Dental Hygiene-Entry Level

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Bachelor of Science - Entry Level Degree

The Bachelor of Science in Dental Hygiene program prepares students for licensure and entry into the profession of dental hygiene, as well as certification in the administration of local infiltration anesthesia/nitrous oxide analgesia. This optional BS program will offer students a broad foundation of knowledge that will prepare them for the emerging roles within oral healthcare. The optional BS program in Dental Hygiene is accredited by the Commission on Dental Accreditation and has been granted the accreditation status of “Approval without Reporting Requirements.” Since the optional BS program is a new program at Farmingdale State College, the Commission on Dental Accreditation will review this program at the next accreditation site visit scheduled for 2022. The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312) 440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611-2678. The Commission’s web address is: www.ada.org/coda. Graduates receive a Bachelor of Science degree and are eligible to sit for the National Dental Hygiene Board Examination, as well as State and Regional Practical Board Examinations for dental hygienists.

As the dental hygiene profession continues to expand, career opportunities beyond clinical practice will require a higher level credential such as a bachelor’s degree. Emphasis is placed on broadening the career paths for practicing hygienists. Foundation courses are in the areas of teaching, research and public health with an emphasis on service learning and inter-professional collaboration. Although the clinical role is most closely connected with dental hygiene, it is only one of six roles formally designated for the hygienist, which include educator, researcher, administrator, change agent, and consumer advocate. The Bachelor of Science Degree in Dental Hygiene is designed to provide comprehensive upper-level studies that will prepare dental hygienists to adapt to the emerging new roles in oral healthcare. All aspects of dental hygiene are incorporated into the theoretical framework and practical experiences of the curriculum. The program includes general education as well as specialized coursework in the biomedical and oral sciences.

Students perform a variety of comprehensive services at the College’s technologically advanced Dental Hygiene Care Center. Among these services are thorough assessment of oral conditions, non-surgical periodontal therapy (scaling and root planing of teeth), exposing, processing and interpreting oral x-rays, patient education and nutritional counseling. In addition students in the Bachelor curriculum will participate in a number of off campus clinical rotations in hospital settings.

The Dental Hygiene Care Center is in compliance with all Occupational and Safety Health Administration (OSHA)/Infection Control regulations regarding infectious diseases and bloodborne pathogens.

As a condition for acceptance into the dental hygiene program all applicants are required to submit evidence of satisfactory health. Evidence of immunization and adequate titers for measles, mumps, rubella and varicella must be provided. In addition, matriculated students will be required to take a yearly Mantoux test for tuberculosis. Students are strongly urged to submit evidence of immunization and titer for Hepatitis B. It is recommended that students who test negatively for Hepatitis B
receive the appropriate vaccine. Students who decline this recommendation will be required to sign a waiver of responsibility. All Dental Hygiene students are required to participate in the group liability policy, provided by the college, which will afford malpractice coverage during the time enrolled in the dental hygiene curriculum.

New York State Dental Hygiene licensure requires the applicant be of good moral character. An applicant for licensure who has been convicted of a crime, or has committed an act which raises a reasonable question as to their moral character, will be subject to review.

Typical Employment Opportunities

Private Dental Offices
Geriatric Facilities
Public Health Agencies
Research Laboratories
School Health Services
Pharmaceutical Corporations
Private Care Center
Dental Supply Companies
Hospitals
Armed Forces
Insurance Companies
Managed Care Facilities

Dental Hygiene (BS) Program Outcomes:

- Graduates will have the knowledge and skills necessary to provide comprehensive dental hygiene care to the general population including the adolescent, geriatric and special needs patient.
- Graduates will develop an expertise in the area of health promotion and disease prevention through assessment, planning, implementation and evaluation of community based oral health programs and effective interaction with diverse population groups.
- Graduates will understand the role of leadership, management, and technology as it applies to dental hygiene practice.
- Graduates will develop the skills necessary to analyze and apply scientific literature in the dental hygiene process of care.
- Graduates will demonstrate an understanding of the learning process, various teaching methodologies and evaluation techniques as they apply to the dental hygiene educator.
- Graduates will utilize professional judgment and critical thinking skills for recognition and management of ethical, legal and regulatory issues.
- Graduates will develop a sense of professionalism as health care providers including self-assessment and will seek educational advancement for continued growth and development following commencement.

