



RADT 2520 Mammographic Anatomy, Physics and Positioning COURSE SYLLABUS Spring Semester 2020

COURSE INFORMATION

Credit Hours/Minutes: 6/4500

Campus/Class Location: Georgia Virtual Technical Connection (GVTC)/ Blackboard

Class Meets: Via Internet/15 weeks

Course Reference Number (CRN): 40210

Preferred Method of Contact: [Tara Powell \(tpowell@southeasterntech.edu\)](mailto:tpowell@southeasterntech.edu)

INSTRUCTOR CONTACT INFORMATION

Instructor Name: Tara W. Powell, MBA, R.T. (R)(M)(CT), RDMS

Office Location: 714

Office Hours: 1:00 – 5:00 pm Monday, Tuesday, Wednesday

Email Address: [Tara Powell \(tpowell@southeasterntech.edu\)](mailto:tpowell@southeasterntech.edu)

Phone: 912-538-3152

Fax Number: 912-538-3106

Tutoring Hours: By appointment

SOUTHEASTERN TECHNICAL COLLEGE'S (STC) CATALOG AND HANDBOOK

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

REQUIRED TEXT

Mammography & Breast Imaging PREP, 2nd Edition. ISBN: 978-1-259-85945-8

Mammography Examination, Fourth Edition. ISBN: 978-1-259-85943-4

REQUIRED SUPPLIES & SOFTWARE

Pen, pencil, notebook, paper, markers, highlighters, notecards

Note: Although students can use their smart phones and tablets to access their online course(s), exams, discussions, assignments, and other graded activities should be performed on a personal computer. Neither Blackboard nor Georgia Virtual Technical Connection (GVTC) provide technical support for issues relating to the use of a smart phone or tablet so students are advised to not rely on these devices to take an online course.

COURSE DESCRIPTION

The student should have a pre-existing knowledge and skills gained during and entry-level radiography educational experience and reinforced through professional practice. The content in this course is intended to aid technologists in preparing for post primary practice of mammography.

MAJOR COURSE COMPETENCIES

The course provides the student with an overview of the following topics:

1. Breast anatomy and mammography correlation
2. Breast viability and pathology
3. Correlative physical breast assessment
4. Department organization and regulation
5. Equipment
6. Interventional procedures
7. mammography quality management
8. Positioning
9. Sonomammography
10. Technical applications

PREREQUISITE(S)

Applicants must be registered with the ARRT as a radiographer.

COURSE OUTLINE

1. Breast Anatomy and Mammographic Correlation

	Description	Learning Domain	Level of Learning
1.1	Identify and label anatomical structures of the breast	Cognitive	Knowledge
1.2	Identify and label the breakdown of the single lobe.	Cognitive	Knowledge
1.3	Identify the three arterial branches supplying the breast and the three venous drainage	Cognitive	Knowledge
1.4	Describe the lymphatic system and lymphatic drainage	Cognitive	Comprehension
1.5	Correlate breast anatomical structures to mammographic anatomical structures.	Cognitive	Analysis
1.6	Identify and label mammographic anatomical structures when presented with a mammographic image.	Cognitive	knowledge

2. Breast Viability and Pathology

	Description	Learning Domain	Level of Learning
2.1	Discuss and understand the changes the breast undergoes due to hormonal influences during puberty, menses, pregnancy and the postmenopausal life cycles	Cognitive	Comprehension
2.2	Describe the physiologic changes caused by estrogen, progesterone and prolactin.	Cognitive	Comprehension
2.3	Describe breast augmentation and identify the types of implants, common implant locations and the anatomical changes to the augmented breast.	Cognitive	Comprehension
2.4	Describe the anomalies of development that can occur in the breast.	Cognitive	Comprehension
2.5	Recognize clinical breast changes.	Cognitive	Analysis
2.6	List the physical changes of the breast related to pathology.	Cognitive	Knowledge
2.7	List the mammographic changes of the breast related to pathology and, given mammographic images, identify the common mammographic appearance of breast pathology.	Cognitive	Knowledge
2.8	Identify risk factors limited to breast cancer.	Cognitive	Knowledge
2.9	State the recommendations for asymptomatic women regarding	Cognitive	Knowledge

