



**DHYG 1090 Radiology Lab
COURSE SYLLABUS
Spring Semester 2018**

COURSE INFORMATION

Credit Hours/Minutes: 1 semester credit hour and 1500 contact minutes
Class Location: Health Sciences Annex C, Clinic
Class Meets: Monday 8:00-12:30 (March 6-May 3)
Course Reference Number (CRN): 40206

INSTRUCTOR CONTACT INFORMATION

Course Director: Jennifer M. Gramiak, RDH, EdD
Additional Instructor: Lori DeFore, RDH, BS
Office Location: Health Sciences Annex C, Office 908
Office Hours: Monday 1:00-4:00, Tuesday 1:00-4:00, and Wednesday 8:00-12:00
Email Address: [Jennifer Gramiak \(jgramiak@southeasterntech.edu\)](mailto:jgramiak@southeasterntech.edu)
Phone: 912-538-3210
Fax Number: 912-538-3278

SOUTHEASTERN TECHNICAL COLLEGE'S (STC) CATALOG AND STUDENT HANDBOOK

Students are responsible for all policies and procedures and all other information included in Southeastern Technical College's [Catalog and Student Handbook \(http://www.southeasterntech.edu/student-affairs/catalog-handbook.php\)](http://www.southeasterntech.edu/student-affairs/catalog-handbook.php)

REQUIRED TEXT

Essentials of Dental Radiography for Dental Assistants and Hygienists. Tenth edition. Pearson.
STC Dental Hygiene Clinic Manual and Handbook.
Center for Disease Control (CDC) Guidelines: From Policy to Practice. Organization for Safety, Asepsis, and Prevention (OSAP).

REQUIRED SUPPLIES

Pen, pencil, paper, highlighter, jump drive, clinical supplies, radiology film/sensor holder, and bite blocks.

COURSE DESCRIPTION

This course emphasizes the application of radiology principles in the study of the teeth and their surrounding structures. Topics include: radiation safety, radiographic quality assurance, imaging theory, radiographic interpretation, radiographic need, and digital radiography principles and techniques.

MAJOR COURSE COMPETENCIES (CC)

1. Radiation Safety
2. Radiographic Quality Assurance

3. Imaging Theory
4. Radiographic Interpretation
5. Radiographic Need
6. Digital Radiography Principles and Techniques

PREREQUISITE(S)

Program Admission and DHYG 1020 Head and Neck Anatomy

GENERAL EDUCATION CORE COMPETENCIES (GC)

Southeastern Technical College has identified the following general education core competencies that graduates will attain:

- a. The ability to utilize standard written English.
- b. The ability to solve practical mathematical problems.
- c. The ability to read, analyze, and interpret information.

STUDENT REQUIREMENTS

If a student believes she may be pregnant, she must notify the instructor ASAP. A fetal badge monitor must be ordered prior to the student exposing any radiographs. Students are responsible for policies and procedures in the catalog and student handbook on the STC website, Dental Hygiene Program Handbook, and Dental Hygiene Program Clinic Manual. During the clinic session, the students are required to place all textbooks (unless otherwise stated by the instructor) and personal property in their designated lockers. Students should have the designated items used for the clinic procedures. Students should be in clinical attire for all clinical lab sessions. Students are required to obtain any student study materials from the DHYG 1070 and DHYG 1090 folders on the Materials Drive. Print any materials available to be used in this class. Students are advised to check their emails regularly for any additional information that is related to the class or the dental hygiene program. Additional Clinic/Lab time, outside of class, may be necessary in this course to be successful with radiographic identification exercises and remediation of radiographic skills. Tuesday afternoons and Thursdays are designated sessions for extra practice, remediation, and for skill evaluations that were not completed during the regularly scheduled lab sessions. Radiology machines and digital sensors may not be used without direct supervision of the instructor.

Students are expected to exhibit professional behavior at all times. Each student must show respect and concern for fellow students and for the course instructors/supervising dentists. Insubordination will not be tolerated, and disciplinary measures will be enforced. No cell phones or smart electronic devices are allowed to be turned on in the classroom, clinic, or locker area. If a student is observed in possession of his/her cell phone or smart electronic device during radiology lab, a critical incident will be issued. If you have a personal situation going on, please advise your instructor and give your family the clinic receptionist's phone number for emergency contact. You should not have your cell phone or smart electronic device in the clinic! Personal phone calls must be handled after class.

