and Student Affairs Committee. 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 will result in automatic dismissal.

Evaluation of Academic Performance and Status

The Promotions and Student Affairs Committee considers all matters related to promotion, recommendations for honors and special achievements, as well as recommendations related to academic probation, suspension, dismissal, requests for withdrawal or leave of absence, for those students enrolled in the predoctoral (D.M.D.) program. Specific regulations regarding any of these matters are available upon request in the Office of Student Affairs in the School of Graduate Dentistry.

A major portion of the curriculum of the predoctoral (D.M.D.) program during the first thirteen months is offered jointly with the School of Medicine. For this reason, the First and Second Year Promotions Committees of the School of Medicine, at the request of the Promotions and Student Affairs Committee, review and judge the academic performance of dental students applicable to their jurisdiction. The Director of Admissions and Student Affairs of the School of
Graduate Dentistry serves as a liaison among committees.

Financial Information

TUITION
Tuition per each academic year is $3700. It is to be paid in two equal installments, September and January, at the time of registration either to Bursar’s representatives or at the Office of the Bursar, 881 Commonwealth Avenue. Tuition deposits (as explained in the section on Admission) are credited to tuition charges. Checks should be made payable to Boston University.

No student may withdraw in good standing unless all current obligations to the University are paid. The Trustees of the University reserve the right to change tuition rates or fees at their discretion whenever it is deemed advisable.

Service Charges

Application for admission ................................................. $20
Medical Insurance—varies by plan. Students are required to procure membership in a health insurance program. The School can recommend an optional but advisable program.
Transcript (no charge for first request) .................................... $1
When two or more transcripts are ordered at the same time, the first copy is $1 and each additional copy is $.50. The fee must accompany the transcript order.
Late registration and payment .............................................. $25

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

Instrument Fees

The D.M.D. program provides students with much of the equipment, instruments, and all of the supplies required in the treatment of patients. However, students in this program are required to purchase an instrument kit which contains some carefully selected items that receive especially heavy use by students and that will continue to have value to them, irrespective of their ultimate career choices. The cost for this kit is approximately $1,500, payable in a single installment. (October 15, of the second year)

Boston University also accepts Master Charge for the payment of tuition and fees up to the extent of the unused card credit limit.

Deferred Payment

As a convenience to students who wish to make payments on a monthly basis, several tuition payment plans are available. Information may be obtained through the Bursar’s Office of the University. Contracts for all full-time students or students under twenty-one years of age must have the signature of a parent or guardian.

Withdrawals and Refunds

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

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

The tuition deposit of $200 made by the student within 30 days after his acceptance is nonrefundable.

Refund balances as a result of withdrawal and credit balances in a student's account resulting from overpayment or adjustments are paid either to the student or parent.
Financial Aid

The cost of dental education today is relatively high. Students are enrolled in a rigorous three-year D.M.D. program at Boston University, and the School advises against part-time employment. Every effort should be made prior to matriculation to determine the degree of financial assistance required. Entering students should attempt to arrange financial aid for their first year prior to matriculation.

Several representative sources of financial assistance applicable to dental students entering Boston University are listed below. Additional information regarding financial aid can be obtained through the Office of Admissions and Student Affairs in the School of Graduate Dentistry.

The Uniformed Services Health Professions Revitalization Act and National Health Service Corps Scholarship Training Program were passed by the Congress and provide the student payment of educational expenses and monthly stipends in exchange for national service following completion of his educational program.

U.S. Government Scholarships and Loans were made available by the Congress in 1963 with the enactment of the Health Professions Educational Assistance Act. Students may be eligible for low-interest-rate loans and scholarships up to $3,500 per year. As a result of recent legislation, the federal government may excuse recipients from major portions of their loans in exchange for practicing in areas where there is a severe shortage of dentists.

Federal Guaranteed loans are offered by states, banks, or other lending institutions. The federal government covers a 7 percent interest rate while the student is completing his program.

Low-interest loans are available to students through the American Fund for Dental Education. Up to $10,500 may be borrowed during the three years of dental school.

Dental Scholarships for Undergraduate Disadvantaged Minority Students are also available. Information and scholarship applications are available from the American Fund for Dental Education, Suite 1630, 211 East Chicago Ave., Chicago, Illinois 60611.

Several states provide financial assistance to resident students. The Commonwealth of Massachusetts Scholarship Aid Program offers partial scholarship assistance to permanent residents of Massachusetts. Entering students from other states are advised to contact their resident state governments to determine if similar financial assistance programs are available.

Many 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.

The Boston University School of Graduate Dentistry was awarded in 1973 a $21,410 grant from The Robert Wood Johnson Foundation. The grant is administered by the American Fund for Dental Education and provides loan funds over a four-year period (1973-1977) to women students, students from rural areas, and black, American-Indian, Mexican-American, and mainland Puerto Rican students.
Four Smith-Holden Scholarships for $300 are offered each year for students who are residents of Connecticut, Rhode Island, New Hampshire, and Massachusetts. The scholarships are administered by the state dental society societies and qualifications are determined by the respective society.

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

Awards are not made prior to enrollment, but may begin at any time thereafter.

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

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

Boston University School of Graduate Dentistry Alumni Association Emergency Loan Fund is intended for small loans to tide a student over in a time of need. It is expected that the loan be repaid in a reasonable period of time.
Courses of Instruction—First Year

The first-year curriculum presents a study of the biology of man as a continuum throughout the year rather than the study of the separate disciplines that make up the basic medical sciences. The extent and character of the integrative and/or interdigitated teaching conducted during the year varies with the different topics being presented. The first part begins with the study of human anatomy and an interdisciplinary course, Cell and Molecular Biology, which includes an analysis of cell structure and function, cellular biochemistry, and histology. The second part is composed of two conjoint courses, Neurosciences and Endocrinology, and the presentation of the fundamentals of physiology and biological chemistry in an integrative and/or interdigitated approach. During the third part, microbiology and pathology are studied. The fourth part comprises the conjoint discipline of Oral Biology which is a comprehensive study of the origins, structure, and functions of the orofacial complex.

Throughout the first year, patient-oriented clinics are presented by members of the Divisions of Stomatology, Medicine, Surgery, and the Department of Radiology in conjunction with the basic sciences in an attempt to emphasize and point out the need and desirability for scientists and clinicians to work in concert in order to understand and to solve the multiple problems involved with illness. In addition, the Division of Psychiatry and the Departments of Community Medicine and Community Dentistry present introductory courses which emphasize and stress the importance of understanding the social and behavioral aspects of the biology of man and how these relate.

**CONJOINT COURSES**

**Neurosciences.** Nervous system approached from the point of view of its anatomy, physiology, and biochemistry. In the anatomy practical classes, brains and spinal cords are dissected and cytology of neurons, together with the distribution of the more important tracts, are studied in microscopic sections. Practical classes and demonstrations held which deal with selected aspects of the physiology and biochemistry of the nervous system as well as clinical correlation exercises. In addition, neuro-psychological principles and the behavioral sciences are included in the course to present an integrative concept of the central nervous system. *Dr. Peters and associates*

**Endocrinology.** Approach to endocrinology and reproduction in an integrated fashion discussing histological, physiological, and biochemical features and events. Hormone-producing organs described; stimulatory events, biosynthetic routes, transport, physiological effects, feed back control, mechanism of action, and metabolic transformations discussed as well as the histologic changes in end organs. Hormonal aberrations and their end results in man presented in clinical correlations. Sex and reproduction and its control discussed as well as the psychological effects of sex hormones. *Dr. Wotiz and associates*

**Biometrics.** Logic and procedural details of experimentation in medical and dental
science. General topics include biologic measurement, data description and summary, statistical inference, comparison, association among variables, vital statistics, and principles of experimental design. Emphasis on the role of these topics in learning the disciplines of medical and dental science in conduct and evaluation of clinical studies and in the practice of medicine. Dr. Kayne and associates

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

ANATOMY

Gross Anatomy. Although the subject is treated in its broadest aspects, emphasis is placed upon points of clinical importance. Morphology is learned by doing dissection and from films, Bassett's Atlas, demonstrations, and lectures. Surface anatomy, embryology, and radiologic anatomy are presented to reinforce and correlate the morphological studies. While studying the thorax and abdomen, clinicians teach students how to palpate, percuss, and auscultate the chest and heart. Internists, surgeons, gynecologists, and urologists are involved in teaching the anatomy of their respective specialties. When the back, arms, and legs are being studied, patients with locomotive difficulties are demonstrated. During the study of the head and neck, stomatologists, ophthalmologists and/or otolaryngologists instruct the student in the examination of the oral cavity, eye, ear, nose, and throat. Drs. McNary, El-Bermani, Deckers, Menzoian, Stallard

Microanatomy. Microscopic anatomy of cells, tissues, and organs. Emphasis placed on the relation of structure to function and on recent advances in histochemistry and electron microscopy. Loan collections are provided. Drs. Ifft, Grasso, Dittmer, Feldman, Hinds, Warr

BIOCHEMISTRY

Biochemistry. Nature of the chemical processes that occur in the living cell. Particular emphasis placed on enzymes and the functions of the nucleus, mitochondria, and microsomes in metabolism. Application of biochemistry in clinical experience presented. Genetics, immunochemistry, and radiation chemistry introduced. Sufficient grounding in biochemistry to be able to understand future advances in dentistry and medicine. Staff

COMMUNITY MEDICINE

Community Medicine and Community Dentistry. Following a series of lectures which present factual material concerned with medical and dental care, environmental health, and social factors in health care, the student is assigned to a community health agency. In groups of four or five, the student analyzes the structure and function of the agency, its role in the community, and the dynamics of the social phenomena that relate to the community and individual health. Staff

Epidemiology. Methods of epidemiology emphasized using reading material from the literature to illustrate descriptive, analytic, and experimental methods of analysis. Principles of epidemiology identified and their application to disease problems demonstrated.
student expected to design a research protocol using the methods of epidemiology. Staff

DERMATOLOGY
Lectures on skin anatomy, biochemistry, and physiology given in their respective courses. Staff

MEDICINE
Introduction to clinical medicine given consisting of exercises throughout the year which, insofar as possible, demonstrate the clinical application of material being taught in the basic sciences. Included in the exercises are patients demonstrating the problems under discussion. Basic aim is to emphasize the desirability of scientists and clinicians working together in order to understand the basic problem. Staff

MICROBIOLOGY
Immunology. Principles and mechanisms of immunologic phenomena included as part of the course in Organ Physiology. The topics presented serve as basis for understanding immunity to infectious diseases and immunopathology. Staff

Microbiology. Both parasitology and bacteriology covered including viruses, rickettsiae, and fungi. Aim is to impart an understanding of the various pathogenic microorganisms in preparation for a detailed study of infectious diseases as part of the course, Biology of Disease. General characteristics of pathogenic bacteria, viruses, rickettsia, and fungi infections for man are covered. Considerable time devoted to the genetics and physiology of microorganisms at a molecular level. Laboratory instruction includes the elements of bacteriological technique and observation of the characteristic properties of the more common microorganisms including their biochemical activity and genetics. Important diseases due to animal parasites are presented; special attention to those of importance in the U.S. and its possessions. Essential knowledge concerning biology, epidemiology, and clinical and laboratory diagnosis of diseases due to animal parasites presented through lectures and laboratory exercises. Staff

NEUROLOGY
Neurosciences. Basic neuroanatomy and neurophysiology presented in relation to clinical problems using lectures and patient demonstrations. Dr. Feldman and associates

OBSTETRICS AND GYNECOLOGY
The Division of Obstetrics and Gynecology collaborates with the Division of Psychiatry and other departments to present a course in sex education. A multi-disciplined approach is stressed. Staff

OPHTHALMOLOGY
Lectures and laboratory exercises on the anatomy and physiology of the eye presented as part of the courses of anatomy and neural sciences. Staff

PATHOLOGY
General Pathology. Core curriculum offered in the first year dealing with fundamental mechanisms and general principles of pathology. Didactic sessions largely comprised of seminars and discussions of assigned reading. Occasional lectures given by invited experts. Clinico-pathologic conferences and multi-disciplinary seminars supplement the didactic program. Microscopic study of slides and review of post-mortems correlating the clinical and anatomic changes support the didactic program. Dr. Robbins and associates

BOSTON UNIVERSITY BULLETIN
PHYSIOLOGY

Physiology taught as part of correlated courses on the cell, tissues, organs, and on integrated body functions. Physiological basis for the understanding of clinical conditions illustrated in all sections. In small group discussions, active participation of students is promoted. Students also carry out observations and physiological measurements on themselves wherever possible; these laboratory exercises supplemented with animal experimentation and demonstration. Staff

PSYCHIATRY

Psychological Function and Development. Class taught primarily in sections throughout the year with clinical demonstrations to the class as a whole. Basic psychiatric concepts presented. Structure and components of personality and its adaptive and integrative functions discussed in detail. Development and maturation from birth throughout the lifespan presented; emphasis on specific developmental issues crucial to each phase including infancy, childhood, adolescence, involutional period, senescence, and dying. Discussions of important aspects of psychophysiology and neuropsychology and of critical issues of socialization in early childhood. Opportunity provided for in-depth exploration of topics of particular interest to the students. Drs. S. Cohen, P. Knapp, and associates

RADIOLOGY

Normal Roentgenologic Anatomy. Correlation lectures and seminar demonstrations of diagnostic radiology given concurrently with gross anatomical dissections of each area. Dr. O'Conner and staff

REHABILITATION MEDICINE

The department presents during the Gross Anatomy course demonstrations of normal neuromuscular and musculoskeletal functions followed by the study of impaired function by the presentation of patients with dysfunction. Both hospitalized and ambulatory patients participate. Dr. Freed and associates

SURGERY

Clinical Correlation. Surgical instruction begins in the first year with a series of clinics correlating regional anatomy with the treatment of diseases amenable to surgery. Dr. Williams and associates

UROLOGY

Instruction in the first year consists of several lectures presented to the whole class on the applied anatomy of the genitourinary system during the course in Anatomy. Staff

Second Year and Third Year

The second year begins with pharmacology, the socio-medical dental sciences and the biology of disease. The section on the biology of disease is an interdepartmental conjoint course in which the clinical medical sciences are closely integrated with the basic sciences. The clinical dental sciences are introduced concurrently with the biology of disease conjoint program. Throughout the second year and third year emphasis is given to developing the knowledge and experience necessary to make a correct diagnosis and to develop a sound plan of treatment together with possessing the therapeutic skills necessary to achieve the goals outlined in the treatment plans. Integral to this phase of the curriculum is participation in the various specialty clinics of the school including experience in the hospital wards, operating rooms, and various affiliated institutions of the medical center.

