

Course Abstract

If you need accommodations due to a disability, contact Disability Services in Edison Hall Room 100, 732.906.2546.

To foster a productive learning environment, the College requires that all students adhere to the Code of Student Conduct which is published in the college catalog and website.

Course ID and Name: RAD 230 Clinical Practicum III

Department: Radiography Education

Chairperson or Course Coordinator: Patricia Luck

Office Location: LH 108

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Telephone: 732-906-2583

Prerequisites: RAD 220 – Clinical Practicum II

Co-requisites: RAD 247, RAD 248, and RAD 273

Course Description:

This course provides experiences toward mastery of competencies in the skull and sinuses. Continued practical competency will be demonstrated in examinations of the appendicular skeleton, thorax, lungs, abdomen, digestive system, biliary system, and urinary system. Continued development of the student's work ethic is required. Periodic discussions, assignments, and reviews are given throughout the semester.

General Education Status: N/A

Credits: 2

Lecture Hours: 0

Clinical Hours: 16

Learning Outcomes:

Clinical Externship:

1. Demonstrate satisfactory professional conduct appropriate with her/his level of training.
2. Successfully complete a given number of mandatory Initial Competency Evaluations (ICEs) and Continual Competency Evaluations (CCEs).
3. Comply with all program policies and regulations set forth by Middlesex County College, the Radiography Education Department of MCC, and the clinical site(s).

Course Content Areas:

During clinical externship the student will:

- Successfully complete a given number of off-campus clinical assignments.
- Observe and assist staff technologists with daily activities and functions of the Radiology Department.

- Demonstrate satisfactory professional conduct appropriate with her/his level of training.
- Comply with all program policies and regulations set forth by Middlesex County College, the Radiography Education Department of MCC, and the clinical site(s).
- Identify the radiology department protocols as they relate to radiographic procedures.
- Efficiently perform radiographic examinations under direct supervision utilizing radiographic equipment and accessories as needed.
- Successfully complete a minimum of eleven (11) Initial Competency Evaluations (ICEs) and two (2) Continual Competency Evaluations (CCEs). These examinations must only be performed after successful laboratory competence. Students who demonstrate competency in any procedure may perform that procedure with indirect supervision. This means that the licensed radiographer need not be present in the radiographic room during the procedure, but must be adjacent to the room and immediately available should the student require assistance. Any student who produces an unacceptable image that requires a retake must have it performed with direct supervision regardless of that student's level of competency. Failure to comply with this rule will subject the student to disciplinary action.

Competency Based Clinical Education (CBCE) Standard

Middlesex County College Radiography Education Department complies with competency requirements set forth by the American Registry of Radiologic Technologists (ARRT) and The Radiologic Technologist Board of Examiners (Board)-Bureau of X-ray Compliance of the New Jersey Department of Environmental Protection. CBCE is a progressive approach to the clinical development of a student. After didactic and laboratory instruction and documented laboratory proficiency, the student proceeds to the participation stage of the CBCE system. During the participation stage the student performs procedures under direct supervision at the clinical site. Once competency is documented on a specific procedure, the student can then perform that procedure under indirect supervision. There are three types of clinical competency evaluations (CCEs): (1) Initial Clinical Competency Evaluations (ICEs); (2) Continual Clinical Competency Evaluations (CCEs); and (3) Terminal Clinical Competency Evaluations (TCEs). All evaluations must be performed on patients. ICE's are usually performed on ambulatory, non-traumatic patients. As the student progresses to CCE's and TCE's, the procedures and patient types become progressively more difficult.

