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

   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.