



**Lifespan
School of Medical Imaging**

Delivering health with care.®

Computed Tomography • Diagnostic Medical Sonography
Magnetic Resonance Imaging • Mammography
Nuclear Medicine Technology • Radiography

STUDENT POLICIES & PROCEDURES HANDBOOK

ARTICULATION AGREEMENT

Rhode Island Hospital School of Medical Imaging has a formal articulation agreement with Rhode Island College. Students accepted into any medical imaging program are Rhode Island College students.

STUDENTS OF RHODE ISLAND HOSPITAL SCHOOL OF MEDICAL IMAGING

This Handbook provides essential information about the medical imaging programs at Rhode Island Hospital School of Medical Imaging. Since you are responsible for reading the Handbook completely and adhering to the stated policies, you must familiarize yourself with the contents. Periodically, the curriculum and policies and procedures of the school change. It is your responsibility to update your Handbook with changes as this information becomes available. This Handbook supplements the Rhode Island College Student Handbook.

Every student is assigned a faculty advisor through Rhode Island College. It is extremely important that you meet with your advisor to plan each semester's course of study. You can find out who your advisor is by checking your MyRIC Online site.

The faculty and staff of the Rhode Island Hospital School of Medical Imaging are committed to working with you to help you achieve your professional goals. On behalf of the faculty and staff, let me welcome you to the medical imaging program and wish you every success.

Rhode Island Hospital School of Medical Imaging reserves the right to alter, change, amend or modify any part of this handbook, at any time, for justifiable reasons. Students will receive notice of any changes requiring student sign-off.

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MISSION STATEMENTS

LIFESPAN

Delivering health with care.

RHODE ISLAND HOSPITAL SCHOOL OF MEDICAL IMAGING

The mission of Rhode Island Hospital School of Medical Imaging is to work collaboratively with technologists and other healthcare professionals to prepare students with entry-level employment skills to meet the needs of the community. The school provides diverse clinical settings to enrich student learning and expand networking opportunities within its communities of interest.

ADMINISTRATION

VICE PRESIDENT

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SCHOOL & CLINICAL AFFILIATE LOCATIONS

SCHOOL

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 Facsimile: 401-606-8532
 Email: LSMI@lifespan.org

CLINICAL AFFILIATES

The Rhode Island Hospital School of Medical Imaging offers a balanced clinical education sufficient in quantity and variety of examinations as well as diversified modern equipment. The student is responsible for their own transportation to and from clinical affiliates. Travel requirements include up to 1 ½ hours. Clinical education takes place at the facilities listed below.

AFFILIATE	LOCATION
BROWN PHYSICIANS PATIENT CENTER	375 Wampanoag Trail, East Providence RI 02915
DAY KIMBALL HEALTHCARE	320 Pomfret Street, Putnam, CT 06260
KENT HOSPITAL	455 Toll Gate Road, Warwick, RI 02886 111 Brewster St, Pawtucket RI 02860
LIFESPAN COASTAL IMAGING CENTER	900 Warren Avenue, Suite 100, East Providence, RI 02904
LIFESPAN HASBRO CHILDREN'S HOSPITAL	593 Eddy Street, Providence, RI 02903
LIFESPAN NEWPORT HOSPITAL	11 Friendship Street, Newport, RI 02840
LIFESPAN PORTSMOUTH IMAGING CENTER	69 Turnpike Avenue, Portsmouth, RI 02871
LIFESPAN RHODE ISLAND HOSPITAL	593 Eddy Street, Providence, RI 02903
LIFESPAN THE MIRIAM HOSPITAL	164 Summit Avenue, Providence, RI 02906
LIFESPAN MEDICAL IMAGING - WEST RIVER	146 West River Street, Providence RI 02904
MILFORD REGIONAL MEDICAL CENTER	14 Prospect St, Milford, MA 01757 20 Prospect St, Milford MA 01757 1280 W Central St, Franklin MA 02038 100 Commerce Dr, Northbridge MA 01534
RHODE ISLAND MEDICAL IMAGING	1301 Reservoir Avenue, Cranston, RI 02920 1351 South County Trail, Suite 105, East Greenwich, RI 02818 1 Kettle Point Avenue, East Providence, RI 02914 1525 Wampanoag Trail, Suite 101, East Providence, RI 02915 1526 Atwood Avenue, Lower Level, Johnston, RI 02914 6 Blackstone Valley Place, Building 5, Suite 506, Lincoln, RI 02865 2 Wake Robin Road, Suite 107, Lincoln, RI 02865

SOUTHCOAST HOSPITAL GROUP CHARLTON MEMORIAL HOSPITAL	1500 Mineral Spring Avenue, North Providence, RI 02904 333 School Street, Suite 105, Pawtucket, RI 02860 1 Randall Square, Suite 103, Providence, RI 02904 250 Tollgate Road, Warwick, RI 02886
SOUTHCOAST HOSPITAL GROUP ST. LUKE'S HOSPITAL	363 Highland Avenue, Fall River, MA 02720
UNIVERSITY ORTHOPEDICS	101 Page Street, New Bedford, MA 02740
PROVIDENCE VA MEDICAL CENTER	2 Dudley Street, Suite 200, Providence, RI 02905 1 Kettle Point Avenue, East Providence, RI 02914 1598 South County Trail, East Greenwich, RI 02818 11 Wells Street, Suite 1, Westerly, RI 02891
WOMEN & INFANTS HOSPITAL	830 Chalkstone Ave, Providence RI 02908
WOMEN & INFANTS HOSPITAL PRENATAL DIAGNOSIS CENTER	101 Dudley Street, Providence, RI 02905
YALE NEW HAVEN HEALTH LAWRENCE & MEMORIAL HOSPITAL	101 Plain Street 6 th Floor, Providence RI 02903
YALE NEW HAVEN HEALTH LAWRENCE & MEMORIAL HOSPITAL PEQUOT HEALTH CENTER	Main Campus, 365 Montauk Ave, New London, CT 06320
YALE NEW HAVEN HEALTH LAWRENCE & MEMORIAL HOSPITAL CROSSROADS WATERFORD	52 Hazelnut Hill Road, Groton, CT 06340
YALE NEW HAVEN HEALTH WESTERLY HOSPITAL	196 Parkway South, Suite 102, Waterford, CT 06385
	25 Wells Street, Westerly, RI 02891

PARKING

Students must park in their assigned lot. This includes assigned lots for Rhode Island College, Rhode Island Nursing Education Center, clinical affiliate locations, and Rhode Island Hospital School of Medical Imaging. Failure to comply with parking assignments will result in *The Counseling & Corrective Action Policy* to be followed.

POLICIES

Students are expected to abide by all Rhode Island Hospital School of Medical Imaging and clinical affiliate policies.

POLICY OF NONDISCRIMINATION

All students have access to the rights, privileges, programs, benefits, and activities generally accorded or made available to the school. It does not discriminate on the basis of race, color, gender, sexual orientation, gender identity/expression, genetic information, age, religion, national origin/ethnicity, veteran status or disability in administration of its educational policies.

TUITION & FEES

Tuition is paid to Rhode Island College. Visit *Rhode Island College Admissions* for more information.

RIC ESTIMATED TUITION & FEES (PER SEMESTER)

Rhode Island Residents: \$5,650

Northeast Neighbors: \$8,091

Out-of-state Residents: \$13,649

Rhode Island Hospital School of Medical Imaging participates in Title IV financial aid through enrollment in Rhode Island College. There are no refunds issued by Rhode Island Hospital School of Medical Imaging.

ADDITIONAL FEES (ESTIMATED COSTS)

Imaging Sciences Enrollment Fee - \$1,000

Books - \$750

Calculator - \$25

Uniforms - \$200-300

Laptop (with Microsoft Office) - \$750

Credentialing exam – up to \$300 per exam

TRANSFER STUDENTS & CREDITS

Rhode Island Hospital School of Medical Imaging does not accept transfer credit for any previous medical imaging didactic or clinical courses.

PROBATIONARY PERIOD

The first clinical semester is a probationary period to provide an adequate timeframe to assess whether the program and/or school is a good match for a new student. A student may be dismissed at the discretion of the school at any time during the probationary period without recourse to the grievance procedure.

ACADEMIC & CLINICAL STANDARDS

Students must maintain a minimum grade of "C/74" or higher in all academic and clinical courses.

Any student failing to maintain the minimum grade in a required course or course segment will be dismissed from the program. At the mid semester, students not maintaining a minimum grade of "C/74" will be listed in Rhode Island College's Starfish system. If a student withdraws from a course for any reason, the student will be dismissed from the program.

CREDIT HOURS

15 hours of didactic course work is equal to 1 credit hour

90 hours of clinical course work is equal to 1 credit hour

RHODE ISLAND COLLEGE GRADING SYSTEM

Grades scored between	Equivalent
94 and 100%	A
90 and less than 94	A-
87 and less than 90	B+
84 and less than 87	B
80 and less than 84	B-
77 and less than 80	C+
74 and less than 77	C (PASSING GRADE)
70 and less than 74	C-
67 and less than 70	D+
64 and less than 67	D
60 and less than 64	D-
0 and less than 60	F

ACADEMIC HONESTY & INTEGRITY POLICY

The Rhode Island Hospital School of Medical Imaging requires honesty of all students in their academic work. Honesty is necessary to the learning process and is integral to the atmosphere of genuine inquiry and intellectual curiosity which our programs seek to foster. Academic dishonesty not only contradicts the expectations of our program but violates our school rules and regulations.

Academic Integrity Violations are defined and will be handled in accordance with the relevant *Academic Policies and Procedures*. While you are encouraged to work with other students, the work you submit for grade must be your own. Consequences range from a warning and a zero-grade on the relevant assessment for minor infractions (e.g., asking for answers to assessments on the Bb discussion board) to failing the course for major ones (e.g., having someone else do the work in person or via websites that offer this service). I am duty-bound to report violations to the Provost/Vice President of Academic Affairs and a review by the Academic Integrity Board will follow. Requesting or accessing solutions to assignments on websites like, but not limited to, Chegg, Bartleby, and Yahoo Answers is cheating and will be dealt with as such. The course materials I have created are my intellectual property and sharing them electronically with you is not to be understood as consent, either expressed or implied, for you to share them, in whole or in part, with any person or entity.

EXAMPLES OF ACADEMIC DISHONESTY INCLUDE (BUT ARE NOT LIMITED TO)

Cheating: intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise.

Fabrication: intentional and unauthorized falsification or invention of any information or citation in an academic exercise.

Plagiarism: intentionally or knowingly representing the words or ideas of another as one's own in any academic exercise. The following are examples of plagiarism:

- *Word-for-word plagiarism: This includes (a) the submission of another student's work as one's own; (b) the submission of work from any source whatever (print or electronic) without proper acknowledgement by footnote or reference within the text of the paper; (c) the submission of any part of another's work without proper use of quotation marks.*
- *Patchwork plagiarism: This consists of a piecing together of unacknowledged phrases and sentences quoted verbatim (or nearly verbatim) from a variety of sources. The mere reshuffling of other people's words does not constitute original work.*

- *Unacknowledged paraphrase: It is perfectly legitimate to set forth another author's facts or ideas in one's own words, but if one is genuinely indebted to the other author for these facts or ideas, the debt must be acknowledged by footnote or reference within the text of the paper (e.g., the above paragraphs are based largely on Sears, Harbrace Guide to the Library and Research Paper, p. 39).*
- *Collusion: facilitating academic dishonesty intentionally or knowingly helping or attempting to help another to commit an act of academic dishonesty.*
- *Deception: Providing false information to an instructor concerning a formal academic exercise, e.g., giving a false excuse for missing a deadline or falsely claiming to have submitted work.*
- *Sabotage: Acting to prevent others from completing their work. This includes cutting pages out of library books or willfully disrupting the experiments of others.*
- *Multiple Submissions: Submitting for credit, when a student has not been given permission to do so, any work that is the same or substantially the same as work that has been submitted for credit in another course. Many professors allow re-working or building on prior work; however, multiple submissions are permitted only with the prior permission of the instructor(s), and only when the student acknowledges the multiple submission in the work itself.*

DIDACTIC INFORMATION

The didactic program is scheduled and formatted to provide the proper ratio of practical and classroom experience. Didactic classes are held at Rhode Island Hospital School of Medical Imaging, Rhode Island College, and/or Rhode Island Nursing Education Center. Class day and times are dependent on instructor availability, number of courses offered, and labs associated with the didactic content. See individual program section for specific policies and/or procedures.

ASSESSMENT OF DIDACTIC PERFORMANCE

Students will be given frequent oral, written, or practical examinations by individual didactic instructors. See individual course syllabi for grading details.

CALCULATORS

Radiography and Nuclear Medicine Technology Students are required to have a calculator. It is suggested that the student purchase the school approved calculator at the start of the program. Programmable calculators are not allowed.

CLINICAL INFORMATION

Clinical education is scheduled and formatted to provide cohesiveness between didactic and practicum experience. Clinical hours and placements vary per program and rotation.