Textbook Requirement:

Trajecsys On-line Competency Evaluation Subscription

Code of Student Conduct:

- All students must abide by the Code of Student Conduct. Any student found cheating or plagiarizing will, at minimum, receive a grade of zero for that test or assignment. The instructor reserves the right to fail the student for the course and/or pursue further action including the enforcement of the "Code of Student Conduct."
<http://www.middlesexcc.edu/registrar/images/cosc.pdf>

Grading Standard:

A	94-100
A-	90-93.99
B+	88-89.99
B	84-87.99
B-	80-83.99
C+	78-79.99
C	75-77.99
D	70-74.99
F	<70

Success Criteria:

The student must earn a minimum course grade of “C” (75%) or higher in order to continue in sequencing of radiography courses. The following course grade distribution will be utilized:

Attendance and participation in all clinical experiences	30%
Completion of all required competency evaluations	30%
Affective Domain Evaluations and policy compliance	30%
Repeat Log/Submission of Daily Clinical Logs/Technique Book	10%
Total- 100%	

Clinical Attendance and Participation/Experiences will be calculated as follows:

- Students are expected to attend all scheduled clinic days. Partial points are not awarded for attendance. **THE STUDENT IS REQUIRED TO NOTIFY HIS/HER CLINICAL INSTRUCTOR AND THE CLINICAL COORDINATOR OF AN ABSENCE ACCORDING TO THE GUIDELINES SET FORTH IN THE STUDENT HANDBOOK.**
- Students are allowed two (2) excused absences for RAD 230-Clinical Practicum III.
- Additional absences must be made-up within 2 days of the last day of the semester to successfully complete the participation requirement.
- The student must receive written authorization to complete a Make-up Day from the Clinical Instructor and the Clinical Coordinator prior to the last day of class.
- The student shall participate in all activities or conferences facilitated by MCC faculty or staff.

Competency Evaluations:

- The student must successfully complete a minimum of eleven (11) Initial Competency Evaluations and two (2) Continual Competency Evaluations (CCEs) by the end of the semester. All evaluations must be performed under the direct supervision of the designated Clinical Instructor or Middlesex County College Radiography Education faculty/liaison. The successful completion of all pre-procedure objectives and a grade of “18” or better are required on all evaluations.
- Failure to complete/submit all required competency evaluations by the due date will result in a ten (10) point deduction from the clinical grade.

- Unsuccessful evaluations (below a score of 18) will require a six (6) point deduction from the clinical grade and remediation as stated in the student handbook.
- **It is possible for a student to fail the course as a result of poor performance, unsafe practices, unprofessional behavior, excessive absences, etc.**
- Students who demonstrate competency in any procedure may perform that procedure with indirect supervision. This means that the licensed radiographer need not be present in the radiographic room during the procedure, but must be adjacent to the room and immediately available should the student require assistance.
- Any student who produces an unacceptable image that requires a retake must have it performed with direct supervision regardless of that student's level of competency. Failure to comply with this rule will subject the student to disciplinary action.

Program Policy and Regulation Compliance:

- The student must follow standards established in the Middlesex County College Radiography Education Department Student Handbook, The MCC Catalog, and clinical site(s) policies/objectives regarding school activities, coursework, and off campus clinical rotations.
- Failure to meet any of these terms will result in the issuance of a student non-compliance form which will negatively affect the student's clinical grade. The student may also be dismissed from clinic depending on the severity of the infraction.
- Accrued non-compliance notifications will result in disciplinary action, failure of the course, and/ or dismissal from the program. Each "minor" non-compliance infraction will result in a minimum three (3) point deduction from the student's clinical grade. If the issue is of a more serious nature, it will be referred to the Radiography Department Chairperson for resolution.

Professional Conduct:

- The student will exhibit appropriate professional conduct. During this clinical experience, the student's conduct will be measured using the Affective Domain Evaluation Form. The expected outcomes are in the following areas:
 - A. Academic Expectations (Cognitive and Psychomotor)
 - Transfer of learning, comprehension and judgment
 - Practice of Standard Precautions
 - Application of basic principles of patient care and radiation safety
 - Operation of equipment
 - Knowledge of technical factors
 - Positioning skills
 - Procedure management
 - Quantity of performance
 - B. Communication Skills
 - Patient rapport
 - Patient interaction and verbal communication
 - Communication with hospital staff