SCHOOL OF GRADUATE DENTISTRY
Dental auxiliary utilization and a variety of delivery care systems are presented and implemented. Elective time is organized on the basis of postdoctoral objectives of the individual student. In addition, the curriculum strives to develop within the student a firm knowledge of his own personality and the ability to understand the needs and feelings of his patients as individuals and as members of an increasingly complex society.

CONJOINT COURSES

**Biology of Disease.** Fundamental understanding of the different categories of information necessary and the methods of collection and evaluation of such data in order to develop a comprehensive understanding and recognition of disease in man from a broad and scientific point of view. Lectures, laboratory exercises, case presentations, and demonstrations to illustrate the relationships between the pathological processes of disease and their clinical manifestations. Material presented arranged by organs and systems and in any given topic includes an integration of the signs, symptoms, and other manifestations of disease correlated with the basic physiological, biochemical, and pathological processes pertinent to the particular organ or system involved. Therefore, a given topic is discussed by members of the faculty representing the different disciplines concerned. Physical diagnosis and history taking closely integrated with this course. Dr. Lanzoni, Coordinator, and staff

**Pedodontics-Orthodontics.** Comprehensive study of the oral health of the child patient from birth to maturity. The development of skills to render treatment for the unusual as well as the common oral problems during the physical and emotional development of the child. Major emphasis is placed on the guidance of the child and his parents in order to obtain optimal oral health for the child and the recognition of the need for therapy to achieve an esthetic and functionally acceptable occlusion. The following areas are stressed: the development of abilities to educate and guide the behavior of the child to accept oral health care and to counsel parents to support the child's acceptance, competency in the skills of preventive dentistry, mastery of restorative dental procedures for the growing child, knowledge of pharmacologic agents and the biomedical properties of dental materials used in preventive and restorative procedures, skill in the diagnosis and treatment of traumatic injuries, competency in preventive, interceptive and corrective dental procedures related to the growth and development of the stomatognathic system. Drs. Kapala, Cianelly, Frankl, Dietz, Allard, Sandler, Roseman, Carr, and staff

**ENDODONTICS**

A comprehensive review of tooth morphology and detailed discussions on pulp and periapical pathology. Special emphasis on the diagnosis and treatment of pulpal disease including correlations with the disciplines of bacteriology, histology, pathology, pharmacology, and pain control. Drs. Schilder, Levin, and staff

**FIXED PROSTHESIS**

Detailed study of the proper diagnosis, treatment plan, and technics for fixed prosthetic appliances. A sequential program of the various approaches and rationale of therapy that will be suitable for varied pathologic states, and the differential diagnosis required for the individual patient. Stress will be placed upon the integration of periodontal and endodontic considerations that may affect the final prosthetic appliance. Drs. Mori, Schulman, and staff

**OPERATIVE DENTISTRY**

The program in operative dentistry is designed to provide the dental student with the basic philosophy, principles, and procedures in the prevention, diagnosis, treatment, and restoration of the permanent dentition. The philosophies of the department are carried out by an
integrated program that coordinates with the other clinical disciplines and the basic sciences. The course content is divided into five areas of study: rubber dam, amalgams, composite resins and silicate cements, gold foils (compacted gold), and gold castings (inlays, onlays, and crowns). The purpose of this division has been to allow the student to develop an understanding of each phase of the program coordinating with lectures, seminars and self-instructional materials. *Dr. Skerman and staff*

**ORAL DIAGNOSIS AND RADIOLOGY**

The program consists of a detailed lecture, laboratory, and practical course covering not only the essentials of Oral Diagnosis, but also Systemic considerations, and the relationship to the patient's Oral Disease to his entire well-being. Radiology is covered in three aspects: radiation biology, dental radiology techniques, and radiographic interpretation. *Dr. Stallard and staff*

**ORAL MEDICINE**

Detailed survey of clinical Oral Pathology stressing the elements and methods of examinations of diagnosis, differential diagnosis, etiology, pathogenesis and clinical course of oral, perioral, and facial diseases. Emphasis is placed also on basic and medical science correlates of oral lesions and the therapies applicable for the amelioration and cure. *Drs. Ruben and Harris*

**ORAL PATHOLOGY**

An integrated presentation of the field of oral pathology. Disorders of the oral tissues are viewed both from a perspective of uniqueness, when appropriate, or as a manifestation of a systemic disease process. All formal instruction utilizes a stomatologic, radiologic, histologic approach to engender a full appreciation of aberrant tissue formation and reaction. Laboratory work includes the study of histologic examples of lesions under discussion, when applicable; other educational modalities employed are the clinicopathologic conference wherein documented case material is discussed. The ability to communicate in acceptable histopathologic terminology is fostered. *Drs. Goldman and Richardson*

**ORAL SURGERY**

Oral Surgery. An introduction to the basic concepts and techniques of minor and major exodontia. Clinical practice in the out-patient departments of the School of Graduate Dentistry and Boston City Hospital. *Drs. Booth, Harris, Kilgore, and staff*

Pain Control. Introduction to methods and techniques used in the control of pain in dentistry. Lectures and laboratory demonstrations supplemented by clinical practice. *Staff*

**PERIODONTICS**

Periodontology directed towards the clinical and microscopic characteristics of the periodontium in health and diseases and will define those factors which initiate perpetual and modify the diseased state. In addition, all of the treatment modalities available to intercept and correct pathology will be presented at both the didactic and clinical level. *Drs. Kramer, Nimberg, Dello-Russo, and staff*

**PHARMACOLOGY**

General Pharmacology. General principles of drug action, the fate of drugs in the body, and the pharmacology and toxicology of drugs presented in lectures, conferences, and laboratory. 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. *Staff*
PUBLIC HEALTH AND COMMUNITY DENTISTRY

Basic course in dental public health designed to provide the undergraduate dental student with the necessary knowledge and skills which will permit him or her to relate the profession of dentistry to the social environment. The course will consist of lectures, seminars, and supervised field experiences covering the broad areas of: epidemiology of oral disease; biostatistics and analyses of scientific literature; organization of dental health services; health education and theories of communication; applied behavior of science; dental care programs for special populations, i.e., the homebound, the handicapped, etc.; the role of dental auxiliaries; jurisprudence; and practice management. Field experience will be provided at affiliated institutions or agencies including: The Brookline Health Department; the Newton-Wellesley Hospital; the Hogan Regional Center; the Kennedy Memorial Hospital; the Boston School Health Program. Dr. Jong, staff, visiting lecturers

REMOVABLE PARTIAL AND FULL DENTURE PROSTHESIS

The course is designed to provide a broad background in the theory and concept of partial and complete denture prosthodontics in conjunction with a comprehensive clinical experience in order to develop diagnostic skills and competence in clinical prosthodontics. Emphasis is placed on the recognition of pathological abnormalities and the problems the clinician faces when treatment prior to the construction of a replacement is necessary. Drs. Paraskis, Pameijer, Sinabaldi, and staff
Certificate of Advanced Graduate Study

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

FIELD OF SPECIALIZATION

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

RESIDENCE REQUIREMENT

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

CLINICAL REQUIREMENT

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

FINANCIAL REQUIREMENT

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

Master of Science in Dentistry

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

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

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

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

RESEARCH REQUIREMENTS
1. During the first semester of enrollment, the student should submit a protocol for a research project upon which to base his master's thesis. The research may be oriented toward a problem with clinical significance or it may be concerned with a preclinical subject related to dentistry. It should be designed so as to contribute significant information to the realm of dental or biological knowledge.
2. The candidate's credentials and the protocol, submitted as a basis for research and thesis, are reviewed by the chairman of the department representing the clinical specialty, the Director of Graduate Student Research, and the Student Academic Achievement Committee. When approved, the student may then proceed with the investigation. The project is conducted by the candidate in consultation with his department chairman and with the guidance of an adviser who is a member of the faculty of the School of Graduate Dentistry or one of its affiliates.
3. The candidate must present subsequently an original, unpublished thesis based upon his research effort. The thesis must be submitted, in triplicate and in the prescribed format, by March 1 of the school year in which the degree is sought.
4. After presentation of the thesis, the candidate must defend it before a faculty committee selected by the Dean and the Student Academic Achievement Committee. The report of the chairman of the thesis-defense committee will be submitted to the Student Academic Achievement Committee for final approval and recommendation for degree. The thesis defense can be made up to April 15 of the year in which the degree is sought.
5. The investigation should possess a degree of originality and sophistication so as to merit the award of the advanced degree. A thesis may be rejected on the bases of content, style of writing and composition, assembly format, etc., by the department chairman, the Director of Graduate Student Research, the Student Academic Achievement Committee, or the thesis-defense panel; the thesis is returned to the candidate for revision or a new writing. The deficiencies of a thesis are made apparent to the candidate by his adviser, department chairman, or the thesis-defense panel. The paper may then be resubmitted by March 15 of the following school year for review and defense.

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

COMPREHENSIVE EXAMINATION

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

CLINICAL REQUIREMENT

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

FINANCIAL REQUIREMENT

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

Doctor of Science in Dentistry

Graduate education must prepare sufficient numbers of individuals to guarantee the necessary source of teachers, and research workers. At the present time, there are three main areas in the Doctor of Science Program (see outline on page 47):

1. The Doctor of Science in Dentistry degree program is applicable to those individuals motivated toward advanced postdoctoral training with an emphasis on the attainment of both clinical and academic excellence. With such a background, graduates of the program should be able to contribute significantly to scientific knowledge and be capable of communicating professional concepts and research experiences. Therefore, they should emerge as sophisticated dental educators capable of and committed to the performance of advanced research and teaching. Credit may be earned for formal courses, seminars, and research in proportion to the particular needs and background of the candidate as worked out in consultation with his major adviser and the director. At least 18 credits are allocated to a research project.

2. The Doctor of Science in Oral Biology degree also consists of a minimum of three years devoted to course work and practical experience in advanced clinical and basic research training. The course work is based upon and corre-
lated with specific areas of dentistry, the basic and medical sciences, and research.

The program will train individuals so as to be qualified to carry out an active program of Oral Biology teaching and research. Courses in the School of Medicine and the Graduate School of Arts and Sciences are available to supplement courses offered in the School of Graduate Dentistry in order to fulfill the minor requirements of the degree.

3. The Doctor of Science in Nutritional Science is designed for individuals interested in teaching or carrying out research related to Nutrition. Individuals holding the D.M.D. degree or its equivalent must earn a minimum of 48 credits. In addition to those offered at the School of Graduate Dentistry, courses are also available in the Graduate School of Arts and Sciences through the Division of Medical and Dental Sciences. A minimum of 18 credits must be allocated to the research project.

For selected individuals, a two-year Master of Science program in Nutritional Science is available, where a minimum of 32 credits in the form of course requirements and research are necessary.

FIELD OF SPECIALIZATION
The student in the Doctor of Science in Dentistry program is able to pursue an area of research specialization to prepare him for advanced research and for teaching and practice in Restorative Dentistry, Periodontology, Oral Pathology, Endodontics, Pedodontics, Orthodontics, Public Health Dentistry, or Oral Surgery.

After consultation with the department chairman and the director of this program, he may select his major adviser. His minor adviser will be a faculty member from an appropriate basic science area (Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, or Physiology.)

Similarly, students in the Doctor of Science in Oral Biology program can arrange to carry out clinical specialty training as part of their program.

Students enrolled in the Doctor of Science in Nutritional Science program will have as their major adviser a member of the Department of Nutritional Sciences, and their minor adviser will be a faculty member from an appropriate basic science area (Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, or Physiology).

RESIDENCE REQUIREMENT
A residence time of at least three calendar years is required for any of the Doctor of Science degrees. For holders of the D.M.D. or an equivalent degree, a minimum of 48 credits is necessary, all of which must be earned at Boston University. Holders of the bachelor's degree are acceptable into the Doctor of Science in Nutritional Science program, but are required to earn a minimum of 64 credits in the form of major and minor course requirements at the School of Graduate Dentistry and the Graduate School of Arts and Sciences through the Division of Medical and Dental Sciences, as well as a minimum of 18 credits for research.

ELIGIBILITY AND APPLICATION
Any well-qualified person with a doctorate in dentistry from a recognized dental school may apply for admission to any of the Doctor of Science programs. An individual with a bachelor's degree from a recognized school may be admitted to the Doctor of Science in Nutritional Science program.
Application should be made to Boston University School of Graduate Dentistry, 100 East Newton Street, Boston, Massachusetts 02118. In addition to the regular admission requirements, transcripts of both the undergraduate school and the dental school academic records must be submitted. A student's undergraduate program must include courses in general biology, inorganic and organic chemistry, physics, and English totaling 38 credits. All courses in science must include didactic and laboratory instruction. In addition, courses in quantitative analytical chemistry, mathematics, psychology, and foreign languages are desirable. The student may be required to make up any deficiencies in his academic background by completion of specified courses without graduate credit.