CLINICAL AFFILIATE ORIENTATION

Students are required to complete orientation at all clinical affiliates. Clinical affiliates may require additional requirements (training, orientation, drug testing, etc...) for students to rotate at their clinical facility. It is the responsibility of the student to complete all necessary requirements of the clinical site.

PATIENT IDENTIFICATION & VERIFICATION

PATIENT & PROCEDURE IDENTIFICATION POLICY

The purpose of the patient/procedure identification policy is for the student to understand the importance of checking and verifying the following information before performing all examinations and procedures as well as

following through during and after the procedure has been completed. Students must follow affiliate-specific identification processes that include but are not limited to confirmation of:

- Patient
- Exam/Procedure
- Laterality if applicable
- Exam indication
- Imaging marker if applicable

The student is required to comply with all governmental regulations regarding patient confidentiality and privacy as protected under the Health Insurance Portability & Accountability Act. For additional information, please visit. www.hhs.gov.

DISCIPLINARY ACTION

If the student fails to perform any of the steps in the *Patient & Procedure Identification Policy* or does not follow HIPAA laws resulting in a mistake, a compliance event report will be completed. After reviewing the incident, the student will be subject to the *Counseling and Corrective Action Policy* up to program dismissal.

CLINICAL SUPERVISION

Program faculty schedules each student to practice individually with a registered technologist to ensure close direct or indirect supervision. See program-specific sections for detailed information.

DIRECT SUPERVISION

The registered technologist is present in the room during student performance of a procedure. The technologist is fully responsible for the performance of the student assigned to them.

INDIRECT SUPERVISION

The registered technologist is immediately available to assist students regardless of the level of student achievement. Immediately available is interpreted as the physical presence of the technologist adjacent to the room or location where the procedure is being performed.

CLINICAL COMPETENCY REQUIREMENTS

All students are given clinical expectations to be completed as a graduation requirement. The clinical requirements ensure that all certification requirements are met to take the certification examination.

Candidates must demonstrate competence. Demonstration and documentation of clinical competence means that the candidate performed the procedure independently, consistently, and effectively. Candidates must demonstrate competence in mandatory and elective procedures. The list of required competencies is documented on Trajecsyst and in specific course syllabi.

ASSESSMENT OF CLINICAL PERFORMANCE

CLINICAL EXAM LOG

Students must log each exam and indicate level of performance using Trajecsyst. Clinical logs are reviewed by program faculty.

EVALUATION OF STUDENT PERFORMANCE

Program faculty will complete a comprehensive evaluation for each student once per rotation during their clinical experience.

COMPETENCY EVALUATIONS

During each clinical education course, the syllabus will list the competency requirements to be completed for the corresponding semester. The student will typically request a competency evaluation after they have reviewed the procedure (if applicable), observed the procedure, performed the procedure with assistance and independently performed the procedure for an indicated number of times with supervision. Competency evaluation consists of a registered technologist observing the student performing the procedure. For the student to pass the competency evaluation successfully, they must meet standards on all aspects of the evaluation. Failure to obtain a passing competency will require the student to practice the procedure and be re-evaluated. Clinical competency failure two times will result in the following steps.

- Direct one-on-one clinical instruction will be scheduled with program faculty:
 - o The student, with guidance from program faculty, will write out sequential steps for completing the failed procedure.
 - o A student will attempt clinical competency.
 - o Failure to pass the competency evaluation after the above instruction and guidance will result in program dismissal.

Earning competency in a procedure does not relieve a student from performing that procedure during their clinical rotation. See individual course syllabi for competency grading.

ATTENDANCE

Attendance is crucial to maintain satisfactory didactic and clinical performance. Students that maintain low or unacceptable attendance records will find it difficult to fulfill their education requirements. Total clinical and didactic studies cannot exceed 40 hours per week.

SCHEDULES

Didactic and clinical schedules will be posted in advance. Students who work must schedule work shifts accordingly to not interfere with program commitments. No changes will be made to the program schedule to accommodate personal schedules.

DIDATIC ATTENDANCE

Students are expected to be on time for all class lectures and/or laboratory practicums. If the student is absent, **it is the student's responsibility to make up assignments** in accordance with course syllabi.

CINICAL ATTENDANCE

- Students are expected to be on time and stay for the duration of their assigned clinical rotation.
- If the student is going to be late, they must contact the school faculty for further direction.
- If a student is going to be absent, they must contact the clinical affiliate prior to the start of their shift to report their absence. Students must also email school faculty, LSMI administrative assistant and record the absence on Trajecsys.
- Text messaging and peer-relaying are not acceptable forms of reporting absence and will be treated as an unexcused absence.

- If a student is absent consecutive days, the absence must be reported each day prior to their scheduled clinical start time, notify school faculty and LSMI administrative assistant, and record each **day's** absence in Trajecsys. Failure to report an absence is considered an unexcused absence.
- Any excessive missed clinical time must be made up following the Clinical Makeup Time Policy.

PERSONAL TIME

Students are allotted a total of six (6) personal days for the duration of the program.

ATTENDANCE DOCUMENTATION

Students are required to document their attendance through Trajecsys. Only computers at the clinical sites are to be utilized when using the Trajecsys system for attendance. Students are required to notify program faculty and clock out/in if they leave the clinical affiliate campus during school hours. Students are not required to clock out for lunch if they are remaining on campus.

TARDINESS

Students are required to be in their assigned clinical area prior to or by the designated arrival time. Tardiness is defined as any arrival time that is one minute beyond the designated time of arrival. Excessive tardiness will not be tolerated. The *Counseling and Corrective Action Policy* will be followed if the student logs excessive tardiness.

After 3 tardies	Verbal counseling
After 6 tardies	Written corrective action
After 9 tardies	Final written corrective action
10 th tardy	Dismissal from program

UNEXCUSED ABSENCE (NO CALL, NO SHOW)

An unexcused absence is any clinical absence which has not been reported to program faculty, clinical site, and properly recorded on Trajecsys. Any student who fails to report two unexcused absences during the program will be dismissed. The *Counseling and Corrective Action Policy* will follow the following thresholds:

1 st unexcused absence	Final Written Corrective Action Plan
2 nd unexcused absence	Dismissal

EXCESSIVE ABSENCES

Students are required to be in clinical education to progress through the program in a timely manner. Excessive absence is defined as any absence past six personal days and will not be tolerated. The *Counseling and Corrective Action Policy* will be followed if the student logs excessive absences.

7 th absence	Verbal Counseling
8 th absence	Written Corrective Action Plan
9 th absence	Final Written Corrective Action Plan
10 th absence	Dismissal

SPECIAL CIRCUMSTANCES

Students will be granted time off for special circumstances. A written request must be submitted to program faculty and all requests will be considered on an individual basis. If time off is greater than four (4) days, the *Leave of Absence Policy* must be followed.

CLINICAL MAKE UP TIME

Any missed time exceeding allotted personal time must be made up in collaboration with school faculty. Students are not allowed to make up time on weekends, school observed holidays or school closings. Students are not allowed to attend clinical during non-scheduled clinical time unless time is approved with program faculty. Every effort will be made to see that the student is able to make up time in the clinical area in which they were absent. Students must request makeup time by submitting a *Request for Extra Clinical Time* form to program faculty. A minimum of 24-hour notice is required. Only students who sign up in advance will be afforded the opportunity. Students who have not signed up for makeup time, but attend, will not be credited in terms of hours owed for clinic obligations.

MEAL BREAK

Students are allotted a meal break each day. This time is designated by the supervising clinical or didactic instructor. All students are expected to report to their clinical assignment promptly after their meal break. Students are not allowed to work through their meal break and leave their clinical rotation early. On classroom days, a meal break will be built into the schedule if necessary.

CALENDAR

OBSERVED HOLIDAYS

New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving and Christmas.

Students are not allowed to attend clinical on school observed holidays. Other holidays may be observed depending on clinical affiliate. Schedules are subject to change.

SCHEDULED BREAKS

Students will be allotted school breaks during winter recess, spring recess and summer recess. Specific dates will be communicated via program faculty. Students are permitted to request clinical make up time during scheduled breaks.

LEAVE OF ABSENCE

Students are advised that a leave of absence (LOA) could interrupt their educational progress. Students may request one of the following options:

A leave of absence may be requested in circumstances of extended clinical or didactic absence. Justifiable reasons may include and the following examples:

- Family Medical Leave: The birth/adoption of a child, and placement of a foster child as well as to care for a spouse, domestic partner, child, parent with a serious health condition.
- Medical Leave of Absence: **Due to a student's own health condition.**
- Personal Leave of Absence: Personal reasons will be considered on an individual basis.
- Military Leave of Absence: Required obligation for active and inactive servicemembers.

PROGRAM LOA

Temporary Withdrawal from both clinical and didactic instruction.

A vacancy will be held for the student for a maximum of 12 weeks. If a program LOA is extended beyond 12 weeks, readmittance will be determined on an individual basis by program faculty.

CLINICAL LOA

Temporary Withdrawal from clinical rotations with continued participation in didactic instruction.

NOTIFICATION REQUIREMENTS

Except in emergency situations, students who expect to be absent from school for more than four (4) days must complete a *Request for LOA* form. If it is a medical leave of absence, the student must also submit documentation from their health care provider. Documentation must be submitted to program faculty 30 days in advance of the expected leave. If the leave is not planned (e.g., emergency medical), the student must submit the documentation within 14 days of start of leave. A student on a program LOA must provide update to program faculty every 14 calendar days. Failure to update program faculty will result in voluntary withdrawal from the program. When planning medical treatment, a student must consult with program faculty to make **reasonable effort to schedule treatment as to not disrupt the student's education**. The student must provide documentation of medical clearance prior to returning to school.

STUDENT OBLIGATIONS

If at any time during enrollment, a student must take a leave of absence, the student will:

- Be responsible for making up all missed didactic work. Dependent on the type of course(s), degree of difficulty of the course(s), the student's academic standing and length of time out, the student may be required to re-take the course(s) in their entirety.
- Be responsible for making up all missed clinical time. This requires the student to complete upon return all clinical competencies and rotations missed or not completed prior to and during the leave of absence. In addition, the student will be evaluated in those clinical competencies completed prior to time out and will be subject to participation for review purposes should the faculty deem it necessary.
- Complete all requirements for graduation.
- Return to full-time status as soon as possible.

PERSONAL ELECTRONICS POLICY

Cell phones must be turned off and stored in the classroom/clinical settings. Students are prohibited from using personal electronic devices in clinical areas. This includes but is not limited to computers, tablets, cell phones, smart watches and audio devices.

PREGNANCY POLICY

Students are advised that childbirth and/or pregnancy could interrupt their educational progress. If a student becomes pregnant and wishes to declare pregnancy, they are required to inform the Program Director in writing and complete a *Declaration of Pregnancy* form.

UPON DECLARATION OF PREGNANCY, THE STUDENT

- Will have the option to counsel with Medical Physics/Radiation Safety personnel.
- Will submit a statement choosing one of the following options:

- Immediate leave of absence.
- Withdrawal from clinical rotations with continued participation in didactic instruction.
- Continued full-time didactic status with clinical rotation limitations.
- Continued full-time status.
- Can withdraw her declaration.
 - A student has the right to undeclare her pregnancy at any time. Notification must be made in writing. Once a student has undeclared her pregnancy, the student will be treated as though she were not pregnant.
- NMT-specific: The student will not be required to (1) assist on administration of ¹³¹I therapy doses (2) rotate through Hot Lab (3) rotate through PET/CT.
- MRI-specific: The declared pregnant student is not allowed to perform any duties within the MR scanner room or Zone IV during actual data acquisition or scanning.
- The maximum permissible dose equivalent for the unborn child of a pregnant radiation worker shall be no more than 0.5 rem during the period of gestation, and less than 50 mrem per month. The reading of the waist level fetal badge will be used to estimate fetal dose.

A DECLARED PREGNANT STUDENT MAINTAINING FULL-TIME STATUS WITH OR WITHOUT CLINICAL LIMITATIONS WILL BE REQUIRED TO

- Adhere to all safety precautions.
- Wear a fetal badge at waist level for fetal monitoring. The fetal badge will be worn under the optional lead apron, if worn. The fetal badge will be read monthly.
- Should the student exceed the recommended amount of exposure, she must either withdraw from clinical rotations with continued participation in didactic instruction or request an immediate leave of absence.
- Submit documentation as to any changes or problems in her pregnancy and the advisability of change in program status.
- Stop working immediately and report to program faculty if the pregnant student feels that she is working in an unsafe area or under conditions detrimental to herself or the fetus.
- Make up any missed didactic and/or clinical requirements.

