

## **RADT 243**

### **Magnetic Resonance Imaging (MRI) Clinical Practicum I**

3 Credits

## Community College of Baltimore County Common Course Outline

### **Description**

**RADT 243 – Magnetic Resonance Imaging (MRI) Clinical Practicum I:** begins the clinical professional portion of the Magnetic Resonance Imaging program. Students perform Magnetic Resonance Imaging procedures under the direct supervision of a preceptor/mentor. An orientation to clinical and on-boarding procedures, as well as laboratory simulations are provided. 3 credits: 16 clinical hours per week for 15 weeks. (Offered fall semester).

**Pre-requisites:** Admission into the MRI Program and Permission of the Program Coordinator

**Co-requisites:** RADT 240

### **Overall Course Objectives**

Upon completion of this course, students will be able to:

1. demonstrate professional behavior in dealing with patients and other staff members;
2. apply standard and transmission-based precautions;
3. provide patient-centered clinically effective care for all patients, regardless of age, gender, disability, special needs, ethnicity, or culture;
4. integrate appropriate personal and professional values into clinical practice;
5. assess the patient to record clinical history;
6. respond appropriately to medical emergencies;
7. demonstrate appropriate MRI safety precautions in dealing with metallic objects;
8. select computer parameters to produce quality diagnostic images;
9. demonstrate clinical performance by being evaluated on clinical skills and tasks;
10. simulate the general use of an MRI console for routine exams in lab software; and
11. complete 40 clinical competencies that will prepare the student to sit for the Magnetic Resonance Imaging Registry examination offered by the American Registry of Radiologic Technologists (ARRT).

### **Major Topics**

- I. Orientation
  - a. Philosophy of clinical competency program
  - b. Clinical procedures and policies
  - c. Clinical duty schedules
  - d. On-boarding procedures for clinical rotations
  - e. Professional ethics

The Common Course Outline (CCO) determines the essential nature of each course.

For more information, see your professor's syllabus.

- f. MRI safety
- g. Lab simulation software
- II. Proper Use and Care of Equipment
- III. Patient Care
  - a. Vital signs
  - b. Patient confidentiality and modesty
  - c. Standard precautions
  - d. Patient needs and safety
  - e. Venipuncture
- IV. Clinical Area Responsibilities
  - a. Assigned tasks
  - b. Clinical attendance and uniform
  - c. Clinical area cleaning and stocking
  - d. Patient transport
  - e. MRI exams under direct supervision
  - f. MRI safety
  - g. Professional ethics and behavior

### **Course Requirements**

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- 6 Clinical Evaluations
- 40 Clinical Competency Evaluations
- 13 Discussion Board Assignments
- 2 Lab Evaluations

Written assignments and research projects: Students are required to use appropriate academic resources in their research and cite sources according to the style selected by their professor.

### **Other Course Information**

The American Registry of Radiologic Technologists (ARRT) has established a minimum-scaled passing score of 75%. The MRI program has developed standards of grading that are consistent with grading systems of other programs. Letter grades will be distributed according to the following standards:

92 -100 A  
83 -91 B  
75 -82 C  
65 -74 D  
below 65 F

This course is a required course in the MRI certificate program within the Medical Imaging Department.

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