



Northampton Community College

DENTAL HYGIENE
ASSOCIATE IN APPLIED SCIENCE DEGREE

Academic Program Audit

2007 - 2014

External Auditors:

**American Dental Association's
Commission of Dental Accreditation
and
State Board of Dentistry of Pennsylvania
April 23-24, 2014**

Audit Prepared By:

**Sherri Meyers, Director of Dental Hygiene
Dr. Carolyn Bortz, Dean of Allied Health & Science**

Academic Audit Report

Dental Hygiene Program

The purpose of this report is to serve as proxy for the customary Academic Audit report that is presented to the Board of Trustees. The rationale is due to the accreditation status through the American Dental Association's Commission on Dental Accreditation (CODA) of this allied health program. A comprehensive, self-reflective assessment of the dental hygiene program is required periodically, every seven (7) years. The Commission establishes and publishes six (6) standards of which the program uses as an evaluation tool. The program completed the self-study process between spring 2013 and spring 2014. (**Appendix A**) The self-study report was submitted to CODA in February 2014. The site visit team consisted of two visitors, along with a silent observer and a representative from the State Board of Dentistry of Pennsylvania; they conducted a two-day review of the program onsite at the Main and Fowler campuses in April 2014. This report will summarize highlights of the review; a copy of the report is also attached.

Program Purpose

The dental hygiene program supports the mission, vision and values of Northampton Community College, and the program's mission, values, goals and competencies are complimentary and consistent with those of the institution. The dental hygiene program provides excellent, accessible and comprehensive learning experiences to prepare students with the knowledge and clinical skills to competently practice as dental hygienists. As students complete the program, they are awarded the Associate in Applied Science degree upon graduation.

Curriculum (Appendix B)

During the two-year program, all pre-clinical and clinical practice occurs in the dental clinic located at the Fowler Family Southside Center campus. Professional hygienists working in the field enhance the hands-on aspects of the clinical portion of the program. The dental hygiene program is competency-based and assesses all clinical and laboratory courses using pass/fail criteria.

Executive Summary Highlights

The site visit team found the dental hygiene program met or exceeded the minimum standards over all six (6) of the standards: Institutional Effectiveness, Educational Program, Administration, Faculty and Staff, Educational Support Services, Health and Safety Provisions, and Patient Care Services. The site visit team reviewed two recommendations from 2007 in the areas of Administration, Faculty and Staff and Patient Care Services and found the program has maintained compliance in these areas. The program is in compliance with Third Party Comments, Complaints and Program Changes. Program changes that were approved without reporting requirements include the following: 1) the director of the program changed from Terry Sigal Greene to Sherri Meyers effective July 2012 and 2) the program relocated from Northampton's Main Campus to the Fowler Family Southside Center effective January 2013.

The site visit team acknowledged documented effectiveness through formal and ongoing outcomes assessment, including positive programmatic student achievement. The formalized employer survey

process was eliminated due to poor response rate, small impact based on the data and with support of the dental advisory committee. The number and distribution of faculty/staff is sufficient to meet the program's purpose, goals and objectives. The team did identify inconsistent instructional credit hour formulas between the program and other allied health programs at Northampton related to direct patient care. It is suggested to review the program faculty's workload in comparison to other allied health faculty and revise as needed. The team also is encouraging review of the existing clinical monitoring system and revision as needed to ensure for optimal efficiency related to faculty workload (i.e., investigating computerized monitoring system for clinical outcomes assessment vs. time-consuming manual methods).

The team was very impressed with the quality and quantity of experiences offered to students, as well as the outcomes assessed and utilized for continual program improvement. They commended the program on going beyond traditional academics to provide enrichment to the student experience, including, but not limited to, volunteerism, service learning, presenting within the community, in-service training through industry experts and outreach. The program was also recognized for initial efforts to reach out and become engaged in the community within which the program was relocated. The faculty/staff was applauded for the level of dedication and commitment that was evident to both the students and the institution as is apparent through the self-study process.

The dental hygiene program continues to be accredited by CODA and has been granted the accreditation status of "*approval without reporting requirements*". No further reporting is required during the next seven (7) year period; the next site visit for the dental hygiene is scheduled for 2021.

Program Costs (Appendix C)

The dental hygiene program continues to be one of, if not, the most costly programs offered by Northampton Community College. The program was relocated to the Fowler Family Southside Center for all didactic/clinical courses within the major, with the exception of Pharmacology, which continues to be offered at main campus during the summer between the first and second year. Dental hygiene faculty to student ratios continue to be mandated by CODA to not exceed 1:5 for all clinics and radiology labs. In addition, all clinic sessions must be staffed with a supervising dentist. Appropriate staff is needed to manage the dental hygiene clinic, much like a private practice, given the number of students and patients in each clinic session. The program has both an office manager (FT 9-month) and staff dental assistant (PT 9-month) that work during time when students are in session. The department secretary is shared with four other programs, approximately 20% each in expenses.

