

NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY RAD 233 – ANATOMY AND POSITIONING OF THE BREAST (1 CR.)

Course Description

Presents the risk factors for breast disease, anatomy and physiology of the breast and discusses the various pathologies identified through mammography. Includes routine and special projections of the breast. Lecture 1 hour per week.

General Course Purpose

This course is a component of a career certificate that is designed as a multi-competency module to provide expertise in mammography to registered or registry eligible technologists. The completion of the career certificate will prepare individuals for employment as mammographers in hospitals and imaging centers. This course will fulfill the professional continuing education requirements required by the American Registry of Radiologic Technologists.

Course Prerequisites/Corequisites

This course is offered to students who have graduated from an approved radiologic technology program and are registered or registry eligible according to the standards provided by the American Registry of Radiologic Technologists.

Course Objectives

Upon completing the course, the student will be able to:

1. Identify the surface anatomy of the breast
2. Identify the deep anatomy of the breast
3. Describe the various tissue classifications of the breast
4. Discuss the physiology of the breast
5. Identify mammographic appearances of benign and malignant conditions
6. Demonstrate the routine projections for mammography
7. Demonstrate special projections of the breast
8. Identify special situations such as:
 - a. Breast implants
 - b. Post-mastectomy patients
 - c. Post-radiation therapy patients
9. Discuss factors most commonly associated with breast cancer
10. Explain the American Cancer Society Guidelines for mammography
11. Discuss treatment options
12. Discuss the need for patient education as related to clinical self breast examination

Major Topics to be Included

- A. Anatomy and physiology of the breast
- B. Pathology of the breast
- C. Routine and special projections of the breast
- D. Special situations in breast imaging
- E. Risk factors for breast disease
- F. American Cancer Society guidelines for mammography
- G. Patient Education