

# MAMMOGRAPHY (MAMC)

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## **MAMC 1010 - Patient Care and Management in Mammography (3 Credits)**

This course provides an in-depth overview of patient care and management within the context of mammography. It covers aspects related to patient communication, preparing patients for procedures, understanding mammography techniques, safety protocols, and the ethical considerations involved in breast imaging. Students will gain insights into handling diverse patient needs, managing anxiety, and providing quality care while adhering to professional standards.

Lecture: 3 hours, Lab: 0 hours, Other: 0 hours

## **MAMC 1020 - Mammographic Image Production (5 Credits)**

This course focuses on the technical aspects of mammography, emphasizing the production, acquisition, and optimization of mammographic images. The course explores the principles of imaging, equipment operation, image quality, radiation safety, and troubleshooting in mammography. Participants will develop an understanding of the key factors that influence image quality and the role of advanced technologies in improving diagnostic accuracy.

Lecture: 5 hours, Lab: 0 hours, Other: 0 hours

**Corequisite(s):**MAMC 1010

## **MAMC 2010 - Instrumentation and Quality Assurance in Mammography^ (4 Credits)**

This course covers the principles and practices of instrumentation, operation, and maintenance of mammography equipment. It emphasizes quality assurance (QA) and quality control (QC) processes essential for maintaining high-quality mammographic images while ensuring patient safety and minimizing radiation exposure. Participants will learn the protocols for regular testing, calibration, troubleshooting, and ensuring compliance with national standards.

Lecture: 3 hours, Lab: 0 hours, Other: 8 hours

**Prerequisite(s):** MAMC 1010 and MAMC 1020

## **MAMC 2020 - Principles and Procedures in Mammography^ (6 Credits)**

This course reinforces the fundamental principles of mammography, including the technologies and techniques involved in the screening and diagnostic processes. It covers the procedures, positioning, patient care, and image interpretation skills needed to perform high-quality mammograms. The course also addresses the importance of understanding breast anatomy, the role of mammography in early detection of breast cancer, and the necessary protocols for patient safety and image quality.

Lecture: 4 hours, Lab: 0 hours, Other: 16 hours

**Prerequisite(s):** MAMC 1010 and MAMC 1020

**Corequisite(s):**MAMC 2010