	Description	Learning Domain	Level of Learning
	mammography.		
2.10	Provide information on the importance of manual and visual breast self-examination.	Cognitive	Application
2.11	Define treatment options for breast cancer.	Cognitive	Knowledge
2.12	Describe the generally accepted (postulated) progression of breast cancers from the ductal epithelium and nonepithelial tissues.	Cognitive	Comprehension
2.13	Describe changes seen after breast reduction surgery or following lumpectomy and surgical	Cognitive	Comprehension

3. Correlative Physical Breast Assessment

	Description	Learning Domain	Level of Learning
3.1	Identify current epidemiology and risk factors of breast cancer.	Cognitive	Knowledge
3.2	Describe elements of breast cancer screening protocols.	Cognitive	Comprehension
3.3	Demonstrate an understanding of breast anatomy and topographical orientation.	Psychomotor	Guided Response
3.4	Detail a breast assessment.	Cognitive	Analysis
3.5	Implement proper techniques and procedures for conducting a breast assessment.	Psychomotor	Mechanism
3.6	Use nondiagnostic descriptors to record findings and document observations arising from the breast exam.	Psychomotor	Mechanism
3.7	Participate in patient education regarding breast self-examination.	Affective	Organization
3.8	Modify procedures to assist patients with special needs.	Affective	Organization

4. Department Organization and Regulation

	Description	Learning Domain	Level of Learning
4.1	Identify key personnel and discuss regulations of the Mammography Quality Standards Act of 1992.	Cognitive	Knowledge
4.2	Define a mammography facility.	Cognitive	Knowledge
4.3	Explain patient services in the mammography department.	Cognitive	Comprehension
4.4	Discuss MQSA, American College of Radiology and Food and Drug Administration (FDA) guidelines and accreditations.	Cognitive	Comprehension

5. Equipment

	Description	Learning Domain	Level of Learning
5.1	Label the components of the mammographic unit.	Cognitive	Knowledge
5.2	and properly operate mammography equipment and demonstrate the correct use of compression devices, filtration devices, the magnification setup, use of grids and automatic exposure controls.	Psychomotor	Guided Response
5.3	State the specifications of the various components in a mammography unit (half-value layer, focal spot size, source-to-image distance and the minimum requirements based on MQSA guidelines).	Cognitive	Knowledge
5.4	Define heel effect.	Cognitive	Knowledge
5.5	Define reciprocity law failure.	Cognitive	Knowledge

	Description	Learning Domain	Level of Learning
5.6	Differentiate between the various types of x-ray generators used in mammography.	Cognitive	Analysis
5.7	Discuss and define digital mammography	Cognitive	Comprehension
5.8	Explain the additional functions available with digital imaging – measuring the area of interest, filtration of image, magnification, contrast, density, subtraction of image.	Cognitive	Comprehension
5.9	Define compression, its usefulness and minimum and maximum requirements, based on MQSA guidelines.	Cognitive	Knowledge
5.10	State the purpose of magnification.	Cognitive	Knowledge
5.11	State the procedure used when magnifying breast tissue.	Cognitive	Knowledge
5.12	Accessorize equipment according to the procedure being performed.	Psychomotor	Complex Response
5.13	Set appropriate kVp, mA and time or automatic exposure control (AEC) and the Correct position of the photosensor.	Psychomotor	Mechanism
5.14	Process film and reload cassettes with mammography film.	Psychomotor	Mechanism
5.15	Produce hard copy images of digital images.	Psychomotor	Complex Response

6. Interventional Procedures

	Description	Learning Domain	Level of Learning
6.1	Illustrate the sterile technique.	Cognitive	Analysis
6.2	Describe standard needle lesion localization.	Cognitive	Comprehension
6.3	Describe stereotactic lesion localization.	Cognitive	Comprehension
6.4	Describe fine-needle aspiration biopsy.	Cognitive	Comprehension
6.5	Delineate Galactography.	Cognitive	Analysis
6.6	Explain pneumocystography	Cognitive	Comprehension
6.7	Describe a stereotactic or core biopsy.	Cognitive	Comprehension

