

Middlesex Community College

SYALLBUS

I. Course Title: MAM*201 – Principles of Mammography

II. Credits: 4

III. Prerequisites: Must be a registered Radiographer (ARRT)

IV: Semester: Spring 2017

V: Instructor: Sandra Phillips, BS, RT (R) (M)
Office: Radiology Department; Middlesex Hospital
Office Hours: By appointment
Phone: 860-358-4920
Fax: 860-358- 4785
Email: sandra.phillips@midhosp.org

VI: Course Description: This course will review basic patient care and radiation protection. This course will introduce students with radiography backgrounds to the basic principles behind breast imaging (patient care, instrumentation, anatomy and physiology, technique and evaluation). This course will teach students to operate and utilize digital and conventional mammography equipment to produce images of patients' breast tissue. This course will prepare graduates to possess the knowledge, skill, and affect to meet the demands of an entry level-position as a mammographer. Theory presented will prepare and qualify students to participate in the ARRT Mammography certification examination. Prerequisites: Must be a registered Radiographer (ARRT)

VII: Course Text: **Ebook: Lange Q & A: Mammography Examination, 3rd Ed., Peart, Elsevier**

VIII: Course Objectives: At the end of this course, the student will:

1. Cite examples of established fundamental mammographic procedures.
2. Identify appropriate patient assessment, anatomy and physiology.
3. Compare and contrast treatment options.
4. Demonstrate and evaluate correct acquisition, display and informatics.
5. Differentiate between accreditation and certification related to mammography.
6. Identify MQSA regulations
7. Demonstrate detailed understanding of quality control testing
8. Compare and contrast emerging technologies

IX: Course Goals:

1. Provide students with the opportunity to develop positioning skills on routine and advanced breast imaging procedures.

2. Provide students the opportunity to study and understand patient assessment and communication as they analyze and identify routine and advanced images.
3. Provide students the opportunity to demonstrate oral and written communication skills in dealing with patients and clinical staff.
4. Provide student the opportunity to demonstrate appropriate Quality Control testing and documentation per established guidelines.
5. Provide the students the opportunity to explore emerging technologies in breast imaging.

X: General Unit Outline:

- I. Patient Care and Assessment
 - A. Explain appropriate communication skills when dealing with patients.
 - B. Differentiate between “normal breast” and “abnormal” breast anatomy and physiology
- II. Treatment Options
 - A. Surgical,
 - B. Non-surgical,
 - C. Reconstruction
- III. Acquisition, Display and Informatics
 - A. Analog/Digital
 - B. Workstations
 - C. Digital Imaging Display/Computer Aided Detection
- IV. MQSA
 - A. Accreditation/certification
 - B. Personnel requirements/record keeping
 - C. Auditing and policies
- V. Quality Control Tests
 - A. General Tests
 - B. Analog Tests
 - C. Digital Tests
- VI. Emerging Technologies
 - A. Ultrasound
 - B. Molecular Breast Imaging
 - C. Tomosynthesis

XI: Course Presentation: This course consists of the following components:

Assingments	75%
Final Exam	25 %

XII: Grade Scale:

94 = A	83 = B -
92 = A -	80 = C +
89 = B +	77 = C
86 = B	76 = F

ADDITIONAL COLLGE INFORMATION:

IMPORTANT COLLEGE POLICIES!! PLEASE READ CAREFULLY!

For information about the college's policies and procedures regarding academic honesty, accessibility/disability services, attendance, audio-recording in the classroom, grade appeals, plagiarism, religious accommodations, weather and emergency closings, and more, please go to the following website:

www.mxcc.edu/catalog/syllabus-policies/ or scan the QR code with your smart phone. Also, please become familiar with the policies regarding nondiscrimination, sexual misconduct, and general student conduct at the following website: www.mxcc.edu/nondiscrimination/.

NON-DISCRIMINATION STATEMENT

Middlesex Community College does not discriminate on the basis of race, color, religious creed, age, sex, national origin, marital status, ancestry, present or past history of mental disorder, learning disability or physical disability, sexual orientation, gender identity and expression or genetic information in its programs and activities. In addition, the College does not discriminate in employment on the additional basis of veteran status or criminal record. The following people have been designated to handle inquiries or complaints regarding non-discrimination policies and practices:

Primary Title IX Coordinator

Dr. Adrienne Maslin

*Dean of Students/Title IX and Section 504/ADA Coordinator
amaslin@mxcc.edu; 860-343-5759; Founders Hall Room 123*

Secondary Title IX Coordinator

Ms. Mary Lou Phillips

*Director of Human Resources, Middlesex Community College
mphillips@mxcc.edu; 860-343-5751; Founders Hall Room 115*

Secondary Title IX Coordinator

Ms. Queen Fordham

*Coordinator of the Meriden Center Welcome Desk
qfordham@mxcc.edu; 203-608-3011*

CELL PHONE POLICY: *Whether in clinical or class, personal cell phones should be placed on silent mode and put away so that professional activities are not disrupted. Students are not permitted to “text” during class or clinic.

MAM*201 Principles of Mammography
Course Topics and Schedule

Week	Study Topic(s)	Assignment(s) Due dates
1	Module 1 Review of Patient Care and Assessment	Sunday 1/29 /17 11:59 PM
2	Module 2 Equipment and Instrumentation	Sunday 2/5/17 11:59 PM
3	Module 3 Producing Quality Images	Sunday 2/12/17 11:59 PM
4	Module 4 Breast Anatomy	Sunday 2/19/17 11:59 PM
5	Module 5 Digital Mammography	Sunday 2/26/17 11:59 PM
6 & 7	Module 6 Tomosynthesis	Sunday 3/12/17 11:59 PM
8	Module 7 Patient Care	Sunday 3/26/17 11:59 PM
9	Module 8 Procedures and Techniques	Sunday 04/02/17 11:59 PM
10	Module 9 Breast Ultrasound	Sunday 4/09/17 11:59 PM
11	Module 10 Pathology	Sunday 4/16/17 11:59 PM
12	Module 11 MQSA	Sunday 4/23/17 11:59 PM
13	Module 12 Quality and Safety	Sunday 04/30/17 11:59 PM
14&15	Module 13 Review and mock exam of all material	Sunday 5/14/17 11:59 PM

SUBJECT TO CHANGE WITH NOTIFICATION