SAFETY POLICIES

MRI SAFETY POLICY

This policy is based on the ACR Manual on MR Safety

There are no known biological risks associated with magnetic field or radiofrequency exposure to individuals that work in close proximity to MRI systems. The static magnetic field of the MRI machine is always on, 24hours/7days a-week/365 days a year, requiring Zones III and IV be secured at all times. Ferromagnetic objects carried into Zone IV can become projectiles that may cause serious injury, death or equipment failure. MRI machines generate a very strong magnetic field within and surrounding the MRI scanner, therefore all individuals must be screened for MR safety prior to entering Zones III or IV of the MR environment. As a medical imaging student, you are required to follow MRI Safety policies and procedures. It is the students' responsibility to inform the program faculty of any changes that would affect their safety in MRI. The declared pregnant student is not allowed to perform any duties within the MR scanner room or Zone IV during actual data acquisition or scanning. All medical imaging students will be educated and screened on MR safety prior to the beginning clinical rotations.

Non-MRI students will be rescreened prior to their MRI observation. Non-MRI students will be screened again by MRI technologists on the day of their observation.

RADIATION SAFETY POLICY

It is the policy of the hospital directed by the State and Federal regulatory agencies that medical imaging students be monitored by means of a dosimetry badge for recording radiation dose levels. The Medical Physics/Radiation Safety department will provide one radiation badge (body badge) for monitoring students. **It is the student's responsibility to wear the radiation badge in the proper manner, protect it from damage, avoid losing it and turn it in on time.** Failure to comply is a direct violation of policy as well as against State and Federal Laws. The student must wear their radiation badge during clinical rotations. No student will be allowed to remain in clinical without their radiation badge.

- The radiation badge must be worn at neck level. If rotating through the OR and Fluoroscopy areas, radiation badge must be worn outside lead apron at neck level.
- Never leave radiation badge in an imaging room.
- Never wear radiation badge if the student is having medical or dental radiographs taken.
- Any accidents with the badge or loss of the badge must be immediately reported to program faculty.

EXPOSURE LIMITS

- Student whole body (deep dose): 5 rem (5,000 millirems) per 12-month period.
- Pregnant Student: 0.5 rem (500 millirems) per entire gestation period or 0.05 rem (50 millirem) in any one month.
- A student receiving 0.03 rem (30 millirem) deep or whole-body dose or higher within a one-month period will be counseled by the Program Director and the reason for the exposure documented.
- A student receiving 0.04 rem (40 millirem) deep or whole-body dose or higher within a one-month period will receive written notification for the dose and will be required to respond in writing, providing an explanation for that dose. Radiation safety counseling by the Radiation Safety Officer and the Programs Administrator will also be provided.

Radiation badges will be read quarterly (except pregnant student) and evaluated by the Radiation Safety Officer. If readings are reported that are outside of the predetermined threshold (ALARA) levels, the **student's work habits will be investigated by the Radiation Safety Officer.**

Program faculty will review radiation exposure reports with students quarterly. Students are required to initial reports. **Radiation exposure reports will be kept on permanent file in the Program Director's office.** Any questions regarding exposures will be directed to the program faculty and/or Medical Physics/Radiation Safety personnel.

RADIATION SAFE PRACTICES

The student is expected to always exercise sound radiation protection practices. At no time should a student participate in a procedure that exhibits unsafe protection practices.

- Never make an exposure while the door to the radiographic room is open.
- Always use collimation.
- Always stand behind the lead barrier when making an exposure.
- Never to hold image receptors during radiographic examinations.

- Never to hold patients during any radiographic procedure when an immobilization method is the appropriate standard of care.

COMPLAINT & GRIEVANCE PROCEDURE

POLICY

The purpose of this procedure is to allow enrolled students and school faculty the opportunity to resolve program problems and to be assured of fair, unbiased decisions.

PROCEDURE

1. The student or faculty member is advised to try to resolve the situation/concern with the individual.
2. If the situation/concern is not resolved, the student or faculty member will have five (5) business days to submit a complaint in writing to the appropriate Program Director. The Program Director will have ten (10) business days to respond.
3. **If the student or faculty member is not satisfied with the Program Director's response, the student or faculty member may file a grievance.** The grievance must be submitted in writing to the School Administrator within five (5) business days. The School Administrator will have ten (10) business days to respond.
4. **If the student or faculty member is not satisfied with the School Administrator's decision, the student or faculty member will have five (5) business days to appeal the decision.** The appeal in writing must be submitted to the Vice President of Lifespan Medical Imaging. The Vice President of Lifespan Imaging will have ten (10) business days to respond.
5. **If the student or faculty member is not satisfied with the Vice President's decision, the student or faculty member will have five (5) business days to appeal the decision.** The appeal in writing must be submitted to the Medical Director. The Medical Director along with the Grievance Committee will have twenty (20) business days to respond.
6. **If the student or faculty member is not satisfied with the Medical Director's decision, the student or faculty member will have five (5) business days to appeal the decision.** The appeal in writing must be submitted to the School Administrator. The School Administrator will present all documentation to a Lifespan Human Resource (HR) Representative. The HR Representative will have twenty (20) business days to respond. **The HR Representative's decision will be final.**

GRIEVANCE COMMITTEE

The Grievance Committee is comprised of the program administration and faculty, medical director, Vice President of Lifespan Imaging, individuals from clinical affiliates (if necessary), and RIC representative. Students enrolled at RIC cannot grieve to RIC if they are suspended or expelled (temporarily or permanently) for their failure to comply with the school or clinical affiliates rules, regulations, policies, and procedures, or if the **student's conduct, competence, attitude, or health status** may have a detrimental effect of the clinical affiliates professional staff (including other students), its patients, or its visitors. Independent of any action the clinical affiliate may take regarding such misconduct, the student will also be subject to college rules and regulations denoted in the RIC Handbook. Students do have the right to appeal a grade through the appropriate academic channels of the college.

Faculty and Administration of Rhode Island Hospital School of Medical Imaging will discuss student issues with enrolled students only. Any follow-up conversations will include Rhode Island College administration.

COUNSELING & CORRECTIVE ACTION POLICY

The *Counseling and Corrective Action Policy* is designed to enable students to understand and carry out their responsibilities within a culture of safety. To assist in providing safe, high-quality, patient care and cost-effective healthcare to our patients, all students are expected to:

- Act in accordance with the vision, mission and values of the school and its clinical affiliates.
- Treat everyone with dignity and respect.
- Continuously seek to maintain the skills necessary to perform their job responsibilities.
- Meet the requirements of their position as student.

It is the policy of the school and its clinical affiliates to provide students with the direction and support to enable students to perform their responsibilities well. When students are unable or unwilling to perform their responsibilities, faculty will take corrective action, as specified in this policy, resulting in either improved performance or if appropriate, dismissal from the program. Corrective action should be initiated as soon as possible after faculty becomes aware of the performance or behavior issue, after one or more of the following actions have been initiated:

- Performance or behavior expectations were clearly communicated to the student.
- **There was an adequate period to assess the student's performance.**
- The expectations were consistent with student status.
- The faculty took proactive steps, including counseling, to help the student improve their performance or behavior.

COUNSELING

During counseling, assuming the infraction does not warrant immediate dismissal, faculty will discuss with the student:

- What aspects of performance and/or behavior need to be corrected or improved.
- What the expected standard is and what the student needs to do to meet that standard.
- What consequences may follow from subsequent failure to meet the standards or expectations.
- What faculty will do to help the student meet the expectation or standard (education, training, coaching, etc.).
- **How the student's performance or behavior will be monitored.**
- Documentation of counseling will be kept by program faculty.

FORMAL CORRECTIVE ACTION STEPS

When counseling does not improve the student's performance or behavior, the *Formal Corrective Action* process will be used. Generally, a *Written Corrective Action Plan* is the first step in the process. However, an immediate move to a *Final Written Action Plan* or dismissal may be appropriate when there is a serious behavior or performance problem. All *Corrective Action Plans* and dismissal will include consultation with the School Administrator.

STUDENT PERFORMANCE WORK PLAN

During the corrective action process, the student may be required to complete a *Student Performance Work Plan*. This plan ensures the student understands the behavior that needs to be corrected and commits to improving the behavior.

WRITTEN CORRECTIVE ACTION PLAN

This plan is written documentation of the specific performance or behavior that needs improvement. Failure by the student to meet the standards or expectations established in the *Written Corrective Action Plan* may result in issuance of a *Final Written Action Plan*.

FINAL WRITTEN ACTION PLAN

The *Final Written Action Plan* is generally given when the student has not performed successfully under the prior *Written Corrective Action Plan*. It is the student's last opportunity to improve their performance or behavior. If significant improvement is not demonstrated during the time specified in the plan, dismissal is the next step.

DISMISSAL

Failure to meet the standards or expectations established in a *Final Written Action Plan*, or violations of a serious nature, will result in immediate dismissal without additional notice. Students dismissed from the Rhode Island Hospital School of Medical Imaging may remain enrolled as a student at Rhode Island College.

Examples of Behaviors Necessitating Corrective Action

THE LIST BELOW IS INTENDED AS A SAMPLING, NOT A COMPLETE LIST, OF PERFORMANCE, BEHAVIORS OR PRACTICES DURING THE PROGRAM THAT MAY BE A CAUSE FOR CORRECTIVE ACTION AND/OR IMMEDIATE DISMISSAL BASED ON THE RESULTS OF AN INVESTIGATION

- Insubordination
- Any form of disruptive behavior
- Violation of any policy
- Refuse to accept a reasonable assignment
- One unexcused clinical absence
- Tardiness and/or absences
- Failure to maintain clinical documentation
- Failure to follow professional appearance standards
- Smoking in prohibited areas
- Failure to follow parking regulations
- Failure to follow identification and verification policies
- Failure to follow safety regulations
- Performance below standards or expectations
- Failure to accurately or completely record the start and end times of clinical practice
- Failure to follow use of Electronics in the Workplace Policy
- Failure to follow Social Media Policy
- Inappropriate utilization of information technology

Examples of Behaviors Necessitating Immediate Dismissal

THE LIST BELOW IS INTENDED AS A SAMPLING, NOT A COMPLETE LIST, OF PERFORMANCE, BEHAVIORS OR PRACTICES DURING THE PROGRAM THAT MAY CAUSE IMMEDIATE DISMISSAL BASED ON THE RESULTS OF AN INVESTIGATION

- Failure to comply with the corrective action plan or to meet the deadline noted in plan

- Engaging in the same or new actions that would result in placing the student on probation or require corrective action
- Gross neglect of duty
- Deliberate violation of federal and state rules and regulations or professional standards
- Conscious, willful or repeated disregard for policies or procedures
- Willfully endanger the safety or well-being of any individual
- Threat of, or actual physical or verbal abuse, or neglect
- Failure to follow discrimination policy
- Falsification of any official document
- Willful neglect, damage to, or theft of property
- Failure to follow HIPAA regulations
- Performing exam without authorized order
- Violation of sexual harassment policy
- Illegal use, possession, or sale of alcoholic beverages and/or drugs
- Possession of firearms or other weapons
- Conviction of felony
- Two (2) incidents of unexcused absence during the program
- Excessive tardiness and/or absences

In addition, an internal finding of wrongdoing that might constitute a violation of state and/or federal law or relevant healthcare or other regulatory standards may be reported to the appropriate legal authorities or regulatory bodies. If the student commits an act of patient neglect or abuse, Risk Management will be notified.

DOCUMENTATION

The *Corrective Action Plan* form is designed to help faculty and students understand the process and will be utilized to document all *Written Corrective Action Plans*. **The student's signature on the form signifies that a discussion of its content has taken place.** A copy of the *Corrective Action Plan* is provided to the student and the original signed plan will be placed in the student's school file.

INVESTIGATIVE SUSPENSION

An investigative suspension is used to allow time for faculty to investigate a serious performance or behavior problem that potentially may result in dismissal. A suspension is typically no more than three days. All missed time due to investigative suspension must be made up following the *Make-Up Time Policy*.

GRIEVANCE

When using corrective action, faculty should advise the student of their right to grieve. Under the Grievance Procedure, students may grieve any of the steps in corrective action.

It is the policy of the Rhode Island Hospital School of Medical Imaging to discuss counseling, corrective action, and dismissal with the enrolled student only.

STUDENT TERMINATED AS EMPLOYEE

In the event a student, working as an employee, is terminated from a clinical affiliate, the student may be dismissed from the program.

FAMILY EDUCATION RIGHTS AND PRIVACY ACT

The Rhode Island Hospital School of Medical Imaging complies with the Family Educational Rights and Privacy Act (FERPA), a Federal law that protects the privacy of student education records. Visit the web site for more information at <http://www.ed.gov/policy/gen/guid/fpco/ferpa/index.html>.

CHANGE IN PERSONAL DATA

All changes in address, telephone number, marital status, legal name, and citizenship must be reported to Administrative Assistant at LSMI. Cooperation in the matter will assist us in keeping records up to date.

EMERGENCY CONTACT

The faculty encourages students to leave the school's main number (401-606-8531) in case of an emergency.

CONTINGENCY PLAN

If an unplanned catastrophic event occurs, school faculty will consult with Rhode Island College, Rhode Island Hospital, and clinical affiliate administration to determine the best path to maintain program integrity. Every effort will be afforded to minimize interruptions to program operations to ensure student learning is maintained. To mitigate the loss of education, faculty will use a variety of methods to replace the current education methods. Didactic education will be delivered through Rhode Island College's learning management system or if necessary, through the United States Postal Service. Clinical education will be replaced with schedule alterations and/or assignments, simulated clinical experiences, and/or virtual demonstrations. Once clinical restrictions have been lifted, students will be responsible for completing all or a portion of missed clinical assignments to satisfy graduation requirements and certification board requirements. This may require an extension beyond the scheduled program completion date.