The student must utilize all time in the clinic. Talking with peers is not permitted in the clinical area unless permission is given by the instructor. This includes set up and break down time. Idle time is prohibited. If a student does not utilize clinical time for skills development and practice of techniques in dental hygiene, a minimum of 1 point will be deducted each day from the final course grade for professional development infractions. The computers in the clinical area are to be used for no other purpose than dental hygiene instruction.

Each operatory will be inspected for organization and cleanliness. All personal items and things not needed for the lab/clinic should be stored away in the lockers. Time management and preparation are two key elements in any dental hygiene clinical session. The student must have all materials that are required for that clinical lab session.

Students will be responsible for securing a live patient for the panoramic (pan) skill evaluation. The dentist must approve the treatment plan indicating that the patient needs a pan.

Prior to demonstration and practice in each laboratory session, the student is expected to complete the following assignments in order to adequately prepare and utilize laboratory time:

- Study the applicable DHYG 1070 lecture material.
- Know how to apply the DHYG 1070 lecture material to the clinical setting.

Two instructors will be present in radiology lab. Students will be divided into two groups:

- Group A= students whose last name starts with letters A- P.
- Group B = students whose last name starts with letters Q-Z.

Refer to lesson plan in preparation for your group's weekly assignments and skill evaluations. The instructor for each group will demonstrate the assigned radiology technique to the group. Students will practice the technique. Then, students will notify their instructor when they are ready to attempt a skill evaluation. Prior to practicing radiographs or attempting a skill evaluation, the student must document the radiologic exposure in the exposure log. The student must have a gradesheet and radiographic interpretation form filled out and present in the operatory.

ATTENDANCE GUIDELINES

Class attendance is a very important aspect of a student's success. Being absent from class prevents students from receiving the full benefit of a course and interrupts the learning process. Southeastern Technical College considers both tardiness and leaving early as types of absenteeism. Responsibility for class attendance rests with the student. Regular and punctual attendance at all scheduled classes is required for student success. Students will be expected to complete all work required by the instructor as described in the individual course syllabus. Students who stop attending class, but do not formally withdraw, may receive a final grade of "F" (Failing 0-59) and face financial aid repercussions in upcoming semesters.

ADDITIONAL ATTENDANCE GUIDELINES FOR HEALTH SCIENCES

Requirements for instructional hours within Health Science programs reflect the rules of respective licensure boards and/or accrediting agencies. Therefore, these programs have stringent attendance policies. Each program's attendance policy is published in the program's handbook and/or syllabus which specify the number of allowable absences. All provisions for required make-up work in the classroom or clinical experiences are at the discretion of the instructor.

DENTAL HYGIENE CLINICAL ATTENDANCE GUIDELINES

Clinic begins promptly at the scheduled time. Any clinical time missed must be made up. Make up time is limited this semester. A student with an excused absence may receive an incomplete "I" in the course. The student will not be able to progress to the next semester until the clinical time is made up. If a student is more than 30 minutes late or leaves more than 30 minutes early, that clinical time must be made up.

The Commission on Dental Accreditation (CODA) mandates a designated number of clinical hours per semester for each student. Failure to achieve the mandated clinical hours will result in a final grade of "F"

(Failing 0-59) in the course. Only excused absences will be made up due to the limited time available for makeup sessions. Each clinic session builds upon previous sessions. Therefore, missing one session could interfere with clinical learning. Excused absences will be evaluated on a case-by-case basis by the program director. Examples of excused absences would be a car accident on the way to clinic or unexpected hospitalization of the student. Please do not plan a vacation or schedule a routine medical/dental appointment during the designated clinical times. Unexcused absences will not be made up and will lead to a final grade of "F" in the course. A doctor's excuse will be required for any clinical absences related to illness experienced by the student.

Attendance is counted from the first scheduled class meeting of each semester. To receive credit for a course, a student must attend at least 90% of the scheduled instructional time. Time and/or work missed due to tardiness or absences must be made up at the convenience of the instructor. Any student attending less than the required scheduled instructional time (90%) may be dropped from the course as stated below in the Withdrawal Procedure.

Tardy means arriving after the scheduled time for instruction to begin. Early departure means leaving before the end of the scheduled time. Three (3) tardies or early departures equal one (1) absence for the course.

For this class, which meets 1 session per week for 8 weeks, the maximum number of sessions a student may miss for attendance purposes is 1 session during the semester. Each session missed will have to be made up at the end of the semester.

