



College of Nursing and Health Sciences

Department of Biomedical & Health Sciences

Medical Radiation Sciences

Radiation Therapy Program Student Handbook

Addendum to the College of Nursing and Health Sciences Handbook

Version 7.4

This version supersedes all previous versions

Table of Contents

University & Program Officials	3
University Accreditation	4
Radiation Therapy Program Accreditation	5
Radiation Therapy Program Mission Statement	7
Program Effectiveness Data and Assessment Plan.....	8
Clinical & Curriculum Advisory Committee	9
Radiation Therapy Curriculum Committee.....	10
Academic Policies	11
Student Concern Policy.....	12
Professional Behavior Policy.....	14
ARRT Standards of Ethics.....	15
ASRT Practice Standards for Medical Imaging and Radiation Therapy	16
Radiation Therapy Essential Functions.....	17
Cognitive Functions.....	17
Affective Functions	17
Communication Functions	17
Radiation Therapy Specific Psychomotor Functions.....	18
Clinical Accommodation Request.....	19
Student Resources.....	20
Clinical Practica Policy for RADT 2850, 2870, & 3850	21
Clinical Practica Policy for RADT 3870, 3880, & 3890	25
Trajecsys	30
Clinical Affiliate Responsibilities	31
Radiation Safety Policy	33
Radiation Protection	33
Radiation monitor badge	33
Radiation Exposure Limits.....	34
Radiation Safety Pregnancy Policy.....	35
Magnetic Resonance Imaging (MRI) Safety Policy	36
Professional Courses.....	37
Student Acknowledgement Signature Page	38
Declaration of Pregnancy Form.....	39
Magnetic Resonance Imaging (MRI) Student Acknowledgement Signature Page.....	40
MRI Observation Consent Form	41

University & Program Officials

Marlene Tromp, PhD
Professor & President, University of Vermont
344-353 Waterman Building, Burlington, VT 05405
president@uvm.edu | (802) 656-3186

Dain LaRoche, PhD
Professor & Dean, College of Nursing & Health Sciences
106 Carrigan Drive, 105 Rowell Building, Burlington, VT 05405
cnhs@uvm.edu | (802) 656-3858

Eyal Amiel, PhD
Professor & Chair, Department of Biomedical & Health Sciences
106 Carrigan Drive, 302 Rowell Building, Burlington, VT 05405
eyal.amiel@med.uvm.edu | (802) 656-3811

Wade Carson, MBA, RT(R)(T)(ARRT), FACHE
Clinical Professor & Director, Medical Radiation Sciences, Radiation Therapy Program
106 Carrigan Drive, 302 Rowell Building, Burlington, VT 05405
wade.carson@med.uvm.edu | (802) 656-0341

Damian Bolduc, MSEL, RT(T)(ARRT)
Clinical Assistant Professor & Clinical Coordinator, Medical Radiation Sciences, Radiation Therapy Program
106 Carrigan Drive, 302 Rowell Building, Burlington, VT 05405
damian.bolduc@med.uvm.edu | (802) 656-9065

Tom Kellogg
Laboratory Safety Program Manager & Radiation Safety Officer
106 Carrigan Drive, 004 Rowell Building, Burlington, VT 05405
thomas.Kellogg@uvm.edu | (802) 656-3283

University Accreditation

The University of Vermont is accredited by the *New England Commission of Higher Education*. The New England Commission of Higher Education ([NECHE](https://www.neche.org/)), established in 1885, is recognized as an institutional accreditor by the *U.S. Department of Education* (USDE) and serves as a reliable authority and independent voice on the quality of higher education. The Commission is a voluntary, peer-based, non-governmental membership association which promotes educational excellence and quality assurance to its over 200 member institutions both inside and outside the United States, all of which are degree granting post-secondary educational institutions offering higher education. NECHE, through its membership, has established *Standards for Accreditation* to ensure quality, innovation, and student success across the ever-evolving landscape of higher education.

<https://www.neche.org/>

Radiation Therapy Program Accreditation

The UVM Medical Radiation Sciences major with a concentration in Radiation Therapy Program is accredited by the *Joint Review Committee on Education in Radiologic Technology* (JRCERT). Programs that are accredited by the JRCERT are expected to adhere to the [Standards](#) for an accredited educational program in radiation therapy.

JRCERT Vision: To be the premier programmatic accreditor in medical imaging and therapeutic sciences that provides an equitable, integrity-driven accreditation process by empowering programs to achieve excellence in education.

Mission Statement: The Joint Review Committee on Education in Radiologic Technology (JRCERT) promotes excellence in education through the application of professional standards that endorse academic integrity and quality, as well as exemplary healthcare, through the accreditation of educational programs in radiography, radiation therapy, magnetic resonance, and medical dosimetry.

Commitment to Quality: The JRCERT is committed to an accreditation process that is fair and unbiased and believes high ethical principles cannot be compromised. The JRCERT ensures the integrity of the accreditation process, values the diversity of programs, and safeguards the education of students through the peer review process. The JRCERT remains steadfast in assuring that its core values are reflected throughout the accreditation process.

Scope: The Joint Review Committee on Education in Radiologic Technology (JRCERT) currently accredits educational programs in radiography, radiation therapy, magnetic resonance, and medical dosimetry that can be offered at the certificate, associate, baccalaureate, and master's degree levels in both traditional and distance education settings. These programs are housed in institutionally accredited, degree granting institutions and hospitals/medical centers that are either degree granting or award certificates. The geographic boundaries of JRCERT accreditation activities are within the United States and its territories, commonwealths, and possessions.