Students seeking admission to the program leading to the Doctor of Science in Dentistry (Oral Biology and Pathology) degree should be intellectually, morally, and physically qualified. They should be superior individuals whose records indicate promise in the attainment of the specific goals set for the proposed degree. In addition to the above credentials, letters of recommendation from two senior faculty members from the undergraduate school and the Dean and two senior faculty members of the dental school are required. A student may be enrolled for the Doctor of Science in Dentistry (Oral Biology and Pathology) degree only if he is accepted for such by the Student Academic Achievement Committee.

QUALIFYING EXAMINATION
Each student must demonstrate competence in the general and specific areas related to Oral Biology in examinations prepared by the faculty of the Division of Oral Biology.

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

GRADE REQUIREMENT
A grade of PASS is required in all subjects in the School of Graduate Dentistry. The candidate must also have the endorsement of the faculty, chairman of the department in the major specialty subject, and the Director of the Clinical Research Center.

FINAL ORAL EXAMINATION
The candidate must defend his thesis in an oral examination before a committee selected by the Director of the Clinical Research Center, the Director of the Division of Oral Biology, and the chairman of the pertinent clinical department. The report of the chairman of the dissertation defense committee is submitted to the Student Academic Achievement Committee for final approval and recommendation for the degree.

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

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

SCHOOL OF GRADUATE DENTISTRY
Doctor of Philosophy

In conjunction with the School of Graduate Dentistry, the Graduate School (Arts and Sciences) offers a Ph.D. program for holders of dental degrees. The principal aim of the program is to help meet the need of dental schools for greater numbers of highly qualified teachers and scientists in preclinical or basic sciences. The program is therefore designed to offer an opportunity for holders of dental degrees to obtain advanced education and research training in the sciences basic to dentistry.

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

The design of this program is quite similar to that of other Ph.D. programs in the Division of Medical and Dental Sciences of the Graduate School. Faculty members of the School of Graduate Dentistry who are involved in the program also hold appointments in the Graduate School. The courses from which a candidate may fulfill his major (or departmental) requirements are those described in the bulletin of the Graduate School (Arts and Sciences) for each major area of concentration. A candidate satisfies the minor requirement with the two-semester course in Oral Biology and by attending a weekly seminar in Dental Research for four semesters. These latter courses are offered jointly by the Graduate School (Arts and Sciences) and the School of Graduate Dentistry. By means of lectures and readings, the Oral Biology course provides intensive interdisciplinary coverage of the tissues and organ systems of particular importance to dentistry. Approximately 25 percent of the course is devoted to hard tissues. Other areas include connective tissues, oral microbiology, genetics and teratology, neuromuscular function in the oro-facial region, saliva and salivary glands, and nutritional and metabolic factors in dental development and disease. A one-semester elective course in Nutrition is also available.

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

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

TRAINING SEQUENCE

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

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

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

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

The requirements for the Nutrition minor can be satisfied by courses and research training offered by the Department of Nutritional Sciences (see departmental course listings).

ADVISORY SYSTEM

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

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

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

POSTGRADUATE RESIDENCY AND PLACEMENT

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

Summary of the Doctoral Programs

<table>
<thead>
<tr>
<th>Major area</th>
<th>Doctor of Science</th>
<th>Doctor of Philosophy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>in Dentistry, Oral Biology or Nutritional Sciences</td>
<td>in either Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, or Physiology</td>
</tr>
</tbody>
</table>

SCHOOL OF GRADUATE DENTISTRY
<table>
<thead>
<tr>
<th>Minor area</th>
<th>Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, or Physiology</th>
<th>Oral Biology or Nutritional Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary enrollment in</td>
<td>School of Graduate Dentistry</td>
<td>Division of Medical and Dental Sciences, Graduate School of Arts and Sciences</td>
</tr>
<tr>
<td>Minor course requirements taken at</td>
<td>Division of Medical and Dental Sciences, Graduate School of Arts and Sciences</td>
<td>School of Graduate Dentistry</td>
</tr>
<tr>
<td>Training advisers from</td>
<td>Division of Basic Sciences and the Clinical Research Center, School of Graduate Dentistry; and the basic science faculty, Graduate School of Arts and Sciences</td>
<td>Basic science faculty, Graduate School of Arts and Sciences, and Division of Basic Sciences, School of Graduate Dentistry</td>
</tr>
<tr>
<td>Principle aim of program</td>
<td>Train individuals for careers in research and teaching.</td>
<td>Train individuals for careers in research and teaching of basic sciences in dental schools</td>
</tr>
<tr>
<td>Period of training</td>
<td>Three or more years</td>
<td>Three or more years</td>
</tr>
</tbody>
</table>
Administrative Policies

Admission

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

POSTDOCTORAL ADMISSION

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

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

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

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

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

5. Students applying from non-English-speaking nations are required to demonstrate an adequate reading, writing, and conversational knowledge of the English language. The International Student Center of Boston University arranges appropriate examinations for the applicant in the country of origin.

Grading System

The faculty has approved a grading system in which only PASS-FAIL marks are noted in the student's record. Instructors in individual courses, if requested, may advise the student as to his progress. The student is required and expected to express and maintain his interest and knowledge in his major field and allied subjects to the extent—both absolute and relative—expected by the faculty, public,
and the profession of those engaged in specialty practice, teaching, or research. In a general context, the specialist is the ultimate authority in his phase of dentistry in his locale of practice; his professional knowledge, judgment, and performance skills must therefore be superior and complete.

Promotion

A Committee on Promotion has the duty to review the eligibility of the student for advancement. This Committee also recommends to the Dean those who are eligible for the award of a certificate or degree. A student wishing to appeal a Committee decision is given an opportunity to appear before a special meeting held within two weeks of the Committee's action.

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

RULES GOVERNING PROMOTION

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

Absence

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

Registration

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

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

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

Tuition

Tuition per each academic year is $3700. It is to be paid in full at the time of registration either to Bursar's representatives or at the Office of the Bursar, 881 Commonwealth Avenue. Tuition deposits (as explained in the section on Admission) are credited to tuition charges. If financing is not arranged through other sources, students may finance through several payment plans. See following section on Deferred Payment.

Checks should be made payable to Boston University.

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

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

Service Charges

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

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

Deferred Payment

As a convenience to students and parents who wish to make payments on a monthly basis, the following agencies are available: Tuition Plan, Inc; the First National Bank of Boston offers Boston University Educational Loan Plan; the National Shawmut Bank of Boston offers the Educational Payment Plan and Tui-
tion Aid Program; Associates Tuition Program, Inc., offers a plan; and Richard C. Knight Insurance Agency, Inc., offers the Insured Tuition Payment Plan. Information may be obtained through the Bursar's Office of the University. Contracts for all full-time students or students under twenty-one years of age must have the signature of a parent or guardian.

The University also accepts Master Charge for the payment of tuition and fees up to the extent of the unused card credit limit.

Withdrawals and Refunds

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

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

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

Refund balances as a result of withdrawal and credit balances in a student's account resulting from overpayment or adjustments are paid either to the student or parent.
Financial Aid

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

Awards are not made prior to enrollment, but may begin at any time thereafter. The Financial Aid Committee will consider a scholarship request as soon as possible after it has been submitted. The applicant generally will be notified within a reasonable period thereafter, but in some cases consideration must be delayed until all requests have been received.

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

Bank Loans
The School has made arrangement with two local banks to facilitate loans made to students. Information concerning this is sent to the student prior to the time of registration.

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

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

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

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

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

Donald Mori, B.A., D.M.D., Cert., Chairman of the Department

This two-year program is designed to prepare the candidate with comprehensive knowledge in the fields of Restorative and Prosthetic dentistry. The clinical and laboratory skills in the major prosthetic areas of fixed partial, removable partial, and complete denture prostheses are emphasized. The department's scope has been expanded to include implant and maxillofacial prosthetics as well. Emphasis is placed on the periodontal integrity of the patient and the clinical requirements to assure oral health.

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

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

The curriculum in Clinical Restorative Dentistry includes:

Preclinical Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 701</td>
<td>Anatomy (head and neck)</td>
<td>1, second semester</td>
</tr>
<tr>
<td>SGD DE 702</td>
<td>Oral Biology</td>
<td>8, two semesters</td>
</tr>
<tr>
<td>SGD DE 703</td>
<td>Biology of Disease</td>
<td>8, two semesters</td>
</tr>
<tr>
<td>SGD DE 761</td>
<td>Biostatistics</td>
<td>1, second semester</td>
</tr>
</tbody>
</table>

Clinical Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 705</td>
<td>Oral Pathology</td>
<td>3, two semesters</td>
</tr>
<tr>
<td>SGD DE 760</td>
<td>Maxillofacial Prosthesis</td>
<td>1, first semester</td>
</tr>
<tr>
<td>SGD DE 763</td>
<td>Occlusion</td>
<td>3, two semesters</td>
</tr>
<tr>
<td>SGD DE 770</td>
<td>Implant Prosthesis</td>
<td>2, first semester</td>
</tr>
</tbody>
</table>

Major Clinical Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 811</td>
<td>Orthodontics</td>
<td>1, second semester</td>
</tr>
<tr>
<td>SGD DE 817</td>
<td>Prosthetic Dentistry (lecture)</td>
<td>2, two semesters</td>
</tr>
<tr>
<td>SGD DE 818</td>
<td>Crown and Bridge (seminar)</td>
<td>4, four semesters</td>
</tr>
<tr>
<td>SGD DE 819</td>
<td>Crown and Bridge (clinic)</td>
<td>4, four semesters and summer</td>
</tr>
</tbody>
</table>

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

School of Graduate Dentistry
Periodontology

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

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

The course of instruction in Periodontology includes:

**Preclinical Sciences**
- SGD DE 701 Anatomy (head and neck) *1, second semester
- SGD DE 702 Oral Biology 8, two semesters
- SGD DE 703 Biology of Disease 8, two semesters
- SGD DE 706 Pharmacology 2, two semesters
- SGD DE 709 Periodontal Pathology 4, two semesters
- SGD DE 710 Periodontal Pathology 2, two semesters

**Clinical Sciences**
- SGD DE 705 Oral Pathology 4, two semesters
- SGD DE 759 Anesthesiology 2, two semesters
- SGD DE 763 Occlusion 2, two semesters
- SGD DE 770 Implant Prosthesis 2, two semesters
- SGD DE 771 Occlusal Waxing Laboratory Eight weeks

**Major Clinical Sciences**
- SGD DE 805 Periodontology (lecture) 4, two semesters
- SGD DE 806 Periodontology (seminar) 2, two semesters
- SGD DE 807 Periodontology (clinic) Two semesters
- SGD DE 808 Periodontology (lecture) 2, two semesters
- SGD DE 809 Periodontology (seminar) Twelve months
- SGD DE 810 Periodontology (clinic) 1, second semester
- SGD DE 811 Orthodontics Two semesters
- SGD DE 836 Treatment Planning Seminars 1, second semester
- SGD DE 837 Environment and Presurgical Periodontology 1, second semester
- SGD DE 840 Endodontics Twenty-one months
- SGD DE 850 Special Lecture Series for Students in Periodontology

**Research**
- SGD DE 921 Periodontology (approved investigation and successful defense of thesis) 12, four semesters and summer
Endodontics

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

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

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

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

The program in Endodontics is as follows:

Preclinical Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 701</td>
<td>Anatomy (head and neck)</td>
<td>1</td>
</tr>
<tr>
<td>SGD DE 702</td>
<td>Oral Biology</td>
<td>8</td>
</tr>
<tr>
<td>SGD DE 703</td>
<td>Biology of Disease</td>
<td>8</td>
</tr>
<tr>
<td>SGD DE 706</td>
<td>Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td>SGD DE 713</td>
<td>Pulp Biology</td>
<td>2</td>
</tr>
<tr>
<td>SGD DE 761</td>
<td>Biostatistics (elective)</td>
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Clinical Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 705</td>
<td>Oral Pathology</td>
<td>4</td>
</tr>
<tr>
<td>SGD DE 770</td>
<td>Implant Prosthesis</td>
<td>2</td>
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</table>

Major Clinical Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 814</td>
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<tr>
<td>SGD DE 815</td>
<td>Endodontics (seminar)</td>
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<tr>
<td>SGD DE 816</td>
<td>Endodontics (clinic)</td>
<td>4</td>
</tr>
<tr>
<td>SGD DE 817</td>
<td>Prosthetic Dentistry</td>
<td>2</td>
</tr>
<tr>
<td>SGD DE 835</td>
<td>Periodontology</td>
<td>2</td>
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</tbody>
</table>

Research

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 941</td>
<td>Endodontics (approved investigation and successful defense of thesis)</td>
<td>12</td>
</tr>
</tbody>
</table>

Pedodontics

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

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

Participants in the two-year program are provided with the necessary clinical experience and formal study to diagnose and treat any oral health problem within the pediatric age group. The following areas of competence are stressed in Pedodontics: preventive dentistry, growth and development, orthodontics, specialized

*Arabic numeral preceding the semester indicates number of semester credits for each course.
operative and prosthodontic techniques, pulp therapy in the primary and immature permanent dentitions, periodontology, and child management. In order that the techniques discussed in lectures, seminars, and demonstrations be directly applied to the patient, pertinent clinical operations are performed upon carefully selected children.

