



**RADIOLOGIC TECHNOLOGY PROGRAM**

**STUDENT HANDBOOK**

**and**

**POLICY MANUAL**

**May 19, 2015**

Endorsed by the Radiologic Technology Advisory Board

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## **Forward**

This handbook is designed to be used as a quick reference concerning your responsibilities as a student in the Radiologic Technology Program. It also provides space to record your day-to-day clinical activities and includes your clinical labs.

This handbook will also serve as a supplement to the College Student handbook which is located on the college's web site @<https://www.middlesex.mass.edu/deanofstudents/studhand2.aspx>. You are encouraged to study these handbooks and be completely familiar with each. These handbooks will assist you with answers to the many questions that arise each year relative to the policies of the college, the program, and clinical affiliates.

## **Mission Statement**

The mission of the Radiologic Technology program is to provide a high quality learning environment, which will prepare Radiographers for the evolving workforce. Through clinical partnerships, students will provide the highest level of quality patient care, employ ALARA standards, perform a variety of diagnostic procedures and participate in professional activities.

## **Program Goals**

1. Students will be clinically competent.
2. Students will engage in professional activities.
3. Students will demonstrate effective communication skills.
4. Students will demonstrate effective critical thinking skills.

## **Student Learning Outcomes**

1. Students will position patients accurately.
2. Students will provide quality patient care.
3. Students will practice radiation safety following ALARA standards.
4. Students will exhibit professional behaviors.
5. Students will demonstrate leadership skills.
6. Students will demonstrate effective written skills.
7. Students will demonstrate effective verbal communication skills.
8. Students will perform non-routine exams effectively.
9. Students will modify technical factors.

## **COLLEGE POLICIES**

The following policies are to be observed while attending the academic portion of the program.

### ***ATTENDANCE:***

The course professor establishes attendance requirements.

## ***EXAMINATION:***

1. Examination dates are indicated on the course syllabus for each semester and in addition will be announced one week in advance. In case of inclement weather or other unforeseen circumstances, the examination will be held on the next class day.
2. Make-up exams are given at the discretion of the course professor.

## ***ACADEMIC INTEGRITY***

1. Cheating: anyone caught cheating on an examination, will receive a zero for that examination. Cheating may result in expulsion from the program.
2. Falsifying Clinical documents will result in expulsion from the program.

## ***GRADING:***

A grade of 2.0 = (C) = 73% in all "RAD" didactic courses must be maintained. Those students with below a "C" average will receive a mid-semester warning. Failure to bring up the RAD course grade by semester end will mean expulsion from the program. Consult your college handbook for the letter grading system.

All Clinical courses are graded on a pass/fail basis. A passing grade of 85% or greater must be maintained. Failure to receive a grade of 85% or greater (passing) could mean expulsion from the program.

## ***CREDIT HOURS:***

The Radiologic Technology Program calculates credit hours using the formula below:

1. 15 contact hours/semester=1 credit.
2. 1 classroom hour=1 contact hour.
3. 2 lab hours= 1 contact hour
4. 5 clinical hours = 1 contact hour.

Example 1:

Radiologic Positioning I, 3 credit course.

15 week course, 3 contact hours/week.

$15 \times 3 = 45$  hours.

$45/15 = 3$  credits for course.

Example 2:

Clinical Practicum I, 3 credit course.

15 week course, 15 contact hours/week.

$15 \times 15 = 225$  hours.

$225/5$  (ratio of clinic to contact) = 45 contact hours/ $15$  (ratio of contact to credit) = 3 credit course.

## ***STUDENT RIGHTS:***

1. The right to review a student's records and deny continuation in the program due to the student's performance lies with the College and clinical agencies.
2. All official student records are open to the student for inspection.
3. All evaluations conducted in the clinical area are to be signed by the student. This signature signifies that the student has read the evaluation and has received an explanation of the evaluation.

## ***SMOKING:***

Middlesex Community College is smoke free.

## ***PROBLEMS:***

Recognizing that the College and Hospital Affiliates conduct a joint effort in the education of Radiographers; any problem which may arise within the hospital area, must be discussed with hospital officials before involving the college. Failure to satisfactorily resolve the issue will require a further investigation into the problem by the College faculty in conjunction with hospital personnel.

## ***JRCERT STANDARDS OF COMPLIANCE POLICY:***

All complaints regarding allegations that the Radiologic Technology program is in non-compliance of the **STANDARDS FOR AN ACCREDITED EDUCATIONAL PROGRAM IN RADIOLOGIC TECHNOLOGY** can be directed to:

JRCERT  
20. N. Wacker Drive  
Suite 2850  
Chicago, Il 60606-3182  
Phone: (312) 704-5300  
Fax: (312) 704-5304  
mail@jrecert.org\_or www.jrcert.org

Upon notification from the JRCERT that the program is in non-compliance the program director will meet with the Clinical Coordinators and Clinical Instructors within one week and devise a plan to bring the program into compliance.

## ***STANDARDS FOR AN ACCREDITED PROGRAM IN RAD SCIENCES***

### **Standard One: Integrity**

The program demonstrates integrity in the following: representations to communities of interest and the public, pursuit of fair and equitable academic practices, and treatment of, and respect for, students, faculty, and staff.

### **Standard Two: Resources**

The program has sufficient resources to support the quality and effectiveness of the educational process.

### **Standard Three: Curriculum and Academic Practices**

The program's curriculum and academic practices prepare students for professional practice.

### **Standard Four: Health and Safety**

The program's policies and procedures promote the health, safety, and optimal use of radiation for students, patients, and the general public.

### **Standard Five: Assessment**

The program develops and implements a system of planning and evaluation of student learning and program effectiveness outcomes in support of its mission.

## **Standard Six: Institutional/Programmatic Data**

The program complies with JRCERT policies, procedures, and STANDARDS to achieve and maintain specialized accreditation.

### ***HARRASSMENT POLICY:***

Students effected by or involved with any form of harassment from or towards any fellow student, faculty, clinical staff, patients or any other individual associated with the Radiologic Technology program are unacceptable, impermissible and intolerable. The accepted definition is that which is published in the college Student Handbook. Allegations of harassment within the clinical setting shall be brought to the attention of the clinical education coordinator and forwarded to the program director for action within the policies of both the clinical education setting and college.

### ***COLLEGE ACTIVITIES:***

We do recommend that you become actively involved in college activities, such as the Radiography Club, whenever possible.

### ***STORM DAYS***

If college classes are cancelled due to inclement weather, students will not attend the clinical portion of the program. Storm days may require make-up days, at the discretion of the clinical instructor.

### ***COMMUNICABLE DISEASE POLICY***

Students will be admitted to the health programs without regard for the presence of communicable disease. Students who have illnesses may continue to participate in the activities of the college as long as they meet acceptable performance standards and medical evidence indicates that their condition is not a threat to themselves, other students or to their patients.

Students who are immunologically compromised will be excused from institutional requirements for certain vaccinations, notable measles and rubella, as these vaccinations may lead to serious consequences in those with poorly functioning immune systems.

### ***BUCKLEY AMENDMENT & STUDENT ACCESS TO RECORDS:***

The Family Education Rights and Privacy Act referred to, as The Buckley Amendment, in this policy is to provide the student with a right to privacy and access to his/her school records. Middlesex Community College Radiologic Technology Program will comply with this amendment outlined in the procedure below.

#### **PROCEDURE**

Students enrolled in the Radiologic Technology Program will have the following records kept on them:

1. Completed Enrollment Application Form
2. High School Transcripts
3. Letters of Recommendation
4. Placement Examination
5. Transcripts
6. Clinical Competency Evaluations
7. Performance Evaluations
8. Attendance
9. Didactic Examination Scores

The following people will have the responsibility of maintaining and keeping all program related records. These individuals are also authorized to have access to all the aforementioned records.

1. Program Director, Radiologic Technology Program
2. Clinical Coordinator, Radiologic Technology Program
3. Clinical Instructors, Radiologic Technology Program

The members of a site visitation team performed by the Joint Review Committee on Education in Radiologic Technology (for the purpose of accreditation only) will have temporary access to all records only during the actual visitation.

Students wishing to view their records may do so by requesting access from the program director. If there are documents in which the student has waived the right to view, they will be removed from the folder before being given to the student.

After the student has completed viewing the folder, any documents removed will be returned and the file is then returned to the central file.

Records will not be shown to anyone else or mailed to any other institution without the written consent of the student.

### ***CERTIFICATION EXAMINATION***

The American Registry of Radiologic Technologists offers its examination on a computer based testing format. See Examinee Handbook for details. An application fee is required. The application is filled out by the student and endorsed by the Radiologic Technology Program Director.

Individuals convicted of a crime may not be eligible for the American Registry of Radiologic Technologist certification examination.

### ***PROFESSIONAL SOCIETY MEMBERSHIP***

Membership in the American Society of Radiologic Technologist and membership in the Massachusetts Society of Radiologic Technologist is encouraged. Applications will be distributed during department orientation.

### ***CPR CERTIFICATION***

Students enrolled in the Radiography program will be required to obtain CPR certification at the health care provider level. A copy of your CPR card will be kept on file at the college.