SCHOOL CANCELLATION

Rhode Island Hospital School of Medical Imaging will announce school cancellation notices through the Rhode Island Broadcasters Association. Tune into local news stations, or log onto websites for cancellations. Students are encouraged to sign up for a free service through the RI Broadcasters Association that allows students to receive school closings with a text message sent directly to their mobile phone or email. Cancellations will also be posted on the LSMI Facebook page.

ADVISORY COMMITTEE

The advisory committee is comprised of the program administration and faculty, individuals from clinical affiliates, and Medical Imaging Student Representatives. The advisory committee meets once a year to evaluate the programs, discuss changes, and other related programmatic topics.

MEDICAL IMAGING STUDENT REPRESENTATIVE

A student representative is selected for each modality in the first semester of the program. Selected students will meet at a minimum quarterly with school faculty to discuss program issues. They will also be invited to attend the annual school advisory meeting and participate in leadership programs through the professional societies.

ETHICS REQUIREMENTS FOR REGISTRY ELIGIBLE GRADUATES

ARRT ETHICS

A candidate for certification must be a person of good moral character and must not have engaged in conduct that is inconsistent with the ARRT Standards of Ethics or the ARRT Rules and Regulations and must have complied and agree to continue to comply with the ARRT Standards of Ethics and the ARRT Rules and Regulations. Please refer to arrt.org for details.

NMTCB ETHICS

Nuclear Medicine Technologists, as Certificants of the health care profession, must strive as individuals and as a group to maintain the highest of ethical standards. The Principles (SNMTS Code of Ethics) are not laws, but standards of conduct to be used as ethical guidelines by nuclear medical technologists. These Principles were adopted by the Technologist Section and the Society of Nuclear Medicine at the 2004 Annual Meeting. They are standards of conduct to be used as a quick guide by nuclear medicine technologists. Please refer to nmtcb.org for details.

SDMS ETHICS

The goal of the code of ethics is to promote excellence in patient care by fostering responsibility and accountability among diagnostic medical sonographers. In so doing, the integrity of diagnostic medical sonography will be maintained. Please refer to sdms.org for details.

PROFESSIONAL ORGANIZATIONS

During course MEDI 203 Introduction to Medical Imaging students are introduced to the various professional organizations. Students are made aware of and strongly encouraged to join their professional organizations as a student in a medical imaging clinical program.

GRADUATION REQUIREMENTS

The student must meet the following requirements to be eligible to receive a school certificate:

- Completion of all didactic courses and clinical requirements according to the established criteria.
 - A student with incomplete records in either area shall not be granted a certificate and will not be authorized by the program faculty as meeting the educational requirements for certification.
- All make-up time must be completed.
- Students must return the following items to the school, if applicable:
 - Radiation badge(s)
 - Identification badge
 - Anatomical markers
- Candidate has met all financial obligations of the school, if applicable.

PROFESSIONAL APPEARANCE STANDARDS

GENERAL INFORMATION

The purpose of *Professional Appearance Standards* is to foster a professional image appropriate for a healthcare environment. Students represent the school and clinical affiliate within the healthcare community

through personal appearance. Compliance with appearance standards reinforces confidence and respect for the organization, and maintains the health and safety of patients, visitors, and colleagues. It is the responsibility of each student to present a professional image through compliance with the following outlined standards.

IDENTIFICATION STANDARDS

School-issued (or affiliate-issued) identification badge must be worn at all times while in class and at the clinical affiliate. The badge must be displayed in the upper chest/shoulder area, on the front of the outer garment, clearly visible and not obscured in any way. Lanyards are not acceptable except for MR students. Identification badges should not be altered in any way.

ATTIRE STANDARDS

The school uniform, purchased through Alexander's Uniforms, are dark gray scrubs embroidered with the designated logo. The school uniform must be worn at all times during the program (class, labs, and clinical education). Students are not allowed to wear school embroidered uniforms outside of school hours. Uniform must be well-fitting, clean, and neatly pressed. Students may wear plain white, black, or gray shirts (no writing or design) under their uniform top. Lab coats may be worn. Lab coats are mandatory for NMT students. Sweaters or sweatshirts are not permitted. Attire for operating room rotations will be according to affiliate policy and will be reviewed at the start of the clinical experience.

FOOTWEAR STANDARDS

The student must wear a school-approved white, black, or gray (solid color) professional shoe or leather, low-cut, athletic shoe. Crocs or mesh athletic shoe are not permitted.

Footwear should be safe, appropriate, and sensible regarding the work environment. Footwear should be neat, clean, polished and in good condition, and provide protection from hazards such as heavy objects, chemicals, and/or bodily fluids. Socks must be white, black, or gray (solid color).

GROOMING STANDARDS

Students should be physically clean and free of pervasive body odor, as well as pet, smoke, chemical, and other strong environmental odors for the protection and comfort of patients, visitors, and colleagues. Fragrances, such as perfumes, colognes, powders, or other personal care products, should not be pervasive for the protection and comfort of patients, visitors, and colleagues.

Students are prohibited from smoking/vaping or using tobacco while in uniform or when representing Rhode Island Hospital School of Medical Imaging.

Fingernails are to be neat, clean, and short in length (1/4 inch beyond the end of the finger). Fingernail polish is not permitted. Artificial fingernail enhancements of any type are not to be worn by students. This includes but is not limited to artificial nails, tips, wraps, appliqués, acrylics, gels, and any additional items applied to the natural nail surface.

Hair should be clean, neat, well-groomed and should not represent extremes in color or fashion. Hair longer than shoulder-length must be pulled or tied back away from the face to ensure that it does not impinge the **student's own safety, ability to perform** their job, or infection control. Facial hair should be well-groomed, neat, and trimmed; beards trimmed to jaw line and mustache trimmed to lip line.

Makeup should be tasteful and appropriate to the healthcare setting.

ADORNMENT STANDARDS

Jewelry should be appropriate to the healthcare environment. Only a single watch, bracelet, and one set of rings on one hand may be worn. Buttons and decorative pins shall not be worn. Use of sunglasses indoors is not permissible.

BODY ART STANDARDS

Tattoos must be covered at all times. Permanent make-up should be conservative and not trendy. Permanent make-up includes eyeliner, eyebrows, and makeup applied to fill in lips. Intentional body mutilation, piercings, branding/intentional scarring that is excessive or eccentric is not permissible. This includes a split or forked tongue; cosmetic foreign objects implanted under the skin; and intentionally enlarged or stretched out earlobes (other than a normal piercing). Ear piercings are limited to three earrings or less per ear. All other visible piercings are not permissible. False eyelashes or extensions are not permissible.

Program and clinical faculty members reserve the right to dismiss a student from the clinical area or classroom if the student does not present professionally. A student not in compliance with *Professional Appearance Standards* will be required to make up any missed time or assignments. The *Counseling and Corrective Action Policy* will be followed.

STUDENT HEALTH

MANDATORY VACCINATIONS & TESTING

COVID and annual Flu vaccines are mandatory. Medical and religious exemptions are not accepted unless approved by Lifespan. Flu vaccinations are available to students free of charge.

All students are required to be fit-tested for N-95 masks annually.

HEALTH SERVICES

Health services are available to enrolled Rhode Island College students. See the health center's web site at <http://www.ric.edu/healthservices/> for additional information.

HEALTH CHANGES

The student must notify program faculty of changes to their health status or medications. If at any time a student has been hospitalized longer than 24 hours or absent for 3 consecutive days, the student must present documentation of medical clearance to resume didactic and clinical course work. There is no opportunity for light duty.

INJURY TO STUDENT

All accidents or injuries, major or minor, must be reported to a supervisor at clinical affiliate immediately. The student must notify program faculty as soon as possible after an injury has occurred. An incident report must be completed and filed at the Rhode Island Hospital School of Medical Imaging.

COMMUNICABLE DISEASE EXPOSURE

Students are required to report any exposure to a communicable disease (e.g. hepatitis, tuberculosis, pertussis, COVID, etc.) to a supervisor at clinical affiliate. The student will follow the clinical affiliate policy for

communicable disease exposure. The student must notify program faculty as soon as possible after exposure has occurred. An incident report must be completed, and a copy filed at the Rhode Island Hospital School of Medical Imaging. If an exposure is reported to program faculty via EOHS, the student must provide written documentation that follow-up occurred. In the case of student injury/communicable disease exposure, the student may go to their health care provider, RIC health center (if applicable), urgent care center, or emergency department for care. The student is responsible for fees related to medical treatment.

STUDENT SERVICES

ACCOMODATIONS

The Rhode Island Hospital School of Medical Imaging is committed to making reasonable accommodations for students with documented disabilities. If a student is seeking reasonable accommodations for a disability under the American with Disabilities Act, and/or Section 504 of the Rehabilitation Act of 1973, they are required to submit the proper documentation to program faculty. Rhode Island College students must register with the Disability Services Center at RIC and provide a *Request for Reasonable Accommodations* letter to their instructors. Students requesting course accommodations through the Disability Services Center at RIC must schedule a meeting with course instructor before the start of the semester to sign form and discuss accommodations. Any recorded course materials will not be shared outside of course and must be destroyed at the end of the course.

CLINICAL STATEMENT NOTE

Testing and Classroom Accommodations listed on an *Accommodation Letter* from Disability Services apply to the classroom portion of the course only. In the clinical and/or laboratory settings, a student must be able to **function within the minimum requirements outlined by the program's *Technical Standards***. Students should possess the skills and abilities in order to perform the required tasks and duties of the profession.

ADVISEMENT

Each student attends advisement sessions with program faculty a minimum of two times per semester – mid-semester and end-of-semester. **A signed copy of the advisement discussion is placed in the student's file.** If additional advisement is necessary, faculty follows the *Counseling and Corrective Action Policy*.

Enrolled Rhode Island College students have access to the Counseling Center on the RIC campus. The Counseling Center exists to help students fully develop their intellectual, emotional, and social potential, and to alleviate the distress and conflicts which may interfere with that development. For more information, visit the **center's web site** at <http://www.ric.edu/counselingctr>.

CAREER DEVELOPMENT SERVICES

RIC Career Development Center provides counselors for resume and interview workshops at the Rhode Island Hospital School of Medical Imaging for medical imaging students. Enrolled Rhode Island College students also **have access to the Career Development Center on the RIC campus.** For more information, visit the center's web site at <http://www.ric.edu/careerdevelopment>.

COMPUTERS

Students have access to limited computers at Lifespan Rhode Island Hospital School of Medical Imaging for educational purposes (see program faculty to obtain access). Computers are also available to enrolled Rhode

Island College students on the college campus. Computers in the radiology departments are to be utilized for hospital use only. Any computer that is property of Lifespan Rhode Island Hospital School of Medical Imaging does not replace the need for student technology.

LEARNING FOR LIFE

Enrolled Rhode Island College students have access to Learning for Life, a collaboration of the College Crusade, Goodwill Industries of Rhode Island, College Visions and Rhode Island College. Learning for Life (L4L) links students to a wide range of services, supports, and opportunities that will fortify them for college success and remove any challenges and obstacles that may prevent education from remaining a priority in their lives. For more information, visit the web site at [http://www.ric.edu/learning for life/](http://www.ric.edu/learning%20for%20life/).

LIBRARIES

The following libraries are available for student use:

- Peters Health Sciences Library at Rhode Island Hospital
- James P. Adams Library at Rhode Island College is available for enrolled Rhode Island College students

TUTORING

Tutoring is available on an **as-needed basis to all students upon request**. It is the student's responsibility to request tutoring as well as complete any recommended follow-up. Tutoring is scheduled according to instructor availability and should not be scheduled during clinic time.

TECHNICAL STANDARDS

PSYCHOMOTOR

- Stoop: to lift imaging supplies and accessory equipment
- Kneel: to perform CPR, to assist patient who may fall or faint
- Crouch: to place supplies and accessory equipment on floor or under imaging/exam table
- **Reach: at least 6' from floor to imaging equipment**
- Handle: imaging equipment
- Maneuver: patients in wheelchairs and stretchers, IV poles, oxygen tanks; patients on/off exam tables and/or wheelchairs; patients who may fall or faint
- Lift and place: patient, imaging supplies, and accessory equipment
- Walk: for duration of assigned shift
- Wear: lead aprons, thyroid shields, and lead gloves if applicable
- Hear: verbal directions/requests from physicians, patients, etc., blood pressure sounds through stethoscope, signals from imaging equipment
- See: control sheets for information related to examination, proper position of patients, proper equipment setup, motionlessness; respiratory phase of patient
- Talk: to communicate in English to staff, patients, etc.
- Manipulate: small objects such as knobs, buttons, needles and syringes, etc.