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

The course of study in Pedodontics includes:

**Preclinical Sciences**
- SGD DE 701 Anatomy (head and neck) .......................... *1, second semester
- SGD DE 702 Oral Biology ........................................... 8, two semesters
- SGD DE 761 Biostatistics ........................................... 1, second semester

**Clinical Sciences**
- SGD DE 705 Oral Pathology .......................................... 3, two semesters
- SGD DE 759 Anesthesiology ........................................ 1, second semester
- SGD DE 762 Pediatric Medicine ................................. 2, two semesters

**Major Clinical Sciences**
- SGD DE 826 Public Health Dentistry .............................. 3, second semester
- SGD DE 828 Pedodontics (lecture) ............................... 4, four semesters
- SGD DE 829 Pedodontics (seminar) ............................... Four semesters
- SGD DE 830 Pedodontics (clinic and hospital) .............. Four semesters and summer
- SGD DE 834 Periodontology ......................................... 2, second semester
- SGD DE 838 Orthodontics (lecture) ............................. 2, two semesters
- SGD DE 839 Orthodontics (clinic) ............................... Four semesters

**Research**
- SGD DE 951 Pedodontics (approved investigation and successful defense of thesis) .................. 12, four semesters and summer

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**Orthodontics**

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

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

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

*Arabic numeral preceding the semester indicates number of semester credits for each course.*
clinical observations and all other means available to modern orthodontics.

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

The courses of instruction in Orthodontics are as follows:

<table>
<thead>
<tr>
<th>Preclinical Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 701 Anatomy (head and neck)</td>
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<tr>
<td>SGD DE 702 Oral Biology</td>
</tr>
<tr>
<td>SGD DE 761 Biostatistics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Clinical Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 705 Oral Pathology</td>
</tr>
<tr>
<td>SGD DE 762 Pediatric Medicine</td>
</tr>
<tr>
<td>SGD DE 763 Occlusion</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Major Clinical Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 812 Orthodontics (lecture)</td>
</tr>
<tr>
<td>SGD DE 813 Orthodontics (clinic)</td>
</tr>
<tr>
<td>SGD DE 835 Periodontology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 931 Orthodontics (approved investigation and successful defense of thesis)</td>
</tr>
</tbody>
</table>

**Oral Surgery**

Donald F. Booth, D.M.D., *Chairman of the Department*

The Oral Surgery program is a three-year postdoctoral certificate program specifically designed to satisfy the training requirements of the American Board of Oral Surgery and the Council on Dental Education of the American Dental Association. This is a joint program sponsored by the School of Graduate Dentistry and University Hospital. The program has affiliations with Cushing General Hospital in Brockton, Massachusetts and Kennedy Memorial Hospital in Brighton, Massachusetts.

The program incorporates into the three years hospital training, basic science study, and research in an integrated fashion. Adequate research facilities are available and a Master of Science Degree in Dentistry is available to interested residents. Each resident is expected to engage in research or produce a paper for publication during his training.

During the first year, the resident spends most of his time on the Oral Surgery Service of University Hospital. He is taught to manage oral surgery problems on both an in-patient and out-patient basis. He is given operating room instruction, performs minor oral surgery, and assists on major oral surgery cases. Frequent seminars are given in oral surgery, anesthesia, anatomy, oral pathology, and physical diagnosis. The first-year resident participates in out-patient general anesthesia and emergency room care. Two months are spent on rotation through the Department of Pathology at University Hospital, one month is spent on the Oncology Service of the Hospital, and one month in Medicine at Boston City Hospital. There is a two month rotation in Anesthesiology.

The second year consists of a two-month rotation through the Department of
Anesthesiology of the Hospital, and two months are spent on the Surgery Service. During the second year the resident has a two-month rotation on the Oral Surgery Service at Boston City Hospital and spends the remaining six months on the Oral Surgery Service at University Hospital.

The Oral Surgery program prepares the student to perform all phases of minor and major oral surgery. Impactions, cysts, benign and malignant tumors, orthodontic-surgery, trauma, cleft palates, and facial deformities are only a few of the varied conditions that the residents learn to deal with first hand. The program is limited to two new candidates each year.

The Oral Surgery program includes the following courses:

### Preclinical Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 701</td>
<td>Anatomy (head and neck)</td>
<td>3</td>
<td>second semester</td>
</tr>
<tr>
<td>SGD DE 702</td>
<td>Oral Biology</td>
<td>8</td>
<td>two semesters</td>
</tr>
<tr>
<td>SGD DE 703</td>
<td>Biology of Disease</td>
<td>8</td>
<td>two semesters</td>
</tr>
<tr>
<td>SGD DE 705</td>
<td>Oral Pathology</td>
<td>3</td>
<td>two semesters</td>
</tr>
<tr>
<td>SGD DE 706</td>
<td>Pharmacology</td>
<td>2</td>
<td>first semester</td>
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### Clinical Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 752</td>
<td>Physical Diagnosis</td>
<td>1</td>
<td>two semesters</td>
</tr>
<tr>
<td>SGD DE 756</td>
<td>Clinical Surgery Seminar</td>
<td>2</td>
<td>two semesters</td>
</tr>
<tr>
<td>SGD DE 758</td>
<td>Clinical Oral Surgery Conferences</td>
<td>2</td>
<td>Two semesters</td>
</tr>
<tr>
<td>SGD DE 759</td>
<td>Anesthesiology</td>
<td>1</td>
<td>first semester</td>
</tr>
<tr>
<td>SGD DE 760</td>
<td>Maxillofacial Prosthesis</td>
<td>1</td>
<td>first semester</td>
</tr>
<tr>
<td>SGD DE 767</td>
<td>Radiology</td>
<td>1</td>
<td>second semester</td>
</tr>
<tr>
<td>SGD DE 770</td>
<td>Implant Prosthesis</td>
<td>2</td>
<td>first semester</td>
</tr>
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### Major Clinical Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 801</td>
<td>Oral Surgery (lecture)</td>
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<td>two semesters</td>
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<tr>
<td>SGD DE 802</td>
<td>Oral Surgery (seminar)</td>
<td>2</td>
<td>Two semesters</td>
</tr>
<tr>
<td>SGD DE 803</td>
<td>Oral Surgery (clinical assignments)</td>
<td>2</td>
<td>Two semesters</td>
</tr>
<tr>
<td>SGD DE 804</td>
<td>Oral Surgery Laboratory</td>
<td>2</td>
<td>Two semesters</td>
</tr>
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### Research

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 961</td>
<td>Oral Surgery (approved investigation and successful defense of thesis)</td>
<td>12</td>
<td>four semesters and summer</td>
</tr>
</tbody>
</table>

## Oral Pathology

Henry M. Goldman, D.M.D., F.A.C.D., F.I.C.D., Chairman of the Department  
John F. Richardson, B.A., D.D.S., D.Sc.D., Associate Chairman

The Doctor of Science in Dentistry program in Oral Pathology is of three years duration and satisfies the educational requirements of the American Board of Oral Pathology.

During the course of study, the student will serve for one year as a full-time fellow in general pathology in an anatomic pathology service of the Boston University Medical Center. The subsequent two years will be devoted to completion of a course of study in the School of Graduate Dentistry which will encompass both oral pathology and subjects in oral biology, medicine and surgery which are integral with this discipline.

The Department of Oral Pathology maintains an active biopsy service and the

*Arabic numeral preceding the semester indicates number of semester credits for each course.*
student is encouraged to develop considerable responsibility in this area; a
registry is maintained for additional experience in diagnostic microscopy.
Research leading to a thesis is a requirement of the program and this activity is
commenced in the second year of study.
In the clinical area, the relationship between the Department and the oral
surgery service allows for clinicopathologic correlations of interesting cases;
further experience may be gleaned from the patient services of University and
Boston City Hospitals.

The course of study in Oral Pathology includes:

Preclinical Sciences
SGD DE 700 Pathology—University Hospital ........................................ Two semesters
and summer
SGD DE 701 Anatomy (head and neck) .............................................. *1, second semester
SGD DE 702 Oral Biology ................................................................. 8, two semesters
SGD DE 703 Biology of Disease ......................................................... 8, two semesters
SGD DE 705 Oral Pathology ................................................................. 5, two semesters
SGD DE 709 Periodontal Pathology ...................................................... 4, two semesters
SGD DE 712 Oral Histopathology (laboratory) ..................................... Two semesters
SGD DE 761 Biostatistics ................................................................. 1, second semester

Clinical Sciences
SGD DE 767 Radiology ................................................................. 1, second semester

Major Clinical Sciences
SGD DE 801 Oral Surgery (lecture) ...................................................... 2, two semesters
SGD DE 802 Oral Surgery (seminar) ..................................................... Two semesters
SGD DE 825 Oral and General Pathology ........................................ 10, four semesters
and summer

Research
SGD DE 981 Oral Pathology (approved investigation and
successful defense of thesis) ............................................................... 12, four semesters
and summer

Public Health and Community Dentistry
Anthony Jong, D.D.S., M.P.H., Chairman of the Department
The program in dental public health is designed to provide the student with a
broad background of knowledge as well as practical experience in health care
delivery. The two-year program leads to a master's degree and will prepare a
dentist for a career in public health.

The student will take courses at the School of Graduate Dentistry as well as
relevant courses in other graduate schools of the University. The courses will form
the matrix around which directed field activities will be superimposed. Students
will be able to actively participate in community health programs and thus gain
experience in the day-to-day administration of ongoing programs. Students will
also have an opportunity to instruct undergraduate dental students, and improve
skills in curriculum design and teaching.
Emphasis will be placed on: leadership skills; social and cultural determinants
of health behavior; preventive dentistry; and dental health education. Students will
have the opportunity to conduct a research study and publication of papers in
professional journals will be encouraged. In addition to course work and field
experience in the administration and management of dental programs students
will be involved in clinical activities so as to increase their ability to direct dental care programs. Courses in oral diagnosis; oral pathology; and basic sciences in clinical specialties will be available in electives.

The three-year doctoral program is designed for students who have a greater interest in entering a full-time academic career. This program will permit the student to take additional graduate courses at the various schools of the University, e.g., School of Public Communication, School of Education, College of Business Administration, etc. In addition a thesis will be required. It is expected that a graduate of the three year program will be a competent educator, administrator, and clinician who can take a leadership role in the dental profession.

The course of study in Public Health Dentistry includes:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 705</td>
<td>Oral Pathology</td>
<td>3, two semesters</td>
</tr>
<tr>
<td>SGD DE 761</td>
<td>Biostatistics</td>
<td>1, second semester</td>
</tr>
<tr>
<td>SGD DE 764</td>
<td>Psychiatry</td>
<td>1, two semesters</td>
</tr>
<tr>
<td>SGD DE 826</td>
<td>Public Health Dentistry</td>
<td>3, second semester</td>
</tr>
<tr>
<td>SGD DE 827</td>
<td>Preventive Dentistry</td>
<td>4, four semesters</td>
</tr>
<tr>
<td>SGD DE 831</td>
<td>Principles of Epidemiology</td>
<td>3, second semester</td>
</tr>
<tr>
<td>SGD DE 832</td>
<td>Public Health Administration</td>
<td>3, second semester</td>
</tr>
<tr>
<td>SGD DE 833</td>
<td>Environmental Health</td>
<td>3, second semester</td>
</tr>
<tr>
<td>SGD DE 991</td>
<td>Public Health Dentistry (approved research) and successful defense of thesis</td>
<td>12, four semesters</td>
</tr>
</tbody>
</table>

Anesthesiology
Benjamin Kripke, M.D.

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

Oral Biology Program
Louis C. Filious, A.B., M.S., Sc.D., Director
Morris P. Ruben, B.Sc., D.D.S., Chairman of Oral Biology and Professor of Stomatolgy

This program is actually designed around the two doctoral programs (Doctor of Philosophy and Doctor of Science), described on pages 43-47. As indicated, the primary enrollment for the Ph.D. program is through the Graduate School whereas the D.Sc. Program is in the School of Graduate Dentistry. The Ph.D. program offers a degree in Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, or Physiology, with the minor area of concentration in Oral Biology.

The Division of Basic Sciences represents the School's organizational unit as related to research. The Division occupies at present one entire floor of the School's main building and its laboratories are engaged in a number of research activities—cardiovascular disease; carcinogenesis; dental caries; diabetes; effects of drugs, diet, and other agents; growth and development; nutritional biochemistry; osteogenesis; periodontal disease; etc. These and other activities are carried

*Arabic numeral preceding the semester indicates number of semester credits for each course.
out in modern laboratories utilizing advanced chemical and morphological techniques. The senior faculty in charge of the laboratories hold joint appointments with the School of Medicine and the Graduate School through the Division of Medical and Dental Sciences. Graduate students, including several holders of dental degrees, are now engaged in research within these laboratories or affiliated laboratories at the Medical Center. The Division works closely with all the basic science departments of the Medical Center to provide the best possible training. Therefore, individuals accepted into one of the doctoral programs may carry out their research in any of the research laboratories in the Schools of Graduate Dentistry and Medicine.

The Doctor of Science program offers a doctoral degree in Oral Biology with a minor concentration in one of the above basic science fields. This program can be subdivided into several phases: course work in the biological and medical sciences; advanced orientations, via lecture, seminar, and individual study, in Oral Biology; special studies and laboratory/clinical experience in areas of special importance for development of the student's research talents and interests; clinical training in an advanced area of dentistry. Such a program can be developed for each individual with the direct assistance of faculty advisers in the biological and specialized clinical areas of dentistry so as to conform as fully as possible to the interests and needs of the candidate for his career development. The program must be designed to meet and discharge satisfactorily the standards established by the faculty of the School and University and professional and state accreditation organizations for the practice of dentistry.

A typical program may be:

**First Year:** courses (didactic and laboratory— in basic and biomedical sciences. For example, graduate courses in pathology and oral pathology, oral biology, biology of disease, nutrition, biochemistry, microbiology, pharmacology); seminars in oral biology; and research.

**Second Year:** advanced seminars in oral biology; specialized instruction and experience in research methodology; research; clinical dental science courses.

**Third Year:** research and thesis; comprehensive examination; clinical dental science lectures; with advanced clinical training designed for a clinical research career.