### ***HEALTH PROGRAMS HEALTH REQUIREMENTS***

#### **MIDDLESEX COMMUNITY COLLEGE HEALTH & STEM DIVISION**

Students accepted to Health Programs will complete the following Immunization and Health Requirements in order to participate in a field placement or clinical experience. **Students who are not in compliance with these policies will not be allowed to participate in clinical experiences.**

#### **Health Record Requirements**

**Completion of:**

1. Personal Health History form.
2. Physical examination and evaluation form by the student's health care provider.
3. Testing for Color Deficiency. (This may be done at the Center for Health & Wellness).
4. Two-step test for Tuberculosis, done within three months of entering the program and updated annually. (A negative chest x-ray report is required of all students who are known positive reactors to the Mantoux test).

### **Immunization Requirements:**

#### **Documentation of:**

1. Tdap vaccination (one lifetime dose given after 2005).
2. Two doses of MMR vaccine, give at least one month apart on/or after 12 months of age and after 1968, **OR** a positive Titer report for all three - (1) Rubeola, (2) Mumps, (3) Rubella , **OR** documentation of one **MMR and** supporting immunity laboratory reports.
3. Completion of the 3 dose Hepatitis B (HBV) vaccine series, **OR** a positive Hepatitis B Antibody Titer report.
4. A positive Varicella Titer, **OR** if not immune, two doses of Varicella vaccine given one month apart.

Note: The annual Flu vaccine is strongly recommended for all students enrolled in a health program. Some clinical sites may require students to be immunized annually with the flu vaccine in order to participate in clinical at that site.

### **OSHA Requirements:**

1. Color Deficiency testing.
2. Education for OSHA Blood-borne Pathogen Standard and Universal Precautions for all health program students prior to clinical placement.

### **Malpractice Insurance**

Malpractice/Liability Coverage of one million dollars per incident and three million dollar aggregate is maintained for all students in health programs. This insurance only addresses a claim arising from activities required by the student's program.

### **Student Health and Medical Insurance:**

All students enrolled in Health Programs are required to carry health insurance because of the potential of exposure to a variety of communicable/infectious diseases as well as contractual requirements of some affiliating agencies. The period of coverage must be current throughout students' enrollment in the Health Program.

### **Health Record Clearance for Participation in the Clinical Area:**

All enrolled Health Program students, new and returning, will be expected to have completed the Health, Immunizations and OSHA (Color Deficiency Testing) requirements prior to participation in any clinical course.

All students should submit records to the Center for Health & Wellness as soon as possible after acceptance. The records will be reviewed and depending upon completeness of the record, the program coordinator will be notified regarding medical clearance status for students enrolled in their specific programs.

### **Medical Clearance for Return to Class/Clinical after Illness/Injury:**

1. Students are responsible to notify their course faculty/clinical instructor and the appropriate Assistant Dean\* within 24 hours of any change in health status, including but not limited to:
  - exposure to a reportable disease requiring isolation/quarantine
  - symptoms/disease
  - accident/injury
  - any condition that may change health status\*students in the Nursing Program should notify the Assistant Dean of Nursing, all other health program students should notify the Assistant Dean of Health.
2. The Assistant Dean will provide the student with a copy of a clinical clearance form to submit to the student's health care provider.
3. Students will not be permitted to return to classes or the clinical area until documentation from the health care provider is returned to the appropriate Assistant Dean and the student is cleared to return.
4. The Assistant Dean will notify the appropriate course faculty/clinical instructor that the student is cleared to return, and send the original of the clinical clearance form to the Center for Health & Wellness.

## ***LABORATORY POLICY***

Students will adhere to the laboratory policy when practicing with each other during open labs, performing assessments, and or conducting phantom radiography.

- Students must wear radiation monitors when at their clinical affiliate and at the college when using the energized lab.
- The radiation monitors are to be worn at the collar.
- Students must be supervised by a licensed Radiographer or the x-ray tube needs to be deactivated when using the energized lab at the college.
- Any student not wearing a radiation monitor will not be allowed to use the lab.
- Students will never hold a phantom or image receptor during a procedure while ionizing radiation is in use.
- There will be no eating or drinking in the lab.
- The students will bring a positioning partner with him/her during open lab.
- The lab will be cleaned after each use.

# HOSPITAL AND PROGRAM POLICIES

## *CLINICAL AFFILIATION*

Following is a list of hospitals that have, through formal agreements, agreed to act as the clinical agencies for our program. In order that we maintain continuity in your clinical education, students will rotate to at least two clinical sites. A copy of the agreement between Middlesex and its affiliate hospitals is kept on file in the College faculty office and the Radiology department.

### Emerson Hospital-Concord, MA

David Rose, MD	Chief Radiologist
Pat Sousa	Director of Radiology
Marianne Green, RTR	Clinical Instructor

Lahey Hospital and Medical Center	Burlington, MA
Dr. Curtis W. Bakal	Chairman of Radiology
Patricia Doyle, MBA, CRA, RTR, MR	Director of Radiology
Elaine McHugh, RTR	Clinical Instructor

### Newton-Wellesley Hospital – Newton, MA

Steven Miller, M.D.	Chief Radiologist
Laura Chapman, RTR	Department Manager
Sheila Lenihan, RTR	Clinical Instructor
Kathy Gerrish, RTRM	Clinical Instructor

### Lowell General Hospital, Saints Campus – Lowell, MA

Dr. Scott Abele	Chief Radiologist
Mickey Martinez	Department Manager
Karen Brunelle, RTR	Clinical Instructor

### Winchester Hospital – Winchester, MA

Robert Fortunato, MD	Chief Radiologist
Steve Re, RTR	Administrative Director
Julie Dalton, RTR	Clinical Instructor

### Newton-Wellesley Hospital – Waltham Urgent Care

Steven Miller, M.D.	Chief Radiologist
Laura Chapman, RTR	Department Manager
Sheila Lenihan, RTR	Clinical Instructor
Suzanne Morash, RTR	Clinical Instructor

## ***CLINICAL ASSIGNMENTS***

Students will be assigned to at least two of the clinical agencies listed above during their two years in the Radiology Program. Students must be willing to commute up to 100 miles at their own expense for clinical rotations.

## ***CLINIC/CLASSROOM HOURS***

The Joint Review Committee on Education in Radiologic Technology recommends that a combination of clinic experience and classroom hours not exceed 40 hours per week. Under our present system, the student is below the requirement of the 40 hours per week.

Clinic Rotation will be as follows:

Freshmen.....Tuesday and Thursday - Both semesters 7:30-3:30

Summer Practicum - Monday thru Friday 7:30-3:30 for 10 weeks

Seniors.....Monday, Wednesday, and Friday 7:30-3:30.

## ***ATTENDANCE***

As a professional, we have a responsibility to the patient and hospital staff to arrive at the clinic on assigned time. Therefore, clinic punctuality is a must.

(See attendance sheets)

## ***TARDINESS***

First incident per practicum - informal verbal warning.

Second incident per practicum - formal written warning.

Third incident per practicum - written warning to include a "last chance" notice.

Fourth incident per practicum - Dismissal from clinical practicum.

Each incident and action must be documented.

## ***ABSENCE***

Students will be allowed 1 absence per semester for clinical courses. Any absence that exceeds this must be made up before the end of the semester in which the absence occurred at the discretion of the Program Director and or Clinical Coordinator.

## ***EXTENDED LEAVE***

An extended leave of absence may be granted for extraordinary circumstances. This leave time will be made-up and granted at the discretion of the Clinical Instructor and Program Director

## ***HOSPITAL POLICIES & PROCEDURES***

Follow the rules and regulations of your own hospital and department as established and explained by your clinical supervisors.

## ***PATIENT CONFIDENTIALITY POLICY (HIPAA)***

Students in the Radiologic Technology Program will have access to patient and hospital information. This information may contain data that is confidential such as technical, non-technical, medical records and other information that is not available to the public.

This information is the property of the clinical site that the student is assigned. Maintaining confidentiality is essential in the student's access to and use of this information.

Students will be required to sign a statement of confidentiality to be kept on file at the college. The clinical sites will also ask the students to sign a statement of confidentiality.

Any student violating the confidentiality policy will be subject to disciplinary action up to and including dismissal from the clinical site and/or the Radiology Program.

### ***GRIEVANCE***

Any problem that may arise between the student and the department and/or its personnel must be discussed FIRST with clinical instructor. If there is no mutually satisfactory resolution, then a request for college faculty to participate in the discussion may be initiated by either party, with advance written notification to ALL parties concerned. An Instructor – Student Conference form will be filled out for all meetings between students and their Instructors. See college handbook for additional information regarding the grievance policy.

### ***PERSONAL APPEARANCE***

Students will follow the uniform policy listed below. Failure to follow these policies will result in the student being sent home and making up the day at a later time.

Wear clean, appropriate footwear, no clogs. Foot must be enclosed in the shoe.

Jewelry may be worn. (in accordance with hospital policy)

Have neat hairstyle. Both men and women with long hair must tie it back or pin it up.

Moderate make-up may be worn.

Oral and personal hygiene is a must.

Name tags and radiation monitor badges must be worn at all times. (See Clinical Instructor)

Beards must be kept neat, trimmed and clean at all times

Hunter Green pants to match Green top, optional lab coat.

Imaging patch to be worn on left sleeve

Artificial nails are forbidden in the clinical area

### ***STIPENDS***

No stipend will be paid to the student at any time during the program.

### ***VACATION***

No modification or substitutions are to be made for vacations during the academic year.