Supplies, materials, equipment, repairs and maintenance are necessary and unavoidable given the program needs; this may be in contrast to other types of programs offered by Northampton given the need for specialized equipment. As a result, the direct costs of the program are at a high base amount, although historically the actual direct costs of the program have been contained at an average increase of 2-3% per year. An additional cost during this audit period is the increasing necessity and reliance on technology and its advances (i.e., electronic record keeping, software, digital imaging, maintenance agreements, etc.). The direct program costs have remained stagnant since the last audit period with the exception of faculty/staff salary and increased technology applications.

The program's operational budget is adequate to sustain a high quality program. With the relocation to Fowler came a move of the existing dental equipment that is aging. Continued capital equipment requests will be submitted with intention of using fleet deployment to replace dental equipment over the next three to five years and/or as needed.

Conclusions

At its July 2014 meeting, CODA's final decision on the re-accreditation status for the Dental Hygiene Program was "*approval without reporting requirements*". The dental hygiene program is fortunate to have a supportive administration, loyal advisory committee, and truly dedicated faculty and staff. The curriculum is comprehensive and effectively delivered with student outcomes that generally meet or exceed established benchmarks. The financial resources are stable. Technological advances are being integrated and/or investigated in efforts to move toward electronic record keeping, as well as electronic clinical grading. The program goals and competencies are continuously assessed; data generated is used as part of the department's continuous improvement initiative and curriculum management plan.

Applications to the dental hygiene program remain constant and robust, with 40 new students accepted annually. **(Appendix D)** The goal of retaining at least 90% of the students through graduation remains; however, there are generally two to three students per class that graduate after a 3-year period versus the typical 2-years due to needing to repeat one class as reoffered. Entry into practice placement and/or transferring to a bachelor program has remained stable; self-reports share that with the economic decline during the last several years it is somewhat harder and/or take longer to find the number of hours that are desired while employed as a dental hygienist. **(Appendix E)** The median salaries are generally the highest of all Northampton Community College graduates during this audit period.

RECOMMENDATION: Continuation of the program.

Sherrí Meyers
Director, Dental Hygiene

Carolyn Bortz, Ph.D.
Dean, Allied Health & Science Division



August 12, 2014

Dr. Mark Erickson
President
Northampton Community College
3835 Green Pond Road
Bethlehem, PA 18020

Re: Dental Hygiene Program

Dear President Erickson:

At its July 31, 2014 meeting, the Commission on Dental Accreditation (CODA) considered the site visit report on the dental hygiene program sponsored by the Northampton Community College.

On the basis of this review, the Commission adopted a resolution to grant the program the accreditation status of "approval without reporting requirements." The definitions of accreditation classifications have been sent with the electronic copy of this letter. No additional information is requested at this time from the program. The next site visit for the program is scheduled for **2021**.

The findings of the Commission on Dental Accreditation are noted in the enclosed Commission-approved Site Visit Report. Oral comments made by site visit team members during the course of the site visit are not to be construed as official site visit findings unless documented within the site visit report and may not be publicized. Further, publication of site visit team members' names and/or contact information is prohibited.

One copy of this report and the related enclosures have also been sent to the chief administrative officer and program director copied on this letter. The Commission requests that a copy of this report and the related enclosures be forwarded to the chairpersons and appropriate faculty.

In taking this action, the Commission stipulated that it will expect the institution to keep the Commission informed as soon as possible of anticipated changes in any approved educational program offered, particularly in the areas of administration, enrollment, faculty, facilities and curriculum. The Commission's policy and guidelines for reporting program changes have been sent with the electronic copy of this letter.

Note: The program's documentation for CODA (self-study, application, or reports to CODA, for example) must NOT contain any patient protected health information (PHI) or HIPAA identifiers as outlined in section 164.514 of the HIPAA Privacy Rule.

President Erickson
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In addition, most states have enacted laws to protect sensitive personally identifiable information ("PII") such as social security numbers, drivers' license numbers, credit card numbers, account numbers, etc. Before sending documents such as faculty CVs to CODA, institutions must fully redact the following PII: social security numbers, credit or debit card numbers, driver's license numbers or government-issued ID numbers, account numbers, health information, taxpayer ID, and date of birth.

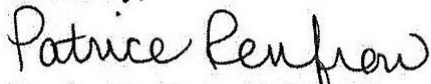
If the program/institution submits documentation that does not comply with the directives on PHI and PII (noted above), CODA will assess a penalty fee of \$1000 to the institution; a resubmission that continues to contain PHI or PII will be assessed an additional \$1000 fee.

The Commission has authorized use of the following statement by institutions or programs that wish to announce their programmatic accreditation by the Commission. Programs that wish to advertise the specific programmatic accreditation status granted by the Commission may include that information as indicated in italics below (see text inside square brackets); that portion of the statement is optional but, if used, must be complete and current.

