

Montgomery County Community College  
 RAD 251 Imaging Professionals and Professional Readiness  
 3-3-0

**COURSE DESCRIPTION:**

This course is an introduction to additional imaging concentrations. Information is shared on, but not limited to equipment, radiation dose, methods of image creation, basic indication and contraindications, image appearance and educational/certification requirements pertaining to the various imaging concentrations. This course also contains a capstone component that will review major points that were covered throughout the student's didactic & clinical education. The focus of this course will be on resume preparation, interview skills and mock Registry exams. The intent of this course is to prepare the student for the ARRT exam and for employment after graduation. Students will be required to complete a capstone project.

**REQUISITES:***Previous Course Requirements*

- RAD 221 Radiographic Procedures III
- RAD 214 Clinical Education IV
- RAD 103 Radiation Protection and Biology

*Previous or Concurrent Course Requirements*

- RAD 224 Clinical Education V
- RAD 230 Radiographic Pathology

**COURSE COMMENT(S):**

None

LEARNING OUTCOMES Upon successful completion of this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
1. Write a professional resume using proper skills in an appropriate professional format.	Lecture/Discussion Guest Presentations Student Presentations On-Line Searches Written Exercises Oral Exercises	Resume Rubric
2. Practice the skill of interviewing for a job in the diagnostic imaging field.	Lecture/Discussion Guest Presentations Student Presentations Role Playing Oral Exercises	Critical Thinking Assignments Interview Exercise
3. Compare and contrast opportunities to	Lecture/Discussion Guest Presentations	Discussion Questions Exams

advance educationally through articulation agreements with Bachelor of Science degree programs as well as participate in professional dialogue with institutional representatives.	Student Presentations On-Line Searches Written Exercises Group Discussion	
4. Complete mock registry exams to Program standard.	Lecture/Discussion Student Presentations Computer Demonstration Written Exercises Oral Exercises	Exams
5. Successfully apply for the ARRT registry examination.	Lecture/Discussion Guest Presentations Student Presentations ARRT Application On-Line Searches Written Exercises Oral Exercises	Discussion Questions Application submission
6. Explain professional credentialing and the associated organizations.	Lecture/Discussion Guest Presentations Student Presentations On-Line Searches Written Exercises Oral Exercises Videos	Discussion Questions Exams
7. Discuss and demonstrate professional development and advancement.	Lecture/Discussion Guest Presentations Professional Conference(s) ARRT Application Videos	Discussion Questions Exams
8. Describe the basis of ethics and characteristics of ethical behavior.	Lecture/Discussion Case Studies Oral Exercises	Discussion Questions Case Studies Exams
9. List ethical dilemmas and ethically-complex areas of medical imaging,	Lecture/Discussion Case Studies Oral Exercises	Discussion Questions Case Studies Exams
10. Assemble a capstone project in preparation for graduation and employment.	Lecture/Discussion Guest Presentations Mock Interview Written Exercises	Cover Letter and Resume Rubric Mock Interview(s) Reflection
11. Discuss the image	Lecture/Discussion	Discussion Questions

creation/appearance and principles of operation for equipment used in various imaging concentrations.	Guest Presentations Written Exercises Case Study	Case Studies Exams
12. Explain the basic indications and contraindications for various imaging concentrations.	Lecture/Discussion Guest Presentations Case Study Oral Exercises	Case Studies Exams
13. List the educational and certification requirements for different imaging concentrations.	Lecture/Discussion Guest Presentations Written Exercises	Discussion Questions Exams

At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Director of Educational Effectiveness. The benchmark for each learning outcome is that *70% of students will meet or exceed outcome criteria.*

#### SEQUENCE OF TOPICS:

1. Course Introduction
2. Applying for the ARRT Registry Examination
3. How to Write an Effective Cover Letter and Resume
4. How to Interview for a Position of Employment in Radiography
5. Professional Development and Advancement
6. Ethics and Ethical Behavior
7. Ethical Dilemmas in Medical Imaging
8. Additional Imaging Concentrations (e.g., Bone Densitometry, Cardiac Interventional, Magnetic Resonance, Radiation Therapy)

#### LEARNING MATERIALS:

ARRT Radiography Certification Handbook and Application Materials

Other learning materials may be required and made available directly to the student and/or via the College's Libraries and/or course management system.

#### COURSE APPROVAL:

Prepared by: Dana Smith

Date: 10/2022

VPAA or designee Compliance Verification:

Date: 11/29/2022



*This course is consistent with Montgomery County Community College's mission. It was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.*