### ***TRANSFERS***

Transfer to other clinical affiliations occurs only as a final option. If a clinical transfer does take place, the student will undergo a three-month probation period at the new hospital. No more than two clinical placements will be allowed.

Requests for transfers must be submitted in writing by the student to the Program Director

The Program reserves the right to transfer students as needed.

### ***SICK TIME (calling in)***

Students must phone their clinical instructors according to hospital policy if they will be out sick.

## ***SMOKING***

All of our Clinical sites are smoke free.

## ***RADIATION SAFETY and MONITOR POLICY***

**IT IS REQUIRED BY LAW THAT ALL PERSONS WORKING WITH OR AROUND X-RAY EQUIPMENT AND/OR RADIOACTIVE MATERIALS WEAR CURRENT RADIATION MONITORS.**

Radiation monitors are furnished to students in accordance with existing state and federal regulations, which require that students wear them when working in areas where potential radiation exposure may occur. The reports regarding your exposure become a part of your permanent record and are open for your inspection. When you leave this institution, be sure to request a copy of your exposure record to either take with you or to have sent to your employer.

In order to utilize the radiation monitor most effectively and to have the most accurate records possible, the following regulations must be observed:

- Students must wear radiation monitors when at their clinical affiliate and at the college when using the energized lab.
- Students must be supervised by a licensed Radiographer or the x-ray tube needs to be deactivated when using the energized lab at the college.
- The radiation monitors are to be worn as follows: At the collar, outside the apron.
- Any student not wearing a radiation monitor will not be allowed in radiation areas, and the time missed will be considered a clinical absence.
- Students will be required to wear a lead apron and thyroid shield during procedures such as: fluoroscopy, C-arm procedures, and portable radiography
- Students will never hold a patient or image receptor during a procedure while ionizing radiation is in use.
- Students will never take an exposure while a Radiographer is holding a patient and or an Image receptor.
- Students will properly shield all patients while performing procedures. Failure to do so will result in a 15 point deduction from the student's grade if failure to shield occurs during a competency exam.

**Notice:** Students will be instructed in the as low as reasonably achievable (ALARA) philosophy. The Program Director, Clinical faculty, Chief Radiologist, Radiation Safety Officer, Radiation Physicist, or all five, will investigate all instances in which dose limits are exceeded. The student will then be counseled as to the appropriate course of action and review of radiation safety practices. Actual dose limit is any single quarterly reading of 80 mrem or above. "Accidental" exposures due to badges left on aprons, etc., will be documented where proven.

**Notice: failure to adhere to this policy may result in dismissal from the program.**

## ***PERSONAL MEDICAL INSURANCE***

Clinical sites, by contractual agreement, will NOT pay for injuries/illness incurred on site. Students will be provided appropriate medical care (on site) but the student's personal medical insurance will be billed. All students are required to carry medical insurance while attending the program.

## ***COMMUNICABLE DISEASE POLICY***

Students in the health programs are expected to deliver care without prejudice to all patients. The only exception to the above would be in consideration of personal risk factors, such as in cases of immunosuppression.

Students are required to follow the policies governing caring for patients with communicable diseases that are written at each of the clinical agencies. Students must also follow the agency policies on caring for patients when the caregiver has a communicable disease.

Students in the health programs must realize that they have an ethical and legal responsibility to the individual for whom they provide care to maintain a high standard of health.

## ***BLOOD and BODY FLUIDS EXPOSURE GUIDELINES***

### **POLICY:**

Any injury which results in an exposure (of mucous membranes, open skin lesions, sharp instruments or needle sticks) to blood or other body fluids at on-campus clinics or laboratories should be reported to the College Health Service at the time of the exposure. The following guidelines should be used to protect the student (or employee) and provide immediate assistance. The referral for an exposure should be to a hospital emergency facility.

### **Report Exposure Incident / First Aid:**

Inform Clinical Instructor or Supervisor of the exposure immediately before continuing any further patient procedures. Initiate first aid by cleansing affected areas well: mucus membrane, open skin lesions, site of needle stick or sharp instrument puncture, etc.

### **Exposure Counseling:**

The Clinical Instructor or Supervisor should discuss with student and source patient:

- a. The importance of testing immediately for HIV, HBV, and HCV (CDC notice 4/98).
- b. Confidentiality of testing and reporting (written permission required for both at the testing site.)

### **Cost of Testing:**

Testing for the source patient should be billed to the College Health Service.

Student's insurance will be billed for the testing (and chemoprophylaxis if warranted). Any special insurance notification should be completed at this time.

Employees will be covered by Workers' Compensation Insurance (contact College Health Service Office within 24 hours to initiate claim).

### **Referral:**

Student (or employee) and source patient should be referred immediately to a hospital emergency facility.

Call ahead to the emergency facility to notify of arrival.

If student or source patient chooses to use own personal physician, the Supervisor should inform the physician's office of the nature of the exposure and request testing as soon as possible within two hours. (If this is the primary care physician and the patient is unable to be seen quickly, ask to which hospital emergency unit the student may be referred.)

As a source of information for decision-making at the testing site, a copy of the Accident Report should be sent with the student. Include last Tetanus-diphtheria date and Hepatitis B vaccine status.

### **Accident Report:**

Complete the **Accident Report: Blood and Body Fluid Exposure** form.

Notify Director of Health Services and forward original Accident Report to the Lowell Campus Health Service Office with copies to:

- a. Program Coordinator

**Refusal of Evaluation:**

The student has the right to refuse testing and evaluation. In this case, the student should sign the Declination of Testing and/or Follow-up Procedures statement on the Accident Report form.

**Exposure Follow-up:**

The Director of Health Services will work with the student/employee regarding post-exposure follow-up testing.

***CLINICAL DIFFERENCES***

It is the intent and objective of the Radiologic Technology Program (College and Affiliate Hospitals) to be as uniform as possible with regard to activities for all students. Unfortunately, all hospitals are individual and unique institutions and for this reason there will be different policies and responsibilities at each clinical facility. Any questions which may arise concerning these differences will be gladly answered by College Faculty or Clinical Instructors. Students will be required to rotate to at least two affiliate hospitals.

***TREATMENT OF PATIENTS***

All patients with whom the student comes into contact will be treated with respect and dignity. Casual conversation to explain the examination will help relieve the patient of any unnecessary anxiety and is a must. Treat every patient as if you were the one being radiographed.

***STUDENTS CLINICAL RECORD OF WORK***

During your clinic time all procedures performed by you must be recorded. There must be some record of what you do each day in clinic from the first clinic day to the last.

The student's daily activity log is a day-to-day record of the different activities and procedures performed by you in the hospital clinic. Keep this record up-to-date, as it will be checked from time to time by college and hospital faculty.

At the end of each month the Student's Summary Activity form is to be completed.

***EVALUATIONS******COMPETENCY EVALUATION SYSTEM***

There are core clinical competencies that all students must demonstrate to establish eligibility for ARRT certification. The Competency Evaluation System is a standardized method of evaluating the performance and progress of students performing radiographic exams. Students must demonstrate competency in all 36 of the mandatory procedures and at least 15 of the elective procedures.

At a time elected by the student and clinical instructor, within each semester, the student must demonstrate his/her skill and competency in a particular unit of radiographic examinations. To be rated competent, the student must perform with a 85% accuracy rate for those examinations within the particular unit being evaluated and up to three retention evaluations from the previous Clinical Practicum. Before progressing to the next practicum, the student must demonstrate competency in the preceding areas.

Process:

The clinical evaluation will be declared by the student or clinical instructor prior to the examination. The student cannot refer to protocol or positioning books during the evaluation.

If a student fails to perform with at least an 85% accuracy rate he/she shall be required to follow the System for Failure as outlined below:

**Notice:**

1. Repeat images will result in a deduction of 15 points on clinical competency evaluations.
2. Intervention by the Clinical Instructor or Staff Radiographer, for reasons such as failure to properly shield, failure to set proper technical factors, or improper positioning, will result in a deduction of 15 points on clinical competency evaluations.

**System for First and Second Failures:**

Clinical instructor and student will discuss reason (s) for failure.

Student will review the text, and appropriate course notes pertinent to that practicum.

The student will be re-assigned to that particular area to practice and gain additional experience.

The student will then be re-evaluated by the clinical instructor and in this evaluation must perform with at least a 90% accuracy rate to be rated competent.

**Third Failure:**

The program director at Middlesex Community College shall be advised of this situation. Overall academic and clinical status of the student shall be assessed jointly by the College's Program Director and the Hospital's Clinical Instructor and a decision made as to the advisability of the student's continuing within the program.

***MONTHLY EVALUATION SYSTEM***

This is a structured evaluation process that has been designed to evaluate the student's clinical performance. At the end of every month the student will complete a self-evaluation. When the self-evaluation is complete, the clinical instructor will complete the evaluation, and review it with the student. The evaluation is to help the student by providing an overview of their attributes and weaknesses. These evaluations will be graded and used towards determining the student's semester grade. The student will be evaluated on the following areas:

Patient Care and Communication  
Collegiality and Professionalism  
Physical Safety  
Radiation Safety  
Quality of work and performance

***STUDENT COMPETENCY EVALUATION AND LEVEL OF SUPERVISION***

Until students achieve the program's required competency in a given procedure, all clinical assignments should be carried out under the direct supervision of qualified Radiographers. Following are the parameters of **direct supervision**:

1. A qualified Radiographer reviews the request for examination in relation to the student's achievement.
2. A qualified Radiographer evaluates the condition of the patient in relation to the student's knowledge.
3. A qualified Radiographer is present during the conduct of the examination.
4. A qualified Radiographer reviews and approves the radiographs.