The program in dental hygiene is accredited by the Commission on Dental Accreditation [*and has been granted the accreditation status of "approval without reporting requirements"*]. 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. The Commission's web address is: <http://www.ada.org/coda>

The Commission wishes to thank you and the faculty and staff for their cooperation during the site visit. If this office can be of any assistance to you, please contact me by telephone, at 1-800-621-8099, extension 2695 or by e-mail, at renfrowp@ada.org.

Sincerely,



Patrice Renfrow, RDH, MA
Manager, Allied Dental Education
Commission on Dental Accreditation

PR/ap

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Enclosures: Formal Report of the Site Visit

Sent via e-mail: Formal Report of the Site Visit
CODA Accreditation Status Definitions
Reporting Changes in Accredited Programs
Electronic Submission Guidelines for General Correspondence

Link to Evaluation and Operational Policies and Procedures
<http://www.ada.org/coda/policies-and-guidelines>

Link to Accreditation Standards for Dental Hygiene Education Programs
<http://www.ada.org/coda/current-accreditation-standards>

cc: Ms. Carolyn Bortz, dean, Allied Health & Sciences
Ms. Sherri Meyers, director, Dental Hygiene
Dr. John Williams, chair, Commission on Dental Accreditation (CODA)
Dr. Sherin Took, director, Commission on Dental Accreditation (CODA)
Mr. Herman Bounds, director, Accreditation Division, U.S. Department of Education
(via CODA website)
State Boards of Dentistry (via CODA website)
Institutional Accreditors (via CODA website)

**FORMAL REPORT OF THE COMMISSION ON DENTAL ACCREDITATION
TO THE ADMINISTRATION OF THE NORTHAMPTON COMMUNITY COLLEGE
ON THE EVALUATION OF THE DENTAL HYGIENE EDUCATION PROGRAM
Bethlehem, Pennsylvania***

Introduction

An evaluation of the dental hygiene program offered by the Northampton Community College was conducted on April 22-23, 2014 by a committee of the Commission on Dental Accreditation composed of Ms. Joanna Campbell, consultant in dental hygiene; and Ms. Kathi Shepherd, Commission staff representative. Ms. Connie Grossman attended the visit as a silent observer. Ms. Alice Hughes represented the Pennsylvania State Board of Dentistry during the visit.

The Commission believes that educational institutions offering curricula supportive to the dental profession assume the obligation and responsibility of affording quality educational opportunities which are based on sound educational principles. Commission objectives are also based on the premise that dental hygiene education programs should strive continually to improve standards of scholarship and teaching consistent with the purpose and methods of postsecondary education. To assist the institution in appraising its educational effectiveness and identifying ways and means by which its endeavors can be strengthened, dental hygiene programs are reviewed periodically by peers in relation to predetermined standards. This peer review of the educational process is based on the program's self-study and conferences with persons involved in the various components of the program.

This report represents the visiting committee's findings and conclusions in the form of a suggestion for program enhancement. This is found, as appropriate, under headings that parallel the Commission's Accreditation Standards for Dental Hygiene Education Programs. Only those standards that warrant comment are included; in all other cases, the visiting committee found that the program met or exceeded the minimum standards.

The Commission on Dental Accreditation has discontinued the use of commendations, effective July 26, 2007. As a result, commendations will no longer be cited within site visit reports for programs under the Commission's purview.

Accreditation History

The dental hygiene program offered by the Northampton Community College was initiated in 1971. This was the Commission's seventh site evaluation of the dental hygiene program. At the time of the site visit, the accreditation status for the dental hygiene education program was "approval without reporting requirements." Information on the Commission's previous accreditation of the program follows:

* As approved by the Commission on Dental Accreditation for transmittal on July 31, 2014.

<u>Date</u>	<u>Basis of Action</u>	<u>Action</u>
May 1971	Site Visit	Provisional Approval
May 1972	Progress Report	Conditional Approval
May 1973	Progress Report	Approval
May 1979	Site Visit	Approval
May 1985	Site Visit	Conditional Approval
May 1986	Progress Report	Approval
April 1993	Site Visit	Approval
July 2001	Site Visit	Approval <u>without</u> Reporting Requirements
July 2008	Site Visit	Approval <u>without</u> Reporting Requirements
February 2013	Program Change	Approval <u>without</u> Reporting Requirements
August 2013	Program Change Supplement	Approval <u>without</u> Reporting Requirements

Review of Recommendations Cited in the Program's Previous Site Visit Report

At the time of the Commission's last evaluation of the program in December 2007, two recommendations were cited in the areas of Administration, Faculty and Staff and Patient Care Services. During this evaluation, the visiting committee reviewed these areas and found that the program has maintained compliance with the previously cited recommendations.

Compliance with Commission Policies

At the time of the site visit, the visiting committee determined that the program was in compliance with the Commission on Dental Accreditation's policies on "Third Party Comments," "Complaints," and "Program Changes." The Commission's policy on "Distance Education" does not apply to this program.

Through review of the program's complaint records, there are no patterns or themes related to the programs' compliance with the Accreditation Standards.

