Montgomery County Community College RAD 104 Clinical Education I 3-0-15

COURSE DESCRIPTION:

During this first semester of Clinical Education, students will be assigned to clinical areas in the clinical education center, which coincide with didactic information covered during the semester in Procedures I (RAD 111), Radiographic Image Production and Analysis (RAD 106), and RAD 100. Students will be oriented to ethics and laws as they pertain to imaging, clinical rules and regulations, the department of radiology to which they are assigned, and the clinical education handbook. Students will attend clinical education for at least 15 hours per week. This course is subject to a course fee. Refer to http://mc3.edu/adm-fin-aid/paying/tuition/course-fees for current rates.

REQUISITES:

Previous Course Requirements

- BIO 131 Human Anatomy and Physiology I with a "C" or better on the second attempt within the last 5 years of the date of enrollment in RAD 100
- BIO 132 Human Anatomy and Physiology II with a "C" or better on the second attempt within the last 5 years of the date of enrollment in RAD 100
- MATH 106 or any other Quantitative Reasoning course except ACC 110 and MAT 103, with a minimum grade of "C" within 2 attempts within the last 5 years of the date of enrollment in RAD 100

Previous or Concurrent Course Requirements

- RAD 100 Introduction to Radiography and Patient Care
- RAD 106 Radiographic image Production and Analysis
- RAD 111 Radiographic Procedures I

| LEARNING OUTCOMES Upon successful completion of this course, the student will be able to: | LEARNING ACTIVITIES | EVALUATION METHODS |
|---|-----------------------|----------------------|
| 1. Discuss ethics and the | Lecture/Discussion | Critical Thinking |
| elements of ethical | Case Study | Assignment |
| behavior and apply | Student Presentation | Discussion Questions |
| these principles. | Assigned Readings | Exams |
| | Demonstration and | |
| | Practice | |
| | Competency Simulation | |
| | Lab Assignments | |
| 2. Comply with the | Lecture/Discussion | Critical Thinking |
| concepts of the | Case Study | Assignment |
| Patient's Bill of Rights. | Assigned Readings | Discussion Questions |

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| LEARNING OUTCOM | MES LEARNING A | CTIVITIES I | EVALUATION METHODS |
|---|---|--|--|
| 3. Explain the legal implications of professional liabilimal malpractice, professional neglicarelessness and legal doctrines applicable to professional practice. | Lecture/Discu Case Study Assigned Rea ity, gence/ other | ussion (| Discussion Questions Quizzes |
| 4. Compare and con the influence of pa cultural beliefs tov illness and health | ntrast Lecture/Discu atient's Case Study ward Assigned Rea | adings I | Critical Thinking Assignment Discussion Questions Exams |
| 5. Demonstrate propersultation of a requisition, evaluation patient assessme facility readiness, patient care and management, equipment operational and technique selection positioning skills, radiation protection patient, self and of image processing evaluation of the resulting image. | Assigned Real Demonstration of Practice Competency Image Evaluation Assignments ion lection, on for others, | adings (and and land) Simulation I | Clinical Evaluations Bi weekly Evaluations Discussion Questions Image Evaluation Rubric |
| 6. Assess the proce- image for proper anatomical parts, alignment, image technique, image identification and radiation protection | Demonstration Practice Competency Image Evaluate Assignments | on and I I Simulation I ation | Clinical Evaluations Bi weekly Evaluations Discussion Questions Image Evaluation Rubric |
| 7. Demonstrate prop patient care skills interpersonal skills use of time. | , Demonstration | on and I I Simulation adings | Clinical Evaluations Bi weekly Evaluations Discussion Questions |

| LEARNING OUTCOMES | LEARNING ACTIVITIES | EVALUATION METHODS |
|---------------------|----------------------------|-----------------------|
| 8. Perform required | Assigned Readings | Clinical Evaluations |
| image procedure | Demonstration and Practice | Bi Weekly Evaluations |
| competencies. | Competency Simulation | Discussion Questions |

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 Associate Vice President of Academic Affairs. The benchmark for each learning outcome is that 70% of students will meet or exceed outcome criteria.

SEQUENCE OF TOPICS:

For the orientation period of this course, the sequence of topics is as follows:

- 1. Historical and Philosophical Context
- Ethics and Ethical Behavior
- 3. Ethical Issues in Health Care
- 4. Legal Responsibilities
- 5. Patient Consent

At the completion of the orientation period, students will begin their clinical rotations at their assigned clinical education site. They will then follow a sequence of topics relative to that experience. According to the American Registry of Radiologic Technologists (ARRT), students must demonstrate competency in 37 mandatory Radiologic procedures. At least 30 of those competencies must be demonstrated on patients (not phantoms or simulated) Students must demonstrate competency in at least 15 of the 34 elective radiological procedures. Electives may be demonstrated on patients or phantoms or as simulations. For Clinical Education I, based on topics presented in RAD 111, students will be required to achieve a minimum of 7 clinical competencies. (* indicate elective procedures)

- 1. Chest, routine
- 2. Pediatric Chest
- AP Wheelchair or Stretcher Chest
- Lateral Decubitus Chest*
- 5. Finger or thumb
- 6. Hand
- 7. Wrist
- 8. Forearm
- 9. Elbow
- 10. Humerus
- 11. Shoulder
- 12. Trauma Upper Extremity
- 13. Pediatric Upper Extremity*
- 14. Scapula*
- 15. Clavicle
- 16. Acromioclavicular Joints*

- 17. Trauma Shoulder or Humerus
- 18. Abdomen (Supine and Upright)
- 19. Abdomen (Decubitus)
- 20. Portable Chest
- 21. Portable Abdomen
- 22. Portable Extremity
- 23. Geriatric Chest Routine
- 24. Geriatric Upper Extremity

LEARNING MATERIALS:

Text:

Long, Curtis, and Smith, (2023). Merrill's *Pocket Guide to Radiography* (15th ed.). St. Louis, MO: Mosby Publishing Inc.

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: Cheryl L. Weiss, M.S., R.T. and

Dr. Victoria Bastecki-Perez

Revised by: Debra J. Poelhuis, M.S., R.T.

VPAA/Provost Compliance Verification: Dr. John C. Flynn, Jr.

Date: 12/2002

Date: 1/2009

Date: 9/11/2009

Revised by: Debra Poelhuis, R.T., M.S. Date: 10/26/2012

VPAA/Provost or designee Compliance Verification:

Victoria L. Bastecki-Perez, Ed.D. Date: 10/26/2012

Revised by: Cheryl L. DiLanzo, M.S., R.T. Date: 6/2017

VPAA/Provost or designee Compliance Verification:

Victoria L. Bastecki-Perez, Ed.D. Date: 6/26/2017

Revised by: Debbie Dalrymple and Cheryl L. DiLanzo, M.S., R.T Date: 1/9/2018

VPAA/Provost or designee Compliance Verification:

Victoria L. Bastecki-Perez, Ed.D. Date: 1/9/2018

Revised by: Dana Smith, M.S., R.T.

VPAA or designee Compliance Verification:

Date: 7/11/2023

Date: 3/27/2024

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.

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