7. Mammography Quality Management

	Description	Learning Domain	Level of Learning
7.1	Perform quality control test procedures according to ACR and MQSA guidelines	Psychomotor	Guided Response
7.2	Document control test results.	Psychomotor	Mechanism
7.3	Determine and implement appropriate corrective measures when established quality control standards are out of tolerance.	Cognitive	Application
7.4	Perform safety checks on radiographic equipment and accessories.	Psychomotor	Guided Response

8. Positioning

9. Sonomammography

	Description	Learning Domain	Level of Learning
9.1	Identify the basic principles of ultrasonographic imaging to include sound wave characteristics, attenuation and echoes.	Cognitive	Knowledge
9.2	Describe how transducer selection affects image resolution.	Cognitive	Comprehension
9.3	Describe the presentation of images using color-Doppler	Cognitive	Comprehension
9.4	Identify basic bioeffects and patient safety concerns associated with sonography.	Cognitive	Knowledge
9.5	Identify how select ultrasonographic images complement breast imaging studies	Cognitive	Knowledge
9.6	Delineate normal breast tissue and indicators of common pathology seen on ultrasound.	Cognitive	Analysis

10. Technical Applications

	Description	Learning Domain	Level of Learning
10.1	Perceive the purpose for automatic exposure control (AEC) and relate it to an automatic kVp system.	Cognitive	Analysis
10.2	Describe how kVp, mA, time and compression affect the mammographic image.	Cognitive	Comprehension
10.3	Identify the maximum permissible dose per mammography exam based on MQSA standards.	Cognitive	Knowledge
10.4	Identify the average dose per mammographic exposure.	Cognitive	Knowledge
10.5	Describe how kVp, mA, time and compression affect the radiation dose to the patient.	Cognitive	Comprehension
10.6	Select the correct technical variable based on variations in breast anatomy.	Cognitive	Analysis
10.7	Identify imaging artifacts on mammography film.	Cognitive	Knowledge
10.8	Understand different film-screen combinations, their functions within the imaging System and their effect on the mammographic image.	Cognitive	Comprehension
10.9	Describe different types of processing and their importance in the mammographic imaging	Cognitive	Comprehension
10.10	Identify processing artifacts on the mammography film.	Cognitive	Knowledge

GENERAL EDUCATION CORE COMPETENCIES

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

1. The ability to utilize standard written English.
2. The ability to solve practical mathematical problems.
3. The ability to read, analyze, and interpret information.

STUDENT REQUIREMENTS

Students are responsible for working on course material individually and are responsible for communicating questions of concern to the instructor in a timely manner. Students are expected to complete all assignments by the due dates.

Students are responsible for reading the syllabus/lesson plan and policies/procedures in the STC E-Catalog as well as the Online Course Orientation. All online students must post a pledge that they have read and understand the syllabus and STC Online Orientation policy within the first three days of class.

Students are expected to complete all work required by the instructor and to attend the required proctored campus exam. Students will have at least one week to complete tests and assignments. All tests and assignments are due at midnight on Monday of each week.

Students are expected to prove weekly academic engagement by meeting assignment deadlines each week and spending a minimum of 90 hours during the semester doing the required homework, quizzes, and tests. Students are expected to communicate frequently through college email and discussion boards. College email is accessed at <https://portal.office.com>, under Quick links on our webpage, or in the menu of your Blackboard course. Additionally, there will be weekly Discussion Boards to which the student must post.

ATTENDANCE GUIDELINES

It is the student's responsibility to be academically engaged each week doing course related activities. The completion dates of these activities will be used to determine a student's last date of attendance in the event a student withdraws, stops attending, or receives an "F" (Failing 0-59) in a course.

Students will not be withdrawn by an instructor for attendance; however, all instructors will keep records of graded assignments and student participation in course activities. Students will be expected to complete all work required by the instructor as described in the individual course syllabus.

Students will have at least one week to complete tests and assignments. All tests and assignments are due at 11:55 pm on Tuesday of each week. Exceptions to the due dates of assignments due to jury duty, military duty, court duty, or required job training will be made at the discretion of the instructor.

STUDENTS WITH DISABILITIES

Students with disabilities who believe that they may need accommodations in this class based on the impact of a disability are encouraged to contact the appropriate campus coordinator to request services.

Swainsboro Campus: [Macy Gay, \(mgay@southeasterntech.edu\)](mailto:mgay@southeasterntech.edu), 478-289-2274, Building 1, Room 1210.