COGNITIVE/AFFECTIVE

Students must possess the physical and emotional health required for the application of their intellectual abilities and the employment of sound judgment in an appropriate and prompt manner.

- Demonstrate emotional stability to function effectively under stress.
- Manage and prioritize multiple tasks.
- Exhibit social skills necessary to communicate effectively and maturely.
- Maintain effective, mature, and sensitive relationships with others.
- Adapt to changing environments and display flexibility.
- Work independently with indirect supervision.
- Possess motivation.
- Maintain professional integrity at all times.
- Cannot have phobias that would not allow them to perform routine tasks and care in the healthcare environment.

MRI TECHNICAL SAFETY

- Student cannot have contraindicated biomedical devices, implants, and materials (pacemaker).
- Student cannot have ferromagnetic contraindicated biomedical devices, implants, and materials (aneurysm clip).
- Students cannot have accidental ferromagnetic implanted objects and/or materials (shrapnel in eyes, skin).
- Students cannot have contraindicated devices assisting in routine tasks (hearing aid).
- Students cannot have phobias that would not allow them to perform routine tasks and care in the healthcare environment.

VENIPUNCTURE TRAINING

Student will complete Venipuncture Simulation Competency. Failure to pass the competency after two attempts will result in program dismissal. After successful completion of Venipuncture Simulation Competency, the student must complete the required venipuncture competencies per clinical syllabus requirements, if applicable. If the student does not complete the venipuncture competency per clinical syllabus, the student will be dismissed from the program immediately.

TECHNOLOGY

Students are required to have a personal, reliable laptop. Use of iPads and tablets is not permitted for activities (assignments, quizzes, tests, exams). Laptops should be brought to each class as all activities will be completed via Blackboard. Activities will be timed and will shut off/submit once time runs out. Activities will not be reset. Students must use reliable/secure Wi-Fi access. Reliable/Secure access is available via Rhode Island College and Lifespan Rhode Island Hospital School of Medical Imaging.

TEXTBOOKS

Students will be provided with a textbook list prior to the start of each semester. It is the student's responsibility to obtain all the required textbooks prior to the start of each course.

STUDENT VOLUNTEER POLICY

Students of Rhode Island Hospital School of Medical Imaging are permitted to scan fellow students, technologists, radiologists, and themselves for educational purposes with faculty supervision. Students may volunteer to be scanned by fellow students, technologists, or radiologists. This is on a voluntary basis and for teaching purposes only. There is a possibility that pathology may be found during the exam and students are

encouraged to contact their healthcare provider. There is a possibility that pathology may be present and not be discovered during the educational practice sessions. Program specific faculty reserve the right to revoke student volunteer status at any time.

PROGRAM WITHDRAWAL

If a student wishes to withdraw from the program for any reason, the program faculty must be notified in writing. There are no refunds from Rhode Island Hospital School of Medical Imaging. If a student withdraws from a course for any reason, the student will be dismissed from the program.

SOLICITATION OR DISTRIBUTION

Solicitation is defined as urging or attempting to verbally persuade another individual to buy a product or service, support a cause, join an organization, or make contributions to a fund. Distribution is defined as the handing out of printed or written materials that are not official hospital/school business. The primary purpose of this policy is to protect students, employees, patients and visitors from embarrassment or inconvenience caused by unwanted solicitations.

PRIMARY TRACKS

PROGRAM-SPECIFIC INFORMATION



**Lifespan
School of Medical Imaging**
Delivering health with care.®

Diagnostic Medical Sonography

ABDOMINAL EXTENDED & OBSTETRICAL AND GYNECOLOGY

This section has been designed to give you specific policies and procedures that govern the Diagnostic Medical Sonography Program.

ACCREDITATION

The JRC-DMS reviews sonography programs to ensure that the program follows and adheres to standards set and recommends accreditation.

COMMISSION ON ACCREDITATION OF ALLIED HEALTH EDUCATION PROGRAMS (CAAHEP)

1361 Park Street
Clearwater, FL 33756
Tel: (727) 210-2350
Fax: (727) 210-2354
Email: mail@caahep.org

JOINT REVIEW COMMITTEE ON EDUCATION IN DIAGNOSTIC MEDICAL SONOGRAPHY (JRC-DMS)

6021 University Boulevard, Suite 500
Ellicott City, MD 21043
Tel: (443) 973-3251
Fax: (866) 738-3444
Email: mail@jrkdms.org

THE PROGRAM

Lifespan Rhode Island Hospital School of Medical Imaging offers a 20-month full time program designed to offer both clinical and didactic education in diagnostic medical sonography. Upon successful completion of Spring 1 Semester, the student is expected to complete and pass the Sonographic Physics & Instrumentation examination offered by the American Registry of Diagnostic Medical Sonographers. Upon successful completion of the SPI examination, the student will continue in the program. Once program requirements are met, the student is qualified to take the Abdomen Extended and OB/GYN certifying examinations offered by the American Registry of Diagnostic Medical Sonographers.

PROGRAM GOALS & STUDENT LEARNING OUTCOMES

STUDENT WILL BE COMPETENT IN THE KNOWLEDGE, SKILLS AND BEHAVIOR LEARNING DOMAINS WITHIN THE ABDOMINAL SONOGRAPHY (EXTENDED) AND OBSTETRICS AND GYNECOLOGY SONOGRAPHY CONCENTRATIONS. THE STUDENT WILL BE AN ENTRY-LEVEL SONOGRAPHER.

- Students will be able to independently perform abdominal (extended) sonographic examinations and procedures.
- Students will be able to independently perform obstetric and gynecologic sonographic examinations and procedures.
- Students will display technical skills necessary to produce high-quality sonographic images as well as identification and documentation of pathology.

Students will practice safe ergonomics.

STUDENTS WILL DEMONSTRATE EFFECTIVE COMMUNICATION WHEN WORKING WITH PATIENTS AND HEALTHCARE PROFESSIONALS IN A MANNER THAT RESPECTS DIVERSITY AND PROMOTES INTEGRITY.

- Students will be able to demonstrate effective and professional oral communication skills with patients, staff, and radiologists.
- Students will demonstrate effective written communication skills in preliminary reporting.
- Students will direct patients with ease and confidence to obtain proper images while understanding the patient's needs and capabilities.

STUDENTS WILL APPLY EFFECTIVE CRITICAL THINKING SKILLS TO SOLVE PROBLEMS IN THE HEALTHCARE ENVIRONMENT.

- Students will adjust scanning techniques to accommodate all unique challenges.
- Students will maximize ultrasound controls to produce high-quality images.
- Students will be able to accept constructive feedback and adjust accordingly.

STUDENTS WILL DISPLAY QUALITIES REQUIRED FOR PROFESSIONAL GROWTH AND DEVELOPMENT AS WELL AS PRIORITIZING CONTINUOUS EDUCATION IN ORDER TO BEST SERVE THE COMMUNITY.

- The program will recruit those students who are well-prepared to meet the academic challenges of the Diagnostic Medical Sonography Program.
- The program will help fulfill the needs of the healthcare community.
- Both graduates and employers will be satisfied with the practical skills learned in the program and will fulfill the needs of the healthcare community.
- The program will prepare students to successfully attempt national registry examinations.
- Students will understand the value of personal, professional advancement and will continue to obtain additional credentials and technical experience.

CLINICAL INFORMATION

CLINICAL PRACTICUM

The required clinical practicum is referred to as competency-based education. The curriculum is structured based on defined objectives and competencies.

Clinical education is a planned and structured experience. The 20-month clinical program is an inter-sequential integration of didactic and practical learning through classroom lectures, clinical laboratories, supplementary lectures, discussions, demonstrations, and supervised practice of standardized procedures. The clinical affiliates offer a balanced education sufficient in quantity and variety of examinations as well as diversified modern equipment. All students will have an opportunity to observe in other imaging modalities.

A standardized evaluation system is followed to document the student's clinical progress throughout the program. All students are required to demonstrate competence in a variety of procedures. School faculty makes every effort to preserve educational cohesiveness without compromising the patient care responsibilities of the department. The program faculty has the right to make changes to the clinical assignment schedule if deemed necessary or advantageous. A student will never be expected to replace a registered technologist.

Clinical sites may be added or deleted at the discretion of the program director and faculty and based on the JRC-DMS recognition process.

CLINICAL HOURS

Clinical hours are based on an 8-hour workday and start times can vary based on clinical site and rotation. Schedules will be determined by the individual clinical site. Any changes to the schedule must be approved by the affiliate education supervisor and program director. Evening rotations may be required and assigned on an individual basis.

CLINICAL SCHEDULE

Students will be scheduled at a specific clinical site. The schedule will be given in advance so students can plan accordingly. The rotations will be equally distributed. Changes can be made by program faculty due to extenuating circumstances.

CLINICAL COMPETENCY REQUIREMENTS

During each clinical internship, the syllabus will list the competency requirements that are to be completed for that semester. Students must complete competencies to ensure they have mastered the procedure or technique. All competencies will be completed on Trajecsys®.

GENDER SPECIFIC POLICIES

LIFESPAN & CLINICAL AFFILIATE POLICY

All students, both male and female will be permitted to perform scans/observations that involve gender specific studies (i.e., breast, gynecologic and scrotal examinations). However, to assure an environment that is conducive to patient privacy, patients will have the right to refuse a student's participation.

DIDACTIC INFORMATION

COURSE OUTLINE

FALL I

MEDI 203 Introduction to Medical Imaging
MEDI 205 Medical Terminology in Medical Imaging
MEDI 255 Patient Care in Medical Imaging
MEDI 308 Professional Behavior in Medical Imaging
DMS 305 Foundations of DMS

SPRING I

DMS 306 Sonographic Physics and Instrumentation
DMS 308 Abdominal and Small Parts Sonography
DMS 309 DMS Clinical Education I

SUMMER I

DMS 312 Sonographic Women's Imaging
DMS 313 DMS Clinical Education II

FALL II

DMS 431 Obstetrical Sonography
DMS 432 Vascular Sonography
DMS 433 DMS Clinical Education III
MEDI 450 Topics Introduction to Research

SPRING II

DMS 434 Advanced Procedures in DMS
DMS 435 DMS Registry Review

COURSE DESCRIPTIONS

MEDI 203 INTRODUCTION TO MEDICAL IMAGING (3 CREDITS)

This course gives the student an overview of the medical imaging profession, the responsibilities of an imaging professional as well as the role of a medical imaging student.

MEDI 205 MEDICAL TERMINOLOGY IN MEDICAL IMAGING (1 CREDIT)

This course is designed to provide the student with knowledge of basic medical terminology utilized in medical imaging.

MEDI 255 PATIENT CARE IN MEDICAL IMAGING (3 CREDITS)

This course provides the student the patient care skills needed for safe practice in the healthcare environment. Included is a lab exercise.

MEDI 308 PROFESSIONAL BEHAVIOR IN MEDICAL IMAGING (3 CREDITS)

This course is designed to educate students on essential verbal and nonverbal communication skills necessary for the healthcare environment. Students will learn through role play and scenarios.

DMS 305 FOUNDATIONS OF DIAGNOSTIC MEDICAL SONOGRAPHY (3 CREDITS)

This course covers an introduction to diagnostic medical sonography including history, terminology, ergonomics, and equipment. The student receives hands-on orientation and education to the equipment, instrumentation, and scanning techniques.

DMS 308 SONOGRAPHIC PHYSICS AND INSTRUMENTATION (4 CREDITS)

This course gives the student the foundation and principles of ultrasound physics and instrumentation. Course topics include preparation for the ARDMS SPI examination.

SONOGRAPHIC PRINCIPLES AND INSTRUMENTATION REQUIREMENT

The student is required to attempt the Principles and Instrumentation Registry examination as offered by the ARDMS before the start of the Spring 2 semester. It is not required that the student successfully pass the examination. An attempt must be made and documented to the Program Director prior to the first day of the Spring 2 semester. If an attempt is not made, the student will not be allowed to continue in the DMS. Exam fee is \$225 (at print).

DMS 306 ABDOMEN & SMALL PARTS SONOGRAPHY (5 CREDITS)

This course educates the student on sonographic anatomy, procedures, and pathology of the abdominal cavity. Students will also be educated on the sonographic anatomy, procedures, and pathology of small part organs, including but not limited to the thyroid and scrotum. A lab component gives the student hands-on, supervised experience in the examinations mentioned above.

DMS 309 CLINICAL PRACTICE I (3 CREDITS)

This course introduces the student to the clinical environment of DMS with emphasis on departmental procedures, ergonomics, and patient care. The student will also be introduced to the practical experiences of observing and participating in sonographic examinations.

DMS 312 SONOGRAPHIC WOMEN'S IMAGING (4 CREDITS)

This course educates the student on sonographic anatomy, procedures, and pathology of the female pelvis. This course also covers sonographic anatomy, procedures, and pathology of the breast. A lab component gives the student hands-on, supervised experience.

DMS 330 CLINICAL PRACTICE II (5 CREDITS)

This course is a continuation to DMS 310. The student is able to gain the skills required to achieve clinical competencies in a variety of DMS examinations. The course allows for the practice of skills learned to become proficient in DMS examinations and patient care.