The student, in collaboration with his Oral Biology faculty adviser will choose his area of clinical interest either prior to or during his first semester of graduate studies; the faculty prefers that this decision be made prior to admission to the program. It should be emphasized that the candidate must fulfill the academic and professional requirements of the University, the Council on Dental Education of the American Dental Association, and the certifying board of the dental specialty if he also wishes to receive the Certificate of Advanced Graduate Study in the major clinical subject.

A Summer Research Opportunities Program is also available for undergraduate dental students. This ten-week program is offered during the summer and includes a special course (SGD DE 714 Recent Advances in Oral Biology).

Information regarding predoctoral or postdoctoral research training, as well as financial assistance, can be obtained from the office of the Director of the Division of Basic Sciences or the office of the Assistant Dean for Graduate Programs, 100 East Newton Street, Boston, Mass. 02118.
Nutritional Sciences Program

Louis C. Fillios, A.B., M.S., Sc.D., Chairman of the Department

The Department offers programs of study for individuals interested in academic and research careers in Nutrition. Students accepted into the Master of Science or the Doctor of Science programs in Nutritional Science can fulfill their major course and research training requirements in the School of Graduate Dentistry and their minor requirements in one of the related basic sciences (Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, or Physiology) through the Division of Medical and Dental Sciences of the Graduate School. On the other hand, students interested in the Ph.D. program can enroll through one of the basic science departments of the Graduate School for their major course requirements (Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, or Physiology) and can fulfill their minor requirements in Nutritional Science at the School of Graduate Dentistry where they also may carry out their research.

The Department also offers courses to students enrolled in any of the School's graduate clinical or predoctoral programs. Aside from the recognized importance of Nutritional Science in dental education, these offerings are designed to help to integrate more effectively basic science knowledge with health and disease. An emphasis is also placed on using this knowledge toward establishing improved relationships with, and understanding of the total health of, patients.

The programs in Nutrition include the following required and elective courses. A minimum of 48 credits is required for the Doctor of Science program; 32 credits for the Master of Science program.

Preclinical Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 704</td>
<td>Biochemistry and Nutrition</td>
<td>2,*</td>
<td>two semesters</td>
</tr>
<tr>
<td>SGD ME 784</td>
<td>Selected Topics in Nutrition</td>
<td>2</td>
<td>second semester</td>
</tr>
<tr>
<td>SGD DE 707</td>
<td>Seminars in Nutrition</td>
<td>2</td>
<td>two semesters</td>
</tr>
<tr>
<td>SGD DE 702</td>
<td>Oral Biology (elective)</td>
<td>8</td>
<td>two semesters</td>
</tr>
<tr>
<td>SGD DE 703</td>
<td>Biology of Disease (elective)</td>
<td>8</td>
<td>two semesters</td>
</tr>
<tr>
<td>SGD DE 761</td>
<td>Biostatistics</td>
<td>1</td>
<td>second semester</td>
</tr>
</tbody>
</table>

Listed in Required and elective courses through the Division of Graduate Medical and Dental Sciences of the Graduate School (Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, or Physiology) A minimum of 12 credits for the Master of Science; 18 credits for the Doctor of Science

Clinical Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>SGD DE 709</td>
<td>Nutrition Counseling in Dentistry (elective)</td>
<td>2</td>
<td>two semesters</td>
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</tbody>
</table>

Research

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 711</td>
<td>Research in Nutrition</td>
<td></td>
<td>A minimum of 12 credits for the Master of Science; 18 credits for the Doctor of Science</td>
</tr>
</tbody>
</table>

*Arabic numeral preceding the semester indicates number of semester credits for each course.
SGD DE 700. Pathology—University Hospital. Full year in general pathology at University Hospital. Participation in gross necropsy procedures and completion of subsequent pathological reports. Full duties of intern in pathology providing knowledge of every aspect of general and specialized pathology. Correlation of the normal and pathological processes to the field of oral pathology. Dr. Balogh

Hours to be arranged; two semesters and summer


48 hours lab (Oral Surgery residents); 16 hours lecture (other students); second semester

SGD DE 702. Oral Biology. Comprehensive consideration of the origins, structure, and functions of the orofacial complex. After a review of essential and fundamental biologic data, strong emphasis is placed upon those updated concepts which bear upon and which are considered significant in the research and clinical aspects of dentistry. Included are discussions relative to cell biology and cytopathology; epithelial structure and behavior with normalcy and under stressful conditions; connective tissue organization and biochemistry; epithelial-mesenchymal interactions; genetics and the consequences of genetic error; bone—including such facets as mineralization, osteogenesis, and bone induction; healing of wounds; development and relationships of vascular and lymphatic systems; chemistry and physiology of saliva; the temporomandibular joint in static and dynamic states; speech and speech defects of local and central nervous system origins; mastication and swallowing; nutrition; oral microbiology. Core course required of all students in the School. Dr. Ruben and staff

4 hours per week, two semesters

SGD DE 703. Biology of Disease (Dental). Core course for all students in the School designed to review and subsequently update and collate the basic sciences as they pertain to the clinical practice of dentistry and medicine. Intensive consideration given to such areas as the anatomy, physiology, pathology, and clinical manifestations of dermatologic and mucosal disease; correlation of basic and diagnostic microbiology with clinical aspects of infectious diseases; the foundations of diagnosis and the treatment of allergic and hypersensitivity reactions; the hemopoietic system and its afflictions; respiratory and cardiovascular lesions of significance in dental and specialty practice; metabolic and endocrine physiology and diseases; bone and connective tissue lesions; neural system and neuropathology; oncology and tumor-like conditions. Staff

4 1/2 hours per week, two semesters

SGD DE 704. Biochemistry and Nutrition. This course is designed to serve two major purposes: (a) to review and update basic concepts of biochemistry as a means of preparing for the advanced didactic material in clinical courses; and (b) to instill a better understanding of the importance of basic principles in nutrition as a means of establishing
improved patient care. During the fall semester, the topics will include: cell biochemistry; basic concepts in nutrition; protein metabolism; regulations and adaptations as related to nutrition; biochemical and nutritional basis of growth and development; diseases of nutritional origin; biochemical aspects of cancer; lipid metabolism and atherosclerosis; mineral metabolism and hard tissue biochemistry; and practical nutritional considerations for patient care. During the months of January and February, special tutorials on practical nutrition will be arranged. Dr. Fillios

SGD DE 705. Oral Pathology. Lectures, laboratory exercises, and clinico-pathologic conferences correlating the clinical and microscopic attributes of dental, periodontal, pulpal, and periapical lesions, followed by detailed consideration of cysts and tumors of odontogenic and non-odontogenic origin, benign and malignant neoplastic processes as they affect the oral and perioral tissues, and the inflammatory and dystrophic lesions of the hard and soft oral tissues. Correlated to the courses in Oral Medicine, Oral Surgery, Periodontal Pathology, etc. Drs. H. Goldman, K. Balogh, M. Ruben, J. Richardson, staff
48 hours lecture, 96 hours lab, two semesters

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

SGD DE 707. Seminars in Nutrition. Selected topics related to recent advances in nutrition research and practice with an emphasis on oral biology during the second semester. Dr. Fillios, staff
One hour per week, two semesters

SGD DE 708. Nutrition Counseling in Dentistry. This course is designed to provide the clinician with up-to-date information related to nutritional origin of certain oral diseases and the validity of therapeutic approaches. Included in the presentation will be procedures for evaluation of the nutritional status of the patient as well as the necessary diagnostic tests. Dr. Fillios, staff
Hours to be arranged, two semesters

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

SGD DE 710. Periodontal Pathology. Series of lectures and lab exercises for second-year students in Periodontology and Oral Pathology, presenting advanced concepts in periodontal and related oral embryology, histology, physiology, and pathology. Detailed attention also to the structure, physiology, and pathology of the temporomandibular joint and masticatory musculature and the application of basic and preclinical sciences to periodontal diagnosis and therapeutics. Dr. Ruben
48 hours, two semesters

SGD DE 711. Research in Nutrition. The Department of Nutritional Sciences has available research laboratories and animal quarters to carry out a wide variety of research projects related to nutrition; the School of Graduate Dentistry building alone has approximately 4,500 net square feet of space devoted to modern fully equipped laboratories for biochemical and morphological studies. Arrangements can also be made with other laboratories here at the Medical Center to use specialized facilities and equipment. Selected preceptors
SGD DE 712. Oral Histopathology Laboratory. Lab program designed for the student of oral pathology which includes seminars and lab experience in the preparation of tissue specimens for macro- and microexamination. Dr. Goldman, Mr. Bloom

Hours to be arranged, two semesters

SGD DE 713. Pulp Biology. Designed to familiarize Endodontic graduate students with the continuous relationship of the vital pulp with tooth development behavior. In addition, discussion format acts as a stimulus to research thoughts in pulpal relationship to patient symptomatology. Dr. Pyner

32 hours, two semesters

SGD DE 714. Recent Advances in Oral Biology. Current research related to oral biology preceded by a review of each of the areas. Course divided into sections so that approximately four hours are devoted to each area (anatomy, biochemistry, methodology, microbiology, nutrition, pathology, pharmacology, and physiology). Open to predoctoral dental school students enrolled in the special Summer Research Opportunities Program as well as to any student in the School. Drs. Fillios, Stallard, Wells, staff

32 hours, summer

SGD DE 752. Physical Diagnosis. Instruction for students in Oral Surgery in techniques of various bodily examinations, their interpretation, and subsequent collation for effective diagnosis and treatment of oral disease. Dr. Boyer

18 hours, two semesters

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

32 hours, two semesters

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

32 hours, two semesters

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

16 hours, second semester

SGD DE 760. Maxillofacial Prosthesis. Lectures illustrated by slides of actual cases devoted to the indications and techniques for the prosthetic reconstruction of lost or damaged oral and facial tissues. Staff

16 hours, first semester

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

16 hours, second semester

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

32 hours, two semesters

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

48 hours, two semesters

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

SGD DE 767. Radiology. Lectures and demonstrations on principles of dental and oral radiographic techniques and interpretation as necessary aids to diagnosis and treatment planning. Application of radiotherapy to oral disease amelioration and cure additionally emphasized. Staff 16 hours, second semester

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

SGD DE 769. Preventive Medicine. Lecture series stressing such subjects as (1) nature of the social and environmental factors responsible for initiation, dissemination, perpetuation, and modification of disease, (2) measures necessary to ameliorate, control, and minimize their impact upon the individual and the community, (3) management and rehabilitation of patients with physical impairment, (4) nature and operation of public health agencies. Dr. French, staff 32 hours, two semesters

SGD DE 770. Implant Prosthesis. Rationale, indications, technique, postoperative appraisal of subperiosteal, unilateral, and full implant prosthesis. Staff 32 hours, first semester

SGD DE 771. Occlusal Waxing Laboratory. Visual and dextrous realization of the didactic study of occlusion. Ideal and aberrant occlusions mounted and adjusted via selective grinding exercises. Drs. Nevins, Skurow 16 hours, 8 weeks

SGD DE 801. Oral Surgery. Lectures covering clinical and correlated radiographic and histopathologic aspects of oral deformities, fractures, and disease processes amenable to surgical therapy. Indications and applicability of various surgical techniques for correction of oral lesions discussed in detail. Drs. Booth, Harris, staff 96 hours, two semesters

SGD DE 802. Oral Surgery. Seminars designed for detailed exploration and discussion of selected aspects of oral pathology and their ameliorative or corrective therapy. Pertinent literature references applied to these discussions. Dr. Booth, staff 64 hours, two semesters

SGD DE 803. Oral Surgery. Observational experience in small groups relative to oral surgical procedures in operating rooms of University Hospital and other affiliated hospitals. Dr. Booth, staff 24 hours, two semesters

SGD DE 804. Oral Surgery Laboratory. Participation in oral surgery procedures under operating room conditions performed on laboratory animals. Experience also secured in anesthesiology and operating room methodology. Dr. Pierce, staff 96 hours lab, two semesters

SGD DE 805. Periodontology. Detailed study of the formation, clinical anatomy, microscopic structure, and physiology of the periodontium followed by discussion of the pathologic processes affecting their integrity. Attention to the etiology, epidemiology, and diagnostic essentials of periodontal disease. Second semester directed to discussion of the biologic bases of periodontal therapeutic modalities. Dr. Ruben, staff 96 hours, two semesters
SGD DE 806. Periodontology. Weekly seminars based on extensive literature readings in periodontology and related dental and basic services. Aim to provide the broad foundation necessary for practice and teaching. For first-year students. Dr. Kramer, staff
90 hours, two semesters

SGD DE 807. Periodontology. Clinical periodontal practice emphasizing the elements of complete case documentation, patient evaluation and examination, diagnosis, prognosis, and treatment planning. Complete periodontal therapy performed under staff guidance. For first-year students. Dr. Kramer, staff 204 hours, two semesters

SGD DE 808. Periodontology. Lecture series designed to present the concepts, criteria, and techniques relative to periodontia, diagnosis, prognosis, treatment planning, and therapy. Dr. Kramer, staff, visiting lecturers 80 hours, two semesters

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

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

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

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

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

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

SGD DE 815. Endodontics. Seminars based on intensive and comprehensive readings in the literature, covering each facet of endodontic diagnosis, prognosis, treatment planning, and therapy. Dr. Schilder, staff 96 hours, four semesters

SGD DE 816. Endodontics. Clinical participation in surgical and non-surgical phases of endodontic therapy; special attention given not only to development of clinical facility, but also the application of a therapeutic approach formed in consultation with the other dental specialties. Dr. Schilder, staff 1110 hours, four semesters and summer

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

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

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

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

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

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

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

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

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

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

SGD DE 827. Public Health Dentistry. Seminars reviewing literature pertinent to public health dentistry; emphasis on problems associated with prevention and control of dental and oral disease. Dr. Jong, staff Hours to be arranged, four semesters