Special Opportunities

As a student in the Dental Hygiene Bachelor of Science Degree Program you are eligible to participate in the Student American Dental Hygienists’ Association (SADHA) which promotes student leadership through community outreach, lunch and learn programs and various campus activities.
Fall 2018- Subject to Revision

Liberal Arts and Sciences  (60 credits)

BIO 166 Anatomy & Physiology (GE)  4
CHM 140 Intro to General, Organic & Biochemistry (GE)  4
BIO 220 Medical Microbiology  4
EGL 101 Composition I: College Writing  3
EGL 102 Composition II: Writing About Literature  3
MTH 110 Statistics (GE)  3
PSY 101 Introduction to Psychology (GE)  3
SOC 228 Society & Health  3
SPE 202 Interpersonal Communications (GE)  3
SPE 330 Professional and Technical Speech  3
American/Other World/Western Civilization History Elective (GE)  3
The Arts (GE)  3
Foreign Language Level I  3
Foreign Language Level II (GE)  3
Humanities (GE)  3
Upper Level Liberal Arts & Science Elective (300 level & above)  12

Please refer to the General Education and Writing-Intensive Requirement Sections of the College catalog and consult with your advisor to ensure that graduation requirements are satisfied.

Required: Dental Hygiene  (64 credits)

DEN 102 Dental Materials & Expanded Functions  3
DEN 105 Dental & Oral Anatomy  3
DEN 106 Oral Radiology I  3
DEN 108 Oral Histology & Embryology  2
DEN 110 Preventive Oral Concepts I  2
DEN 115 Clinical Dental Hygiene I  3
DEN 126 Periodontology  2
DEN 203 Principles of Nutrition for Oral Health Professionals  2
DEN 205 Oral Pathology 3
DEN 207 Oral Radiology II 1
DEN 212 Pharmacology 2
DEN 220 Preventive Oral Health Concepts II 2
DEN 225 Clinical Dental Hygiene II 3
DEN 302 Principles of Dental Anesthesia 2
DEN 310 Teaching Strategies for Health Educators 3
DEN 322 Dental Public Health Planning 3
DEN 330 Essentials of Clinical Practice Theory 2
DEN 335 Essentials of Clinical Practice I 2
DEN 340 Dental Hygiene Law and Practice Management 2
DEN 345 Essentials of Clinical Practice II 3
DEN 401 Health Science Research Principles & Methods 3
DEN 402 Gerontology 3
DEN 430 Senior Seminar I 1
DEN 435 Advanced Dental Hygiene Practice I 4
DEN 440 Senior Seminar II 1
DEN 445 Advanced Dental Hygiene Practice II 4

Total Credits 124

Degree Type: BS
Total Required Credits: 124

Notes:

Once a student has been admitted to DEN 105, courses must be completed in semester sequence, without interruption. Any student who misses a semester will not be permitted to continue in the program until approval has been obtained (if granted) from the Admissions and Academic Standards Committee of the Dental Hygiene Department. Students who have been given permission to continue in the program will be required to take the skills refresher course DEN 015. Procedural information may be obtained from the Department Chair of Dental Hygiene in Gleeson Hall.

1. The nature of this program will expose students to bodily fluids and blood borne pathogens. The Dental Hygiene Department adheres strictly to the Occupational and Safety Health Administration (OSHA) Guidelines for infectious disease control.

2. Students must be certified in Basic Life Support for Health Care Providers prior to entering the clinical sequence.

3. Students are required to provide their own transportation to off campus field experiences. For all field experiences, student dress must conform with field agency protocol.

4. Students are required to purchase their own instruments and specific clinically related supplies.
5. A grade of “C” (2.0) or better must be maintained in all courses with a DEN, BIO or CHM prefix. A failure in a clinically related area constitutes withdrawal from the Dental Hygiene curriculum.

6. Students are also required to provide their own patients (approximately 8) for clinic during the second semester of the program.

