MOHAWK VALLEY COMMUNITY COLLEGE, UTICA-ROME, NY

COURSE OUTLINE

1. COURSE DESCRIPTION:

**RT200 Advanced Imaging Procedures/Sectional Anatomy** C-0, P-2, CR-1

This course introduces advanced procedures that require the use of contrast media and the pathologies indicated for these exams. Topics include general and specialized procedures involving the use of contrast agents of the reproductive tracts as well as the spinal column; basic anatomy of the brain, chest, abdomen, and pelvis as viewed in a cross section of the anatomy. Patient and equipment safety, proper room set-up, supervised lab practices, and film evaluation sessions are demonstrated and practiced. Phantoms are used to help assess the student's ability to perform proper positioning of the skull and facial bones.

**Prerequisites:** RT101 Fundamentals of Radiography.

**Corequisites:** RT109 Radiation Biology I, RT201 Image Production & Evaluation II, RT202 Clinical Education Advanced.

1. STUDENT LEARNING OUTCOMES

**Upon completion of this course the student will be able to:**

1. Obtain a complete history from the “patient” pertinent to the exam being performed.
2. Interpret requests for radiographic examinations.
3. Manipulate radiographic equipment properly.
4. Develop the proper technical factors that need to be employed for specific human body examinations.
5. Properly position the “patient” for specific projections.
6. Provide evidence of radiographic protection.
7. Demonstrate, in a non-energized laboratory, the correct positioning on a phantom.
8. Critique radiographs for the structures best demonstrated for specific body projections.
9. Determine alternate projections to accommodate, when necessary, the patient’s condition.
10. Determine the steps to perform specific routine radiographic examinations.
11. Develop critical thinking skills with the use of alternate projections.
12. MAJOR TOPICS:
13. Barium fluoro studies
14. Urinary tract studies
15. Skull, facial bones
16. Sinuses, nasal bones, mandible, orbits
17. Arthrogram, myelogram, hysterosalpingogram
18. Quality Assurance
19. Introduction to Computed Tomography