SGD DE 828. Pedodontics. Lectures and seminars on the theory and practice of pedodontics. Factors related to treatment planning and measures for the control of oral disease in children discussed in great detail. Dr. Frankl, staff 192 hours, four semesters

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

SGD DE 830. Pedodontics. Supervised clinical and hospital experience in the total dental and oral care of the child and adolescent patient. Measures employed for caries control maintenance of periodontal health, restoration of missing members of the dentition, and for the correction of oral and dentofacial deformities. Dr. Frankl, staff Approximately 2000 hours, four semesters and summer
SGD DE 831. **Principles of Epidemiology.** Lectures on the principles, purposes, and methods of epidemiology. Laboratory exercises used to illustrate principles and methods of epidemiological investigations both of infections and noninfectious diseases. *Staff* Hours to be arranged, second semester

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

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

SGD DE 834. **Periodontology.** Special lecture series in periodontology for students in Pedodontics. Dr. Ruben 16 hours, second semester

SGD DE 835. **Periodontology.** Special lecture series in periodontology for students in Orthodontics, Prosthetics, and Endodontics. Dr. Ruben 32 hours, two semesters

SGD DE 836. **Treatment Planning Seminars in Periodontology.** Weekly case presentations followed by discussion of various alternatives in periodontal therapy and integrated dental disciplines. Drs. Nevins, Kramer, Skurow 120 hours, two semesters

SGD DE 837. **Environmental and Presurgical Periodontology.** Presentation of those adjuncts to periodontal therapy that either preclude or precede periodontal surgery. Methodologies of achieving proper tooth position and stabilization are included; emphasis placed on plaque control. Drs. Kramer, Nevins 70 hours, second semester

SGD DE 838. **Orthodontics.** Emphasis placed on growth and development, cephalometrics, diagnosis and treatment planning, and the evaluation of the normal and abnormal conditions that exist in the primary, early mixed, and late mixed dentitions. For students in Pedodontics. Drs. Drizen, Gamm 36 hours, two semesters

SGD DE 839. **Orthodontics (clinic).** Development of clinical expertise through practical application of principles developed in lecture and seminar. For students in Pedodontics. Drs. Drizen, Gamm 960 hours, four semesters

SGD DE 840. **Endodontics.** Basic concepts of endodontics as they relate to the other specialty areas of dentistry; emphasis placed on pathology of pulp and periapical tissues. Dr. Levin 30 hours, second semester

SGD DE 841. **Removable Partial Prosthesis.** Dr. Paraskis, *staff* 32 hours, two semesters

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

SGD DE 921. **Research—Periodontology.** Research in periodontology or its related preclinical sciences. Partial requirement for the Master of Science in Dentistry degree. *Selected preceptor*

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

SGD DE 951. Research—Pedodontics. Guidance provided for investigation which fulfills one of the requirements for the Master of Science in Dentistry degree. Research topic chosen from the preclinical and clinical subjects associated with pedodontics. Selected preceptor

SGD DE 961. Research—Oral Surgery. Preceptored investigation in oral surgery or related preclinical sciences designed to fulfill one of the requirements for the Master of Science in Dentistry degree. Selected preceptor

SGD DE 971. Research—Prosthetic Dentistry. Approved investigative effort partially satisfying requirements for the Master of Science in Dentistry degree. Research may involve preclinical and clinical subjects related to prosthetic dentistry. Selected preceptor

SGD DE 981. Research—Oral Pathology. Required investigation, needed as a partial requirement for the Master of Science in Dentistry degree, conducted in a basic subject related to oral pathology and oral medicine. Where a clinical project is conducted, a preclinical correlation is necessary. Selected preceptor

SGD DE 991. Research—Public Health Dentistry. Investigation necessary to satisfy requirement for the Master of Science in Dentistry degree; may include preclinical or clinical aspects of public health dentistry. In most instances an epidemiologic or biostatistical correlation is required. Selected preceptor
Courses in Other Schools of the University

Courses in Medical School

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

Courses in Graduate School

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

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

SGD ME 784. Selected Topics in Nutrition. Study of nutrition as an area of the biomedical sciences of particular interest to dentistry. Exploration of biological concepts as they may pertain to a better understanding of the nutritional implications in health and diseases. Particular attention paid to those areas of major interest in dental education. Dr. Fillios    Second semester

SGD ME 882. Research Seminars in Oral Biology. Selected topics on recent advances in various areas related to oral biology and dentistry. Dr. Wells, staff    Second semester
Program for Continuing Education

Herbert Schilder, D.D.S., F.A.C.D., F.I.C.D., Assistant Dean

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

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

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

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

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

Special announcements are issued periodically.
The dental assistant has become a necessity in the dental office. As the assistant's duties expand, the varied responsibilities become more challenging. Even now they range from office and patient management to chairside assisting.

To participate in the dental profession as a certified auxiliary personnel, individuals must train in a program accredited by the Council of Education of the American Dental Association. This training consists of one full year beginning the last week in June and the 3rd week of September. Pertinent background in the basic sciences and branches of dentistry are presented in lectures, seminars, and demonstrations. In addition, extensive clinical assisting experience is provided in all aspects of dentistry. Unique opportunities are offered by this program, since all of the didactic and clinical instruction is provided by specialists in each of the eight recognized specialties of dentistry.

Each student is rotated on assignments to the various clinical departments of the School of Graduate Dentistry. Other assignments include the operating rooms of University Hospital and the Health Clinic of the Town of Brookline, Out Patient departments of Kennedy Memorial Hospital, and Newton-Wellesley Hospital. This intensive clinical activity serves to make students proficient in all the assisting procedures involved in general dentistry: radiology, oral surgery, periodontics, endodontics, orthodontics, pedodontics; fixed partial prosthesis, and full and removable partial prosthesis. Basic laboratory techniques are taught and experience is gained in general office procedures.

Successful completion of the course awards the graduate a school cap, pin, and certificate and qualifies the student to take the examination for certification by the Certifying Board of the American Dental Assistants Association.

Requirements for Admission

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

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

3. A personal interview with the Director is required.

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

### PRECLINICAL SUBJECTS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Instructor</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGD DE 101, 201</td>
<td>Gross Anatomy and Physiology</td>
<td>Systems and functional activity of vital organs of the body.</td>
<td>Miss Cerullo</td>
<td>30 hours</td>
</tr>
<tr>
<td>SGD DE 103, 203</td>
<td>Dental Anatomy</td>
<td>Development and anatomy of the teeth and their supporting structures.</td>
<td>Dr. Murray</td>
<td>40 hours</td>
</tr>
<tr>
<td>SGD DE 104, 204</td>
<td>Dental Materials</td>
<td>Types, physical and working qualities, and clinical uses of materials used in dentistry.</td>
<td>Mrs. Cidado</td>
<td>35 hours</td>
</tr>
<tr>
<td>SGD DE 105</td>
<td>Microbiology and Sterilization</td>
<td>Principles of transmittal of common diseases and principal microorganisms infectious to man. Sterilization techniques and their significance to organisms.</td>
<td>Miss Cerullo</td>
<td>15 hours</td>
</tr>
<tr>
<td>SGD DE 106</td>
<td>Oral Hygiene and Preventive Dentistry</td>
<td>Principles of procedures to follow in order to maintain healthy teeth and supporting structures.</td>
<td>Staff</td>
<td>6 hours</td>
</tr>
<tr>
<td>SGD DE 118</td>
<td>Dental Terminology</td>
<td>Assignments and quizzes on glossaries of dental terms and the use of the medical dictionary.</td>
<td>Staff</td>
<td>10 hours</td>
</tr>
<tr>
<td>SGD DE 201</td>
<td>Pharmacology</td>
<td>Pharmacological properties, therapeutic application, and toxicities of various medicaments commonly used in dental practice.</td>
<td>Dr. Wells</td>
<td>10 hours</td>
</tr>
<tr>
<td>SGD DE 202</td>
<td>Oral Pathology</td>
<td>Structural and functional changes caused by various diseases in the oral cavity. Caries, pulpal, and apical pathology of the teeth and anomalies in growth and development as well as various lesions of the oral cavity and bone discussed.</td>
<td>Dr. Richardson</td>
<td>8 hours</td>
</tr>
<tr>
<td>SGD DE 203</td>
<td>Nutrition</td>
<td>Basic food groups and the elements needed for a well-balanced diet. Nutritional counseling is stressed.</td>
<td>Miss Cross</td>
<td>15 hours</td>
</tr>
<tr>
<td>SGD DE 109</td>
<td>Dental Health Education</td>
<td>Education of the patient in good oral hygiene. Assignments in the preparation of educational materials.</td>
<td>Miss Cerullo</td>
<td>15 hours</td>
</tr>
<tr>
<td>SGD DE 102</td>
<td>Ethics-Economics</td>
<td>History, ethics, and economics of dental assisting as related to the profession.</td>
<td>Miss Canley</td>
<td>20 hours</td>
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</table>

### CLINICAL SUBJECTS

<table>
<thead>
<tr>
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<th>Description</th>
<th>Instructor(s)</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>SGD DE 107</td>
<td>Radiology</td>
<td>Principles and techniques of intra-oral and extra-oral roentgenography. Demonstrations are important aspects of course.</td>
<td>Dr. Hodess</td>
<td>16 hours</td>
</tr>
<tr>
<td>SGD DE 212</td>
<td>Operative Dentistry</td>
<td>Topics discussed include caries, cavity classification and preparation, restorative and impression materials, instruments and techniques.</td>
<td>Dr. Skerman</td>
<td>15 hours</td>
</tr>
<tr>
<td>SGD DE 110</td>
<td>Endodontics</td>
<td>Diagnosis and treatment of pulpal disease and technique for root canal treatment.</td>
<td>Dr. Williams</td>
<td>10 hours</td>
</tr>
<tr>
<td>SGD DE 111</td>
<td>Prosthetics</td>
<td>Principles and techniques of the fabrication of full and partial prosthetic restorations. Discussion of the significance of crown and bridge prosthesis. Included are the instrumentation, materials, making of dies, supplies, and laboratory procedures.</td>
<td>Dr. Pameijer, Mrs. Cidado</td>
<td>12 hours</td>
</tr>
<tr>
<td>SGD DE 112</td>
<td>Periodontics</td>
<td>The character of the supporting structures of the teeth in health and disease.</td>
<td>Drs. Pollack and Dello-Russo</td>
<td>15 hours</td>
</tr>
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SGD DE 114, 214. Dental Assisting. Detailed course in general dental assisting procedures. *Staff* 20 hours

SGD DE 115, 215. Laboratory Instruction. Instruction demonstrations and practice of various laboratory procedures in prosthetic dentistry. *Mrs. Cidado* 45 hours

SGD DE 116, 216. Clinical Assignments. Chairside assisting in the specialty clinics of the School of Graduate Dentistry. *Staff* 1290 hours


SGD DE 205. Pedodontics. Techniques of dentistry as related to children. The psychology of the normal and exceptional child patient. *Dr. Kapala* 35 hours

SGD DE 206. Public Health Dentistry. Role of dental team in public health field. *Dr. Jong* 10 hours

RELATED SUBJECTS

SGD DE 119. First Aid. American Red Cross course. 10 hours

SGD DE 207. English. Fundamentals of business and professional English with added emphasis on grammar and diction. 10 hours

SGD DE 208. Practice Administration. The new patient discussed in relation to telephone technique, appointment making, examination procedures, and through the visits of consultation and treatment to the final visit of post-presentation. Aim is to bring satisfaction and enjoyment in the practice of dentistry to the dental auxiliary, the dentist, and the patient. *Dr. Altshuler* 10 hours

SGD DE 209. Bookkeeping. Introduction to basic bookkeeping principles including: instruction in bank deposits, withdrawals, and statements. *Miss Canley* hours

SGD DE 211. Applied Psychology. Psychology of the patient in relation to dentistry. 5 hours
In recognition of the increasing interdependence of medical education, medical research, and health service, the Boston University Medical Center was established in 1962. Operating semiautonomously, but as an integral part of the University, the Medical Center joins and consolidates the resources and activities of the Boston University School of Medicine, the Boston University School of Graduate Dentistry, and the University Hospital. Its affairs are managed by a Director and Trustee Council. The Director of the Medical Center also holds appointments as Academic Vice President at Boston University and as Executive Vice President of the University Hospital.

Organizationally, the Boston University Medical Center has a number of affiliates in addition to its three constituent members. These affiliates at present include Boston City Hospital, Boston State Hospital, Brockton Hospital, Carney Hospital, Framingham Union Hospital, Huggins Hospital, Jewish Memorial Hospital, Joseph P. Kennedy, Jr. Memorial Hospital, Malden Hospital, Massachusetts College of Pharmacy, Medfield State Hospital, Monadnock Community Hospital, James Jackson Putnam Children’s Center, Lemuel Shattuck Hospital, Douglas A. Thom Clinic for Children, U.S. Naval Hospital (Boston), U.S. Public Health Service Hospital (Brighton), and Veterans Administration Hospitals in Boston, Brockton, and Providence, Rhode Island.

Established for the broad purpose of promoting and maintaining better health in contemporary society, the Medical Center serves as the focus of Boston University’s health-related activities. As the modes and forms of health-care delivery proliferate, physicians, dentists, and other health-care professionals must learn how to practice in new settings and how to synthesize their experience to create new settings. Boston University Medical Center—along with the School of Nursing, Sargent College of the Allied Health Professions, the School of Social Work, and other Schools and Colleges of the University—will provide students with exposure to these new settings throughout their educational process.

