

JEFFERSON COLLEGE

COURSE SYLLABUS

RAD270

Mammography Registry Review

3 Credit Hours

Prepared by: Janet Akers-Montgomery
Curriculum Committee Approval
Date: 2021

Mr. Kenneth Wilson Associate Dean of School of Science and Health
Dr. Christopher DeGeare, Acting Vice President of Instruction

RADXXX Mammography Registry Review

I. CATALOGUE DESCRIPTION

- A. Pre-requisite and/or Co-requisite: Registered Radiologic Technologist through the American Registry of Radiologic Technologist (ARRT) or second year Radiologic Technology student in their final semester of an accredited radiography program.
- B. Credit hour award: 3
- C. Description : This course is designed to provide an ARRT Registered Radiologic Technologist the structured educational requirements needed to be eligible to take their ARRT post-secondary Mammography (M) registry and 40 hours of initial education requirements needed for Mammography Quality Standards Act (MQSA) approval . Each of the three content areas for the ARRT exam will be covered, including: patient care, image production, and procedures (Su).
- D. Curricular alignment
 - 1. Elective course only. Does not apply toward any certificate/degree requirement.

II. EXPECTED LEARNING OUTCOMES/CORRESPONDING ASSESSMENT MEASURES

Expected Learning Outcome	Assessment Measures
Be able to respond to the needs of the patient and patient family with an understanding of patient instructions, accreditation, results timeline, and MQSA processes.	Class Discussion/Activity Written Examinations Written Assignments
Identify the concepts and terminology associated mammography and localization terminology.	Class Discussion/Activity Written Examinations Written Assignments
Explain components and design of the mammography imaging system, 3D imaging, digital breast tomosyntheses (DBT/3D), computer-aided detection (CAD), MRI, ultrasound and interventional procedures such as core biopsies, aspirations, needle localization, specimen imaging, and other procedures.	Class Discussion/Activity Written Examinations Written Assignments
Understand non-imaging components and of the full-field digital mammography (FFDM) network, HIS/RIS, HL7, PACS and other workflow processes.	Class Discussion/Activity Written Examinations Written Assignments
Identify purpose and frequency of quality control (QC) testing.	Class Discussion/Activity Written Examinations Written Assignments

Be able to identify personnel requirements, record keeping, and medical outcomes of the MQSA audit.	Class Discussion/Activity Written Examinations Written Assignments
Identify breast pathologies; both benign and malignant.	Class Discussion/Activity Written Examinations Written Assignments
Be able to explain Bi-Rads and reporting of findings.	Class Discussion/Activity Written Examinations Written Assignments
Understand special patient situations not limited to, but including; kyphosis, implants, post-surgical breasts, and males.	Class Discussion/Activity Written Examinations Written Assignments

III. OUTLINE OF TOPICS

A. Patient Care-Education and Assessment

- a. Patient Communication
- b. Patient Assessment
- c. Treatment Options

B. Image Production

- a. Design Characteristics of Mammography Units
- b. Digital Acquisition, Display, and Informatics
- c. Quality Assurance and Evaluation
- d. Quality Control
- e. Mammographic Technique and Image Evaluation

C. Procedures

- a. Localization Terminology
- b. External Anatomy
- c. Internal Anatomy
- d. Histology and Cytology
- e. Pathology

D. Mammographic Positioning, Special Needs, and Imaging Procedures

- a. Views
- b. Special Patient Situations
- c. Imaging Modalities

IV. METHOD(S) OF INSTRUCTION

This course is taught using a variety of instructional methods, which include but are not limited to interactive lectures, computer presentations, group activities and exercises, videos, supplemental handouts and student presentations. Students are expected to be ACTIVE participants in the learning process. Students are expected to read the assigned readings prior to scheduled class meetings and come to class prepared to actively participate in all activities

V. REQUIRED TEXTBOOK(S)

A. Lille, S. and Andolina, V. (current edition). *Mammographic imaging: a practical guide*. Lippincott, Williams & Watkins. Philadelphia.

VI. REQUIRED MATERIALS

A. A computer with internet access and basic software to include Word and PowerPoint (available through Jefferson College labs)

B. Course homepage available through Blackboard

VII. SUPPLEMENTAL REFERENCES

A. Supplemental Textbook

a. Papp, J (current edition). *Quality management in the imaging sciences*. Evolve.

b. Peart, O. (current edition) *Lange Q & A, mammographic examination*. McGraw Hill.

c. Peart, O. (current edition) *Mammography & breast imaging prep: program review and exam prep*. McGraw Hill.

B. Class handouts

C. Internet access

VIII. METHOD(S) OF EVALUATION

GRADES –Grades will be based on the percentage of total points earned out of total points possible for this semester. The assignments will vary in the number of possible points based upon amount of work involved and complexity of material. The student should be aware that proofreading and revision are extremely important when preparing homework. All writing assignments submitted for grading should be final drafts.

EXAMS -All exams with scores less than 75% must be retaken until a score of 75% or above is achieved to complete course requirements. The student will be allowed to retake an exam until content mastery is achieved.

Grading Scale: (Jefferson College Radiologic Technology Program's)

A= 100-92%

B= 91.9-86%

C= 85.9-80%

D= 79.9-70%

F= 69.9 and below

I= Incomplete

W= Excused withdrawal from course

IX. ADA AA STATEMENT

Any student requiring special accommodations should inform the instructor and the Coordinator of Disability Support Services (TC101; phone 636-481-3169).

X. ACADEMIC HONESTY STATEMENT

All students are responsible for complying with campus policies as stated in the Student Handbook (see College website, <http://www.jeffco.edu>).

XI. ATTENDANCE STATEMENT

Regular and punctual attendance is expected of all students. Any one of these four options may result in the student being removed from the class and an administrative withdrawal being processed: (1) Student fails to begin class; (2) Student ceases participation for at least two consecutive weeks; (3) Student misses 15 percent or more of the coursework; and/or (4) Student misses 15 percent or more of the course as defined by the instructor. Students earn their financial aid by regularly attending and actively participating in their coursework. If a student does not actively participate, he/she may have to return financial aid funds. Consult the College Catalog or a Student Financial Services representative for more details.

XII. OUTSIDE OF CLASS ACADEMICALLY RELATED ACTIVITIES

The U.S. Department of Education mandates that students be made aware of expectations regarding coursework to be completed outside the classroom. Students are expected to spend substantial time outside of class meetings engaging in academically related activities such as reading, studying, and completing assignments. Specifically, time spent on academically related activities outside of class combined with time spent in class meetings is expected to be a minimum of 37.5 hours over the duration of the term for each credit hour.

XIII. DIVERSITY STATEMENT

Jefferson College is a community leader dedicated to supporting and promoting diversity through opportunities and experiences that foster a culture of respect, inclusiveness, and understanding for everyone in the campus community to engage in a diverse world.