MOHAWK VALLEY COMMUNITY COLLEGE, UTICA-ROME, NY

COURSE OUTLINE

1. COURSE DESCRIPTION:

**RT205 Advanced Imaging Procedures/Pathology** C-1, P-0, CR-1

This course provides an overview of advanced imaging topics including equipment; computers in imaging; basic principles of the various health science professions; career planning; forensic radiography; and the principles, practices, and policies of healthcare organizations. Theories of disease causation and the pathophysiologic disorders that compromise healthy systems are introduced.

**Prerequisites:** RT102 Radiographic Procedures/Pathology I, RT106 Radiographic Procedures/Pathology II, RT200 Advanced Procedures/Sectional Anatomy.

**Corequisites:** RT203 Radiographic Physics, RT204 Radiation Biology II, and RT207 Clinical Education Mastery.

1. STUDENT LEARNING OUTCOMES

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

1. Identify other health science professions and research that participate in the patient’s total health care.
2. Identify major anatomical structures found within radiological images.
3. Describe the basic manifestations of pathological conditions and their relevance to radiological procedures.
4. Locate, retrieve, analyze, and synthesize information from a variety of sources pertaining to radiographic pathology.
5. Define accreditation, credentialing, certification, licensure, and regulations.
6. Discuss career advancement and opportunities for the radiographer.
7. Identify the benefits of continuing education as related to improved patient care and professional enhancement.
8. MAJOR TOPICS:
9. Respiratory Pathology
10. Fractures
11. Interview Techniques/Resume Development
12. Upper Extremity Pathology
13. Lower Extremity Pathology
14. Vertebral Pathology
15. Pathology Presentation
16. Chest Lines & Catheters/Suboptimal/Optimal images