MOHAWK VALLEY COMMUNITY COLLEGE, UTICA-ROME, NY

Radiological Technology

COURSE OUTLINE

1. COURSE DESCRIPTION:

**RT104 Patient Care II/Pharmacology & IV Therapy** C-, P-, Cr-1

This course provides students with basic pharmacologic principles and practices, knowledge of the administration or radiopaque contrast media, and related emergency medications. IV Therapy instruction component provides basic knowledge and theory related to IV therapy with regard to fluids, fluid administration, anatomy and physiology, venipuncture, infection prevention, and complications.

**Prerequisites:** RT100 Patient Care 1/Ethics

**Corequisites:** RT 105 Image Production &Evaluation 1, RT 106 Radiographic Procedure / Pathology 2, RT 107 Clinical Education Intermediate I, BI 217 Human Anatomy & Physiology 2

1. STUDENT LEARNING OUTCOMES

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

1. Identification of basic pharmacologic principles and theories.
2. Identification of types of contrast agents and their indications
3. Preparation of contrast media for instillation or infusion.
4. Identification of contraindications for contrast media.
5. Obtain a history pre-procedure and identify essential elements of a patient history.
6. Identification of drug classifications.
7. Application of the 5 rights of safe medication practice.
8. Demonstration of successful IV start.
9. Relation of IV therapy to fluids, infection prevention and complications.
10. Understand the difference between aseptic vs. non-aseptic techniques.
11. MAJOR TOPICS:
12. Pharmaceuticals
13. Principles of Drug Administration
14. Lab – IV Administration
15. Contrast Media
16. Professional Ethics
17. Health Records & Information Management
18. Medical Law