SPECIFIC ABSENCES

Provisions for Instructional Time missed because of documented absences due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

WITHDRAWAL PROCEDURE

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% portion of the semester (date will be posted on the school calendar) must speak with a Career Counselor in Student Affairs and complete a Student Withdrawal Form. A grade of "W" (Withdrawn) is assigned when the student completes the withdrawal form from the course.

Students who are dropped from courses due to attendance (see your course syllabus for attendance policy) after drop/add until the 65% point of the semester will receive a "W" for the course. Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of "F" being assigned.

After the 65% portion of the semester, the student will receive a grade for the course. (Please note: A grade of "0" will be given for all missed assignments.)

There is no refund for partial reduction of hours. Withdrawals may affect students' eligibility for financial aid for the current semester and in the future, so a student must speak with a representative of the Financial Aid Office to determine any financial penalties that may be assessed due to the withdrawal. All grades, including grades of "W", will count in attempted hour calculations for the purpose of Financial Aid.

Remember - Informing your instructor that you will not return to his/her course does not satisfy the approved withdrawal procedure outlined above.

MAKEUP GUIDELINES (TESTS, QUIZZES, HOMEWORK, PROJECTS, ETC.)

Any clinical session missed must be made up at the end of the semester in order to achieve the required

number of clinical hours for CODA. Failure to do so may result in program dismissal. It is the responsibility of the student to get with the course director to make arrangements to makeup a missed clinical session. All assigned clinical requirements must be finished at the completion of the required clinical hours. Failure to achieve these requirements will result in a final course grade of "F". Only excused absences will be made up. Excused absences are at the discretion of the program director. See "Specific Absences" heading and "Dental Hygiene Clinical Attendance Guidelines" heading above for more details.

SPECIAL NEEDS

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, to coordinate reasonable accommodations.

PREGNANCY

Southeastern Technical College does not discriminate on the basis of pregnancy. However, we can offer accommodations to students who are pregnant that need special consideration to successfully complete the course. If you think you will need accommodations due to pregnancy, please advise me and make appropriate arrangements with [Helen Thomas \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126.

ACADEMIC DISHONESTY POLICY

The Southeastern Technical College Academic Dishonesty Policy states that all forms of academic dishonesty, including but not limited to cheating on tests, plagiarism, collusion, and falsification of information, will call for discipline. The policy can also be found in the Southeastern Technical College Catalog and Student Handbook.

PROCEDURE FOR ACADEMIC MISCONDUCT

The procedure for dealing with academic misconduct and dishonesty is as follows:

1. First Offense

Student will be assigned a grade of "0" for the test or assignment. Instructor keeps a record in course/program files and notes as first offense. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus. The Registrar will input the incident into Banner for tracking purposes.

2. Second Offense

Student is given a grade of "WF" (Withdrawn Failing) for the course in which offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of second offense. The Registrar will input the incident into Banner for tracking purposes.

3. Third Offense

Student is given a grade of "WF" for the course in which the offense occurs. The instructor will notify the student's program advisor, academic dean, and the Registrar at the student's home campus indicating a "WF" has been issued as a result of third offense. The Vice President for Student Affairs, or designee, will notify the student of suspension from college for a specified period of time. The Registrar will input the incident into Banner for tracking purposes.

STATEMENT OF NON-DISCRIMINATION

The Technical College System of Georgia and its constituent Technical Colleges do not discriminate on the basis of race, color, creed, national or ethnic origin, sex, religion, disability, age, political affiliation or belief, genetic information, disabled veteran, veteran of the Vietnam Era, spouse of military member or citizenship status (except in those special circumstances permitted or mandated by law). This school is in compliance with

Title VI of the Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, or national origin; with the provisions of Title IX of the Educational Amendments of 1972, which prohibits discrimination on the basis of gender; with the provisions of Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of handicap; and with the American with Disabilities Act (ADA).

