

## Master Syllabus

### RAT 1222 - Radiographic Procedures II

**Division:** Health Sciences

**Department:** Radiologic Technology

**Credit Hour Total:** 5.0

**Lecture Hrs:** 4.0 **Lab Hrs:** 3.0

**Prerequisite(s):** RAT 1121

**Other Prerequisite(s):** AND Restricted to Majors

**Date Revised:** February 2014

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#### Course Description:

Radiographic anatomy, positioning and image analysis of the spine, skull, gastrointestinal and genitourinary systems, as well as general pharmacological principles as they pertain to radiology. Alternative positioning for trauma and mobile radiography. Four classroom, three lab hours per week.

#### General Education Outcomes:

- Critical Thinking/Problem Solving Competency

#### Course Outcomes:

##### Contrast Media And General Principles of Pharmacology

Identify elements of contrast media and other drugs, as they pertain to radiographic practice, including risks and administration guidelines.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 71% or higher achieved

##### Radiographic Anatomy

Identify frequently radiographed bony structures of the spine and skull as well as the soft tissue structures of the gastrointestinal and genitourinary systems.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 71% or higher achieved

##### Positioning Skills

Describe common positions used to safely and correctly radiograph anatomy of the spine, skull, gastrointestinal and genitourinary studies. Describe common positions used in trauma and mobile radiography.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 71% or higher achieved

##### Image Analysis

Identify radiographic images for quality with regard to positioning, equipment manipulation and image production in accordance with safe radiation practices.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 71% or higher achieved

#### Outline:

Bony anatomy of the spine and the skull

Anatomy of the gastrointestinal and genitourinary systems

Positioning of the patient for proper, safe imaging of routine projections of the spine and skull

Instruction in medically prescribed drug classes, contrast media composition, risks and administration

Positioning of the patient for proper, safe imaging of routine exams involving contrast and fluoroscopy of the gastrointestinal and genitourinary systems

Analysis of the final radiographic image to enforce safe radiation practices adhering to the principles of ALARA

Principles of mobile and trauma radiography