RADT A221: TOPICS IN MAMMOGRAPHY

Item	Value
Curriculum Committee Approval Date	02/21/2024
Top Code	122500 - Radiologic Technology
Units	1 Total Units
Hours	27 Total Hours (Lecture Hours 18; Lab Hours 9)
Total Outside of Class Hours	0
Course Credit Status	Credit: Non-Degree Applicable (C)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Grading Policy	Pass/No Pass (B)

Course Description

This course will help prepare the student for the American Registry of Radiologic Technologists (ARRT) certification examination in Mammography. PREREQUISITE: Students will need to be either; second year student in an ARRT(R) eligible program; or, certified by the ARRT in Radiologic Technology. NOT DEGREE APPLICABLE. Not Transferable.

Course Level Student Learning Outcome(s)

1. Demonstrate understanding the QA/QC skills required by MQSA (Mammography Quality Standards Act)
2. Describe the components of the modern mammography unit and their function.
3. Identify common pathologies of the breast and their proper imaging techniques.

Course Objectives

- 1. Describe the digital imaging principles fundamental to mammography.
- 2. Analyze images of the breast for proper positioning and technique.
- 3. Identify breast anatomy and pathology relevant to mammography.
- 4. Describe Digital Quality Control and Regulations
- 5. Explain patient care for mammography.

Lecture Content

Fundamentals of Breast Imaging Digital Equipment and Image Production Digital Image Evaluation Breast Anatomy Pathology Digital Quality Control and Regulations Patient Care Digital Procedures and Techniques Breast Ultrasound Digital Breast Tomosynthesis

Lab Content

Labs will consist of various activities to assess the students clinical abilities, aptitude for clinical training, and complete the necessary pre-clinical experiences required to begin clinical training in mammography

Method(s) of Instruction

- Lecture (02)
- DE Online Lecture (02X)
- Lab (04)
- DE Online Lab (04X)

Instructional Techniques

Lecture and application of ideas. Lab to determine clinical skills and aptitude.

Reading Assignments

Students will have a weekly reading assignment consisting of 2 hours focusing on the topics of that weeks primary educational goal.

Writing Assignments

Short answer writing assignments.

Out-of-class Assignments

Out of class assignments will be primarily the 2 hours of reading with the potential for short homework quizzes to reinforce concepts.

Demonstration of Critical Thinking

Periodic quizzes; examinations; comprehensive final exam; written homework assignments; participation. Regular and substantive interaction and participation.

Required Writing, Problem Solving, Skills Demonstration

Periodic quizzes; examinations; comprehensive final exam; written homework assignments; participation. Regular and substantive interaction and participation.

Eligible Disciplines

Radiological technology: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience.

Textbooks Resources

1. Required Long, et al. Merrills Atlas of Radiographic Positionign, 13 ed. Elsevier, 2016