After demonstrating competency, students may perform procedures with **indirect supervision**.

**Indirect supervision** is defined as supervision provided by a qualified Radiographer **immediately** available to assist students regardless of the level of student achievement.

**Immediately Available** is interpreted as the presence of a qualified Radiographer adjacent to the room or location when a radiographic procedure is being performed. This availability applies to all areas where ionizing radiation equipment is in use.

1. In support of professional responsibility for provision of quality patient care and radiation protection, **unsatisfactory radiographs shall be repeated only in the presence of a qualified Radiographer**, regardless of the student's level of competency.
2. In support of professional responsibility for provision of quality patient care and radiation protections, **all finished radiographs shall be reviewed and approved by a qualified Radiographer prior to dismissing the patient**, regardless of the student's level of competency.

### ***REPEAT RADIOGRAPH POLICY***

In support of professional responsibility for provision of quality patient care and radiation protection, **unsatisfactory radiographs shall be repeated only in the presence of a qualified Radiographer**, regardless of the student's level of competency.

1. Student and qualified radiographer review the radiograph, identify unacceptable factors and needed corrections.
2. Student identifies how corrections will be implemented.
3. If student's correction plan is unacceptable return to steps 1 and 2. If plan is satisfactory to the radiographer, continue to step 4.
4. Student implements corrections and makes exposure in the presence of, and with the approval of, the qualified radiographer after the qualified Radiographer has checked the console for appropriate technical factors and entered the exam room to recheck equipment manipulation and patient positioning.
5. Student is required to secure radiographer's signature who supervised repeat on Daily Log Sheet.
6. Student is required to record repeat and reason for repeat on Daily Log Sheet.
7. Prior to deleting an image, consult Registered Technologist.

**Notice: Failure to adhere to this policy may result in dismissal from the program.**

### ***CRITICAL CLINICAL OBJECTIVES***

Critical Clinical Objectives evaluate those affective and cognitive skills that are necessary for success in the Radiologic Technology profession. The student must successfully meet each Critical Clinical Objective to pass the practicum.

### ***CLINICAL GRADING PROCESS***

Clinical grades will be given five times during the 21-month program (December, May and August of the freshman year, December and May of the sophomore year). This grade will be determined by evaluating performance in the following two areas:

Clinical Competency Exams - 60 points.  
Monthly Evaluations - 40 points.

## PROCEDURE

During the semester, each area (Clinical Competency Exams and Monthly Evaluations) will be evaluated and points deducted according to the explanations given below. At the end of each semester, these points are totaled and a grade is given.

### 1. Clinical Competency Exams - 60 points

During the semester, Clinical Competency Exams are given. Prior to this, a series of steps must be followed.

Example:

Positioning of the Upper Extremity Presentation will occur in class. The following week, role-play positioning a fellow student for radiographs of the upper extremity will occur at the college.

At the clinic, you will be told ahead of time which positions you are responsible for and they will be reviewed with you. You are graded according to a checklist of steps that must be completed for each position. You will be given a list of the general requirements for each Competency Exam to review.

For each section, the points will be totaled and a number grade given. At the end of the Semester, these grades will be averaged. This average will account for 60% of your final clinical grade.

Example:

Chest	88
KUB	94
Thumb	96
Hand	82
Wrist	98
Forearm	<u>+100</u>

$$558 / 6 = 93 \text{ average}$$

$$\times \underline{60\%}$$

56 points awarded for this section

### 2. Monthly Evaluations - 40 points

At the end of each month, the clinical instructor will fill out an evaluation. The points will be totaled and a number grade given to this evaluation. At the end of the semester, these grades will be averaged. This average will account for 40% of your final clinical grade.

Example:

September	92
October	98
November	94
December	<u>+100</u>

$$384 / 4 = 96 \text{ average}$$

$$\times \underline{40\%}$$

38 points awarded for this section

Semester average for student used in examples:

Clinical Competency Exams.....56  
Monthly Evaluations.....38

SEMESTER CLINICAL GRADE...94%

CODE - P = 85 - 100%  
F = below 85%

A clinical grade below 85% is considered failure.

### ***CLINICAL GRADE SHEET***

Grade sheets will be maintained by your Clinical Instructor and a copy mailed to the college. These grades will be based on your clinical competency evaluations. For transcript purposes, the grade will be recorded as a Pass/Fail.

### ***RADIATION PROTECTION GUIDELINES FOR PREGNANT STUDENTS AND FACULTY***

Should a student or faculty member become pregnant while employed / enrolled in the Radiography Program, she is under **NO** requirement to declare her pregnancy status to any individual associated with the program. Should she voluntarily elect to declare her pregnancy status, she may do so by using the “*Form letter for Declaring Pregnancy*”, and submitting it to the Program Director. If the student or faculty member declares she is pregnant, she may at any time, undeclare her pregnancy status for any reason. She will do so by informing the Program Director in writing. At that time her status will revert to that in effect before her declaration.

Should she elect **NOT** to declare her pregnancy status, or undeclare her pregnancy, it is understood that the program is under no requirement to afford any measures with regard to radiation safety other than those, which are routinely afforded to all radiography students and faculty.

Should she declare and submit the declaration form to the Program Director, the following measures will become effective for the duration of her pregnancy or declaration, while she is enrolled within or employed by the program:

1. The Program Director or Clinical Instructor will initiate the use of the form entitled "Radiation Received During Gestational Period".
2. The student will be counseled by the Program Director, Clinical Instructor, Chief Radiologist, Radiation Safety Officer, Radiation Physicist, or all five, regarding methods to protect herself from ionizing radiation, and she will be asked to read the previously distributed Regulatory Guide 8.13, and or NCRP Report No. 54 and the Technical Bulletin Radiation Safety Considerations for the Declared Pregnant Worker.
3. The student must wear a radiation monitor at all times when working with ionizing radiation. An additional badge will be worn at waist level and must not leave the hospital property at any time except when being sent out for processing and reading.
4. Students will have the option to continue their clinical education without modification, during the entire gestational period.

5. Rotations evaluations, and/or clinic time missed because of pregnancy must be made up. The student will assume the responsibility of meeting with the Program Director and Clinical Instructor to plan this make-up time.
6. Under no circumstance will a pregnant or any student hold or assist in holding a patient or image receptor during a radiographic exposure.
7. The student must bring to the Program Director, as soon as possible, written permission from her physician permitting her to continue her clinical assignments.
7. The student will not be permitted to receive a cumulative radiation dose exceeding 0.5 rem (500 millirems) during the gestation period. The following will be done to ensure that the limit is not exceeded:
  - a. The radiation monitor reports will be carefully monitored during the gestation period noting averages and trends that may cause the cumulative exposure to exceed the limit. The results will be shared with the student following receipt of each exposure report.
  - b. The student will be counseled by the Program Director, Clinical Instructor, Chief Radiologist, Radiation Safety Officer, Radiation Physicist, or all five, if and when the cumulative radiation dose during the gestation period reaches 250 mrem.

### **Form Letter for Declaring Pregnancy**

This form letter is provided for your convenience. To make your declaration of pregnancy, you may fill in the blanks in this form letter and give it to your employer or you may write your own letter.

### **Declaration of Pregnancy**

To:

(Name of the facility LRPO, your supervisor or other employer representative)

Radiation Safety for the Declared Pregnant Worker

I am declaring that I am pregnant. I believe I became pregnant in \_\_\_\_\_, (only the month and year need be provided).

I understand that my occupational radiation dose during my entire pregnancy will not be allowed to exceed 0.5 rem (5 millisieverts) (unless that dose has already been exceeded between the time of conception and submitting this letter). I also understand that meeting the lower dose limit may require a change in job or job responsibilities during my pregnancy.

If I find out that I am not pregnant, if my pregnancy is terminated, or wish to undeclare my pregnancy for any reason, I will promptly inform you in writing that my pregnancy has ended.

(Your signature)

(Your name printed) (Date)

See College handbook and website below for additional information regarding student pregnancy.

<http://www.ehs.ucr.edu/radiation/regulatoryguide8.13.pdf>

## CLINICAL LABS

### *HOSPITAL TOUR LAB*

**The student will locate the following:**

#### **Hospital Departments**

1	Library		
2	Clinical Lab & Pathology		
3	Respiratory Therapy		
4	Physical Therapy		
5	Pharmacy		
6	Ultrasound		
7	Nuclear Medicine		
8	MRI		
9	Radiation Therapy		
10	Special Intensive Care		
11	Neo Natal Care		
12	Trauma/Emergency Room		
13	Admitting		
14	Business Office		

#### **Areas within the Radiology Department**

1	Diagnostic & Fluoroscopic Rooms			
2	Special Procedures Room			
3	Interventional Radiology			
4	CT			
5	Outpatient Admitting			
6	Radiologists Offices or Reading Rooms			
7	Radiology Managers Office			
8	Radiology Supervisors Office			
9	Classroom & Clinical Instructors Office			
10	Radiology Supplies & Laundry			
11	Staff Lounge			

Student \_\_\_\_\_ Date: \_\_\_\_\_

Clinical Site: \_\_\_\_\_ Clinical Instructor: \_\_\_\_\_

## ***PATIENT SCHEDULING & HIPPA LAB***

**The student will demonstrate the:**

		<b>YES</b>	<b>NO</b>
1	Answer and receive telephone messages using the appropriate greeting determined by departmental policy.		
2	Fill out patient requisitions with appropriate information.		
3	Use the computer for required data/patient information.		
4	Describe the procedure to follow related to dismissing outpatients and inpatients when radiologic procedures are completed.		
5	Give directions to patients who need to be changed into a hospital gown for preparation of diagnostic procedures.		
6	Properly assist patients with disabilities with gowning for preparation of diagnostic procedures.		
7	Follow the procedures used for patient identification for both inpatients and outpatients.		
8	Follow HIPPA guidelines at all times.		

