

Course Number and Title: DHY 213 Advanced Clinical Techniques

Campus Location:

Dover, Wilmington

Effective Date:

2021-51

Prerequisite:

DHY 141

Co-Requisites:

none

Course Credits and Hours:

3.00 credits

2.00 lecture hours/week

2.00 lab hours/week

Course Description:

This course covers additional clinical techniques, building on skills introduced in radiography, periodontology, and previous clinical courses. The laboratory methods supplement the lecture portion and include skills related to oral radiography, periodontology, and clinical dental hygiene practice.

Required Text(s):

Obtain current textbook information by viewing the [campus bookstore - https://www.dtcc.edu/bookstores](https://www.dtcc.edu/bookstores) online or visit a campus bookstore. Check your course schedule for the course number and section.

Additional Materials:

Dental Hygiene Policy and Procedures Manual

Allied Health/Science Department Program Student Policy Manual

Schedule Type:

Classroom Course

Disclaimer:

None

Core Course Performance Objectives (CCPOs):

1. Examine the applications of extraoral and other radiographic techniques. (CCC 1, 2, 5, 6; PGC 1)
2. Demonstrate the proper technique for exposing and mounting digital radiographs/images. (CCC 1, 2, 3, 4, 6; PGC 1, 2, 3, 4, 5, 6)
3. Assess dental radiographs/images in terms of diagnostic quality and findings. (CCC 1, 2, 3, 5, 6; PGC 1, 4, 5, 6)
4. Apply the selection criteria and techniques for the following in the laboratory setting: advanced instrumentation, air-powder polishing, amalgam maintenance, and intraoral photography. (CCC 1, 2, 3, 4, 6; PGC 1, 3, 4, 5, 6)
5. Discuss the clinical application of surgical periodontal therapy and dental implants. (CCC 1, 2, 3, 4, 5, 6; PGC 1, 3, 5, 6)
6. Relate oral health counseling to disease prevention. (CCC 1, 2, 3, 4, 5, 6; PGC 1, 2, 4, 5, 6)

See Core Curriculum Competencies and Program Graduate Competencies at the end of the syllabus. CCPOs are linked to every competency they develop.

Measurable Performance Objectives (MPOs):

Upon completion of this course, the student will:

1. Examine the applications of extraoral and other radiographic techniques.
 1. Describe extraoral radiographs commonly used in dentistry, and explain their indications.
 2. Explain the principles for exposing panoramic radiographs/radiographic images.
 3. Discuss the advantages and limitations of the panoramic survey.
 4. Identify normal anatomic landmarks on panoramic radiographs/radiographic images.
 5. Identify technique and positioning errors in panoramic radiographs/radiographic images.
 6. Discuss how to correct errors identified in panoramic radiographs/radiographic images.
 7. Distinguish paralleling and bisecting angle radiographic techniques.
 8. Explain the principles employed in the buccal object rule localization technique.
2. Demonstrate the proper technique for exposing and mounting digital radiographs/images.
 1. Demonstrate patient positioning to obtain an optimal panoramic image.
 2. Demonstrate the proper storage, maintenance, and utilization of radiographic equipment and supplies.
 3. Apply the bisecting angle technique when exposing dental radiographs/radiographic images.
 4. Demonstrate proper technique in mounting radiographs/radiographic images.
 5. Employ safe radiation practices and infection control procedures when exposing radiographs/radiographic images.
 6. Summarize information regarding radiographic exposure in the patient record.
 7. Demonstrate appropriate patient communication and management skills during radiographic exposure.
 8. Employ the buccal object rule localization technique on DXTR.
3. Assess dental radiographs/images in terms of diagnostic quality and findings.
 1. Identify normal anatomic landmarks on radiographs/radiographic images.
 2. Evaluate radiographs/radiographic images for exposure, technique, and mounting errors.
 3. Identify restorations, dental materials, and foreign objects on radiographs/radiographic images.
 4. Interpret radiographs/radiographic images for normal variants, dental caries, periodontal disease, periapical lesions, and other pathologic conditions.
4. Apply the selection criteria and techniques for the following in the laboratory setting: advanced instrumentation, air-powder polishing, amalgam maintenance, and intraoral photography.
 1. Demonstrate the use of scaling instruments indicated for nonsurgical periodontal therapy.
 2. Discuss the indications, contraindications, advantages, and disadvantages of air-powder polishing and the piezo ultrasonic scaler.
 3. Use and maintain the air powder polisher and the piezo ultrasonic scaler.
 4. Demonstrate the correct technique for finishing and polishing an amalgam restoration.
 5. Demonstrate the use of an intraoral camera to expose the various intraoral photographic views and properly maintain the equipment.
5. Discuss the clinical application of surgical periodontal therapy and dental implants.
 1. Discuss the various methods of pain control used in dentistry.
 2. Discuss the special considerations pertaining to maintenance therapy of patients with dental implants.
 3. Discuss the role of laser therapy in dentistry and dental hygiene.
 4. Define surgical procedures employed in periodontal therapy.
 5. State the rationale for suture placement and periodontal dressing application following periodontal surgery.
 6. Summarize in writing an observation of periodontal surgery by a periodontist.
6. Relate oral health counseling to disease prevention.
 1. Discuss the role diet and nutrition play in dental health.
 2. Discuss the factors placing patients at a higher risk for dental disease.
 3. Prepare an oral health counseling for a patient.

Evaluation Criteria/Policies:

The grade will be determined using the Delaware Tech grading system:

90	-	100	=	A
80	-	89	=	B
70	-	79	=	C
0	-	69	=	F

Students should refer to the [Student Handbook - https://www.dtcc.edu/handbook](https://www.dtcc.edu/handbook) for information on the Academic Standing Policy, the Academic Integrity Policy, Student Rights and Responsibilities, and other policies relevant to their academic progress.

Core Curriculum Competencies (CCCs are the competencies every graduate will develop):

1. Apply clear and effective communication skills.
2. Use critical thinking to solve problems.
3. Collaborate to achieve a common goal.
4. Demonstrate professional and ethical conduct.
5. Use information literacy for effective vocational and/or academic research.
6. Apply quantitative reasoning and/or scientific inquiry to solve practical problems.

Program Graduate Competencies (PGCs are the competencies every graduate will develop specific to his or her major):

1. Collect and analyze baseline data in a critical and scientific manner regarding the patient's health status to determine dental hygiene treatment needs.
2. Utilizing professional communication skills and behaviors, initiate and responsibly advocate health care promotion and disease prevention for diverse populations.
3. Provide dental hygiene care in a safe manner.
4. Utilizing self-assessment skills, evaluate clinical performance and the effectiveness of dental hygiene treatment.
5. Accurately document information related to dental hygiene care through proper record keeping.
6. Recognize and manage the professional and ethical issues of dental hygiene practice in a dynamic environment.

Disabilities Support Statement:

The College is committed to providing reasonable accommodations for students with disabilities. Students are encouraged to schedule an appointment with the campus Disabilities Support Counselor to request an accommodation needed due to a disability. A listing of campus Disabilities Support Counselors and contact information can be found at the [disabilities services - https://www.dtcc.edu/disabilitysupport](https://www.dtcc.edu/disabilitysupport) web page or visit the campus Advising Center.