DMS 432 OBSTETRICAL SONOGRAPHY (3 CREDITS)

This course educates the student on sonographic anatomy, procedures, and pathology of the gravid female. First, second and third trimester development, complications and abnormalities will be conveyed. A lab component gives the student hands-on, supervised experience with scanning a gravid patient.

MEDI 450 TOPICS INTRODUCTION TO RESEARCH (1 CREDIT)

The goal of the Topics course is to provide students with skills and techniques to best utilize resources. Students will practice new writing, formatting, technology, collaboration, and public speaking skills. These resources are aimed to strengthen the student's progress and understanding of the MEDI 663 project.

DMS 410 CLINICAL PRACTICE III (5 CREDITS)

This course is a continuation of DMS 330. Focus is on routine DMS examinations in various clinical settings. Emphasis is placed on the student gaining confidence and performing routine examinations with minimal intervention.

DMS 431 VASCULAR SONOGRAPHY (4 CREDITS)

This course educates the student on sonographic anatomy, procedures, and pathology of the periphery cardiovascular system. A lab component gives the student hands-on, supervised experience in vascular examinations. After completion of this course, the student will be eligible to complete the Vascular Technology registry examination.

DMS 430 CLINICAL PRACTICE IV (4 CREDITS)

This course is a continuation of DMS. Focus is on advanced DMS examinations in various clinical settings. Emphasis is placed on the student gaining independence while functioning as a sonographer.

DMS 435 ADVANCED PROCEDURES (3 CREDITS)

This course educates the student on advanced applications and procedures that are utilized in sonography. These topics include echocardiography, elastography, and pediatric and musculoskeletal imaging. The purpose of this course is to provide a comprehensive education on post-graduate career-based options.

DMS 434 REGISTRY REVIEW (3 CREDITS)

Review to prepare students for national certification exams offered by the ARDMS.

ERGONOMICS

Education and training in proper body mechanics are incorporated in the DMS program. A program of preventative maintenance exercises will be introduced to successfully prevent work-related musculoskeletal

injuries. Students will be expected to practice healthy and appropriate scanning practices to maximize their clinical education and to preserve their occupational health.

This section has been designed to give you specific policies and procedures that govern the Magnetic Resonance Imaging Program.

ACCREDITATION

The Magnetic Resonance Imaging Program's current award is 8 years. General program accreditation information and the current accreditation award letter can be found here: [Rhode Island Hospital - JRCERT](#)

JOINT REVIEW COMMITTEE ON EDUCATION IN RADIOLOGIC TECHNOLOGY (JRCERT)

20 N. Wacker Drive, Suite 2850
Chicago, IL 60606-3182
Tel: (312)704-5300
Email: mail@jrcert.org

RESOLUTION OF COMPLAINTS

ALLEGATIONS OF NON-COMPLIANCE WITH JRCERT STANDARDS

Any student allegations relating to non-compliance of *JRCERT STANDARDS* will be forwarded to the JRCERT along with a program response. See DMS and NMT program sections for JRC-DMS and JRCNMT for contact information.

POLICY

Any student complaint regarding allegations of non-compliance of *JRCERT STANDARDS* (referenced at web site below) should be submitted to the Program Director in writing with supporting documentation. The Advisory Committee will review both complaint and supporting documentation. The Advisory Committee will respond within 5 business days unless additional time is needed to explore the allegation. A response in writing including the complaint and resolution will be complete within 30 days of submission of the original complaint.

The program will maintain a record of all complaints and their resolutions.

If the student is not satisfied with resolution, the student may:

- Request all correspondence from the complaint including resolution be forwarded to the JRCERT.
- Contact the JRCERT directly
 - Address: Joint Review Committee on Education in Radiologic Technology (JRCERT)
20 N. Wacker Drive
Suite 2850
Chicago, IL 60606-3182
 - Phone: 312-704-5300
 - Fax: 312-704-5304
 - Email: mail@jrcert.org
 - Website: www.jrcert.org

THE PROGRAM

The Rhode Island Hospital School of Medical Imaging MRI Program offers a 20-month full time day program designed to offer both clinical and didactic education in the art and science of Magnetic Resonance Imaging.

Upon successful completion of the program, the student is qualified to take the certifying examination offered by The American Registry of Radiologic Technologists.

PROGRAM GOALS & STUDENT LEARNING OUTCOMES

STUDENTS WILL BE CLINICALLY COMPETENT TO BECOME AN EFFECTIVE MEMBER OF THE MRI PROFESSION

- Students will demonstrate proficiency in routine MRI procedures
- Students will identify/apply safe MRI safety procedures.
- Students will provide effective patient care skills relating to the healthcare environment.
- Students will demonstrate proficiency in routine MRI procedures.

STUDENTS WILL HAVE EFFECTIVE COMMUNICATION SKILLS AS A MEMBER OF THE HEALTHCARE TEAM

- Students will demonstrate effective communication skills in the healthcare environment
- Students will demonstrate the ability to communicate through oral and written correspondence
- Students will demonstrate cultural sensitivity as it relates to healthcare

STUDENTS WILL APPLY EFFECTIVE CRITICAL THINKING SKILLS TO SOLVE PROBLEMS

- Students will adapt to non-routine patients
- Students will critique images for diagnostic quality

STUDENTS WILL BECOME A PROFESSIONAL MEMBER OF THE HEALTHCARE COMMUNITY

- Students will demonstrate professional skills in the healthcare environment
- Students will identify/build employment skills to enter the workforce upon graduation

PROGRAM EFFECTIVENESS DATA

- The program will recruit students who are prepared to meet the academic challenges of an MRI program.
- The program will fulfill the needs of the surrounding healthcare community.
- Graduates will be satisfied with the practical skills learned in the program.
- Employers will be satisfied with the practical skills graduates learned in the program.

CLINICAL INFORMATION

CLINICAL PRACTICUM

The required clinical practicum is referred to as competency-based education. The curriculum is structured based on defined objectives and competencies.

Clinical education is a planned and structured experience. The entire 20-month program is an inter-sequential integration of didactic and practical learning through classroom lectures, clinical laboratories, supplementary lectures, discussions, demonstrations, and supervised practice of standardized procedures. Clinical sites may be added or deleted at the discretion of the program director and faculty AND based on the JRCERT recognition process. Each student has access to clinical facilities that offer a balanced education sufficient in quantity and variety of MRI examinations as well as diversified modern equipment.

A standardized evaluation system is followed through documentation of a student's clinical progress for the purpose of providing developmental assistance in correcting weaknesses. All students are required to

demonstrate their competence in a variety of procedures and tasks. School faculty makes every effort to preserve educational cohesiveness without compromising the patient care responsibility of the Magnetic Resonance Imaging department.

The program faculty schedules each student to practice individually with registered MRI technologists to ensure close direct or indirect supervision and to permit the student to obtain more than ample experience in all practical phases of routine, specialized, and emergency clinical functions. A 1:1 student to magnet ratio is maintained at all times. Clinical schedules are posted by the Educational Coordinator. The program faculty has the right to make changes to the clinical assignment schedule if deemed necessary or advantageous. A student will never be expected to replace a registered technologist.

LABORATORY PRACTICUM

Rhode Island Hospital or affiliate clinical site – 6:00 am-8:00 am (see syllabus for dates)
Rhode Island Hospital School of Medical Imaging (see syllabus for dates/times/classroom)

CLINICAL HOURS

Clinical hours are based on an 8-hour workday and start times can vary based on clinical site and rotation. Schedules will be determined by the individual clinical site. Any changes to the schedule must be approved by the affiliate education supervisor and program director.

CLINICAL SCHEDULE

Students will be scheduled at a specific clinical site. The schedule will be given in advance so students can plan accordingly. The rotations will be equally distributed. Changes can be made by program faculty due to extenuating circumstances.

CLINICAL COMPETENCY REQUIREMENTS

During each clinical education course, the syllabus will list the competency requirements that are to be completed for that semester. Students must complete competencies to ensure they have mastered the procedure or technique. All competencies will be completed on Trajecsys®.

GENDER SPECIFIC POLICIES

LIFESPAN & CLINICAL AFFILIATE POLICY

All students, both male and female will be permitted to perform scans/observations that involve gender specific studies (i.e., breast, gynecologic and scrotal examinations). However, to assure an environment that is conducive to patient privacy, patients will have the right to refuse a student's participation.

CONTRAST MEDIA POLICY

Students are allowed to inject in peripheral (angio-cath) lines only.

DIDACTIC INFORMATION

COURSE OUTLINE

FALL I

MEDI 203 Introduction to Medical Imaging
MEDI 205 Medical Terminology in Medical Imaging
MEDI 255 Patient Care in Medical Imaging
MEDI 308 Professional Behavior in Medical Imaging
MEDI 309 Sectional Anatomy in Medical Imaging

SPRING I

MRI 302 Foundations of MRI
MRI 303 MRI Imaging Procedures I
MRI 304 MRI Physical Principles I
MRI 305 MRI Clinical Education I

SUMMER I

MRI 306 MRI Imaging Procedures II
MRI 307 MRI Clinical Education II

FALL II

MRI 431 MRI Physical Principles II
MRI 432 MRI Clinical Education III
MEDI 410 Pathology in Medical Imaging
MEDI 450 Topics Introduction to Research

SPRING II

MRI 433 Advanced Procedures in MRI
MRI 434 MRI Registry Review
MRI 435 MRI Clinical Education IV
MEDI 463 Senior Seminar in Medical Imaging

COURSE DESCRIPTIONS

MEDI 203 INTRODUCTION TO MEDICAL IMAGING (3 CREDITS)

This course gives the student an overview of the medical imaging profession, the responsibilities of an imaging professional as well as the role of a medical imaging student.

MEDI 205 MEDICAL TERMINOLOGY IN MEDICAL IMAGING (1 CREDIT)

This course is designed to provide the student with knowledge of basic medical terminology utilized in medical imaging.

MEDI 255 PATIENT CARE IN MEDICAL IMAGING (3 CREDITS)

This course provides the student the patient care skills needed for safe practice in the healthcare environment. Included is a lab exercise.

MEDI 308 PROFESSIONAL BEHAVIOR IN MEDICAL IMAGING (3 CREDITS)

This course is designed to educate students on essential verbal and nonverbal communication skills necessary for the healthcare environment. Students will learn through role play and scenarios.

MEDI 309 SECTIONAL ANATOMY IN MEDICAL IMAGING (3 CREDITS)

This course educates the student on basic anatomical structures of the human body through its relationship to surrounding structures on multiple imaging planes across various modalities.

MRI 302 FOUNDATIONS IN MRI (3 CREDITS)

This course covers basic MRI history, instrumentation, safety, positioning, equipment, coils, and mechanisms of image formation. Also included are basic pharmacology, venipuncture, and intravenous contrast media administration.

MRI 303 MRI PROCEDURES I (3 CREDITS)

This course is a study of procedures for imaging bone, muscle, vascular structures, organs and soft tissues, brain, spine, neck, and upper and lower extremity.

MRI 304 MRI PHYSICAL PRINCIPLES I (4 CREDITS)

This virtual, asynchronous course is a study of MR signal production, tissue characteristics, artifacts, quality assurance and image contrast. Also covered is magnetism, system components, magnets, RF systems, gradient systems, shim systems, and shielding.

MRI 305 MRI CLINICAL EDUCATION I (3 CREDITS)

This course provides an introduction to the clinical practice of MRI with emphasis on departmental procedures, MRI safety and patient care. It offers practical experience observing and applying imaging principles.

MRI 306 MRI PROCEDURES II (3 CREDITS)

This course is a continuation of MRI 303, discussing imaging procedures for the abdomen, pelvis, upper and lower extremities. There is a continued emphasis on imaging techniques, procedures and protocols.

MRI 307 MRI CLINICAL EDUCATION II (5 CREDITS)

Clinical education is designed to gain skills required to achieve clinical competencies in a variety of MRI procedures. It allows for practice of skills learned and to become proficient in MRI and patient care.

MRI 431 MRI PHYSICAL PRINCIPLES II (4 CREDITS)

This virtual, asynchronous course is a continuation of MRI 304 providing a comprehensive overview of: encoding, data collection, image formation, K-space, acquisitions, advanced pulse sequences, flow phenomenon, MRA, cardiac MRI, and quality assurance.

MEDI 410 PATHOLOGY IN MEDICAL IMAGING (3 CREDITS)

This course provides the student with knowledge of basic disease process most frequently diagnosed with medical imaging as well as recognizing the appearance of specific diseases through different modalities.

MEDI 450 TOPICS INTRODUCTION TO RESEARCH (1 CREDIT)

The goal of the Topics course is to provide students with skills and techniques to best utilize resources. Students will practice new writing, formatting, technology, collaboration, and public speaking skills. These resources are **aimed to strengthen the student's progress** and understanding of the MEDI 663 project.

