

Montgomery County Community College
 RAD 114
 Clinical Education II
 3-0-15

COURSE DESCRIPTION:

This clinical course is a continuation of Clinical Education I. Emphasis is placed on clinical rotations where students can observe, practice and perform those examinations learned and simulated in the Radiographic Procedures I and II course. Students will be required to perform competency examinations, image evaluations and proper patient care procedures. 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*

- RAD 100 Introduction to Radiography and Patient Care
- RAD 102 Radiographic Exposure and Technique
- RAD 104 Clinical Education I
- RAD 111 Radiographic Procedures I

Previous or Concurrent Course Requirements

- RAD 113 Principles of Digital Imaging
- RAD 105 Radiation Physics
- RAD 121 Radiographic Procedures II

LEARNING OUTCOMES Upon successful completion of this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
1. Assess the patient and record clinical history.	Observation Demonstration and Practice Computer Technology Critical Thinking Activities Oral Communication Simulations	Clinical Evaluations Bi Weekly Evaluations Discussion Questions
2. Demonstrate proper evaluation of a requisition, facility readiness, equipment operation and technique selection, positioning skills, radiation protection, and image processing.	Observation Demonstration and Practice Computer Technology Critical Thinking Activities Oral Communication Simulations	Clinical Evaluations Bi Weekly Evaluations Discussion Questions

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
3. Execute medical imaging procedures under the appropriate level of supervision.	Observation Demonstration and Practice Computer Technology Critical Thinking Activities Oral Communication Simulations	Clinical Evaluations Bi Weekly Evaluations Discussion Questions
4. Assess images for proper anatomical parts, alignment, radiographic techniques, patient identification and radiation protection.	Observation Demonstration and Practice Computer Technology Critical Thinking Activities Oral Communication Simulations	Clinical Evaluations Bi Weekly Evaluations Discussion Questions
5. Demonstrate proper patient care skills, interpersonal skills and use of time.	Observation Demonstration and Practice Computer Technology Critical Thinking Activities Oral Communication Simulations	Clinical Evaluations Bi Weekly Evaluations Discussion Questions
6. Recognize the influence of professional values on patient care.	Observation Demonstration and Practice Computer Technology Critical Thinking Activities Oral Communication Simulations	Clinical Evaluations Bi Weekly Evaluations Discussion Questions
7. Adapt procedures to meet age-specific, disease-specific and cultural needs of patients.	Observation Demonstration and Practice Computer Technology Critical Thinking Activities Oral Communication Simulations	Clinical Evaluations Bi Weekly Evaluations Discussion Questions
8. Provide desired psychosocial support to patient and family.	Observation Demonstration and Practice Computer Technology Critical Thinking Activities Oral Communication Simulations	Clinical Evaluations Bi Weekly Evaluations 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:

According to the American Registry of Radiologic Technologists (ARRT), students must demonstrate competency in all 37 mandatory procedures. Procedures should be performed on patients whenever possible, but up to eight mandatory procedures may be simulated if demonstration on patients is not feasible. Students must also demonstrate competence in 15 of the 34 *elective procedures. Elective procedures should be performed on patients whenever possible, but electives may be simulated if demonstration on patients is not feasible. Based on the topics presented in RAD 111 and 121, Students will be required to achieve a minimum of 7 competencies. Any competencies from the previous semester that are required for the total may also be attempted.

1. Toes*
2. Foot/Ankle
3. Calcaneus*
4. Tibia/fibula
5. Knee/patella*
6. Femur
7. Hip/Pelvis
8. Cervical vertebrae
9. Trauma Cervical Spine
10. Thoracic vertebrae
11. Lumbar vertebrae
12. Sacrum/coccyx*
13. Scoliosis survey*
14. Pediatric Extremity*
15. Geriatric Extremity*
16. Trauma Lower Extremity
17. Sacroiliac Joints*

LEARNING MATERIALS:

Text:

Long, Curtis, and Smith, (2016). *Merrill's Pocket Guide to Radiography* (13th 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	Date: 12/2002
Revised by: Debra Poelhuis, M.S., R.T.	Date: 1/2009
VPAA/Provost Compliance Verification: Dr. John C. Flynn, Jr.	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: 10/28/2016
VPAA/Provost or designee Compliance Verification: Victoria L. Bastecki-Perez, Ed.D.	Date: 11/5/2016
Revised by: Debbie Dalrymple and Cheryl L. DiLanzo, M.S., R.T.	Date: 1/9/2018
VPAA/Provost or designee Compliance Verification:	Date: 1/9/2018



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.