Standard 1. Institutional Commitment and Program Effectiveness

The program has documented its effectiveness using a formal and ongoing outcomes assessment process to include measures of dental hygiene student achievement. Based on a review of the program's outcomes assessment process and student achievement measures, the visiting committee found the program has demonstrated positive programmatic student achievement outcomes through pass rates on the National Board Dental Hygiene Examination and clinical/computer portions of the dental hygiene clinical examination of the students' choosing, such as the North East Regional Board Examination, dental hygiene licensure rates, certification in local anesthesia and employment rates. The visiting committee did not note any programmatic changes made as a result of collected and analyzed outcomes data. However, the visiting committee noted the program eliminated the formalized employer survey process due to a poor response rate and small impact on the program of the data collected.

Standard 2. Educational Program

The dental hygiene program is presented in four, 15-week semesters, one, six-week summer term and one, 10-week summer term. Upon completion of the program, graduates are awarded Associate in Applied Science degrees. The curriculum has been defined in terms of program goals, general instructional objectives, learning experiences designed to achieve the goals and objectives and evaluation procedures to assess student attainment of the goals and objectives.

Standard 3. Administration, Faculty and Staff

The number and distribution of faculty and staff must be sufficient to meet the dental hygiene program's stated purpose, goals and objectives.

Through review of the self-study document and documentation provided on-site, the visiting committee identified inconsistent instructional credit hour formulas between dental hygiene and other health professionals involved with instruction that includes direct patient care. Faculty contact loads should allow for sufficient time for class preparation, student evaluation and counseling, development of subject content and appropriate evaluation criteria and methods, program development and review, and professional development. It is suggested that the program review the dental hygiene faculty workload in relation to other health profession faculty, and revise as needed to ensure protection the public and development of student competency.

Additionally, the visiting committee noted the current clinical monitoring systems may not allow for optimal efficiency to ensure the maximum amount of time for class preparation, student

evaluation and counseling, development of subject content and appropriate evaluation criteria and methods, program development and review, and professional development. It is suggested that the program review the existing monitoring system and revise as needed.

Accreditation Status

At its July 31, 2014 meeting the Commission on Dental Accreditation adopted a resolution to continue the accreditation status of “approval without reporting requirements” for the dental hygiene program offered by the Northampton Community College.

Publication of Accreditation

The Commission has authorized use of the following statement by institutions or programs that wish to announce their programmatic accreditation by the Commission. Programs that wish to advertise the specific programmatic accreditation status granted by the Commission may include that information as indicated in *italics* below (see text inside square brackets); that portion of the statement is optional but, if used, must be complete and current.

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Dental Hygiene

Allied Health & Sciences

Degree awarded: Associate in Applied Science

Program Narrative

Dental Hygiene is a rewarding field that offers flexible work schedules and attractive salaries. If you are interested in working directly with clients to help them achieve and maintain optimal oral health, a career in Dental Hygiene could be a great option.

Dental hygienists are licensed oral health professionals who play an essential role in the field of dentistry. Dental hygienists provide a variety of services that prevent, or limit the extent of, cavities and/or gum disease. They also provide educational, clinical and therapeutic services for people of all ages and in every situation. As a licensed hygienist you could have the opportunity to make a difference in the lives of a range of populations, including the medically compromised, mentally or physically challenged, and socially or culturally disadvantaged. While most dental hygienists practice in private dental offices, others provide services in hospitals, private businesses, correctional institutions and a variety of private and public centers.

Northampton's Dental Hygiene program is among the most respected in Pennsylvania. During the two-year program, all pre-clinical and clinical practice occurs in the dental clinic located at the Fowler Family Southside Center campus. Professional hygienists working in the field enhance the hands-on aspects of the clinical portion of the program. The dental hygiene program is competency-based and assesses all clinical and laboratory courses using pass/fail criteria. Students must earn grades of C (75%) or better in all DENH courses to qualify for semester promotion. If you are interested in a higher level of education, Northampton has developed articulation agreements with dental hygiene baccalaureate degree programs to facilitate admissions and the transfer of credits.

Northampton's program in Dental Hygiene is accredited by the Commission on Dental Accreditation. 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. www.ada.org

Program Mission

While upholding the mission and vision of Northampton Community College, the Dental Hygiene program provides excellent, comprehensive learning experiences to prepare students with the knowledge and clinical skills to competently practice as dental hygienists.