**Dental Hygiene Admission Requirements from High School:**

- High School Diploma or GED
- Integrated Algebra and Geometry
- Laboratory Biology
- Laboratory Chemistry

* In addition to the high school requirements, applicants not applying directly from high school are required to complete the following courses prior to admission:
  - EGL 101
  - BIO 166
  - BIO 220

**Course Descriptions**

**BIO 166 Anatomy & Physiology (GE)**
This is a one semester integrated survey of human anatomy and physiology, covering the major physiological and morphological relationships of the human organ systems. The design of this course is appropriate preparation for Dental Hygiene, Medical Laboratory Technology, and certain other allied health professions, but it does not satisfy the requirements of the Nursing Curriculum. The major theme of the course is the integrative pathways and regulatory processes that maintain the homeostasis of the body. Note: BIO 166 does not satisfy the requirements of the Nursing Curriculum and cannot be used as a substitute for either BIO 170 or BIO 171. It is approved in the Natural Sciences General Education Competency Area and can serve as lower-level laboratory science elective within Liberal Arts. Note: the laboratory course, BIO 166L is a part of your grade for this course. Prerequisite(s): High School biology with a lab or BIO 120 or 123 or 130; High School or College chemistry recommended. Corequisite(s): BIO 166L Credits: 4

**CHM 140 Intro to General, Organic & Biochemistry (GE)**
A one semester course with laboratory designed primarily for Dental Hygiene students. Basic principles of general, organic and biochemistry are presented with emphasis on their applications to health science. Topics include measurement, states of matter, bonding theory, solutions, acids, buffers and pH, and the structure and function of carbohydrates, lipids, sterols, amino acids and proteins and a molecular approach to enzymatic action, digestion, metabolism and nutrition. Note: the laboratory course CHM 140L is a part of your grade for this course. Attendance in the laboratory course is required. Approved eye-protection and a laboratory coat are required materials. A student must pass the laboratory course to receive a passing grade in the entire course. Prerequisite(s): High School Sequential (Integrated) Math 1 and High School chemistry with Laboratory or CHM 124. Credits: 4

**BIO 220 Medical Microbiology**
The role of microbes as causative agents of disease in human hosts; the morphological characterization of pathogenic species, classification of communicable diseases and epidemiological aspects. Host-parasite relationship, infection, and host-resistance mechanisms; sero-diagnostic methods in medical practice. Chemotherapy, mode of action of antibiotics, sterilization, disinfection methods and contamination control. Note: the laboratory course, BIO 220L is a part of your grade for this course. Prerequisite(s): BIO 166 or 170 or 171 or 130 or 131 Corequisite(s): BIO 220L Credits: 4
EGL 101 Composition I: College Writing
This is the first part of a required sequence in college essay writing. Students learn to view writing as a process that involves generating ideas, formulating and developing a thesis, structuring paragraphs and essays, as well as revising and editing drafts. The focus is on the development of critical and analytical thinking. Students also learn the correct and ethical use of print and electronic sources. At least one research paper is required. A grade of C or higher is a graduation requirement. Note: Students passing a departmental diagnostic exam given on the first day of class will remain in EGL 101; all others will be placed in EGL 097. Prerequisite is any of the following: successful completion of EGL 097; an SAT essay score (taken prior to March 1, 2016) of 7 or higher; an SAT essay score (taken after March 1, 2016) of 5 or higher; on-campus placement testing. Credits: 3

EGL 102 Composition II: Writing About Literature
This is the second part of the required introductory English composition sequence. This course builds on writing skills developed in EGL 101, specifically the ability to write analytical and persuasive essays and to use research materials correctly and effectively. Students read selections from different literary genres (poetry, drama, and narrative fiction). Selections from the literature provide the basis for analytical and critical essays that explore the ways writers use works of the imagination to explore human experience. Grade of C or higher is a graduation requirement. Prerequisite(s): EGL 101 Credits: 3

MTH 110 Statistics (GE)
Basic concepts of probability and statistical inference. Included are the binominal, normal, and chi-square distributions. Practical applications are examined. Computer assignments using Minitab form an integral part of the course. Prerequisite(s): MP2 or MTH 015 Credits: 3

PSY 101 Introduction to Psychology (GE)
This course is designed to present basic psychological concepts and to introduce students to the scientific study of behavior. Core topics include methods of psychological research, the biological bases of behavior, principles of learning, memory and cognition, personality, and psychopathology. Other selected topics to be covered would include the following: motivation and emotion, life-span development, social psychology, health psychology, sensation and perception, intelligence, human sexuality, statistics, and altered states of consciousness. Credits: 3

SOC 228 Society & Health
This course is a comparative and cross-cultural examination of the meaning and experience of health and illness and the ways in which social factors like age, gender, class and ethnicity affect health. We also examine the historical development and contemporary issues of mainstream and alternative health professions and occupations, and the current crisis in our health care system. Credits: 3