The following individuals have been designated to handle inquiries regarding the nondiscrimination policies:

<p>American With Disabilities Act (ADA)/Section 504 - Equity- Title IX (Students) – Office of Civil Rights (OCR) Compliance Officer</p>	<p>Title VI - Title IX (Employees) – Equal Employment Opportunity Commission (EEOC) Officer</p>
<p>Helen Thomas, Special Needs Specialist Vidalia Campus 3001 East 1st Street, Vidalia Office 108 Phone: 912-538-3126 Email: Helen Thomas hthomas@southeasterntech.edu</p>	<p>Blythe Wilcox, Director of Human Resources Vidalia Campus 3001 East 1st Street, Vidalia Office 138B Phone: 912-538-3147 Email: Blythe Wilcox bwilcox@southeasterntech.edu</p>

ACCESSIBILITY STATEMENT

Southeastern Technical College is committed to making course content accessible to individuals to comply with the requirements of Section 508 of the Rehabilitation Act of Americans with Disabilities Act (ADA). If you find a problem that prevents access, please contact the course instructor.

GRIEVANCE PROCEDURES

Grievance procedures can be found in the Catalog and Handbook located on Southeastern Technical College’s website.

ACCESS TO TECHNOLOGY

Students can now access Blackboard, Remote Lab Access, Student Email, Library Databases (Galileo), and BannerWeb via the mySTC portal or by clicking the Current Students link on the [Southeastern Technical College \(STC\) Website \(www.southeasterntech.edu\)](http://www.southeasterntech.edu).

TECHNICAL COLLEGE SYSTEM OF GEORGIA (TCSG) GUARANTEE/WARRANTY STATEMENT

The Technical College System of Georgia guarantees employers that graduates of State Technical Colleges shall possess skills and knowledge as prescribed by State Curriculum Standards. Should any graduate employee within two years of graduation be deemed lacking in said skills, that student shall be retrained in any State Technical College at no charge for instructional costs to either the student or the employer.

INSTRUCTIONAL DELIVERY METHODS

The following methods may be utilized to facilitate learning: Instructor-student demonstrations, PowerPoint presentations with handouts, multimedia presentations to include CD-ROM, group discussions, independent reading assignments, independent scientific periodical review, interactive websites, independent research, group collaboration, and skill evaluations. Radiographs will be exposed on manikins, developed, correctly mounted, and interpreted to aid in the oral diagnostic process. After students have achieved the required competency level on manikins, the students will progress to live clinical experiences.

SELF-ASSESSMENT MODULES

Several self-assessment modules are present in the bin in the dark room. These radiographic identification exercises test your ability to recognize normal and abnormal anatomy, processing errors, and exposure errors in both intraoral and extraoral images. Mounting exercises are also located in the bin. If you have idle time at any point in radiology lab, you are expected to complete as many self-assessment modules as possible. Idle time could result while you are waiting on an instructor check, processor, sensor, manikin, etc. After completion of each module, give your handwritten answers to the course director. At the completion of the course, you should have completed each self-assessment module.

EVALUATION PROCEDURES

Prior to enrolling in this course, students must achieve a grade of “C” or higher in DHYG 1070 Radiology Lecture. Students must achieve a final course grade of “C” or higher to progress in the program. Students are required to complete 10 Skill Evaluations. Each skill evaluation is worth 100 points.

The clinical instructors will rotate at 10 minute intervals after a technique has been introduced to ensure each student has adequate hands on instruction in radiology techniques acquired in this lab. The student must utilize all time in the lab. Talking is not permitted in the clinical area unless permission is given by the instructor. No talking during set up and break down time. Idle time is prohibited. If a student does not utilize clinical time for skills development and practice of radiology techniques in dental hygiene, a minimum of 1 point will be deducted each day from the final grade for clinic conduct infractions. If a student is waiting for the dark room or x-ray unit, he/she should utilize time by practicing mounting exercises or reviewing radiographic identification exercises. The computers in the clinical area are to be used for dental hygiene instructional purposes only.

The dental hygiene clinical sessions will start at the designated time on the syllabus. Students will set up the work area and be seated in the operator’s position at the beginning of each clinical day. The instructor will not wait on a student to get ready for clinic. All personal items and things not needed for the lab should be stored away in the lockers. Points will be deducted from the student’s final course grade as a result of not being “set-up” and ready to begin clinical at the appropriate time. Time management and preparation are two key elements in any dental hygiene clinical session. The student must have all materials that are required for that clinical lab.

The following skill evaluations must be completed at 100% competency level:

- Radiology Sequence of Care Skill Evaluation
- Panorol Simulation Skill Evaluation.

Two attempts will be allowed to achieve the 100% competency level. If the student fails to achieve 100% after the first attempt, the student will enter into remediation with the instructor. After remediation is completed, the student will try to achieve 100% competency level as a final (second) attempt. Failure to obtain 100% competency level after the final (second) attempt will result in withdrawal from the course and the program. The student must complete the Panorol Simulation Skill Evaluation at 100% competency level before exposing a panorol image on a live patient.