**Trustee Council**

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<td>Gerhard D. Bleicken</td>
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<td>Richard P. Chapman</td>
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<td>Paul F. Hellmuth</td>
<td>Vice Chairman</td>
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<td>Sumner L. Feldberg</td>
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<td>Arthur G. B. Metcalf</td>
<td>Associate Secretary</td>
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<td>Richard D. Driscoll</td>
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<td>Bailey Aldrich</td>
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Administrative Staff

Richard H. Egdaahl, M.D., Ph.D., Director, Boston University Medical Center; Academic Vice President for Health Affairs, Boston University; Executive Vice President, University Hospital
Shirley I. Roy, Assistant to the Director
William Bronstein, Deputy Director
Ephraim Friedman, A.B., M.D., Associate Director of Medical Center; Dean, School of Medicine
Henry M. Goldman, D.M.D., F.A.C.D., F.I.C.D., Associate Director of Medical Center; Dean, School of Graduate Dentistry
John H. Betjemann, Administrator, University Hospital
James L. Dorsey, Planning Officer
Daniel I. Ross, Development Officer
Lawrence M. Strum, B.S., Communications Officer
Herbert D. Klein, B.S., Plant Superintendent
Robert N. Jordan, B.S., Business Manager for Medical Affairs
Daniel S. Bernstein, M.D., Program Director—Postgraduate Medical Education and Hospital Affiliations
Paul M. Gertman, M.D., Program Director—Health Services Development
John S. Gracey, B.A., M.S., LL.B., Program Director—Gerontology
Sol Levine, Ph.D., Program Director—Centers and Institutes
Constance C. Cornog, M.D., Health Officer
Donald R. Giller, Associate Communications Officer
David R. Fuller, Purchasing Officer
Irene Christopher, Librarian
James C. Crowley, Manager of Administrative Services
Boston University's undergraduate Schools and Colleges are on the banks of the Charles River one mile from the center of the city. The urban campus combines high-rise academic buildings and dormitories, traditional gothic structures, and the bow-fronted row houses for which Back Bay Boston is famous. Across town, the Boston University Medical Center is a complex of handsome new buildings containing the School of Medicine, School of Graduate Dentistry, and the affiliated University Hospital.

From the time it received its charter in 1869, Boston University has been a university without racial, religious, or similar restraints on the admission of students or the employment of faculty. The University has the distinction of graduating the first woman Ph.D. in this country as well as the first American Indian doctor, and of leading in the education of black teachers and doctors. Dr. Martin Luther King, Jr., developed his philosophy of non-violent protest while a graduate student at Boston University. The student body has for many years been divided almost evenly between young men and women, and the University has been a leader in attracting distinguished women faculty members. While nonsectarian, the University has always recognized the significance of religion. Marsh Chapel has regular nondenominational services. Newman House is a center for Roman Catholic students, Danielsen House provides working space for the Protestant chaplains to the University, and Hillel House is the center for Jewish students.

Boston is an international center of cultural and intellectual activity. The metropolitan area has a concentration of higher educational facilities unrivaled in the world. Boston University maintains a place of high distinction in this environment, contributing strongly to the intellectual and cultural life of Boston. The highest priority of the University today is the recruitment and retention of teacher-scholars who are fundamentally dedicated to teaching while maintaining their scholarly work; thirty-five such teacher-scholars have joined the faculty in the last two years. The University is developing numerous programs that cross the boundaries of disciplines among the Schools and Colleges and their various departments.

The Museum of Fine Arts and the Isabella Stewart Gardner Museum hold collections of art known throughout the world. The city's theatres are second only to New York in the variety of plays presented during the season. The Boston University Theatre, home of many student productions by the School of Fine and Applied Arts, is across the street from Symphony Hall where the Boston Symphony Orchestra and the "Boston Pops," conducted by Arthur Fiedler, regularly appear.

The School of Fine and Applied Arts offers a continuous program of plays, concerts, recitals, and gallery exhibitions. Student productions and performances are
regularly given both in Boston and New York, winning high praise from critics in both cities. On campus, the Division of Music sponsors nearly 150 recitals a year by advanced students and distinguished faculty members.

The student at Boston University is part of a city whose history is central to the history of this country and the development of its democratic institutions, a city whose present and future may again be models for the country.

Boston University has been an urban university from its beginning, growing and changing with the city, always deeply involved through faculty and students with the community. More than 1,000 students each year participate in the work of 140 Boston social and welfare agencies through the Student Volunteer Services organizations on campus. Students in the College of Basic Studies have for eight years had a "social concern" program, working with the aged, visiting hospitals and prisons.

Many research projects in the College of Liberal Arts are directly related to urban problems as part of a regular course. Metropolitan College offers bachelor's and master's degrees in urban affairs through a rapidly expanding program.

The Schools of Education and Public Communication have students regularly working with social and welfare agencies and city schools as part of their professional training. Students in the College of Business Administration help community organizations and agencies with management problems; one group, trained by the Internal Revenue Service, helps elderly citizens with their tax returns. The College of Engineering has developed new concentrations for undergraduates in such fields as urban engineering and environmental engineering, both of which involve work with real urban problems.

Students, graduate and undergraduate, in the professional schools participate in the urban community through clinical and field work under the direction of faculty members and through voluntary organizations.

School of Law students have a "public defender" program in Roxbury, and the Center for Criminal Justice has become nationally known for its studies and work on penal conditions and prison reform. The School of Medicine, in cooperation with the Schools of Nursing and Social Work and Sargent College of Allied Health Professions, is developing new techniques in the delivery of health care and preventive medicine, particularly in disadvantaged urban areas.

Housing for students at Boston University ranges from high-rise dormitories to small buildings in which up to 20 students with a common interest such as Spanish, Russian, or music live together. And in the large dormitories there is an expanding variety of social, cultural, and academic activities. Faculty members, for instance, lead seminars in the dorms on urban problems and similar questions, and students have created their own organizations in the large dorms for orientation of new students and social activities.

Intramural sports are an outstanding success at Boston University, with more than 5,000 students playing on organized teams each year. The leading intramural sports are touch football, basketball, and softball, including coed teams. There are also intramural teams in ice hockey, floor hockey, volleyball, soccer, and coed water polo. The Harold C. Case Physical Education Center provides an ice rink, Olympic swimming pool, and a gymnasium for the entire student body.

In intercollegiate athletics, Boston University is famed for its hockey team, taking the national championship in 1971 and 1972. The University is a member of the Yankee Conference for intercollegiate football and basketball. One of the fastest growing intercollegiate sports at Boston University is wrestling. Boston is a sports-minded city boasting the Red Sox in professional baseball; the Bruins,
Whalers, and Braves in hockey; the Celtics in basketball; and the New England Patriots in football.

Boston University students come from every state and from many foreign countries, and last year the College of Business Administration opened a graduate branch in Brussels offering a Master of Business Administration degree to European and American businessmen working in the city that has become the "capital" of the Common Market.

Boston University alumni are even more widely distributed over the country and the world. These alumni—many in such professions as teaching, nursing, business, law, dentistry, journalism, music, theatre, physical or occupational therapy, engineering, and medicine—have found a more meaningful personal life through their education, and through that education make a contribution to the whole society.

History of the University

The origin of Boston University is found in the action taken at a convention of New England friends of improved theological training held in Boston in April 1839. For the next twenty-eight years the School thus founded conducted its work at Newbury, Vermont and later at Concord, New Hampshire. In 1867 it was transferred to Boston where it was called the Boston Theological Seminary until it became the School of Theology of Boston University. On May 26, 1869, the Commonwealth of Massachusetts made Isaac Rich (1801–1872), Lee Claflin (1791–1871), Jacob Sleeper (1802–1889), and their associates and successors, "a body corporate forever" under the name of the Trustees of Boston University.

In establishing the University as a means of promoting learning, virtue, and piety in the useful and liberal arts and sciences, these founders were moved by a long series of American and English activities for higher education reaching back through a century or more to Lincoln College of Oxford University.

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

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

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

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

CHARLES RIVER CAMPUS

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

MEDICAL CENTER CAMPUS

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

LIBRARIES

The Mugar Memorial Library, opened in September of 1966, provides central library service to all students and faculty of Boston University. Reference services, the principal card catalogs, and current periodicals are on the first floor. The main book collections are on open shelves on floors two through six. A feature of the library is the audio listening area where music, drama, and poetry recordings are piped to tables with earphone jacks.

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

Other libraries on the campus containing specialized collections are those of the Schools of Law and Theology.

The central University Information Center is located in the front foyer of the first floor of the library.

THE GEORGE SHERMAN UNION

This modern complex has become the center of campus life for students, faculty, staff, alumni, and their guests. Whether it be to avail oneself of the food facilities, buy candy at the Sweet Shoppe, listen to a favorite recording in the Music Listening Room, browse in the University Bookstore, bowl, play billiards or other table games in the Games Area, or just relax, participants are invited to make use of these extensive facilities while they are at Boston University.

University-sponsored groups and organizations are able to reserve conference rooms for meetings and seminars as well as tables for the dissemination of informational literature. Films, lectures, and recitals are frequently held in the George Sherman Union.
Other facilities included in the Union are a ballroom, conference auditorium, dining areas, TV rooms, Program Resource Office, student organizational offices, Union Information Center, and a branch U.S. Post Office.

Special Academic Units

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

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

CENTER FOR APPLIED SOCIAL SCIENCE
The Center focuses upon problems of society and problems of change in small groups, organizations, and communities; institutions and social systems; and in the larger society. The application and utilization of knowledge from the social sciences to the solution of contemporary social problems is a salient interest of the Center. Some fellowship or assistantship support is available to candidates for advanced degrees in the social sciences or professional schools. Undergraduates may enter courses or special programs on application.

CENTER FOR LATIN AMERICAN DEVELOPMENT STUDIES
The Center offers a program of research and teaching with a strong emphasis on economics and comparative development. A one-year A.M. program in development economics is offered through the Department of Economics and a two-year interdisciplinary master's program in Latin American Development Studies is being developed. The current research program focuses on three areas: the problem of reaching full employment in Latin America; problems of private foreign investment and multinational corporations; and problems of sub-regional economic integration. Conferences and symposia in development economics and Latin-American topics are regular features of the Center's program.

CENTER FOR LAW AND HEALTH SCIENCES
An interdisciplinary, interinstitutional program of seminars and research projects is offered for qualified graduate- and professional-school students from educational institutions in the Boston area who are interested in health-related problems. Previous student and faculty participants have been drawn from Boston
University, Brandeis University, Harvard University, Massachusetts Institute of Technology, and Tufts University and have represented several fields including law, medicine, and the disciplines within the social, behavioral, and physical sciences.

Seminars have been conducted in the following subject areas: Child Development and Public Policy, National Health Insurance, Delivery of Medical Care Services, Eugenics and Population Policy, and Human Health and Environmental Decision Making. These or similar seminars are offered during each academic year.

CENTER FOR THE PHILOSOPHY AND HISTORY OF SCIENCE

The Center is devoted to research, academic programs, scholarly conferences, public education, and publications in the philosophy and history of the sciences. Programs and activities of the Center include the Boston Colloquium for the Philosophy of Science offering frequent public colloquia and special conferences with invited attendance; the Institute for Relativity Studies bringing together from several countries for research and teaching distinguished theorists in general relativity, cosmology and astrophysics, and philosophical foundations of space and time; special research conferences to stimulate interdisciplinary discussions and research; courses and seminars in the philosophy and history of science offered at both graduate and undergraduate levels in the Departments of Philosophy, History, Physics, Mathematics, Psychology, Biology, and Geography; international exchange programs involving a wide range of visiting professors from many foreign countries; publications derived from the Boston Colloquium and other work of the Center including major contributions to *Boston Studies in the Philosophy of Science*.

BOSTON UNIVERSITY MEDICAL CENTER

In recognition of the increasing interdependence of medical education, medical research, and health service, the Boston University Medical Center was established in 1962. Operating semiautomatically, but as an integral part of the University, the Medical Center joins and consolidates the resources and activities of the Boston University School of Medicine, the Boston University School of Graduate Dentistry, and the University Hospital. Its affairs are managed by a Director and Trustee Council. The Director of the Medical Center also holds appointments as Academic Vice President at Boston University and as Executive Vice President of the University Hospital. Established for the broad purpose of promoting and maintaining better health in contemporary society, the Medical Center at present has twenty affiliates in addition to its three constituent members.

Conference and Education Center

OSGOOD HILL

The Osgood Hill Conference Center is located in North Andover, Massachusetts, which is thirty miles north of Boston on Route 125. It is a 153-acre estate and is ideally organized to accommodate meetings and symposia. There are several large conference rooms and smaller functional rooms; facilities for overnight guests and meals are available.
Boston University provides a wide range of opportunities, services, and resources that supplement academic instruction. There is the whole field of cultural, political, religious, fraternal, and recreational activity in which student-initiated and University-assisted groups enliven and enrich the University and metropolitan community. Then, in the field of counseling, the University provides a variety of specialized professionals dedicated to assist students to meet their needs and solve their problems.

General administration of University life and services outside the classroom is assigned to the Director of Student Academic Support Services, whose office is located at 197 Bay State Road.

University Information Center
The University Information Center is maintained seven days a week, twenty-four hours a day, and is located in the entrance to the Mugar Library. It provides information regarding the students, faculty, and staff of Boston University. Up-to-date information is also available on meetings and conferences held throughout the campus on a daily basis.

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

COUNSELING CENTER
The Boston University Counseling Center exists to help students define and complete their academic goals and to live effectively in the University community and the world beyond. The following specific services are offered to Boston University students who are degree candidates:

1. Walk-in Counseling Service. Any student may be seen by walking into the Counseling Center between the hours of 10 a.m. and 4 p.m. daily, Monday through Friday, or by appointment from 9 a.m. to 5 p.m., Monday through Friday.
2. Testing Services. These include interest, aptitude, intelligence, and personality...
tests. Testing is always done in conjunction with counseling.