SPE 202 Interpersonal Communications (GE)
An Introduction to effective interpersonal communication skills covering areas such as effective and active listening, feedback techniques, the effects of self-concept and perception in daily communications, and non-verbal and cross-cultural communication. These skills will be developed through class lectures, group exercises, and individual activities and assignments. Prerequisite(s): EGL 101 Credits: 3

SPE 330 Professional and Technical Speech
A course designed to prepare students to develop and deliver oral presentations in a professional, business, scientific, or technical context, stressing methods of presenting information specific to students' disciplines. Students use audio-visual materials or technology to enhance their presentations. Prerequisite(s): EGL 102 Credits: 3

DEN 102 Dental Materials & Expanded Functions
This course is concerned with the study of dental materials that are employed in dentistry for the fabrication of dental appliances and tooth restorations. It will provide the student with a basic understanding of the various procedures, materials, and devices commonly used in dental practice. Emphasis will be placed on the physical and chemical properties of dental materials and how these properties affect the care and manipulation of the materials. Basic laboratory techniques, as well as expanded functions, will be performed in the lab. Spring. Prerequisite(s): DEN 105 Corequisite(s): DEN 102L Credits: 3

DEN 105 Dental & Oral Anatomy
The study of the anatomy of the oral, facial complex and the morphology of the dentitions. Emphasis is placed on technical dental terminology as well as occlusion. This course includes a co-requisite laboratory designed to provide experience in mastering tooth morphology and occlusion. Prerequisite(s): Admission to the Dental Hygiene Program. EGL 101, CHM 124 (or High School Chemistry/Lab) and BIO 166, all with a minimum grade of C Corequisite(s): DEN 105L Credits: 3

DEN 106 Oral Radiology I
This course acquaints the student with the nature of ionizing radiation, the history of x-rays, and their production and properties. The theory and practice of exposing, processing, mounting, and analyzing dental radiographs and digital images are covered as well as radiation dosage, radiation hazards, and protective devices for patient and operator. Emphasis is placed on the identification of anatomic landmarks and the differentiation of these from conditions which indicate abnormality or disease. This course includes a co-requisite laboratory which includes two hours per week of laboratory activity. Prerequisite(s): DEN 105, with a minimum grade of C. Credits: 3

DEN 108 Oral Histology & Embryology
This course reviews basic histological tissues. Microscopic structures of the oral tissues are studied and include the hard palate, soft palate, tongue, lips, salivary glands and tonsils. Emphasis is on the development of the face, the oral cavity and, in specific, the tooth and its surrounding tissues. Spring. Prerequisite(s): DEN 105 Credits: 2

DEN 110 Preventive Oral Concepts I
This course is an introduction to the study of Dental Hygiene. It includes an overview of the dental hygiene profession to include current and future roles of the dental hygienist. Special emphasis is placed on the hygienist as periodontal co-therapist, the responsibility of the dental hygienist to the profession and the development and strengthening of values that pertain to the profession of dental hygiene. Other topics to be covered include: principles of instrument design and use; disease transmission control; etiology and role of dental biofilm and calculus; importance of medical histories; measuring and recording of vital signs; office emergencies and planning implications for the medically compromised patient. Fall. Corequisite(s): DEN 105, 105L, 115 Credits: 2

DEN 115 Clinical Dental Hygiene I
This is a clinical course in the practical application of dental hygiene techniques with supplemental discussions related to the clinical practice of the dental hygienist. Emphasis is placed on proper patient and operator positioning, use of dental equipment, maintenance of an aseptic environment, intra and extra oral exams, measuring and recording of vital signs, instrumentation principles and techniques, recognizing and removing hard and soft deposits. Polishing and sharpening of instruments along with techniques and theory are included. Fall. Corequisite(s): DEN 105, 105L and 110 Credits: 3

DEN 126 Periodontology
A basic understanding of the principles and concepts associated with periodontology, including a detailed study of the periodontal tissues in both health and disease. Special emphasis is placed on the role of the dental hygienist as a periodontal co-therapist in the development of skills necessary to provide initial non-surgical and supportive periodontal therapy within the framework of a comprehensive dental hygiene care plan. Spring. Prerequisite(s): DEN 105,110, 115 and BIO 220 Credits: 2