Statement of Values

The Dental Hygiene program values:

- **Excellence** - Quality in the educational experiences that we provide
- **Innovation** - Curricular responsiveness to adapt quickly to changes in the profession
- **Sustainability** - Commitment through our professional actions to respond to the institution, the community, the economy and the environment

- **Accountability** - Individual responsibility for his/her actions, growth and development
- **Integrity** - Academic, personal and professional honesty, fairness, ethical conduct and respect for others
- **Engagement** - Involvement in and collaboration with the communities we serve

Program Admissions Requirements

Admission is on a competitive basis. All applicants must submit:

- an application OR a re-entry form
- a change of major form (only if currently enrolled)
- official transcripts (updated copies)
- a completed Career Assessment Form (a new form must be submitted every year)

The minimum admission requirements to the program include:

- Completed high school Biology with a lab component with a grade of B and
- completed high school Chemistry with a lab component with a grade of B (if a candidate did not complete Biology and/or Chemistry with B grades in high school, equivalent courses taken at a post-secondary institution are acceptable substitutes, i.e., NCC CHEM 135 and BIOS 115) and
- an overall high school grade point average (GPA) of 3.0 (B)

The minimum admission requirements to the program for applicants who have completed more than 12 college credits include:

- The most recently completed Biology course with a lab - if completed in high school with a grade of B, or if completed in college, a grade of B minus (i.e., NCC BIOS 115, BIOS 160 or BIOS 204) and
- the most recently completed Chemistry course with a lab - if completed in high school with a grade of B, or if completed in college, a grade of B minus (i.e., NCC CHEM 135) and
- a program-specific college science GPA of 2.70 (possible courses include NCC CHEM 135, BIOS 160 and BIOS 202 only) and
- a cumulative college GPA of 2.70 in all program- specific non-science courses

Meeting the minimum admission requirements does not guarantee admission to the Dental Hygiene program.

Please Note: Students accepted into the Dental Hygiene program will be required to submit results of a criminal background check and Pennsylvania Child and Elder Abuse History Clearance to the program director. Students will also be required to have health insurance, complete a personal medical history, and be certified prior to the start of the semester in First Aid and CPR/BLS of Healthcare Providers.

Deadlines

To receive primary consideration, completed applications must be submitted by February 1. Applications received after this date will be reviewed on a space-available basis.

Contact the Admissions Office at 610-861-5500 for further information.

Program Outcomes

1. Students will be competent as defined by the department document, "Competencies for Entry into the Profession of Dental Hygiene." Students must demonstrate competency in the following:

Core Competencies

- Model professional behavior.
- Adhere to state and federal laws, recommendations and regulations in the provision of dental hygiene care.
- Gather, evaluate and use information effectively.
- Reflect on personal performance through self-assessment.
- Communicate effectively with individuals and groups from diverse populations both verbally and in writing.
- Use evidence-based decision making to evaluate products and existing, emerging therapies.

Health Promotion and Disease Prevention

- Identify risk factors and develop, implement, and evaluate strategies to promote health and prevent disease.
- Utilize methods to ensure the health and safety of the client and the dental hygienist in the delivery of dental hygiene services.

Community Involvement

- Assess the oral health needs of the community and plan, implement and evaluate programs to address those needs.
- Provide community oral health promotion and disease prevention activities in a variety of settings.

Client Care

- Systematically collect, analyze and record data on the general, oral and social health status of a variety of clients to identify risk factors, clients' needs and oral health problems. (Assess)
- Use assessment data and critical decision making skills to reach conclusions about clients' oral health needs. (Diagnose)
- Collaborate with clients and other health professionals to formulate client-centered, comprehensive dental hygiene care plans that are based on current evidence-based practices and that acknowledge clients' informed consent. (Plan)
- Provide specialized treatment that includes preventive and therapeutic services designed to achieve and maintain oral health. (Implement)
- Evaluate the effectiveness of the implemented clinical, preventive and educational services and modify as needed. (Evaluate)

2. Students will be prepared to successfully complete the National Board Dental Hygiene Examination and the North East Regional Board Examination.

3. Students will be satisfied with their dental hygiene education.

4. Clients will be satisfied with dental hygiene services.

Dental Hygiene

Associate in Applied Science Degree

Course Code**Course Title**

Credits

Summer II Session		
CHEM 135	Chemistry of Life	4
ENGL 101C	English I	3
		7
First Semester		
BIOS 160	Human Biology	4
DENH 103	Pre-clinical Preventive Oral Health Services	3
DENH 104	Foundations of Preventive Oral Health Services	4
DENH 105	Oral Histology	1
DENH 106	Oral Anatomy	2
DENH 110	Oral Radiology	2
		16
Second Semester		
BIOS 202	Microbiology for Allied Health	4
DENH 109	Oral Radiology Lab	1
DENH 150	Clinical Preventive Oral Health Services I	3
DENH 152	Preventive Oral Health Services I	2
DENH 153	Periodontology	2
DENH 154	Oral Health Care for Medically Complex Clients and Clients with Special Needs I	1
DENH 155	General and Oral Pathology	2
ENGL 151L	English II (Literature)	3
		18
Summer I Session		
DENH 212	Pharmacology	2
CMTH 102	Speech Communication	3
		5
Third Semester		
DENH 205	Nutrition for the Dental Health Care Provider	2
DENH 206	Local Anesthesia	2
DENH 210	Clinical Preventive Oral Health Services II	4
DENH 211	Preventive Oral Health Services II	3
DENH 220	Community Dental Health I	1
PSYC 103	Introduction to Psychology	3
		15
Fourth Semester		
DENH 240	Community Dental Health II	1
DENH 250	Clinical Preventive Oral Health Services III	4
DENH 251	Preventive Oral Health Services III	2
SOCA 103	Principles of Sociology	3
-----	General Education Elective	3
		13
Total Credits:		74