The following skill evaluations must be completed at 80% competency level:

- Panorol Film Live Adult Patient Skill Evaluation
- Occlusal (OCC) Film Pedo Manikin Skill Evaluation
- Horizontal Bitewings (HBW) Film Pedo Manikin Skill Evaluation
- Horizontal Bitewings Film Adult Manikin Skill Evaluation
- Horizontal Bitewings Digital Adult Manikin Skill Evaluation

- Horizontal Bitewings Digital Pedo Manikin Skill Evaluation
- Vertical Bitewings (VBW) Digital Adult Manikin Skill Evaluation
- Full Mouth Series (FMS) Digital Adult Manikin Skill Evaluation

The student will get two attempts to achieve 80% competency level. If the student fails to achieve 80% after the first attempt, the student will enter into remediation with the instructor. After remediation is completed, the student will try to achieve 80% competency level as a final (second) attempt. Failure to obtain 80% competency level after the final (second) attempt will result in withdrawal from the course and the program. Radiology Skill Evaluations must be completed on a manikin at 80% competency before the student will be able to progress to live patient care.

Bottom Line = If you do not complete all skill evaluations at the required competency level and within the specified timeframe, you will receive a final grade of “F” in this course regardless of your numerical course grade.

GRADING SCALE

Letter Grade	Range
A	90-100
B	80-89
C	70-79
D	60-69
F	0-59

GRADING POLICY

Assessment/Assignment	Percentage
Radiology Sequence of Care Skill Evaluation-100% competency level	10%
Panoral Simulation Skill Evaluation-100% competency level	10%
Panoral Film Live Adult Patient Skill Evaluation-80% competency level	15%
Occlusal Film Pedo Manikin Skill Evaluation-80% competency level	5%
Horizontal Bitewings Film Pedo Manikin Skill Evaluation-80% competency level	5%
Horizontal Bitewings Film Adult Manikin Skill Evaluation-80% competency level	5%
Horizontal Bitewings Digital Adult Manikin Skill Evaluation-80% competency level	10%
Horizontal Bitewings Digital Pedo Manikin Skill Evaluation-80% competency level	10%
Vertical Bitewings Digital Adult Manikin Skill Evaluation-80% competency level	10%
Full Mouth Series Digital Adult Manikin Skill Evaluation-80% competency level	20%

CALCULATION OF FINAL COURSE GRADE

Evaluation Item	Grade	(X) %	Points
Radiology Sequence of Care Skill Evaluation		.10	
Panoral Simulation Skill Evaluation		.10	
Panoral Film Live Adult Patient Skill Evaluation		.15	
Occlusal Film Pedo Manikin Skill Evaluation		.05	
Horizontal Bitewings Film Pedo Manikin Skill Evaluation		.05	
Horizontal Bitewings Film Adult Manikin Skill Evaluation		.05	
Horizontal Bitewings Digital Adult Manikin Skill Evaluation		.10	
Horizontal Bitewings Digital Pedo Manikin Skill Evaluation		.10	

Evaluation Item	Grade	(X) %	Points
Vertical Bitewings Digital Adult Manikin Skill Evaluation		.10	
Full Mouth Series Digital Adult Manikin Skill Evaluation		.20	
- Point Deductions for late/incomplete assignments			
Subtotal			
Final Course Grade			

DENTAL HYGIENE PROGRAM GOALS

- A. To provide comprehensive preparation of competent individuals in the arts and sciences pertinent to the discipline of dental hygiene.
- B. To provide comprehensive preparation of competent individuals in the clinical and laboratory experiences, which are necessary to develop skills in rendering professional dental hygiene patient care to the public.
- C. To provide an environment that will foster respect for the Dental Hygiene Professional Code of Ethics and Conduct and assure recognition and acceptance of the responsibilities of the profession of dental hygiene.
- D. To prepare the graduates of the basic two-year curriculum in dental hygiene to fulfill the dental hygienist's role in community oral health services.
- E. To teach students to conduct critical reviews of current literature as a means of research and life-long learning.
- F. To teach students to seek life-long learning through continuing education courses on the latest products and developments in dentistry and medicine.