Vidalia Campus: [Helen Thomas, \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

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.

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 make arrangements with the appropriate campus coordinator.

Swainsboro Campus: [Macy Gay, \(mgay@southeasterntech.edu\)](mailto:mgay@southeasterntech.edu), 478-289-2274, Building 1, Room 1210.

Vidalia Campus: [Helen Thomas, \(hthomas@southeasterntech.edu\)](mailto:hthomas@southeasterntech.edu), 912-538-3126, Building A, Room 165.

It is strongly encouraged that requests for consideration be made **PRIOR** to delivery and early enough in the pregnancy to ensure that all the required documentation is secured before the absence occurs. Requests made after delivery **MAY NOT** be accommodated. The coordinator will contact your instructor to discuss

accommodations when all required documentation has been received. The instructor will then discuss a plan with you to make up missed assignments.

WITHDRAWAL PROCEDURE

Students wishing to officially withdraw from a course(s) or all courses after the drop/add period and prior to the 65% point of the term in which student is enrolled (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 for the course(s) when the student completes the withdrawal form.

Important – Student-initiated withdrawals are not allowed after the 65% point. After the 65% point of the term in which student is enrolled, the student has earned the right to a letter grade and will receive a grade for the course. Please note: Abandoning a course(s) instead of following official withdrawal procedures may result in a grade of “F” (Failing 0-59) being assigned.

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

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 also speak with a representative of the Financial Aid Office to determine any financial penalties that may be assessed due to the withdrawal. A grade of “W” will count in attempted hour calculations for the purpose of Financial Aid.

Online Proctored Event Withdrawals

Students who do not complete the proctored exam for an online class on the scheduled date and do not present a valid excuse within three business days of the scheduled event will be withdrawn from the course with a “WF” (Withdrawn Failing) and will be disabled in their online class. If the proctored event is scheduled during final exams, any student who misses the proctored exam will receive an “F” for the course.

PROCTORED EVENT REQUIREMENT

In order to validate student identity for all online courses, students enrolled in online courses are **required** to complete one proctored event per online course. The proctored event will be administered on separate days—once on the Vidalia campus and once on the Swainsboro campus. Students must attend one of the proctored sessions as scheduled on the Lesson Plan/Course Calendar. Dual enrollment students enrolled in online courses have the same options, but can also complete the event on the high school campus. The event will be monitored by the instructor, another College employee, or high school counselor. The proctored event may be a major exam, assignment, or presentation, etc. that will count a minimum of 20% of the course grade. Students must attend one of the scheduled proctored sessions and will need to make arrangements with work, childcare, etc. The specific dates of the proctored event are scheduled on the Lesson Plan/Calendar for the online course.

Students living farther than 75 miles from either campus who cannot come to Southeastern Tech for the event must secure an approved proctoring site. The site and the proctor must meet Southeastern Technical College's requirements (instructor will provide more information and necessary forms if this is the case).

Note: Students taking proctored events off campus will utilize the Proctor Scheduling and Approval Form found in Blackboard within the Getting Started/Start Here and Proctoring Event area. The completed form should be submitted to the course instructor a minimum of two weeks prior to the proctored event. If approved, the instructor will notify the proctor.

Students arranging off-campus proctoring must take the event on one of the originally scheduled days. Students who do not complete the proctored event as scheduled must submit a valid documented excuse within three business days after the scheduled event. If the excuse is approved by the instructor of the course, students must make arrangements with the instructor to makeup/reschedule the missed event. The

penalty and makeup instructions will be at the instructor's discretion. Proctored events will be given after the 65% point of the semester. **Students who do not complete the proctored event on the scheduled date and do not present a valid documented excuse within three business days of the scheduled event will be withdrawn from the course with a "WF" (Withdrawn Failing). If the proctored event is scheduled during final exams, any student who misses the proctored event will be issued an "F" (Failing) for the course.**

PROCTORING FEES

Students are not charged a proctoring fee when taking a proctored event at Southeastern Technical College or any other TCSG college. Students who choose to use an off-campus proctor may be assessed a proctoring fee by the proctoring site. In this instance, the student is responsible for payment.