- For the General Education Elective, students must choose one course from the list of approved courses in one of the following categories: Arts and Humanities (AH); Social Science: Societies and Institutions over Time (SIT).
- The free elective requirement has been waived for this program.
- Computer competencies and writing intensive work are included in various courses in this program. Thus, completing the program automatically satisfies the computing and writing intensive requirements for this program.
- Healthcare Provider CPR and Basic First Aid certifications are required immediately prior to Fall Semester - First Year.
- Students must earn grades of "C" or better in all DENH courses to qualify for semester promotion/graduation.

Career Potential: Public Health Dental Hygiene Practitioner, Dental Sales, Dental Hygiene Instructor, School Hygienist, Registered Dental Hygienist in a general, periodontic, pediatric, prosthodontic and/or orthodontic private practice.

Transfer Potential: Penn College of Technology, West Virginia University, Farmingdale State College, University of Bridgeport, St. Petersburg College

DENH 103 Pre-clinical Preventive Oral Health Services (Cr3) (0:9)

Students begin to work toward achieving client assessment and instrumentation competencies. Restricted to Dental students. Coreq. - DENH 104; Pre- or coreq.- DENH 105 and 106. Additional course fees: \$662.00.

DENH 104 Foundations of Preventive Oral Health Services (Cr4) (4:0)

Infection control procedures, client assessment skills, dental disease prevention, dental materials and instrumentation techniques. Restricted to Dental students. Coreq. - DENH 103; Pre- or coreq. - DENH 105 and 106.

DENH 105 Oral Histology (Cr1) (1:0)

Integration of embryological concepts with the development of the face, neck, oral structures and teeth; correlation of the histological development of the enamel, dentin, pulp, cementum and periodontal ligament with clinical dental considerations and case histories. Restricted to Dental students. Coreq. - DENH 106; Pre- or coreq.- BIOS 160.

DENH 106 Oral Anatomy (Cr2) (2:0)

The differences among the permanent and primary dentitions by comparison of crown and root morphology, eruption patterns and occlusion; detailed head and neck anatomy including osteology, muscles, nerve innervation, and blood supply; client cases to correlate theories with clinical dental hygiene therapy. Restricted to Dental students. Coreq.- DENH 105.

DENH 109 Oral Radiology Lab (Cr1) (0:3)

Application of the knowledge, skills and attitudes necessary to competently expose and process diagnostically acceptable radiographs and to identify radiographic landmarks and radiographic evidence of dental disease processes. Students must demonstrate competent radiographic techniques on mannequins prior to performing supervised client exposures. Restricted to Dental students. Formerly DENX 106. Prereq. - DENH 110. Additional course fees: \$20.00.

DENH 110 Oral Radiology (Cr2) (2:0)

Theories and principles of exposing, processing, mounting, and interpreting dental radiographs; anatomical landmarks and radiographic abnormalities; emphasis on radiation safety principles for both client and operator. Formerly DENX 505, DENX 110. Restricted to Dental students. Pre- or coreq.- DENH 105 and 106. students

DENH 150 Clinical Preventive Oral Health Services I (Cr3) (0:9)

Assessment, diagnosis, planning, implementation and evaluation of dental hygiene therapies for the client with gingivitis and early periodontal disease; continued development of competency in client assessments and instrumentation. Restricted to Dental students. Prereq. - DENH 103, 104, 106 and CPR certification; Coreq.- DENH 109, 152, and 153. Additional course fees: \$65.00.

DENH 152 Preventive Oral Health Services I (Cr2) (2:0)

Foundational knowledge and skills for instrument sharpening, preventing gingivitis and dental caries; non-surgical periodontal therapies; recognizing and managing medical emergencies in the dental office; ethical issues affecting the practice of dental hygiene and dentistry. Restricted to Dental students. Prereq. - DENH 103 and 104; and Coreq. - DENH 150 and 153.

DENH 153 Periodontology (Cr2) (2:0)

The role of periodontal pathogens in relation to systemic diseases and the initiation and progression of gingival and periodontal diseases as they relate to: clinical signs, radiographic signs, microbiologic activity, risk factors, host immune response and pathogenesis and inflammatory response; dental hygiene therapies for gingivitis and early periodontitis. Restricted to Dental students. Prereq. - DENH 103 and 104; Coreq. - DENH 150 and 152.

DENH 154 Oral Health Care for Medically Complex Clients and Clients with Special Needs (Cr1) (1:0)

Develop skills to competently assess, treatment plan and manage clients who present medically complex health histories and/or special needs. Restricted to Dental students. Prereq. - DENH 103 and 104; Coreq. - DENH 150, 152 and 155.