3. Occupational and Catalogue library. A library of undergraduate and graduate college catalogues and a file of occupational information are available to all Boston University students without cost.

4. Career Planning. The Counseling Center offers a career planning service which includes vocational counseling and testing of aptitudes, interests, intelligence, personality, and other factors related to appropriate vocational service.

5. Consultation. The Counseling Center offers consultation to groups of students in living units in such subjects as interpersonal relations, sex education, and drug usage.

6. Counseling Services. Both individual and group counseling are offered by appointment concerning problems with roommates, family, friends, course work, loneliness, depression, sexual concerns, and others.

The Counseling Center is located at 704 Commonwealth Avenue.

CAREER PLANNING AND PLACEMENT

The Office of Career Planning and Placement assists students in securing part-time or full-time employment. The latest information is available on occupations and employment opportunities, and a professional staff is on hand to advise on career planning and placement. An active campus interviewing program which hosts hundreds of representatives from business, education, government, social service, and the graduate schools is also developed to provide information and referral on a personal basis for the degree candidate in his last year of study. A student may receive assistance in the preparation of resumes and presentations, and credentials and references may be placed in deposit for the lifetime of the graduate. Use of the Office, as it pertains to full-time employment, is limited to those who have either matriculated for or earned their degrees from Boston University. The office is located at 195 Bay State Road.

PASTORAL COUNSELING

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

SPEECH AND HEARING CLINIC

Students with speech or hearing problems may obtain diagnosis, therapy, and guidance without charge. The clinic is located in the School of Education and serves as a training facility for graduates in communicative disorders.

Office of Veterans’ Affairs

This section of Student Academic Support Services is the official liaison between the University and all Selective Service System local boards and the various components of the Armed Services.

Students sponsored by the Veterans Administration or a branch of the Armed Services must be certified in advance of registration through this section. The Office of Veterans’ Affairs is located at 775 Commonwealth Avenue, West Tower.
Housing

Information regarding graduate housing may be obtained by writing directly to the Housing Service, 194 Bay State Road, Boston, Massachusetts 02215.

The University has a very limited amount of space for single men and women graduate students. Apartment facilities at 96 Bay State Road accommodate nine men students and twenty-eight women students. In addition, a small residence hall is available for women graduate students.

The University has apartments for housing married graduate students studying full time whose spouses, or spouses and children, are accompanying them to Boston. It is suggested that application be made at least six months in advance for September occupancy or two months in advance for Summer Term occupancy. Application forms and additional information will be sent upon request by writing to the Housing Service.

Health

To protect the health of its students, the University maintains a Division of Student Health which is responsible for all University health services. These include a daily medical and minor surgical clinic and medical supervision of recreational and athletic activities for full-time students.

CLINIC AND INFIRMARY

Full-time students with minor illnesses or injuries may use the services of the University's Clinic, 112 Cummington Street, and Infirmary, 277 Babcock Street. Unusual medication is charged to the student at cost. For more serious illness or surgery, the staff makes arrangements for students in the University Hospital, a unit of the Boston University Medical Center. General hospitalization costs are the responsibility of the individual student.

A student's accident and sickness medical insurance plan (1973-74 cost—$55) provides medical coverage for emergencies and unexpected illness which cannot be handled by the Clinic or Infirmary. The University recommends this protection unless a student is adequately covered by some other comparable hospital insurance program. All students are charged this fee but may sign a form to exempt them at the time of fall registration.

MENTAL HEALTH UNIT

A psychiatric team offers emergency care, evaluation, and short-term treatment to any full-time student in the University without charge. There is twenty-four-hour coverage. These services are completely confidential and all psychiatric records are separate from the general medical records.

Religious Ministries

MARSH CHAPEL

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

NEWMAN HOUSE
Newman House is the center for Catholic Ministry on campus offering celebration of liturgy, personal counseling with chaplains, and discussions about issues of faith and conscience in today's awareness. It is located at 211 Bay State Road.

HILLEL HOUSE
The Jewish Center on campus offers a diverse range of programs including one of the largest free Jewish universities in the world. In addition to three parallel forms of Jewish worship on Sabbaths and Holidays, Hillel also offers an Israeli Dance workshop, a 100-voice chorale, an extensive cluster of activities around peace/Soviet Jewry/Israel, and a full-time rabbi for counseling and conversation. It is located at 233 Bay State Road.

Student Volunteer Services
Student Volunteer Services attempts to match community needs with concerned college students able to meet these needs. The Service acts as a clearing house assisting students to find out where their skills and talents can best be used. It also sponsors and develops its own community-related programs. The office is in Room 411, George Sherman Union.

Celebrity Series
The Boston University Celebrity Series was founded to provide students, faculty, and staff of the University with the opportunity to hear the world's leading musical artists. Series tickets are available at special rates at the beginning of each academic year. Information may be obtained at the office of the School of Fine and Applied Arts.

Computing Center
The Computing Center operates an IBM 360/50 for instructional and research use throughout the campus. Access to the computer is by means of card decks or via typewriter terminals. The primary programming language for students is FORTRAN, though other computer languages are available. Procedures for using the computer system are described in the User's Guide to Batch Processing and Time-Sharing, on sale at the Bookstore.

The Computing Center is located in the Physical Sciences Building, 111 Commonwealth Street. The office is in Room 3, time-sharing terminals are located in Room 109, and Job Input/Output in Room 11. To use the computer system a student must obtain an account number from the Computing Center; this requires approval of a course instructor or faculty adviser. Courses requiring use of the computer are taught in several schools; a number of computer programming courses are taught in the evening through Metropolitan College and are open to undergraduates subject to the approval of the undergraduate college of registration.
International Student Office

The International Student Office, located in the George Sherman Union, Room 430, is the focal point for international student services and programs on campus. Approximately 550 students from 72 foreign nations enroll at Boston University annually. The staff provides advice and counseling to foreign students as they learn to adjust to campus life in a new culture. Special services for students and faculty from abroad include assistance with admissions requirements, visa eligibility, employment regulations, language difficulties, liaison with foreign governments and sponsoring organizations, and future plans. A fall orientation program is held each year to introduce arriving foreign students to Boston University and the surrounding community and to prepare them to meet a wide variety of new academic and cultural experiences. A volunteer "host-family" program provides many foreign students contact with an American family which can help ease adjustment to living in the U.S. The ISO maintains close cooperation with the International Student House at 481 Commonwealth Avenue which provides a campus residence for some 60 foreign and American students each year. Under the auspices of this office, student leaders organize programs and activities with an ethnic or international theme to which all members of the University community are welcome.
Graduate Programs
within the University

Graduate programs are offered by fourteen Schools and Colleges of the University. A separate bulletin for each of these Schools and Colleges is published containing detailed descriptions of the various programs. Specific inquiries regarding courses of study should be addressed to the individual School or College.

College of Business Administration
The College offers both full- and part-time graduate degree programs. The Master of Business Administration (M.B.A.) is offered at the Boston campus and in Brussels, Belgium. The Master of Science in Business Administration (M.S.B.A.) is offered throughout Germany to military and civilian employees of the U.S. Government. On campus a full-time program combining the Master of Business Administration and the Master of Engineering in Manufacturing (M.Eng.) degrees is also offered. There are opportunities to accelerate programs through summer study, transfer of credit, and advanced standing. A concentration in Health Care Management is offered within the M.B.A. program at the Boston campus. Peter P. Gabriel, Dean; 685 Commonwealth Avenue.

School of Education
Programs of study are offered for the Master of Education (Ed.M.) degree, the Certificate of Advanced Graduate Study (C.A.G.S.), and the Doctor of Education (Ed.D.) degree. In addition, the Foundations of Education Department, which specializes in humanistic and behavioral studies of teaching and learning, offers jointly with the Graduate School a number of A.M. and Ph.D. programs of study. Professional specialization is available through the programs of the School's departments of Curriculum and Instruction, Counselor Education, Educational Media and Technology, Human Movement and Health Education, Special Education, and System Development and Adaptation. Robert A. Dentler, Dean; 765 Commonwealth Avenue.

College of Engineering
Graduate professional programs lead to the Master of Engineering (M.Eng.) degree in aerospace engineering, manufacturing engineering, and systems engineering, and the Master of Science (M.S.) degree in aerospace engineering and systems engineering. A coordinated full-time program combining the Master of Business Administration and the Master of Engineering in Manufacturing degrees is also offered jointly by the College of Engineering and the College of Business Administration. Arthur T. Thompson, Dean; 110 Cummington Street.
School of Fine and Applied Arts

Graduate programs are offered for those who exhibit special talents in one of the fields of study. The Master of Fine Arts (M.F.A.) degree program is given with a major in theatre arts or in art. The Master of Music (Mus.M.) and the Doctor of Musical Arts (Mus.A.D.) degrees are given with a major in music. Norman Dello Joio, Dean; 855 Commonwealth Avenue.

Graduate School (Arts and Sciences)

Programs are offered in the arts and sciences leading to the Master of Arts (A.M.) and Doctor of Philosophy (Ph.D.) degrees. The A.M. program in general requires one to three years of study. The post-master's Ph.D. program usually requires five years. In certain departments the credit requirements for the master's and doctoral schedules may be combined to provide a seven-year doctoral program without the intervening A.M. Specializations are available in the following fields: Afro-American Studies (A.M. only), American and New England Studies, anthropology, astronomy, biochemistry (interdepartmental), biology, chemistry, economics, English language and literature, fine arts, geography, geology, history, mathematics, medical and dental sciences, modern foreign languages and literatures, music, philosophy, physics, political science, psychology, sociology, and theological and religious studies. In addition, various opportunities for advanced study are available which focus on an area within a field. For example, students in the social sciences may specialize in African Studies or Latin American Development Studies. A unique opportunity for research training in the marine sciences is available at the Marine Biological Laboratories and the New England Aquarium as part of the Boston University Marine Program. A part-time program offers the A.M. in international relations to U.S. Government military and civilian personnel in Brussels, Berlin, and Heidelberg. Students in the Graduate School may cross register into courses at Boston College, Brandeis University, and Tufts University. Philip E. Kubzansky, Dean; 705 Commonwealth Avenue.

School of Graduate Dentistry

A three-year predoctoral program leads to the Doctor of Dental Medicine (D.M.D.) degree. On recommendation, students are permitted to return to the School of Medicine to fulfill requirements for the M.D. degree. Postdoctoral education in the specialized branches of dentistry is offered leading to the Certificate of Advanced Graduate Study (C.A.G.S.), the Master of Science in Dentistry (M.Sc.D.) degree, and the Doctor of Science in Dentistry (D.Sc.D.) degree. A Ph.D. program is offered in conjunction with the Graduate School Division of Medical and Dental Sciences. The program for continuing education offers short, intensive courses of interest to the general dental practitioner and the specialist in all phases of dental science. Henry M. Goldman, Dean; 100 East Newton Street.

School of Law

The School of Law offers a curriculum requiring three academic years of full-time study for the Juris Doctor (J.D.) degree. A Master of Laws (LL.M.) degree in Taxation is available in the Graduate Tax Program through courses in the late afternoon and evening. Paul M. Siskind, Dean; 765 Commonwealth Avenue.
School of Medicine

The School offers a four-year program leading to the Doctor of Medicine (M.D.) degree. Applicants must be graduates of an approved college of arts and sciences. The six-year liberal arts-medical education program leading to the A.B. and M.D. degrees is given in cooperation with the College of Liberal Arts. Approved graduate programs in medicine for the A.M. and Ph.D. degrees are available through the Division of Medical and Dental Sciences of the Graduate School. Ephraim Friedman, Dean; 80 East Concord Street.

Metropolitan College

Metropolitan College offers through part-time programs four master's degrees: the Master of Urban Affairs (M.U.A.), a professionally oriented program designed for people engaged in or interested in urban service careers; the Master of Liberal Studies (M.L.S.), a program which presents an interdisciplinary approach to the social, cultural, and physical environments of man; the Master of Liberal Arts in History (M.L.A.), a program of advanced study primarily directed at content rather than research; and the Master of Applied Science in Computer Science (M.A.S.), a program designed to prepare computer professionals. Hubert S. Gibbs, Dean; 755 Commonwealth Avenue.

School of Nursing

Programs in nursing are offered by the Graduate Division of the School leading to the Master of Science (M.S.) degree, the Certificate of Advanced Graduate Study (C.A.G.S.), and the Doctor of Nursing Science (D.N.Sc.) degree. Irene S. Palmer, Dean; 635 Commonwealth Avenue.

School of Public Communication

Major fields for the Master of Science (M.S.) degree include broadcasting, film, broadcast journalism, communication research, journalism, journalism (science communication), and public relations. The programs of study require three or four semesters of study in most cases. Gerhart D. Wiebe, Dean; 640 Commonwealth Avenue.

Sargent College of Allied Health Professions

Graduate programs in physical therapy, occupational therapy, and health dynamics are offered for the Master of Science (M.S.) and Master of Occupational Therapy (M.O.T.) degrees. Bernard Kutner, Dean; University Road.

School of Social Work

The School offers a two-year course in professional social work which leads to the degree of Master of Science in Social Service (M.S. in S.S.). Joseph F. Meisels, Dean; 264 Bay State Road.

School of Theology

Professional education for diverse ministries of the Christian church and other religious work is offered college graduates. Degree programs lead to the Master of Theology (Th.M.), Master of Sacred Music (M.S.M.), Master of Sacred Theol-
ogy (S.T.M.), and Doctor of Theology (Th.D.). Programs for the A.M. and Ph.D. degrees are available through the Division of Theological and Religious Studies of the Graduate School. J. Robert Nelson, Dean; 745 Commonwealth Avenue.
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