Instructional Objectives

After studying the assigned chapter(s), students will be able to complete the following tasks:

- 1. The student will perform all clinic radiology procedures as outlined in the radiology section of the clinic manual. (A, B, C, D, F)
- 2. The student will be able to turn on, operate, adjust settings, and turn off the progeny intraoral radiology machines. (A, B, C, D, F)
- 3. The student will be able to disinfect and prepare the progeny intraoral radiology machines for patient care. (A, B, C, D, F)
- 4. The student will be able to disinfect and close down the progeny intraoral radiology machines after patient care. (A, B, C, D, F)
- 5. The student will be able to document all radiographs in the radiology exposure logbook. (A, B, C, D, F)
- 6. The student will be able to expose a radiograph using the stepwedge in preparation for the stepwedge quality control procedure. (A, B, C, D, F)
- 7. The student will be able to turn on the film processor and check the chemistry levels of the processor. (A, B, C, D, F)
- 8. The student will be able to turn on/off the water supply valve to the film processor. (A, B, C, D, F)
- 9. After the processor has reached the required temperature, the student will be able to process a cleaning film through the film processor. (A, B, C, D, F)
- 10. The student will be able to process a stepwedge film through the film processor. (A, B, C, D, F)
- 11. The student will be able to mount the stepwedge so that it can be used for comparison with other stepwedges. (A, B, C, D, F)
- 12. The student will be able to conduct a coin test and interpret the results of the coin test quality control procedure. (A, B, C, D, F)
- 13. The student will be able to mount the coin test and document the results of the coin test quality control procedure. (A, B, C, D, F)
- 14. The student will be able to document radiology equipment maintenance in the logbook. (A, B, C, D, F)
- 15. The student will be able to disinfect the dark room after film processing. (A, B, C, D, F)
- 16. The student will be able to close down the processor at the end of the clinic session. (A, B, C, D, F)
- 17. The student will be able to assist the instructor in cleaning the processor. (A, B, C, D, F)
- 18. The student will be able to process film in safelight conditions. (A, B, C, D, F)
- 19. The student will be able to properly dispose of the foil in designated container. (A, B, C, D, F)

20. The student will utilize radiation protection procedures for the operator and the patient. (A, B, C, D, F)
21. The student will assess the need for radiography for a variety of patient needs and ages. (A, B, C, D, F)
22. The student will follow the As Low As Reasonably Achievable (ALARA) principle when exposing radiographs. (A, B, C, D, F)
23. The student will select and individualize radiographic surveys and film types that are most appropriate for the patient. (A, B, C, D, F)
24. The student will select the proper film based on individual needs of patient. (A, B, C, D, F)
25. The student will demonstrate intraoral exposure techniques for vertical bitewings, horizontal bitewings, occlusal, and periapical radiographs. (A, B, C, D, F)
26. The student will demonstrate proper film processing and handling. (A, B, C, D, F)
27. The student will be able to mount radiographs as outlined in the clinic manual. (A, B, C, D, F)
28. The student will be able to assemble Rinn film holders for film exposures. (A, B, C, D, F)
29. The student will demonstrate proper solution management and disposal. (A, B, C, D, F)
30. The student will demonstrate proper digital radiograph imagery techniques. (A, B, C, D, F)
31. The student will identify the equipment used in digital radiography. (A, B, C, D, F)
32. The student will be able to connect a Schick digital sensor to the computer. (A, B, C, D, F)
33. The student will be able to use Eaglesoft to expose, view, and adjust digital radiographs. (A, B, C, D, F)
34. The student will be able to expose horizontal bitewings and periapical digital radiographs. (A, B, C, D, F)
35. The student will be able to assemble Rinn and/or disposable sensor holders for digital exposures. (A, B, C, D, F)
36. The student will be able to use critical thinking skills to determine if the patient's anatomy indicates that the manufacturer settings of milliampere (mA), kilovolt peak (kVp), or time may need to be adjusted in order to obtain a diagnostic image. (A, B, C, D, F)
37. The student will demonstrate supplemental radiographic techniques for a variety of patient needs. (A, B, C, D, F)
38. The student will adapt radiographic techniques to accommodate patients with difficult anatomical and disabling conditions. (A, B, C, D, F)
39. The student will maintain proper documentation of patient records as outlined in clinic manual. (A, B, C, D, F)
40. The student will be able to disinfect, turn on, operate, and turn off the panoramic machine. (A, B, C, D, F)
41. The student will be able to load the panoramic cassette with film during safelight conditions. (A, B, C, D, F)
42. The student will demonstrate panoramic radiography technique as outlined in clinic manual. (A, B, C, D, F)
43. The student will demonstrate viewing techniques and principles of interpretation. (A, B, C, D, F)
44. The student will define the appearance of normal radiographic landmarks, artifacts, and shadows. (A, B, C, D, F)
45. The student will identify developmental abnormalities found in radiographs. (A, B, C, D, F)
46. The student will identify oral pathology findings pertinent to dental radiography. (A, B, C, D, F)
47. The student will label film mounts and pan films as outlined in clinic manual. (A, B, C, D, F)
48. The student will be able to apply the ethical decision making model to a radiology related ethical dilemma. (A, B, C, D, F)
49. The student will be able to maintain infection control procedures while performing radiology procedures. (A, B, C, D, F)
50. The student will be able to communicate with the instructor to determine if the radiographs are diagnostic. (A, B, C, D, F)