DENH 155 General and Oral Pathology (Cr2) (2:0)

General principles of pathology; the specific etiology and treatment of oral manifestations of local and systemic pathological conditions; emphasis on the histological, clinical, and radiographical appearance of pathological conditions of the oral cavity; application to client assessment during clinical dental hygiene. Restricted to Dental students. Prereq. - DENH 105 and 106.

DENH 205 Nutrition for the Dental Health Care Provider (Cr2) (2:0)

Application of principles of basic nutrition to everyday life with an emphasis on the relationship between nutrition and health and disease; emphasis on the role nutrition plans in oral health; student skills to enable them to recognize nutritionally related dental disease and to provide dietary counseling for the prevention of further progression of the disease. Formerly DENH 145. Restricted to Dental students. Prereq. - CHEM 135.

DENH 206 Local Anesthesia (Cr2) (1.6:0.4)

Study of the anatomical, pharmacological and emergency considerations associated with the administration of local anesthesia in dentistry. Lab experiences prepare dental hygiene students to administer effective and safe infiltration and conduction anesthesia. Restricted to Dental students. Prereq.- DENH 150, 152 and 212; Coreq. - DENH 210.

DENH 210 Clinical Preventive Oral Health Services II (Cr4) (0:12)

Continued development of competency in clinical dental hygiene; emphasis on the assessment, diagnosis, planning, implementation and evaluation of dental hygiene therapies for the client with early-moderate chronic periodontal disease; introduction of new skills: impression taking, study models, ultrasonic scaling, tobacco cessation, tooth whitening and intraoral camera imaging. Restricted to Dental students. Prereq. - DENH 109, 150, 152, 153, 155 and 212; Coreq. - DENH 211. Additional Course fees: \$277.00.

DENH 211 Preventive Oral Health Services II (Cr3) (2:3)

Foundational knowledge and skills for impression taking, study models, tooth whitening, intraoral camera imaging, ultrasonic scaling, tobacco cessation counseling; legal and professional issues affecting the practice of dental hygiene and dentistry; reading the dental literature. Restricted to Dental students. Prereq. - DENH 152 and 153; Coreq. - DENH 210.

DENH 212 Pharmacology (Cr2) (2:0)

A study of properties, actions, reactions, and dosages of drugs. Special emphasis will be placed on drug therapy common to the practice of dental hygiene. Restricted to Dental students. Prereq. - DENH 150.

DENH 220 Community Dental Health I (Cr1) (1:0)

Fundamentals of dental public health and oral epidemiology; introduction to school-based programs, dental health education and teaching methodologies; geriatric dentistry; students are required to participate in community-based dental health activities. Restricted to Dental students.

DENH 240 Community Dental Health II (Cr1) (1:0)

Biostatistics, dental epidemiology and the role of government and dental hygienists in community dental health; application of fundamentals of scientific research methodology and biostatistics to the assessment, planning, implementation and evaluation of a community based dental education program; students continue to participate in community based dental health programs as outlined in DENH 220. Restricted to Dental students. Prereq. - DENH 220.

DENH 250 Clinical Preventive Oral Health Services III (Cr4) (0:12)

Continued practice toward entry-level competency in clinical dental hygiene for a variety of clients; emphasis on providing comprehensive dental hygiene care for periodontally involved clients. Restricted to Dental students. Prereq. - DENH 205, 210, 211. Additional course fees: \$30.00.

DENH 251 Preventive Oral Health Services III (Cr2) (2:0)

Assessment, diagnosis, planning, implementation and evaluation of therapies indicated for moderate to advanced periodontal disease; dental implants; amalgam finishing and polishing; ergonomics; lasers; discussion of professional issues and responsibilities of the dental hygienist. Restricted to Dental students. Prereq. - DENH 211 and Coreq; - DENH 250. Course numbers ending with G are Writing Intensive (WI).

DENH 291 Special Studies in Dental Hygiene (Cr1)

See statement on Special Studies. Offered on demand. Restricted to Dental students.

DENH 292 Special Studies in Dental Hygiene (Cr2)