The required proctored event for this class is scheduled on the following dates and times: Vidalia Campus, Wednesday April 1, 2020 at 2:00 PM, room 743 and Swainsboro Campus, Thursday, April 2, 2020 at 2:00 PM, room TBA.

WORK ETHICS

The Technical College System of Georgia instructs and evaluates students on work ethics in all programs of study. Ten work ethics traits have been identified and defined as essential for student success: appearance, attendance, attitude, character, communication, cooperation, organizational skills, productivity, respect, and teamwork. Students will be required to take a work ethics exam as marked in the lesson plan. A grade of 70 or better is required to complete the work ethics requirements for this class.

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

Students will be allowed to makeup one test. Any further missed test will result in a grade zero. All makeup exams will be given at the discretion of the instructor.

Students are responsible for policies and procedures in student catalog/handbook and Departmental Policies and Procedures. [This could also include safety, academic dishonesty, etc.]

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 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>Lanie Jonas, Director of Human Resources Vidalia Campus 3001 East 1st Street, Vidalia Office 138B Phone: 912-538-3230 Email: Lanie Jonas ljonas@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.

GRADING POLICY

Assessment/Assignment	Percentage
Chapter Exams	50%
Final Exam	15%
Proctored Exam	20%
Discussion Board	10%
Work Ethics	5%

GRADING SCALE

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

RADT 2520 Mammographic Anatomy, Physics, and Positioning Spring Semester 2020 Lesson Plan

Date/Week	Chapter/Lesson	Content	Assignments & Tests Due Dates	Competency Area
Week 1 JAN 7 - 13		Chapter 1 & 2 Complete Discussion Board	Assignments available at 8:00 am on January 7. All assignments are due by 11:55 pm every Monday.	
Week 2 JAN 14 -20		Chapter 1 & 2 Complete Discussion Board	Exam 1 (Ch. 1 & 2) Due by 11:55 pm Monday	
Week 3 JAN 21 - 27		Chapter 3 Complete Discussion Board	Exam 2 (Ch. 3) Due by 11:55 pm Monday	
Week 4 JAN 28 – FEB 3		Chapter 4 Complete Discussion Board	Exam 3 (Ch.4) Due by 11:55 pm Monday	
Week 5 FEB 4 - 10		Chapter 5 Complete Discussion Board	Exam 4 (Ch. 5) Due by 11:55 pm Monday	
Week 6 FEB 11 - 17		Chapter 6 Complete Discussion Board	Exam 5 (Ch.6) Due by 11:55 pm Monday	
Week 7 FEB 18 - 24		Chapter 7 Complete Discussion Board	Exam 6 (Ch. 7) Due by 11:55 pm Monday	
Week 8 FEB 25 – MAR 2		Chapter 8 Complete Discussion Board	Exam 7 (Ch. 8) Due by 11:55 pm Monday	
Week 9 MAR 3 -9		Chapter 9 Complete Discussion Board	Exam 8 (Ch. 9) Due by 11:55 pm Monday	
Week 10 MAR 10 - 16		Chapter 10 Complete Discussion Board	Exam 9 (Ch.10) Due by 11:55 pm Monday	
Week 11 MAR 17 - 23		Chapter 11 Complete Discussion Board	Exam 10 (Ch. 11) Due by 11:55 pm Monday	
Week 12 MAR 24 - 30		Chapter 12 Complete Discussion Board	Exam 11 (Ch. 12) Due by 11:55 pm Monday	
Week 13 MAR 31 – APRIL 13		Proctored Exam Wednesday, April 1 @ 2:00 PM (Vidalia Campus) Thursday, April 2 @ 2:00 PM (Swainsboro Campus)	Proctored Exam	
Week 14 APRIL 14 - 20		Review all materials for Final Exam Complete Discussion Board		
Week 15 APRIL 21 - 27		Final Exam Complete Discussion Board	Final Exam due by Thursday April 30 by 11:55 PM	

*The lesson plan is subject to change at the discretion of the instructor.

COMPETENCY AREAS:

PATIENT COMMUNICATION

1. Patient Assessment
2. Treatment Options
3. Design Characteristics of Mammography Units
4. Acquisition and Display

GENERAL CORE EDUCATIONAL COMPETENCIES:

- 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.