Student: \_\_\_\_\_ Date: \_\_\_\_\_

Clinical Site: \_\_\_\_\_ Clinical Instructor: \_\_\_\_\_

## SYSTEMATIC APPROACH TO PERFORMING EXAMS

The student was given information related to a systematic approach for performing radiographic examinations.

<b>I.</b>	<b>Preparation for the Radiographic Examination</b>	<b>YES</b>	<b>NO</b>
1.	Determine the part to be radiographed and the required views by reading the requisition.		
2	Locate, identify, and prepare the patient for proper gowning if necessary.		
3	Determine image receptor size, number, and have available outside of radiographic room.		
4	Locate and prepare the necessary equipment such as, sponges, grids, and contrast media.		
<b>II.</b>	<b>X-Ray Control Panel</b>		
1	Turn x-ray machine on, adjust bucky if appropriate.		
2	Check and adjust voltage compensator if necessary.		
3	Set kVp (Autotransformer).		
4	Set timer.		
5.	Set desired milliamperage (mA).		
6	Set milliamperage per second (mAs).		
<b>III.</b>	<b>Patient Communication</b>		
1	Escort the patient to the appropriate radiographic room., check patient ID, date of birth, have patient spell their last name		
2	Explain the procedure to the patient giving basic information and instruction.		
3	Ask patient if they have any questions or concerns.		
4	Make the patient comfortable and SAFE.		
5	Obtain pertinent clinical history and record as required.		
6.	Communicate relevant information to others such as: Supervisor ,MD, RN		
<b>IV.</b>	<b>Positioning and Exam Procedure</b>		
1	Place image receptor in bucky tray or on table and place proper identification markers on the film.		
2	Place patient in the appropriate radiographic position, checking for alignment and rotation.		
3	Measure body part thickness.		
4	Give clear instructions regarding respiration if applicable.		
5	Align x-ray tube and image receptor		
6	Immobilize patient if required.		
7	Collimate the radiographic beam and use gonadal shielding when possible.		
<b>V.</b>	<b>Final Instructions Before Exposure</b>		
1	Review radiographic technique and adjust if needed.		
2	Give the patient instructions regarding motion and respiration when appropriate.		
3	Watch patient and make exposure.		
4	Instruct patient to breathe, remove tube from over patient, release immobilization and make patient comfortable.		
5	If no more images are to be taken, assist the patient to the waiting area and explain that the images must be reviewed before they leave the department.		

6	Check patient identification on all images and take to the proper area for processing.		
7	Record exams performed in Daily Log.		

<b>VI.</b>	<b>Image Critique and Release of Patient</b>		
1	Review radiographic images for:		
	A. Appropriate positioning.		
	B. Required anatomic structures demonstrated.		
	C. Correct exposure factors, S values or exposure index		
	D. Visible patient demographics		
	E. Visible right or left marker.		
	F. Visible evidence of collimation.		
	G. Correct image size.		
	H. Correct mode of respiration.		
	I. Evidence of gonadal shielding when applicable.		
	J. Image Quality.		
2	Release patient to go home or back to the appropriate area of the hospital.		
3	Send images to PACS / radiologist		

**Student:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Clinical Site:** \_\_\_\_\_ **Clinical Instructor/ Appropriate Supervisor:** \_\_\_\_\_

## ***FLUOROSCOPIC ROOM SET UP & CONTRAST MEDIA PREPARATION LAB***

**The student will demonstrate the:**

		<b>YES</b>	<b>NO</b>
1	Identify and prepare Barium for Upper GI Series.		
2	Identify and prepare Barium for Large Bowel Examination.		
3	Stock and clean area used for Contrast preparation.		
4	Move the diagnostic x-ray tube into the appropriate location when preparing the room for fluoroscopic procedures.		
5	Mount the footstool and/or shoulder rest onto the x-ray table.		
6	Move radiographic table and bucky tray into appropriate position.		
7	Move image intensifier into appropriate position for fluoroscopy.		
8	Set up T.V. monitor and video system.		
9	Set up fluoroscopy tower.		

		<b>YES</b>	<b>NO</b>
1	Adjust control panel for appropriate technique for fluoroscopy.		
2	Set fluoroscopic timer switch.		
3	Set Bucky switch to appropriate position if applicable.		
4	Supply each fluoroscopic room with accessory equipment which may be used for patient comfort, tissues, emesis basin, and smelling salts.		
5	Disinfect radiographic equipment following use by each patient.		

Student: \_\_\_\_\_ Date: \_\_\_\_\_

Clinical Site: \_\_\_\_\_ Clinical Instructor: \_\_\_\_\_

## ***FIRE AND GENERAL SAFETY LAB***

**The student will demonstrate the:**

		<b>YES</b>	<b>NO</b>
1	Describe the procedure to follow for reporting a fire.		
2	Locate and use the fire alarms.		
3	Locate and use the fire extinguishers.		
4.	Describe the code used for reporting a fire.		
5	Describe the procedure for patient evacuation.		
6	Describe the procedure for containing a fire.		

### **General Safety**

7	Describe the documentation procedure to follow in the event a patient gets injured in the Radiology Department.		
8	Describe the documentation procedure to follow in the event a student gets injured in the Radiology Department.		

Student: \_\_\_\_\_ Date: \_\_\_\_\_

Clinical Site: \_\_\_\_\_ Clinical Instructor: \_\_\_\_\_

## **RADIATION PROTECTION – LAB**

**The student will demonstrate the:**

		<b>YES</b>	<b>NO</b>
1	Proper location for wearing Radiation Monitoring Device.		
2	Area for storage of Radiation Monitoring Device.		
3	Location of monthly radiation exposure reports.		
4	Location of exit port of Diagnostic X-Ray Tube.		
5	Location of the Fluoroscopic X-Ray Tube.		
6	Location and use of the timing device used during fluoroscopic procedures.		
7	Appropriate location for Radiographers when assisting with fluoroscopic procedures.		
8.	Location and use of lead aprons and gloves when assisting with fluoroscopic procedures.		
9	Location and use of lead shielding devices used to protect patients during procedures.		
10	Location of policies related to radiation protection to patients within the Radiology Department.		
11	Procedure to be followed regarding documentation of patient's possible pregnancy.		
12	Ability to operate the x-ray tube collimators for beam limitation.		
13	Ability to set exposure techniques.		
14	Ability to use a technique chart when assisting and setting exposure techniques.		
15	Areas identified as Primary Protective Barriers.		
16.	Areas that use lead lining or lead glass as shielding barriers.		

Student: \_\_\_\_\_ Date: \_\_\_\_\_

Clinical Site: \_\_\_\_\_ Clinical Instructor: \_\_\_\_\_

## **MEDICAL INFUSION AND DRAINAGE DEVICES**

**The student will demonstrate:**

<b>Infusion Devices:</b>	<b>YES</b>	<b>NO</b>
1. Locate and demonstrate the various parts to a standard IV drip set – up and proper adjustment of the flow rate.		
2. Describe the various parts of an automatic infusion pump.		
3. Describe and demonstrate the proper procedures to follow when transferring / moving a patient who is attached to an IV.		
4. Describe a “Central Line” component and proper handling of a patient with a Central Line in place.		

<b>Drainage Devices, Describe the following devices:</b>	<b>YES</b>	<b>NO</b>
Chest tubes		
Naso-gastric tube		
Biliary Tube		
Foley Catheter		
Describe proper patient handling techniques for a patient with each device.		

Student: \_\_\_\_\_ Date: \_\_\_\_\_

Clinical Site: \_\_\_\_\_ Instructor: \_\_\_\_\_

**MEDICAL EMERGENCY IN RADIOLOGY LAB**

**The student will demonstrate the:**

	<b>YES</b>	<b>NO</b>
1. Assist the fainting patient and notify a Radiographer or Radiologist		
2. Locate and use smelling salts.		
3. Assist the patient with nosebleed.		
4. Assist the patient having seizure, notify Radiographer or Radiologist and assist in reporting of the incident.		
5. Call for a Radiographer and/or Radiologist to assess the patient in an emergency situation.		
Call a code for the Emergency Team when directed <b>Number</b>		
7. Locate and retrieve crash cart, stethoscope and blood pressure cuff.		
8. Locate eye wash stations.		
9. Notify appropriate personnel of adverse events such as: patient falls, wrong exam ordered, or wrong body part or patient imaged.		

