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

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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