MRI 432 MRI CLINICAL EDUCATION III (5 CREDITS)

This course continues the experiences learned in MRI 310 including routine MRI procedures in various clinical settings on all patient types. Emphasis is placed on gaining confidence and manipulating parameters.

MRI 433 ADVANCED PROCEDURES IN MRI (3 CREDITS)

This course is a study of advanced procedures including common pathologies and changes in anatomic structures, use of 3D imaging, cardiac, breast biopsies, and the importance of MR Safety Officers.

MRI 434 MRI REGISTRY REVIEW (3 CREDITS)

Students will review the specifications of the ARRT MRI examination, the guidelines for application, study strategies and content included in the exam.

MEDI 463 SENIOR SEMINAR IN MEDICAL IMAGING (3 CREDITS)

This course is intended for medical imaging majors in their final year. Students are required to complete a project (may include but not limited to poster, paper, abstract).

MRI 435 CLINICAL EDUCATION IV (4 CREDITS)

This course continues experiences learned in MRI 432, including advanced MRI procedures in various clinical settings on all patient types. This course prepares students to become independent functioning MRI technologists.

This section has been designed to give you specific policies and procedures that govern the Nuclear Medicine Technology Program.

ACCREDITATION

JOINT REVIEW COMMITTEE ON EDUCATIONAL PROGRAMS IN NUCLEAR MEDICINE TECHNOLOGY

820 W Danforth Rd, # B1
Edmond, OK 73003
Tel: (405) 285-0546
Fax: (405) 285-0579
Email: mail@jrcnmt.org

THE PROGRAM

Lifespan Rhode Island Hospital School of Medical Imaging offers a 20-month full time day program designed to offer both clinical and didactic education in nuclear medicine technology. Upon successful completion of the program, the student is qualified to take the certifying examinations offered by The American Registry of Radiologic Technology Certification Board and/or the Nuclear Medicine Technology Certification Board.

GOALS

- Students will be clinically competent to support the healthcare community.
- Students will communicate effectively in the healthcare community.
- Students will critically think to problem solve.
- Students will be a professional member of the healthcare community.

PROGRAM STUDENT LEARNING OUTCOMES

- Students will be able to select and implement appropriate exam protocols and scan parameters to produce quality nuclear medicine and therapeutic procedures.
- Students will demonstrate and apply appropriate radiation protection practices for patients, self, and other healthcare professionals.
- Students will provide appropriate patient care.
- Students will demonstrate effective communication when working with patients and healthcare professionals in a manner that respects diversity and promotes integrity.
- Students will exhibit the qualities necessary for continuous learning and professional growth.

CLINICAL INFORMATION

CLINICAL PRACTICUM

The required clinical practicum is referred to as competency-based education. The curriculum is structured based on defined objectives and competencies.

Clinical education is a planned and structured experience. The 20-month clinical program is an inter-sequential integration of didactic and practical learning through classroom lectures, clinical laboratories, supplementary lectures, discussions, demonstrations, and supervised practice of standardized procedures. The

clinical affiliates offer a balanced education sufficient in quantity and variety of nuclear medicine examinations as well as diversified modern equipment.

A standardized evaluation system is followed to document the student's clinical progress throughout the program. All students are required to demonstrate competence in a variety of procedures. School faculty makes every effort to preserve educational cohesiveness without compromising the patient care responsibilities of the department. The program faculty has the right to make changes to the clinical assignment schedule if deemed necessary or advantageous. A student will never be expected to replace a registered technologist.

Clinical sites may be added or deleted at the discretion of the program director and faculty and based on the JRCNMT recognition process.

CLINICAL HOURS

Clinical hours are based on an 8-hour workday and start times can vary based on clinical site and rotation. Schedules will be determined by the individual clinical site. Any changes to the schedule must be approved by the affiliate education supervisor and program director.

CLINICAL COMPETENCY REQUIREMENTS

During each clinical education course, the syllabus will list the competency requirements that are to be completed for that semester. Students must complete competencies to ensure they have mastered the procedure or technique. All competencies will be completed on Trajecsys®

CLINICAL SCHEDULE

Students will be scheduled at a specific clinical site. The schedule will be given in advance so students can plan accordingly. The rotations will be equally distributed. Changes can be made by program faculty due to extenuating circumstances.

CLINICAL SITE REQUIREMENTS

Clinical sites may require additional requirements (training, orientation, drug testing, etc...) for students to rotate at their clinical facility. It is the responsibility of the student to complete all necessary requirements of the clinical site.

CLINICAL SUPERVISION

Direct Supervision

- The certified nuclear medicine technologist (NMT) or registered nurse (RN) is present in the room during student performance of a procedure. The supervising technologist or nurse is fully responsible for the performance of the student assigned to him/her.
- Direct supervision is required:
 - During preparation and administration of radionuclides and radiopharmaceuticals (NMT)
 - During preparation and administration of pharmaceuticals (NMT)
 - During student performance of a competency exam (NMT or RN)
 - Until the student proves competent on a particular task (NMT or RN)
 - In situations when the student/technologist injecting the radiopharmaceutical is not the scanning student/technologist or was not involved in the patient preparation process, at handoff, a confirmatory check must be performed with the staff involved to ensure all contraindications have been reviewed and resolved, dosing is accurate, and the venous access point to the patient has been confirmed and labeled when appropriate.

Indirect Supervision

- The registered technologist is immediately available to assist students regardless of the level of student achievement. Immediately available is interpreted as the physical presence of the technologist adjacent to the room or location where the procedure is being performed.

RADIATION BADGE POLICY

It is the policy of the hospital and directed by the State and Federal regulatory agencies that students be monitored by means of a dosimetry badge for recording radiation dose levels. The Medical Physics/Radiation Safety department will provide two radiation badges (ring badge and body badge) for monitoring students. It is the student's responsibility to wear the radiation badges in the proper manner, protect it from damage, avoid losing it and turn it in on time. Failure to comply is a direct violation of policy as well as against State and Federal Laws.

- The student must wear their radiation badges during clinical rotations. No student will be allowed to remain in clinical without their radiation badges.
- The body badge must be worn at waist level and the finger badge can be worn on either hand with the label palm up.
- Radiation badges should be never left in an imaging room, hot lab or injection room.
- Radiation badges should not be worn if the student is having medical or dental radiographs.
- Any accidents with the badge or loss of the badge must be immediately reported to program faculty.
- Radiation badges will be read monthly and evaluated by the Radiation Safety Officer. If readings are reported that are outside of the predetermined threshold (ALARA) levels, the student's work habits will be investigated by the Radiation Safety Officer.
- Program faculty will review radiation exposure reports with students monthly. Students are required to initial reports.
- Radiation exposure reports will be kept on permanent file at the Medical Physics/Radiation Safety department.
- Any questions regarding exposures will be directed to program faculty. Radiation Safety Officer will be consulted as needed.

DIDACTIC INFORMATION

COURSE OUTLINE

FALL I

MEDI 203 Introduction to Medical Imaging
MEDI 205 Medical Terminology in Medical Imaging
MEDI 255 Patient Care in Medical Imaging
MEDI 308 Professional Behavior in Medical Imaging
MEDI 309 Sectional Anatomy in Medical Imaging

SPRING I

NMT 302 Foundations of NMT
NMT 303 Nuclear Medicine Procedures I
NMT 304 NMT Radiation Safety and Radiobiology
NMT 336 NMT Clinical Education I

SUMMER I

NMT 433 Radiopharmaceuticals in Nuclear Medicine
NMT 306 Nuclear Medicine Procedures II and Therapeutics
NMT 337 NMT Clinical Education II

FALL II

MEDI 450 Topics Introduction to Research
NMT 434 NMT Radiation Physics and Advanced Instrumentation
NMT 436 NMT Clinical Education III
MEDI 410 Pathology in Medical Imaging

SPRING II

NMT 435 NMT Registry Review
NMT 437 NMT Clinical Education IV
CTSC 300 Principles of Computed Tomography
CTSC 301 CT Physics and Radiation Protection

COURSE DESCRIPTIONS

MEDI 203 INTRODUCTION TO MEDICAL IMAGING (3 CREDITS)

This course gives the student an overview of the medical imaging profession, the responsibilities of an imaging professional as well as the role of a medical imaging student.

MEDI 205 MEDICAL TERMINOLOGY IN MEDICAL IMAGING (1 CREDIT)

This course is designed to provide the student with knowledge of basic medical terminology utilized in medical imaging.

MEDI 255 PATIENT CARE IN MEDICAL IMAGING (3 CREDITS)

This course provides the student the patient care skills needed for safe practice in the healthcare environment. Included is a lab exercise.

MEDI 309 SECTIONAL ANATOMY IN MEDICAL IMAGING (3 CREDITS)

This course educates the student on basic anatomical structures of the human body through its relationship to surrounding structures on multiple imaging planes across various modalities.

MEDI 308 PROFESSIONAL BEHAVIOR IN MEDICAL IMAGING (3 CREDITS)

This course is designed to educate students on essential verbal and nonverbal communication skills necessary for the healthcare environment. Students will learn through role play and scenarios.

MEDI 410 PATHOLOGY IN MEDICAL IMAGING (3 CREDITS)

This course provides the student with knowledge of basic disease process most frequently diagnosed with medical imaging as well as recognizing the appearance of specific diseases through different modalities.

NMT 302 FOUNDATIONS OF NUCLEAR MEDICINE (3 CREDITS)

This course covers a variety of Nuclear Medicine topics as a way to introduce the student to Nuclear Medicine Technology. Topics include math, clinical procedures, introduction to instrumentation and venipuncture.

NMT 303 NUCLEAR MEDICINE PROCEDURES I (3 CREDITS)

This course provides students with an understanding of nuclear medicine and molecular imaging procedures, including appropriate protocol selection, instrumentation, basic pathology, patient care skills, and interpretation of images.

NMT 304 RADIATION SAFETY AND RADIOBIOLOGY (3 CREDITS)

This course covers concepts and physical principles that govern radioactivity and interactions of ionizing radiation with matter, principles and applications of radiation safety and protection.

NMT 306 NUCLEAR MEDICINE PROCEDURES II AND THERAPEUTICS (3 CREDITS)

This course provides students with an understanding of nuclear medicine and molecular imaging procedures and therapeutics. Content covered includes protocol selection, instrumentation, pathology, patient care skills, and interpretation of images.

NMT 336 NMT CLINICAL EDUCATION 1 (3 CREDITS)

Introduce the clinical practice of nuclear medicine with an emphasis on departmental policies and procedures, radiation safety and patient care. Offers practical experience observing and applying health care principles.

NMT 337 NMT CLINICAL EDUCATION II (5 CREDITS)

This course gives students, under direct and indirect supervision, clinical skills through observation and participation in NMT procedures. Emphasis is placed on the integration of clinical and didactic education.

NMT 433 RADIOPHARMACEUTICALS IN NUCLEAR MEDICINE (3 CREDITS)

This course will define and discuss the theory and practice of radiopharmacy and radiochemistry, including preparation, calculation of doses, quality control, radiation safety and applicable regulations.

NMT 434 NMT PHYSICS AND ADVANCED INSTRUMENTATION (3 CREDITS)

The design, operation, and quality control of different types of detectors used in nuclear medicine will be covered. Concepts and physical principles that govern radioactivity and interactions of ionizing radiation with matter are also taught.

NMT 435 NMT REGISTRY REVIEW (3 CREDITS)

This course is designed to bridge the gap between the introductory lectures and the clinical setting. This course prepares students for the national certification exams.

MEDI 450 TOPICS INTRODUCTION TO RESEARCH (1 CREDIT)

The goal of the Topics course is to provide students with skills and techniques to best utilize resources. Students will practice new writing, formatting, technology, collaboration, and public speaking skills. These resources are aimed to strengthen the student's progress and understanding of the MEDI 663 project.

NMT 436 NMT CLINICAL EDUCATION III (5 CREDITS)

This course teaches students, under supervision, clinical skills through observation and participation in Nuclear Medicine procedures. Emphasis is placed on the integration of clinical and didactic education leading to proficiency.

MEDI 463 SENIOR SEMINAR IN MEDICAL IMAGING (3 CREDITS)

This course is intended for medical imaging majors in their final year. Students are required to complete a project (may include but not limited to poster, paper, abstract).

NMT 437 NMT CLINICAL EDUCATION IV (4 CREDITS)

This course teaches students, under supervision, clinical skills through observation and participation in Nuclear Medicine procedures. Emphasis is placed on the integration of clinical and didactic education leading to proficiency.

MEDI 463 SENIOR SEMINAR IN MEDICAL IMAGING (3 CREDITS)

This course is intended for medical imaging majors in their final year. Students are required to complete a project (may include but not limited to poster, paper, abstract).

CTSC 407 SECTIONAL ANATOMY AND PATHOLOGY

This course provides students with basic terminology necessary to study sectional anatomy related to anatomic position, directional terms, body planes, cavities, habitus, and regional divisions. It also provides the students with detailed anatomy by structure and relationship to other structures in several planes.