**Student:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Clinical Site:** \_\_\_\_\_ **Clinical Instructor:** \_\_\_\_\_

## ***PATIENT TRANSFER TECHNIQUES***

**The Student will demonstrate proper wheelchair and cart transfer techniques:**

<b>Standby Assist Wheelchair Transfer</b>	<b>YES</b>	<b>NO</b>
1. Position the wheelchair at a 45 degree angle to the table		
2. Move the wheelchair footrests out of the way and be sure that the wheelchair is locked.		
3. Instruct the patient to sit on the edge of the wheelchair seat.		
4. Instruct the patient to push down on the arms of the chair to assist in rising and then stand up slowly.		
5. Direct the patient to reach out and hold onto the table with the hand closest to the table and then turn slowly until he or she feels the table behind him or her.		
6. Instruct the patient to hold the table with both hands and then sit down.		

<b>Assisted Standing Pivot Wheelchair Transfer</b>	<b>YES</b>	<b>NO</b>
1. Position the wheelchair at a 45-degree angle to the table with the patient's strongest side closest to the table. If the patient has loose-fitting clothes, place a transfer belt around the patient's waist.		
2. Move the wheelchair footrests out of the way and be sure that the wheelchair is locked.		
3. Direct the patient to sit on the edge of the wheelchair seat, providing assistance as needed.		
4. Instruct the patient to push down on the arms of the wheelchair to assist in rising.		
Bend at the knees, keeping the back stationary, and grasp the transfer belt with both hands. Block the patient's feet and knees to provide stability, especially for paraplegic and hemiplegic patients.		
Assist the patient in rising to a standing position.		
Ask the patient whether he or she is feeling all right. If the patient reports any feelings of dizziness or exhibits any of the other signs of orthostatic hypotension, let him or her stand for a moment until the feeling subsides.		
Pivot the patient toward the table until the patient can feel the table against the back of the thighs.		
Ask the patient to support himself on the table with both hands and sit down, assisting as necessary.		

<b>Two-Person Wheelchair Lift</b>	<b>YES</b>	<b>NO</b>
1. Plan for the lift by locating an assistant who will lift the patient's feet as you lift the patient's torso.		
2. Lock the wheelchair, remove the armrests, swing away or remove the leg rests, and direct the patient to cross his or her arms over the chest.		
3. Stand behind the patient, reach under the patient's axillae, and grasp the patient's crossed forearms.		
4. On command, lift the patient to clear the wheelchair and move the patient as a unit to the desired place.		

<b>Stretcher Transfer With a Moving Device</b>	<b>YES</b>	<b>NO</b>
1. Move the stretcher alongside the table, preferably on the patient's strong or less affected side. Place it as close to the table as possible, and then secure it by depressing the wheel locks. In addition, place sandbags or other devices on the floor to block the wheels satisfactorily.		
2. Place the patient at an oblique angle away from the table while the moving device is placed to the midpoint of the back.		
3. Return the patient to a supine position so that he or she is halfway onto the moving device.		
4. Grab the draw sheet, and use it to move the patient slowly onto the table.		
5. Remove the moving device, turning the patient obliquely if necessary.		

<b>Stretcher Transfer Without a Moving Device</b>	<b>YES</b>	<b>NO</b>
1. Move the stretcher alongside the table, preferably on the patient's strong or less affected side. Place it as close to the table as possible, and then secure it by depressing the wheel locks. In addition, place sandbags or other devices on the floor to block wheels satisfactorily.		
2. Begin by rolling up the draw sheet on both sides of the patient. Be sure that the draw sheet is completely under the patient and straightened before the transfer.		
3. Support the patient's head and upper body from the far side of the radiographic table. Direct a second assistant to support the patient's pelvic girdle from the cart side and a third assistant to support the patient's legs from the table side.		
4. Cross the patient's arms over the chest to avoid injury or interfering with a smooth transfer.		
5. Direct the second assistant supporting the pelvic girdle to stand on the opposite side of the stretcher, and make sure that the stretcher does not move away from the table during the transfer.		
6. On command, grasp the rolled up draw sheet and slowly pull the patient to the edge of the stretcher. On a second command, slowly lift and pull the patient onto the table.		

**Student:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Clinical Site:** \_\_\_\_\_ **Clinical Instructor:** \_\_\_\_\_

## ***STERILE GLOVING TECHNIQUE***

**The Student will demonstrate proper sterile technique for the closed and open methods of self-gloving and for gloving another person:**

<b>Self-Gloving: Closed Method</b>	<b>YES</b>	<b>NO</b>
1. Have an assistant open the glove package so that the right glove is on his or her right side.		
2. Keep the hands and fingers covered by the sterile gown when grasping the gloves.		
3. Pick up the glove of the dominant hand with the nondominant hand.		
4. Place the palm of the glove on the palm of the dominant hand with the fingers of the glove facing the elbow.		
5. Grasp the bottom part of the cuff with the fingers of the dominant hand. With the nondominant hand, grasp the top part of the cuff and pull it over the dominant hand.		
6. Pick up the other glove with the gloved hand.		
7. With the ungloved hand, hold the cuff through the sterile gown.		
8. Using the gloved hand, pull the other hand into the glove.		
9. Adjust the fingers until comfortable.		

<b>Self-Gloving: Open Method</b>	<b>YES</b>	<b>NO</b>
1. With the hands pushed through the sleeves of the sterile gown, pick up the cuff of the dominant hand glove with the nondominant hand, being sure not to touch the outside surface of the glove.		
2. Slip the dominant hand into the glove and pull the glove on by the nondominant hand.		
3. Pick up the other glove by reaching under the cuff with the gloved (and now sterile) dominant hand, being sure to touch only the outside surface of the glove with the sterile gloved hand.		
4. Pull the glove onto the nondominant hand without touching the inside surface of the glove (which is actually the outside surface of the folded cuff).		

**Student:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Clinical Site:** \_\_\_\_\_ **Instructor:** \_\_\_\_\_

## ***STERILE GOWNING TECHNIQUE***

**The Student will demonstrate the proper technique for self-gowning and for gowning another person:**

<b>Self-Gowning</b>	<b>YES</b>	<b>NO</b>
1. Stand about 12 inches from the sterile area, pick up the gown by the folded edges, and lift it directly up from the package.		
2. Step back from the table, making sure no objects are near the gown. Grasp the gown at the neck band, hold it at arm's length, unfold it, and gently shake it.		
3. Face the inside of the gown and, holding it by the shoulder seams, raise the arms up and slip them into the sleeves.		
4. Direct an unsterile assistant to stand behind and reach inside the sleeves, grasp the sleeves, and pull them gently to adjust the gown.		
5. For the open method of gloving, the sleeves are pulled over the hands. For the closed method of gloving, the sleeves are pulled so that only the fingertips are visible.		
6. Direct an assistant to fasten the back and waistband of the gown.		

<b>Gowning Another</b>	<b>YES</b>	<b>NO</b>
1. After gowning and gloving using sterile technique, pick up the sterile gown by the neck band, hold it at arm's length, and allow it to unfold.		
2. Hold the gown by the shoulder seams with the outside facing you.		
3. Protect the sterile gloves by placing both hands under the back panel of the gown at the top shoulder seam.		
4. Direct the person being gowned to slip the arms into the sleeves in a downward motion until the hands emerge from the sleeves.		
5. Direct the person to pull the gown over the arms and shoulders and fasten the back and waistband of the gown.		

**Student:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Clinical Site:** \_\_\_\_\_ **Instructor:** \_\_\_\_\_

## ***OPENING A STERILE PACKAGE***

**The Student will demonstrate the proper technique for opening a sterile package:**

<b>Open a Sterile Package on a Table</b>	<b>YES</b>	<b>NO</b>
1. Place the package on the center of the surface with the top flap of the wrapper set to open away from him or her.		
2. Pinch the first flap on the outside of the wrapper between the thumb and index finger by reaching around (not over) the package. Pull the flap open and lay it flat on the far surface.		
3. Use the right hand to open the right flap and the left hand to open the left flap.		
4. Grasp the turned down corner and pull the fourth and final flap down, being sure not to touch the inner surface of any of the package with an unsterile object such as a sleeve.		

<b>Open a Sterile Package While Holding It</b>	<b>YES</b>	<b>NO</b>
1. Hold the package in one hand with the top flap opening away from you.		
2. Pull the top flap well back, and hold it away from both the contents of the package and the sterile field.		
3. Drop the contents gently onto the sterile field from about 6 inches above the field and at a slight angle, making sure that the package wrapping does not touch the sterile field at any time.		

**Student:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Clinical Site:** \_\_\_\_\_ **Instructor:** \_\_\_\_\_

**STANDARD PRECAUTIONS LAB**

**The student will demonstrate the:**

	<b>YES</b>	<b>NO</b>
1. Disinfect radiographic table and all accessory equipment.		
2. Change pillowcases and sheets after each patient.		
3. Locate, use, and dispose of examination gloves properly.		
4. Locate, use, and dispose of gowns and masks used in unsterile procedures.		
5. Recognize and use biohazard bags properly.		
6. Follow environmental protection standards for handling and disposing of biohazard materials such as: Blood and body fluids and sharps		
7. Dispose of contaminated linen in appropriate bags.		
8. Properly wash hands between each patient.		
9. Properly use gowns, gloves, and masks for isolation and reverse isolation patients.		
10. Apply standard precautions when performing and assisting during all procedures.		