DEN 203 Principles of Nutrition for Oral Health Professionals
This course is designed to educate the student in basic nutrition principles in regard to carbohydrates, protein, fats, vitamins, and minerals as they relate to health and wellness, nutrition and disease, energy balance, eating disorders, nutrition labeling, and the oral manifestations of nutritional deficiency. Dietary analysis of a client's diet and review of pertinent nutrition literature is essential to the dental hygiene process of care and therefore, is an important component to the scope of this course's requirements. Fall. Prerequisite(s): CHM 124 (or High School Chemistry/Lab) Credits: 2

**DEN 205 Oral Pathology**
The study of the fundamentals of microscopic and gross pathology. Discussion of general pathologic processes with emphasis on pathology of the oral, dental, and periodontal tissues and their etiology and prevention. Fall. Prerequisite(s): BIO 166 Minimum Grade: C and BIO 220 Minimum Grade: C and DEN 220 and 225 Credits: 3

**DEN 207 Oral Radiology II**
Laboratory activities and experiences are designed to provide students with further practice in developing skills with intra-oral radiographic techniques. In addition, students will learn supplemental techniques that are not limited to, but include occlusal, extra-oral, digital, panoramic and specialized patients. Interpretations of radiographs will be emphasized, with integration of the role radiographs play in the dental hygiene diagnosis and treatment planning. Fall. Prerequisite(s): DEN 106 Credits: 1

**DEN 212 Pharmacology**
The study of drug actions in the body with emphasis on those drugs used in dentistry. Legal implications, regulatory agencies, and principles of prescription writing will be explored. Fall. Prerequisite(s): CHM 124 (or High School Chemistry/Lab), BIO 166, 220 and DEN 220, 225 Credits: 2

**DEN 220 Preventive Oral Health Concepts II**
This course is a continuation of the study of Dental Hygiene. This course includes a detailed study of such preventive dental hygiene techniques as fluorides, nutritional counseling, patient motivation and management, oral physiotherapy techniques. Also covered are discussions on dental hygiene care planning, dental biofilm, calculus, caries, dental products, desensitization, periodontal and restorative charting. A research paper on an aspect of preventive dentistry will be expected from each student. Spring Prerequisite(s): DEN 105, DEN 110, DEN 115 Corequisite(s): DEN 225 Credits: 2

**DEN 225 Clinical Dental Hygiene II**
A continuation of the practical applications of dental hygiene techniques with supplemental lectures and discussions related to the clinical practice of the dental hygienist. Spring Prerequisite(s): DEN 105, DEN 110, DEN 115 Corequisite(s): DEN 220 Credits: 3

**DEN 310 Teaching Strategies for Health Educators**
The Principles of education, teaching, methodology, and instructional design utilized by health care educators in schools, community outreach, hospitals, other skilled nursing facilities, and/or higher education institutions are covered in this course. Topics include performance objectives, competencies, lesson planning, syllabi construction, analysis, and formative evaluation of instruction; traditional and non-traditional teaching methodologies; academic course development; current issues in dental health and dental hygiene education. Spring Prerequisite(s): Associate Degree in Dental Hygiene. Credits: 3

**DEN 401 Health Science Research Principles & Methods**
A profession seeking to enhance its professional stature strives for the continual development of a scientific body of knowledge fundamental to its practice. Dental hygiene research involves a systematic search for knowledge about issues of importance to the dental hygiene profession. This course is designed to develop skills in scientific research. Emphasis is placed on the research process which includes problem identification, hypothesis writing, research design data collection, and data analysis and data interpretation. This is a writing-intensive course. Fall Prerequisite(s): Associate Degree in Dental Hygiene and EGL101 with a C or higher Credits: 3 Note: DEN 401W can be used to fulfill the writing intensive requirement.
DEN 402 Gerontology
Gerontology is the study of aging. This course is designed to promote an understanding of the social, psychological, and biological aspects of the aging process and the relationship to health. The course will examine current theories of aging, demographic profiles of the older adult population, and the increased incidence of oral health problems as we age. Close examination of the aging process will enable the student to gain insight into the fastest growing portion of our population and recognize the needs of the elderly and the concerns of the 77 million baby boomers coming of age. Spring Prerequisite(s): Associate Degree in Dental Hygiene. Credits: 3

Admission to Farmingdale State College - State University of New York is based on the qualifications of the applicant without regard to age, sex, marital or military status, race, color, creed, religion, national origin, disability or sexual orientation.