C. Professional and Affective Behaviors

Initiative

Response toward supervision and guidance

Punctuality and dependability

Professional attitude, ethics, and appearance

- A failure to display certain affective skills or progress appropriately may lead to remediation. All remediation must be completed in order to pass the course. A grade of “F” will be assigned for remediation not completed by the end of the semester.
- **A minimum score of “58” on the final Affective Domain Evaluation and completion of all remediation/open lab referral plans is required to pass the course.**

Repeat Log

- The student will document all repeat exposures performed at the clinical site. Each entry must indicate the date, examination, reason, and number of repeated exposures. **All repeats must be performed under direct supervision.** The supervising technologist must initial the log.
- The student will enter all information on the daily log sheets into their individual Trajecsyst account.

General Course Objectives:

Clinical Externship:

- Observe and assist a licensed radiologic technologist during radiographic procedures and daily activities.
- Complete all clinical assignments under the supervision of a licensed radiologic technologist.
- Exhibit appropriate professional conduct.
- Adhere to standards established in the Middlesex County College Radiography Education Department Student Handbook regarding school, course, and clinical site policies/objectives.
- Given a patient and a requisition for an examination, perform radiographic examinations under direct supervision.
- Perform routine examinations for clinical competency through evaluation (ICE and CCE). All competency evaluations must be performed under direct supervision of the designated Clinical Instructor or Middlesex County College Radiography Education Faculty/Staff. The successful performance of all pre-procedure objectives and a passing score are required on all evaluations.
- Exercise the priorities required in daily clinical practice.
- Adapt to changes and varying clinical situations.
- Provide patient-centered clinically effective care for all patients regardless of age, gender, disability, special needs, ethnicity or culture.
- Integrate the use of appropriate and effective written, oral and nonverbal communication with patients, the public and members of the health care team in the clinical setting.
- Provide appropriate support to the patient and family.

- Demonstrate competent assessment skills through effective observation of the patient's physical and mental status.
- Respond appropriately to medical emergencies.
- Adapt procedures to meet age-specific, disease-specific and cultural needs of patients.
- Assess the patient and record clinical history.
- Apply standard and transmission-based precautions.
- Apply the appropriate medical asepsis and sterile technique.
- Demonstrate competency in the principles of radiation protection standards.
- Examine procedure orders for accuracy and take corrective actions when applicable.
- Demonstrate safe, ethical, and legal practices.
- Maintain patient confidentiality standards and meet HIPAA requirements.
- Demonstrate the principles of transferring, positioning, and immobilizing patients.
- Comply with departmental and institutional response to emergencies, disasters and accidents.
- Differentiate between emergency and non-emergency procedures.
- Adhere to national, institutional, and departmental standards, policies and procedures regarding care of patients, providing radiologic procedures and reducing medical errors.
- Select technical factors to produce quality diagnostic images with the lowest radiation exposure possible.
- Critique images for appropriate anatomy, image quality and patient identification.
- Determine corrective measures to improve inadequate images.

AGENDA Week #1	<ul style="list-style-type: none"> • Clinical Externship
Week #2	<ul style="list-style-type: none"> • Clinical Externship
Week #3	<ul style="list-style-type: none"> • Clinical Externship
Week #4	<ul style="list-style-type: none"> • Clinical Externship
Week #5	<ul style="list-style-type: none"> • Clinical Externship

Week #6	<ul style="list-style-type: none">• Clinical Externship
Week #7	<ul style="list-style-type: none">• Clinical Externship
Week #8	<ul style="list-style-type: none">• Clinical Externship
Week #9	<ul style="list-style-type: none">• Clinical Externship
Week #10	<ul style="list-style-type: none">• Clinical Externship
Week #11	<ul style="list-style-type: none">• Clinical Externship
Week #12	<ul style="list-style-type: none">• Clinical Externship
Week #13	<ul style="list-style-type: none">• Clinical Externship
Week #14	<ul style="list-style-type: none">• Clinical Externship
Week #15	<ul style="list-style-type: none">• Clinical Externship