<b>Handling Sterile Syringes and Needles</b>	<b>YES</b>	<b>NO</b>
1. Locate and properly handle sterile syringes and needles.		
2. Locate and use vials, ampules and bottles of contrast media and/or other solutions.		
3. Locate equipment and set up for a drip-infusion procedure.		
4. Locate, properly use and dispose of, sharp containers.		

**Student:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Clinical Site:** \_\_\_\_\_ **Instructor:** \_\_\_\_\_

## ***MONITORING PATIENT'S VITAL SIGNS***

**The Student will demonstrate and measure a patient's vital signs of temperature, pulse, respiration, and blood pressure:**

<b>Temperature – Oral Method</b>	<b>YES</b>	<b>NO</b>
1. Place the oral thermometer under the patient's tongue.		
2. Ensure that the thermometer is kept in place until a stable reading is obtained.		
3. Read the oral thermometer and record the reading.		

<b>Respiration:</b>	<b>YES</b>	<b>NO</b>
1. Measure a patient's respiration by observing the patient's chest or abdomen for a 60-second period.		
2. Record the number of respirations per minute.		

<b>Pulse:</b>	<b>YES</b>	<b>NO</b>
1. Measure a patient's pulse rate at the radial artery near the wrist for a 60-second period.		
2. Record the patient's pulse rate per minute.		

<b>Blood Pressure</b>	<b>YES</b>	<b>NO</b>
1. Obtain a sphygmomanometer and stethoscope.		
2. Place the cuff of the sphygmomanometer on the patient's upper arm midway between the elbow and shoulder.		
3. Inflate the cuff above the systolic pressure to stop flow to the arm.		
4. With the stethoscope placed over the brachial artery in the antecubital fossa of the elbow, slowly release the cuff of the sphygmomanometer.		
5. When the first sound of blood flow is heard through the stethoscope, record the systolic pressure reading.		
6. When the sound of blood flowing through the arm ceases, record the diastolic pressure reading.		

**Student:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Clinical Site:** \_\_\_\_\_ **Instructor:** \_\_\_\_\_

## ***OXYGEN THERAPY LAB***

**The Student will demonstrate:**

	<b>YES</b>	<b>NO</b>
1. Proper location of oxygen equipment: oxygen tank, connecting tubing and devices to deliver oxygen.		
2. Ability to operate various parts of oxygen tank: pressure gauge, regulator, flow rate gauge and tubing attachment.		
3. Proper application to a patient two of the most common oxygen delivery devices: nasal cannula and oxygen masks.		
4. Knowledge of potential risks in an environment where oxygen is being administered and preventive steps to reduce the risks.		

**Student:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Clinical Site:** \_\_\_\_\_ **Instructor:** \_\_\_\_\_

## ***VENIPUNCTURE AND INTRAVENOUS DRUG INJECTION***

<b>The Student will demonstrate:</b>	<b>YES</b>	<b>NO</b>
1. Wash hand thoroughly.		
2. Check the patient's identification.		
3. Explain the procedure to the patient.		
4. Assemble all needed supplies, and prepare the drug for administration.		
5. Put on disposable gloves.		
6. Once an appropriate site for venipuncture has been selected, cleanse it with an alcohol swab using a circular motion while moving from the center to the outside.		
7. Apply a tourniquet above the site using sufficient tension to impede the flow of blood in the vein. Ask the patient to open and close the fist to distend the vein fully. When the vein has been identified, ask the patient to hold the fist in a clenched position.		
8. To stabilize the vein, place the thumb on the tissue just below the site and gently pull the skin and vein toward the hand.		
9. Hold the needle with the bevel facing upward. Pinch the wings of the butterfly needle together tightly.		
10. Insert the needle next to the vein at a 15 degree angle, and gently advance it into the vein. Blood will flow back into the tubing when the needle is correctly positioned.		
11. If the tubing of the butterfly needle has not previously been filled with solution, allow the blood to flow from the hub before attaching the syringe to ensure that no air bubbles are contained in the system.		
12. Remove the tourniquet and inject the drug.		
13. Unless otherwise instructed, remove the needle and apply gentle pressure to the site with an alcohol swab.		
14. Dispose of the syringe and needle properly.		
15. Chart all relevant information.		
16. Recognize abnormal lab values relative to the exam being performed.		

**Student:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Clinical Site:** \_\_\_\_\_ **Clinical Instructor:** \_\_\_\_\_

# ADVANCED MODALITY ASSESSMENTS

## *COMPUTED TOMOGRAPHY*

### **Principles of CT Rad 205 Spring Semester Assessment of rotation in CT**

Name:

Clinical Site:

Date:

Define Computed Tomography (CT).

Compare CT with Conventional Radiography.

Define “generation” in relation to CT scanners.

List and briefly describe the major components of a CT scanner.

Describe the layout and equipment of the CT room.

Are there multiple Scanners in the facility? What brands of CT Scanners are used? Please include scanner slice.

Define volume (aka helical or spiral) scanning. List the advantages of this type of CT.

List 3 common cases you observed while rotating through CT scan. Please include the indication (signs and symptoms) and rule out for each exam.

List the types of contrast media used in CT and what exams they are typically used for.

Name some possible risk factors for the administration of IV contrast in CT.

Did you observe any positive studies? i.e. positive for appendicitis, or positive for head bleed? If so what protocol was used to diagnose this pt.? i.e. was contrast media used?

What did you like/dislike about CT?

Overall do you think your experience in CT gave you a better idea of whether this modality is something you would be interested in following graduation?

# ***MAGNETIC RESONANCE IMAGING***

Middlesex Community College  
Magnetic Resonance Imaging Rotation  
Objectives / Outcomes

Name:

Date:

**To participate in this rotation, you will need to be screened for metal objects in your body. Please complete the Middlesex Community College MRI screening document and any additional documents that are required at your MRI rotation.**

Read “Magnetic Resonance Imaging” Chapter in Merrill’s Atlas of Radiographic Positions and Radiologic Procedures before you go to your MRI observation. Upon completion of a rotation through MRI and reading the assigned Chapter, the student will answer the following questions:

Define magnetic resonance.

Define magnetic resonance imaging.

Discuss the role of the element Hydrogen in MR Imaging.

List and discuss the 3 properties of matter that are the basis of MR image production.

Name and describe the intravenous contrast agent routinely used in MR imaging.

Name and describe some clinical examinations that you saw during your MRI observation.

List the patient types that would be unable to participate in MR imaging and describe the reasons that would prevent their participation.

**MAGNETIC RESONANCE IMAGING SCREENING DOCUMENT**

# Middlesex Community College

## MRI OBSERVATION SCREENING DOCUMENT

You have chosen to observe in the MRI department. By entering the MRI suite, you are placing yourself within a magnetic field. Everyone entering the MRI Room must be screened for metal that might be in their body or to disclose any removable metal object or electronic devices.

PLEASE ANSWER THESE QUESTIONS TO THE BEST OF YOUR ABILITY:

1	Pacemaker	Yes	No
2	Aneurysm Clips	Yes	No
3	Heart Valve	Yes	No
4	Joint Replacements	Yes	No
5	Shrapnel	Yes	No
6	Metal in Eyes	Yes	No
7	Pregnancy	Yes	No
8	Inner Ear/Eye Surgery	Yes	No
9	Programmable/Electronic Devices? Internally/Externally	Yes	No

Please list previous surgeries:

\_\_\_\_\_

Please lock up all jewelry, watches, credit cards, coins, keys, and all loose metal objects.

To the best of my knowledge, I DO NOT have within me any metal or devices as described above.

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Tech Signature

\_\_\_\_\_  
Date

***NUCLEAR MEDICINE***

**Middlesex Community College**

**Nuclear Medicine Rotation**

**Objectives / Outcomes**

Name:

Date:

Read “Nuclear Medicine”, in Merrill’s. Upon completion of rotation through Nuclear Medicine and reading of the assigned chapter, the student will be able to:

Define ‘radioisotope’.

Define “collimator” and state its function

Define “half-life”.

Define “scintillation”.

State the difference in the utilization of radiation between radiology and nuclear medicine.

State and define the basic unit of radioactivity.

Define “tracers” and state the two (2) types.

State two (2) principal types of instruments for detecting radiation.

State how organ function is determined.

State two (2) basic types of imaging detectors.

State three (3) ways of maintaining personal radiation protection.

# ***INTERVENTIONAL RADIOGRAPHY***

## **Middlesex Community College Interventional Radiography Objectives / Outcomes**

**Name** \_\_\_\_\_

**Date** \_\_\_\_\_

Read the “Digital Angiography and Digital Spot Imaging” and “Circulatory System” Chapters in Merrill’s Atlas. Upon completion of a rotation through the Angio department, and reading the assigned chapter, the student will be able to answer the following:

Define angiography

Define digital subtraction angiography

Define landmarking

Define road mapping

Explain patient care techniques unique to angiographic and interventional procedures

List and briefly describe the major components of a Digital Angio suite

Describe the Seldinger technique

List and explain 4 interventional procedures

List 2 types of catheters and the vessels for which they are designed

Discuss indications and contraindications for various angiographic procedures

## ***EVENING SHIFT ROTATION***

### **Middlesex Community College Optional Evening Shift Rotation Objectives / Outcomes**

Name:

Date:

Supervising Technologist:

Answer the questions below.

After rotating through the X-ray department from 2:00pm to 10:00pm the student will be able to:

List the exams that technologists frequently perform during the evening shift.

