

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 190- Clinical Orientation

Department: Radiography

Chairperson or Course Coordinator: Patricia Luck

Office Location: LH 108

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Telephone: 732-548-6000 ext. 3335

Prerequisites: Criminal Background Check, Drug Screen, CPR Certification (BLS Level C for Healthcare Workers), proof of medical insurance, all required health records and medical clearance from the MCC nurse

Co-requisites: RAD 128, RAD 141, RAD 142, and RAD 171

Course Description:

This course is a hands-on clinical experience introducing the student to the clinical setting. Once an on-campus orientation has been completed, the student will demonstrate basic technologist skills by assisting the staff technologists during radiographic examinations.

General Education Status: N/A

Credits: 1

Lecture Hours: 0

Clinical Hours: 8

Learning Outcomes:

1. Define radiography literature and identify credible sources.
2. Demonstrate appropriate professional conduct, adhering to the Code of Ethics.
3. Assist a radiologic technologist with daily department practices.
4. Demonstrate the principles of radiation protection for patients, self, and others.
5. Demonstrate the principles of proper body mechanics when lifting heavy objects and transferring patients.
6. Demonstrate therapeutic communication skills, adhere to the highest level of patient confidentiality, and protect the patient's rights at all times.
7. Demonstrate aseptic hand washing and the proper handling and disposal of contaminated items.

Course Content Area:

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 one (1) Initial Competency Evaluations (ICEs). 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 patients types become more progressively difficult.

Textbooks:

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>

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 (CE). 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 management 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.

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/Policy Compliance	50%
Information Literacy Assignment	15%
Completion of 1 Competency Evaluation	25%
Quizzes/Tests/Assignments	<u>10%</u>
Total:	100%

Clinical Externship Grading Policy:

Introduction Assignments:

The student must successfully complete all clinical activities under the supervision of a licensed radiologic technologist. Documentation of each experience must be recorded on the appropriate clinical assignment sheet and verified by the assisting technologist. Weekly activities include the following (subject to change):

- Patient Preparation and Communication Skills
- Infection Control
- Body Mechanics
- Image Processing Procedures and PACS
- Radiation Safety
- Equipment Operation
- Assisting the Radiographer

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

- Each day present at the clinic is worth 7 points towards your final grade. Absence from clinicals will result in failure of the course.
*Note: It is possible for a student who attends all scheduled sessions to fail the course due to performance in other success criteria areas.
- The student shall participate in all activities or conferences facilitated by MCC faculty or staff.

Student Class Absence Due to Covid-19-related Illness:

- If you need to miss a class due to COVID-19-related illness, you are responsible for contacting your instructor to let them know of the need as soon as possible.
- You are responsible for completing any work that you might miss due to COVID-19-related illness, including assignments, quizzes, tests, and exams.
- If you might need to miss more than two consecutive weeks of classes in any one semester due to COVID-19-related illness, you must contact the Dean of the Division of your major (Dr. Donna Howell (DHowell@middlesexcc.edu) Business, STEM, and Health Professions Division). You may be required to provide a doctor's note of explanation. The Dean will communicate the receipt of the note (with expected end date) to the relevant faculty.

Competency Evaluations:

- The student is required to perform two (2) routine chest Performance Observations (PO), under direct supervision of a Registered Technologist at the clinical site by mid-term. Since the performance observation is considered a learning experience, assistance/input from the observing technologist is acceptable.
- The student is required to perform one (1) routine chest Initial Competency Evaluation (ICE) under direct supervision of a Clinical Instructor or MCC faculty/liaison. 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.

- 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:
 - Professional Demeanor
 - Program Regulations and Professional Ethics
 - General Attitude, Interaction, and Verbal Communications
 - Patient Rapport
 - Initiative
 - Response Toward Supervision and Guidance
- 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.

LAB AGENDA Week #1	<ul style="list-style-type: none"> • Welcome • Review of Module and Agenda • Radiologic Terminology
Week #2	<ul style="list-style-type: none"> • Information Literacy Assignment (Zoom session with C. Dolan, Technical Services Librarian)
Week #3	<ul style="list-style-type: none"> • Communication and Confidentiality (HIPAA) • The Student Handbook (Part I)
Week #4	<ul style="list-style-type: none"> • The Student Handbook (Part II)
Week #5	<ul style="list-style-type: none"> • RWJ Barnabas student orientation
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"> • On-Campus Class Discussion