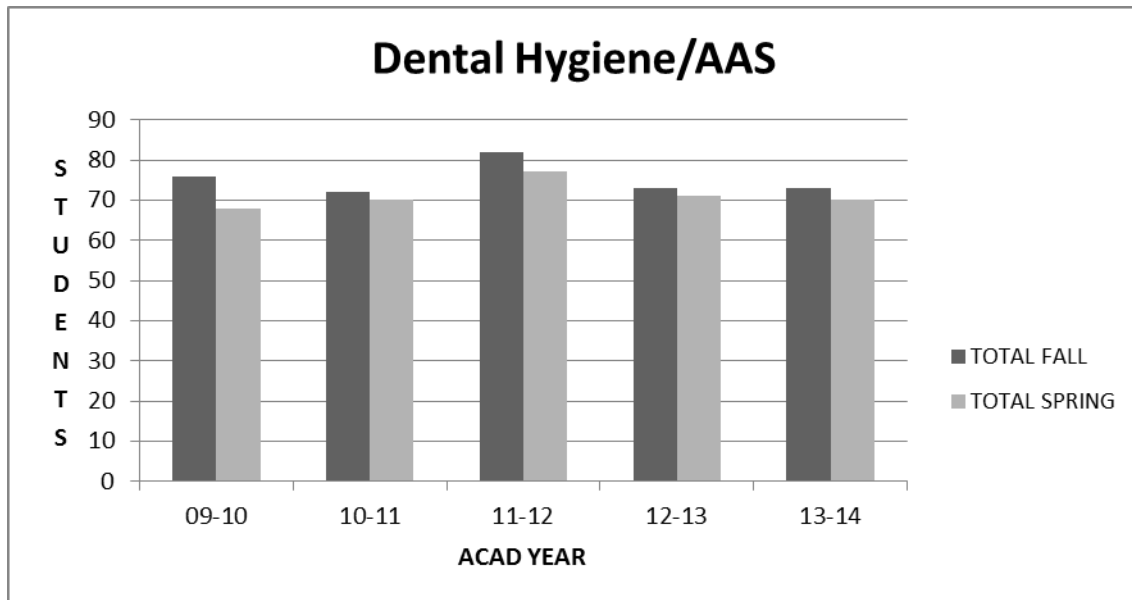
See statement on Special Studies. Offered on demand. Restricted to Dental students.

DENH 293 Special Studies in Dental Hygiene (Cr3)

See statement on Special Studies. Offered on demand. Restricted to Dental

NORTHAMPTON COMMUNITY COLLEGE								
ACADEMIC AUDIT FINANCIAL DATA								
2013-14								
Dental Hygiene Degree								
Program Income								
FY	Program Cr. Hours	Program FTEs	Tuition Income	Local Reimb.	Operating Reimb.	Stipend Reimb.	Total Income	Income/ FTE
2010	1,839	72.37	249,609	42,844	76,743	\$ 52,741	421,937	5,830
2011	1,840	72.80	258,648	44,115	77,428	\$ 52,944	433,135	5,950
2012	1,780	70.56	262,749	44,168	78,341	\$ 53,881	439,139	6,224
2013	1,748	69.16	271,950	46,409	102,866	\$ -	421,225	6,090
2014	1,814	70.56	303,077	48,831	85,957	\$ 58,129	495,994	7,029
Program Costs								
FY	Direct Costs	Indirect Costs	Total Costs	Total FY FTEs	Cost/ FTE	Rank	Inst. Avg. Cost/FTE	
2010	677,020	160,561	837,581	72.37	11,573	1 of 77	4,766	
2011	681,070	166,338	847,408	72.80	11,641	2 of 74	4,906	
2012	717,295	167,541	884,836	70.56	12,541	1 of 71	5,182	
2013	700,645	172,178	872,823	69.16	12,620	2 of 66	5,430	
2014	709,270	188,926	898,196	70.56	12,729	3 of 122	5,730	
INCOME FACTORS								
FY	Tuition, Compr.& Tech. Fee/Cr.Hr.	Local FTE Reimb.	State FTE Operating Reimb.	Act 173 FTE Stipend Reimb.	Indirect Cost/ Cr. Hour	Average Cr. Hour/ FTE		
	Per Fte	Per Fte	Per Fte					
2010	3,449	592	1,060	701 HP 729 HP/HC	87.31	25.411		
2011	3,553	606	1,064	699 HP 727 HP/HC	90.40	25.2757		
2012	3,724	626	1,110	734 HP 764 HPHC	94.12	25.2283		
2013	3,932	671	1,487		98.50	25.2735		
2014	4,295	692	1,218	792 HP 824 HPHC	104.15	25.7068		

Dental Hygiene/AAS DNHD	TOTAL ENROLLMENT					
	ACAD YR	09-10	10-11	11-12	12-13	13-14
FALL						
FULL-TIME		50	69	75	66	69
PART-TIME		26	3	7	7	4
TOTAL FALL		76	72	82	73	73
SPRING						
FULL-TIME		25	27	13	17	19
PART-TIME		43	43	64	54	51
TOTAL SPRING		68	70	77	71	70



Appendix E

Dental Hygiene	Aug. '08	Aug. '09	Aug. '10	Aug. '11	Aug. '12	Aug. '13
	Dec. '08	Dec. '09	Dec. '10	Dec. '11	Dec. '12	Dec. '13
	May '09	May '10	May '11	May '12	May '13	May '14
# of Graduates	33	34	26	38	30	
employed	16	22	19	25	18	
job hunting	6	4	1	5	8	
continuing ed.	0	1	2	1	0	
other	11	7	4	7	4	
Employed Graduates	16	22	19	25	18	
Additional Data Not Avail.	—	—	—	—	—	—
related	16	20	17	21	12	
unrelated	0	2	2	3	4	
unrelated by choice	0	0	0	1	2	
Median starting salary (if >2 reported)	\$29.00	\$26.50	—	\$28.00	\$28.00	—