

**BERGEN COMMUNITY COLLEGE  
DIVISION OF HEALTH PROFESSIONS  
DIAGNOSTIC MEDICAL SONOGRAPHY PROGRAM**

**DMS 204 Introduction to Medical Imaging**

Instructor: Jo Ann Heller

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Spring 2013 Thursday 6:00 – 7:15

1 CREDIT

Prerequisites: DMS-102, DMS-113.DMS-115

Co requisites: DMS-218, DMS-205, DMS-213

**COURSE DESCRIPTION** : Introduction to medical imaging is a comprehensive course pertaining to different procedures that exist in the Radiology Department. It is an introduction to different modalities and how they interrelate to one another and to sonography. Students will be shown how different modalities utilize patient testing and the importance of the modality.

**COURSE OBJECTIVES**

- Recognize and explain the difference between X-ray ,CT and MRI imaging
- Understand how testing modalities are useful to aid in treatment of patients
- To understand findings on reports from other imaging modalities
- To understand the correlation between Ultrasound and other modalities
- To gain basic knowledge of the use of ultrasound in the cardiovascular system

## GRADING POLICY

TEST I	33%	92-100	A
TEST II	33%	88-91.9	B+
TEST III	34%	83-87.9	B
		79-82.9	C+
		75-78.9	C
		0-74.9	F

## COURSE OF STUDY (SUBJECT TO CHANGE)

### WEEK 1

Introduction to the Diagnostic Imaging Department  
Overview of components of DI Department

### WEEK 2

#### General Radiography

Explanation of findings on bone, chest and abdomen images  
Visit to BCC Radiography Lab to demonstrate CR, DR and explanation of PACS

### WEEK 3

#### General Radiography Continued

Explanation and images of fluoroscopy studies including GI, BE, Small Bowel, Hysterosalpingogram, and Voiding cystourethrograms and Mammography.

Special Procedures in Radiography (excluding cardiovascular studies)

Week 4 Test I Will be tested on material from weeks 1, 2 and 3.

Week 5

Computed Tomography

Explanation and Images of CT and CT special procedures and how they relate to U/S

Week 6

Magnetic Resonance Imaging

Explanation and Images of MRI and how they relate to U/S

Week 7 Test II Will be tested on material from weeks 5 and 6.

Week 8

Nuclear Medicine, Radiation Oncology and Pet Scanning

Explanation and Images of nuclear Medicine, radiation oncology and Pet Scanning

Week 9

Interventional Cardiology (Guest Speaker)

Explanation and images of procedures done in interventional cardiology. Some electrophysiology will also be introduced.

Week 10 Test III Will be tested on information from week 8 and 9