51. The student will be able to communicate with the dentist to discuss radiographic interpretations.
(A,B,C, D, F)

DHYG 1090 Radiology Lab Spring Semester 2018 Lesson Plan

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Monday March 5	Radiology Section of Clinic Manual	First day of class/Introduction to Course—Syllabus, Lesson plan, Rules, Regulations Coverage, and Completion of Forms. Discussion/Demonstration. View log books and review radiographic section of clinic manual. Introduction to dental radiography equipment, infection control, darkroom processor, and the methods of cleaning the processor. Radiation safety, radiographic quality assurance, demonstrate assembly of Rinn and placement. Full Mouth Series (FMS) mounting exercises. Radiographic interpretation. Begin practicing Radiology Sequence of Care Skill Evaluation.	Read Radiology Section of Clinic Manual and practice assembling Rinn. Study Radiology Sequence of Care.	CC 1-6 GC c
Monday March 12	Radiology Section of Clinic Manual	Groups A and B- Radiology Sequence of Care Skill Evaluation.	See Radiology Skill Evaluation Requirements under Evaluation Procedures	CC 1-6 GC c
Monday March 19	Radiology Section of Clinic Manual	DeFore Group A-Panoral Simulation Skill Evaluation and Panoral Skill Evaluation on live patient. Gramiak Group B- Digital Horizontal Bitewings (HBW) adult, Digital HBW pedo, and Digital Vertical Bitewings (VBW) adult.	See Radiology Skill Evaluation Requirements under Evaluation Procedures	CC 1-6 GC c
Monday March 26	Radiology Section of Clinic Manual	DeFore Group A- Film Occlusal pedo and Film HBW pedo. Gramiak Group B- Digital FMS adult.	See Radiology Skill Evaluation Requirements under Evaluation Procedures	CC 1-6 GC c
Monday April 9	Radiology Section of Clinic Manual	DeFore Group A- Film HBW adult. Gramiak Group B- Digital FMS adult.	See Radiology Skill Evaluation Requirements under Evaluation Procedures	CC 1-6 GC c

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Monday April 16	Radiology Section of Clinic Manual	DeFore Group B- Panorol Simulation Skill Evaluation and Panorol Skill Evaluation on live patient. Gramiak Group A- Digital HBW adult, Digital HBW pedo, and Digital VBW adult.	See Radiology Skill Evaluation Requirements under Evaluation Procedures	CC 1-6 GC c
Monday April 23	Radiology Section of Clinic Manual	DeFore Group A- Film Occlusal (adult or pedo) and Film HBW pedo. Gramiak Group B- Digital FMS adult.	See Radiology Skill Evaluation Requirements under Evaluation Procedures	CC 1-6 GC c
Monday April 30	Radiology Section of Clinic Manual	DeFore Group A- Film HBW adult Gramiak Group B- Digital FMS adult.	See Radiology Skill Evaluation Requirements under Evaluation Procedures	CC 1-6 GC c

MAJOR COURSE COMPETENCIES (CC)

1. Radiation Safety
2. Radiographic Quality Assurance
3. Imaging Theory
4. Radiographic Interpretation
5. Radiographic Need
6. Digital Radiography Principles and Techniques

GENERAL EDUCATION CORE COMPETENCIES (GC)

- a. The ability to utilize standard written English.
- b. The ability to solve practical mathematical problems.
- c. The ability to read, analyze, and interpret information.

Please note-Lesson plan and syllabus are subject to change at discretion of instructor.