Sinclair Community College
444 E. Third St.
Dayton, OH 45402

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

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

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