CTSC 300 PRINCIPLES OF COMPUTED TOMOGRAPHY

The course provides students with the basic principles of computed tomography imaging, basic concepts of patient care including pharmacology, drug administration and contrast media for safe injection techniques. Discussion also includes the basic procedures and pathologies associated with computed tomography.

CTSC 301 CT PHYSICS AND RADIATION PROTECTION

The course provides students with the CT imaging system components and their function. Focus will include image quality as it relates to spatial resolution, contrast resolution, noise, linearity, and uniformity. Radiation safety responsibilities to include minimizing dose while maintaining image quality, QC testing and CT artifacts will also be discussed.



Radiography

This section has been designed to give you specific policies and procedures that govern the Radiography Program.

ACCREDITATION:

The Radiography Program's current award is 8 years. General program accreditation information and the current accreditation award letter can be found here: [Rhode Island Hospital - JRCERT](#)

JOINT REVIEW COMMITTEE ON EDUCATION IN RADIOLOGIC TECHNOLOGY (JRCERT)

20 N. Wacker Drive, Suite 2850
Chicago, IL 60606-3182
Tel: (312)704-5300
Email: mail@jrcert.org

RESOLUTION OF COMPLAINTS

ALLEGATIONS OF NON-COMPLIANCE WITH JRCERT STANDARDS

Any student allegations relating to non-compliance of *JRCERT STANDARDS* will be forwarded to the JRCERT along with a program response. See DMS and NMT program sections for JRC-DMS and JRCNMT for contact information.

POLICY

Any student complaint regarding allegations of non-compliance of *JRCERT STANDARDS* (referenced at web site below) should be submitted to the Program Director in writing with supporting documentation. The Advisory Committee will review both complaint and supporting documentation. The Advisory Committee will respond within 5 business days unless additional time is needed to explore the allegation. A response in writing including the complaint and resolution will be complete within 30 days of submission of the original complaint.

The program will maintain a record of all complaints and their resolutions.

If the student is not satisfied with resolution, the student may:

- Request all correspondence from the complaint including resolution be forwarded to the JRCERT.
- Contact the JRCERT directly
 - Address: Joint Review Committee on Education in Radiologic Technology (JRCERT)
20 N. Wacker Drive
Suite 2850
Chicago, IL 60606-3182
 - Phone: 312-704-5300
 - Fax: 312-704-5304
 - Email: mail@jrcert.org
 - Website: www.jrcert.org

THE PROGRAM

The Rhode Island Hospital School of Medical Imaging – Radiography Program is a 20-month full-time program designed to offer both clinical and didactic education in the art and science of radiography. Upon successful

completion of the program, the student is qualified to take the certifying examination offered by the American Registry of Radiologic Technology Certification Board.

GOALS & STUDENT LEARNING OUTCOMES

STUDENTS WILL BE CLINICALLY COMPETENT TO BECOME AN EFFECTIVE MEMBER OF THE RADIOGRAPHY PROFESSION

- Students will demonstrate proficiency in diagnostic radiography examinations.
- Students will provide safe radiation practice skills relating to radiography.
- Students will provide effective patient care skills relating to the healthcare environment.
- Students will be able to calculate and apply accurate exposure factors for routine exams.

STUDENTS WILL HAVE EFFECTIVE COMMUNICATION SKILLS AS A MEMBER OF THE HEALTHCARE TEAM.

- Students will demonstrate effective communication skills in the healthcare environment.
- Students will demonstrate the ability to communicate through oral and written correspondence.
- Students will demonstrate cultural sensitivity as it relates to healthcare.

STUDENTS WILL APPLY EFFECTIVE CRITICAL THINKING SKILLS TO SOLVE PROBLEMS

- Students will adapt to non-routine patients.
- Students will distinguish between diagnostic and non-diagnostic images.

STUDENTS WILL BECOME A PROFESSIONAL MEMBER OF THE HEALTHCARE COMMUNITY

- Students will demonstrate professional skills in the healthcare environment.
- Students will be prepared with employment skills to enter the workforce upon graduation.

PROGRAM EFFECTIVENESS DATA

- The program will recruit students that are well prepared to meet the academic challenges of a Radiologic Technology program.
- The program will help fulfill the needs of the surrounding health care community.
- Graduates will be satisfied with the practical skills learned in the program.
- Employers will be satisfied with the graduate's **practical** skills learned in the program.

CLINICAL INFORMATION

CLINICAL PRACTICUM

The required clinical practicum is referred to as competency-based education. The curriculum is structured based on defined objectives and competencies.

Clinical education is a planned and structured experience. The 20-month training program is an inter-sequential integration of didactic and practical learning through classroom lectures, clinical laboratories, supplementary lectures, discussions, demonstrations, and supervised practice of standardized procedures. All clinical affiliates offer a balanced education sufficient in quantity and variety of general radiography examinations as well as diversified modern equipment. All students will have an opportunity to observe in interventional radiography, radiation therapy, nuclear medicine technology, computed tomography, diagnostic medical sonography, and magnetic resonance imaging.

A standardized evaluation system is followed to document the student's clinical progress throughout the program. All students are required to demonstrate competence in a variety of procedures and tasks. School faculty makes every effort to preserve educational cohesiveness without compromising the patient care

responsibilities of the department. The program faculty has the right to make changes to the clinical assignment schedule if deemed necessary or advantageous. A student will never be expected to replace the registered technologist.

CLINICAL HOURS

Clinical hours are based on an 8-hour workday and start times can vary based on clinical site and rotation. Schedules will be determined by the individual clinical site. Any changes to the schedule must be approved by the affiliate education supervisor and program director. Evening rotations will be required and assigned on an individual basis.

CLINICAL SCHEDULE

Students will be scheduled at a specific clinical site. The schedule will be given in advance so students can plan accordingly. The rotations will be equally distributed. Changes can be made by program faculty due to extenuating circumstances.

CLINICAL SUPERVISION

Program faculty schedules each student to practice individually with a certified radiologic technologist (RT) to ensure direct or indirect supervision.

Direct Supervision

- An RT is present in the x-ray room during student performance of a procedure or task. The RT will assess patient condition in relation to student knowledge and assist as needed throughout the exam. Direct supervision is required:
 - Until the student proves competent on a particular procedure or task
 - During performance of a competency evaluation
 - During repeat images

Indirect Supervision

- An RT is immediately available to assist students regardless of the level of student achievement. Immediately available is interpreted as the physical presence of an RT adjacent to the x-ray room or location where the procedure or task is being performed.

CLINICAL COMPETENCY REQUIREMENTS

During each clinical education course, the syllabus will list the competency requirements that are to be completed for that semester. Students must complete competencies to ensure they have mastered the procedure or technique. All competencies will be completed on Trajecsys[®]

PROCEDURE

- Student – Competency not completed on procedure – Direct Supervision: An RT is present in the x-ray room during student performance of a procedure. The RT will assess patient condition in relation to student knowledge and assist as needed throughout the exam.
- Student – Competency completed on procedure – Indirect Supervision: An RT is immediately available to assist students regardless of the level of student achievement. Immediately available is interpreted as the physical presence of an RT adjacent to the x-ray room or location where the procedure is being performed.

LEAD MARKERS

Identifying anatomical lead markers (right and left) are to be used on all images taken by the student. When a student is gaining competency on an evaluation only their own student issued markers will be permissible. The student is responsible for all images bearing their markers. Personal markers may not be loaned to other students or staff technologists. The student is responsible for replacing lost anatomic markers. Replacement markers must be purchased immediately upon loss of marker(s). Payment in the form of cash will be made to the school. See program director for cost of markers.

DIDACTIC INFORMATION

COURSE OUTLINE

FALL I

MEDI 203 Introduction to Medical Imaging
MEDI 205 Medical Terminology in Medical Imaging
MEDI 255 Patient Care in Medical Imaging
MEDI 308 Professional Behavior in Medical Imaging
RAD 331 Foundations of Radiography

SPRING I

RAD XXX Radiographic Technique & Pathological Imaging
RAD 332 Radiographic Procedures I
RAD 334 Principles of Radiography
RAD 336 RAD Clinical Education I

SUMMER I

RAD 333 Radiographic Procedures II
RAD 335 Radiation Physics
RAD 338 RAD Clinical Education II

FALL II

RAD 432 RAD Advanced Principles and Radiobiology
RAD 433 RAD Clinical Education III
MEDI 309 Sectional Anatomy in Medical Imaging
MEDI 450 Topics Introduction to Research

SPRING II

RAD 434 Advanced Procedures (BD, CT, MRI, Mammo, VIR)
RAD 435 RAD Registry Review
RAD 436 RAD Clinical Education IV
MEDI 463W Senior Seminar in Medical Imaging

COURSE DESCRIPTIONS

MEDI 203 INTRODUCTION TO MEDICAL IMAGING (3 CREDITS)

This course gives the student an overview of the medical imaging profession, the responsibilities of an imaging professional as well as the role of a medical imaging student.

MEDI 205 MEDICAL TERMINOLOGY IN MEDICAL IMAGING (1 CREDIT)

This course is designed to provide the student with knowledge of basic medical terminology utilized in medical imaging.

MEDI 255 PATIENT CARE IN MEDICAL IMAGING (3 CREDITS)

This course provides the student the patient care skills needed for safe practice in the healthcare environment. Included is a lab exercise.

MEDI 309 SECTIONAL ANATOMY IN MEDICAL IMAGING (3 CREDITS)

This course educates the student on basic anatomical structures of the human body through its relationship to surrounding structures on multiple imaging planes across various modalities.

MEDI 308 PROFESSIONAL BEHAVIOR IN MEDICAL IMAGING (3 CREDITS)

This course is designed to educate students on essential verbal and nonverbal communication skills necessary for the healthcare environment. Students will learn through role play and scenarios.

RAD 331 FOUNDATIONS IN RADIOGRAPHY (3 CREDITS)

This course introduces the student to the field of radiography and the clinical environment. Topics include terminology, positioning and imaging principles, equipment, and radiation safety. Includes a lab exercise.

RAD 333 RADIOGRAPHIC PROCEDURES I (3 CREDITS)

Students will learn routine positioning skills for chest, abdomen, and upper and lower extremities examinations. Laboratory exercises will be included for students to practice skills.

RAD 334 PRINCIPLES OF RADIOGRAPHY (4 CREDITS)

This course explores the concepts of science and technology in x-ray imaging, as well as practical aspects of imaging and exposure. Topics include x-ray production, image creation and image quality.

RAD 336 CLINICAL EDUCATION I (3 CREDITS)

This course introduces students to the clinical environment with emphasis on general radiography department procedures, radiation safety and patient care. It offers a practical experience observing and applying imaging principles.

RAD 333 RADIOGRAPHIC PROCEDURES II (3 CREDITS)

Students will learn routine positioning skills for spine, bony thorax, cranium, facial bones, sinuses and contrast examinations. Laboratory exercises will be included for students to practice skills.

RAD 335 RADIATION PHYSICS (3 CREDITS)

This course explores x-ray circuit components, methods of rectification, and construction of the x-ray tube. Topics include x-ray interactions, absorption of radiation and its effects upon tissue and tissue recovery.

RAD 338 CLINICAL EDUCATION II (5 CREDITS)

The student learns general radiography procedures, radiation safety and patient care with emphasis radiographer skills. It offers a practical experience applying imaging principles.

RAD 432 ADVANCED PRINCIPLES AND RADIOBIOLOGY (4 CREDITS)

Part I explores the concepts of creating and capturing the digital image. Part II includes radiobiology and radiation protection including radiation dose management for the patient, self and others.

RAD XXX RADIOGRAPHIC TECHNIQUE AND PATHOLOGICAL IMAGING (3 CREDITS)

This course provides the student with knowledge of basic disease process most frequently diagnosed with medical imaging as well as recognizing the appearance of specific diseases through different modalities.

MEDI 450 TOPICS INTRODUCTION TO RESEARCH (1 CREDIT)

The goal of the Topics course is to provide students with skills and techniques to best utilize resources. Students will practice new writing, formatting, technology, collaboration, and public speaking skills. These resources are aimed to strengthen the student's progress and understanding of the MEDI 663 project.

RAD 433 CLINICAL EDUCATION III (5 CREDITS)

The student performs routine radiography procedures in various clinical settings on all patient types with emphasis on exposure factors and gaining independence in the clinical environment.

RAD 434 ADVANCED PROCEDURES (3 CREDITS)

The student selects from one of the following modalities: bone density, computed tomography, magnetic resonance imaging, mammography, and vascular interventional radiography to expand their knowledge of that modality and explore potential career paths.

RAD 435 REGISTRY REVIEW (3 CREDITS)

This course is designed to prepare the student for the ARRT Radiography Exam. The student will complete practice tests to simulate the Registry exam.

MEDI 463W SENIOR SEMINAR IN MEDICAL IMAGING (3 CREDITS)

This course is intended for medical imaging majors in their final year. Students are required to complete a project (may include but not limited to poster, paper, abstract).

RAD 436 CLINICAL EDUCATION IV (4 CREDITS)

The student performs routine radiography procedures in various clinical settings on all patient types with emphasis on critical thinking and independence in the clinical environment.