List the exams that are most frequently done during a designated trauma. List the cassette sizes and grid sizes that you must bring to a trauma and protocol of image sequence.

List duties that evening technologists perform that may not be applicable to the day shift technologists.

# STUDENTS DAILY LOGS

## ATTENDANCE

### MIDDLESEX COMMUNITY COLLEGE PROGRAM IN RADIOLOGY TECHNOLOGY

Present (P)  
Late (L)  
Vacation (V)  
Absent (A)

HOSPITAL: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

#### ATTENDANCE RECORD

Student Name: \_\_\_\_\_

ACADEMIC YEAR: \_\_\_\_\_

Make-up

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Sept																																
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Jun																																
Jul																																
Aug																																







MONTHLY EVALUATIONS

DATE	GRADE

Percent of grade      Percent Received

Clinical Competencies      60 Percent      \_\_\_\_\_

Monthly Evaluations      40 Percent      \_\_\_\_\_

Clinical Grade: \_\_\_\_\_

P = Pass (85% - 100%)

F = Fail (Less than 85%)

Students Signature: \_\_\_\_\_

Clinical Instructors Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**NOTE:** Please attach room assignments and clinical objectives for current semester.





**INCIDENT REPORT FORMS**

***STUDENT CONFERENCE FORM***

**MIDDLESEX COMMUNITY COLLEGE  
RADIOLOGIC TECHNOLOGY PROGRAM**

**Instructor – Student Conference Form**

**Student Name:**

**Instructor's Name:**

**Date:**

**Reason for Conference:**

**Statement of Student:**

**Action Taken:**

**Instructor Signature:** \_\_\_\_\_

**Student Signature:** \_\_\_\_\_

**Signature does not show agreement or disagreement only that it has been shown to the student.**

***RADIATION DOSIMETRY REPORT***

**MIDDLESEX COMMUNITY COLLEGE  
RADIOLOGIC TECHNOLOGY PROGRAM  
RADIATION DOSIMETRY REPORT**

Students Name: \_\_\_\_\_

Date: \_\_\_\_\_

Dosimeter report:

Deep:

Shallow:

Whole Body:

The dosimeter report for the period of \_\_\_\_\_ has been reviewed by the student and program faculty.

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Program Faculty Signature

**Notice:** Dose limit for any single quarterly reading is 80 mrem or above. The Program Director, Program faculty, Chief Radiologist, Radiation Safety Officer, Radiation Physicist, or all five, will investigate all instances in which dose limits are exceeded. The student will then be counseled as to the appropriate course of action and review radiation safety practices. “accidental “exposures due to badges left on aprons, etc., will be documented where proven.

***RADIATION RECEIVED DURING GESTATION PERIOD***

Student's Name: \_\_\_\_\_

Social Security Number: \_\_\_\_\_

Date Notification Received: \_\_\_\_\_

Estimated Delivery Date: \_\_\_\_\_

Cumulative radiation exposure prior to start of gestation: \_\_\_\_\_

Written permission to continue program received from physician dated: \_\_\_\_\_

Record of all radiation received during gestation period (in mr.):

Period	From	Through	MR		Students Initial
			Shallow	Deep	
1.	_____	_____	_____	_____	_____
2.	_____	_____	_____	_____	_____
3.	_____	_____	_____	_____	_____
4.	_____	_____	_____	_____	_____
5.	_____	_____	_____	_____	_____
6.	_____	_____	_____	_____	_____
7.	_____	_____	_____	_____	_____
8.	_____	_____	_____	_____	_____
9.	_____	_____	_____	_____	_____
10.	_____	_____	_____	_____	_____

Student counseled regarding radiation protection by one or more of the following:

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
 Chief Radiologist or Radiation Safety Officer

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
 Program Director

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
 Clinical Instructor

My signature acknowledges that I have received counseling on radiation safety measures to protect my fetus and that I have read NCRP Report 53 and 54, or Regulatory Guide 8.13.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

**ACCIDENT REPORT: Blood and Body Fluid Exposure**

Name _____	Student ID # _____
Address _____	Telephone _____
Occupation _____	Date of Birth ____/____/____ / Age _____
Gender ( ) M ( ) F	
Date of Accident _____	Time of Accident _____
Clinical facility where accident occurred _____	
Hepatitis B Vaccine status: Dose #1 _____ #2 _____ #3 _____	
Last Tetanus/Diphtheria booster: _____	

**PLEASE DESCRIBE:**

- (a) Type of exposure (e.g., needlestick/sharps injury; mucous membrane contact with potentially infectious fluids; body part affected.
- (b) Use back of form if necessary)
- (c) The volume of blood or body fluid involved and duration of exposure \_\_\_\_\_

**INITIAL ACTIONS:**

- (a) Immediate first aid consisted of \_\_\_\_\_ Time \_\_\_\_\_
- (b) Notification of Clinical Supervisor/Program Coordinator \_\_\_\_\_ Time \_\_\_\_\_
- (c) Referral site for serological testing/post exposure prophylaxis evaluation (name of hospital emergency center or physician) \_\_\_\_\_ Time \_\_\_\_\_
- (d) If testing is declined by exposed person, that person must read and sign below.

**DECLINATION OF TESTING AND FOLLOW-UP**

I have been informed and understand the importance of baseline testing for the Hepatitis B and C viruses and HIV and evaluation for post exposure prophylaxis immediately after an accidental exposure to blood and body fluids. The importance of receiving future follow-up testing at six weeks, twelve weeks, and six months from the date of exposure has also been discussed with me; however, I decline to have testing at this time.

Signature \_\_\_\_\_ Date \_\_\_\_\_

**SOURCE PATIENT:**

- (a) Name (if known) \_\_\_\_\_ Address \_\_\_\_\_
- (b) Consent and referral for serological testing to \_\_\_\_\_ Time \_\_\_\_\_
- (c) If no testing, please explain on back of form \_\_\_\_\_

**WITNESS:**

Name \_\_\_\_\_ Address \_\_\_\_\_ Telephone \_\_\_\_\_  
Signature of person filing report \_\_\_\_\_ Date: \_\_\_\_\_

**IMPORTANT**

**RETURN REPORT TO THE HEALTH SERVICE OFFICE AT YOUR CAMPUS WITHIN 24 HOURS OF ACCIDENT** Campus Center, Bldg. 8, Bedford Campus OR City Bldg., Ground Floor, Lowell Campus

***RADIATION SAFETY REVIEW***

**MIDDLESEX COMMUNITY COLLEGE  
RADIOLOGIC TECHNOLOGY PROGRAM  
RADIATION SAFETY REVIEW**

\_\_\_\_\_ has exceeded the maximum dose equivalent of 80 mrem during the following quarter: \_\_\_\_\_. The dosimeter report has been reviewed and signed by the student. He/she has been given a radiation safety review and can describe means in which to adhere to the concept of ALARA and understands the importance of practicing good radiation safety measures.

Student Signature\_\_\_\_\_ Date\_\_\_\_\_

Program Director Signature\_\_\_\_\_ Date\_\_\_\_\_

ORIENTATION FORMS

**MIDDLESEX COMMUNITY COLLEGE**

**RADIOLOGIC TECHNOLOGY PROGRAM**

**ORIENTATION FORMS**



**MIDDLESEX COMMUNITY COLLEGE**

**RADIOLOGY PROGRAM**

**CONFIDENTIALITY AGREEMENT**

As a student of Middlesex Community College enrolled in the Radiologic Technology Program, I agree to maintain a patient's right to confidentiality. I understand that the use and disclosure of a patient's protected health information for other than clinical reasons is punishable by law and will result in dismissal from the program.

Print Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

*GRADE RELEASE AUTHORIZATION*



**Radiologic Technology Program  
Grade Release Authorization**

I. \_\_\_\_\_, do authorize

Middlesex Community College to release my grades

to \_\_\_\_\_ Hospital as required for academic  
purpose.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

***CLINIC TRANSFER POLICY***



**Radiologic Technology Program  
Clinic Transfer Policy**

I \_\_\_\_\_ understand that as a student in the Radiologic Technology Program, I am required to participate in clinical practicums. I also understand that I will perform at an indicated skill level and in an appropriate manner.

If I am dismissed from a clinical site because of inappropriate behavior, patient care infractions or failure to meet clinical objectives, the program is not obligated to transfer me to another clinical site. Consequently, I will be dismissed from the program.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

*POLICIES AND PROCEDURES*



**Policies and Procedures**

I, \_\_\_\_\_, have read and understand the Student Handbooks, college, program, and clinical policies. The policies and procedures are clear and questions have been answered by the Program Director, Clinical Coordinator, or Clinical Instructor.

I have signed this form indicating that I have read and understand and will comply with the policies and procedures at Middlesex Community College.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

***CLINICAL AFFILIATE ASSIGNMENT***



Below is a list of the hospitals that you will be assigned to for the clinical education component of the Radiologic Technology Program. You will be required to rotate to at least two of the Clinical sites. Students must be willing to commute up to 100 miles at their own expense for clinical rotations.

<b><u>Hospital</u></b>	<b><u>Location</u></b>
Lahey Hospital	Burlington, MA
Newton Wellesley Hospital	Newton, MA
Lowell General Hospital, Saints Campus	Lowell, MA
Winchester Hospital	Winchester, MA
Emerson Hospital	Concord, MA