



### **Course Description**

#### **RTE1824 | Radiographic Clinic 3 | 5.00 credits**

The student continues to rotate, under supervision, through different units of a Radiology Department. Development of a capability to assist in diagnostic procedures at a more complex level.

### **Course Competencies**

**Competency 1:** The student will be able to demonstrate knowledge, comprehension and application of patient management and department policies and procedures by:

1. Demonstrating competent assessment skills through effective management of the patient's physical and mental status
2. Assessing the patient and record clinical history
3. Adapting procedures to meet age-specific, disease-specific and cultural needs of patients
4. Examining procedure orders for accuracy and make corrective actions when applicable

**Competency 2:** The student will be able to demonstrate proficiency in the skills, techniques and knowledge required to perform accurate GI and urological fluoroscopic procedures by:

1. Examining the patient preparation and assessment necessary for various contrast studies
2. Explaining and performing the routine and special positions/projections for all fluoroscopic procedures
3. Describing the purpose, indications and contraindications for using contrast media
4. Identifying the possible side effects of contrast media
5. Describing the symptoms and medical interventions for a patient with a contrast agent reaction
6. Applying general radiation safety and protection practices associated with fluoroscopic examinations

**Competency 3:** The student will be able to demonstrate an understanding of pharmacology and venipuncture procedures as it relates to radiologic science by:

1. Defining the categories of contrast agents and giving specific examples for each category
2. Describing the pharmacology of contrast agents
3. Describing methods and techniques for administering various types of contrast agents
4. Identifying and describing the routes of drug administration

### **Learning Outcomes:**

- Communicate effectively using listening, speaking, reading, and writing skills
- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information
- Use computer and emerging technologies effectively