Core Values

Believes educational quality and integrity must not be compromised.

Exemplifies the highest ethical principles in our actions and decisions.

Advocates for quality healthcare through the application of established professional standards.

Respects and protects the rights of students.

Safeguards the education of students by ensuring that programs apply equitable policies and procedures.

Acknowledges that diversity, equity, and inclusion are essential to our organizational processes and interactions with our communities of interest.

Promotes innovative processes that lead to excellence in education.

Collaborates with other organizations to advance the profession.

Responds in a proactive and dynamic manner to the environment in which it operates.

The JRCERT is recognized by the *Council for Higher Education Accreditation* (CHEA). CHEA is a national advocate and institutional voice for self-regulation of academic quality through accreditation. CHEA is an association of 3,000 degree granting colleges and universities and

recognizes 60 institutional and programmatic accrediting organizations. For more information on CHEA, go to chea.org.

The JRCERT is the only agency recognized by the *United States Department of Education* (USDE) for the accreditation of traditional and distance delivery educational programs in radiography, radiation therapy, magnetic resonance, and medical dosimetry. For more information about the USDE, go to usde.gov.

Reference: <https://www.jrcert.org/about-jrcert/>

Radiation Therapy Program Mission Statement

The mission of the University of Vermont's Radiation Therapy program is to educate, train, and graduate professionally competent and ethical individuals committed to lifelong learning and who are prepared to meet current and future workplace challenges in healthcare.

Program Effectiveness Data and Assessment Plan

The Radiation Therapy Program assessment plan will evaluate problem-solving and critical thinking skills, effective written and verbal communication skills, and aim to achieve the highest professional and ethical standards. Within these goals, the assignment of program outcomes, measurement tools, benchmarks, and time frames, are associated with each goal. Specific to the Radiation Therapy Program, effectiveness data are evaluated and reported yearly to the Clinical & Curriculum Advisory Committee and the JRCERT to ensure program requirements are met.

The radiation therapy [program effectiveness data](#) which can be found on the [MRS website](#), include:

1. Credentialing Examination: the number of students who pass, on the first attempt, the American Registry of Radiologic Technologist (ARRT) certification examination within six months of graduation.
2. Job placement: graduates actively seeking employment in radiation therapy within twelve months of graduation
3. Program completion: the number of students who complete the program within the stated program length.

Student Learning Outcomes

Annually, the program will report on the student learning outcomes.

Goal one: Graduates will be clinically competent

- Students will demonstrate the delivery of quality patient care.
- Employers indicate that graduates were adequately prepared to perform as entry-level radiation therapists.

Goal two: Students will exhibit problem-solving and critical-thinking skills

- Students will demonstrate critical thinking skills.
- Students and graduates will demonstrate problem-solving skills.

Goal three: Students will communicate clearly and effectively with faculty, patients, and clinical staff:

- Students will demonstrate effective written and oral communication.
- Students will demonstrate clear and effective communication with patients.

Clinical & Curriculum Advisory Committee

Clinical & Curriculum Advisory Committee (CCAC): meets annually in the fall. The committee is composed of the Program Director, Clinical Coordinator, Clinical Preceptors, 3rd & 4th-year radiation therapy students, and the community of interest. The Advisory Committee reviews clinical and didactic curriculum content, evaluates student success and outcomes, and suggests improvements or changes to the program. Additionally, the Committee reviews the program's American Registry of Radiologic Technologists exam pass rates and the Joint Review Commission on Education in Radiologic Technology assessment plan per JRCERT standards.

Radiation Therapy Curriculum Committee

The committee comprises faculty within the Department of Biomedical and Health Sciences who are well-versed in the radiation therapy curriculum. The purpose of the committee is to discuss proposed curricular changes before departmental approval, review programmatic data, and discuss courses students are asking to count towards the major (course substitutions). The committee meets ad hoc.

Committee members:

Kenneth Allen, EdD, MBA
Clinical Associate Professor
Public Health Sciences & Medical Radiation Sciences Programs

Eyal Amiel, PhD
Professor
Biomedical and Clinical Sciences Program

Damian Bolduc, MSEL, RT(T)(ARRT)
Clinical Assistant Professor
Medical Radiation Sciences, Radiation Therapy Program

Wade Carson, MBA, RT(R)(T)(ARRT), FACHE
Clinical Professor
Medical Radiation Sciences, Radiation Therapy Program

Academic Policies

All students in the College of Nursing and Health Sciences (CNHS), regardless of their major, will follow the policies and processes outlined in the CNHS Undergraduate Handbook. The student will use the handbook in which the student matriculated at UVM (e.g., students who started at UVM in 2023 will use the 2023-2024 CNHS student handbook). Students are expected to be familiar with and understand the policies and procedures listed below, which can be found in the CNHS [handbook](#):

1. Academic Integrity
2. Federal Education Rights and Privacy Act (FERPA)
3. Email policy
4. Change of Address
5. Course evaluations
6. Student concern policy
7. Advising
8. Essential functions requirements (in addition to the requirements listed in this document)
 - a. Basic Requirements
 - b. Clinical Requirements
 - c. Clinical Mandatories
 - d. OSHA Bloodborne Pathogens Training
 - e. Criminal Background Check
 - f. Confidentiality of Client/Patient Information (HIPAA)
 - g. Additional Requirements
9. Academic Policies
 - a. Low scholarship policy
 - b. Academic standards
 - c. Academic trial
 - d. Discontinuation
 - e. Dismissal or Separation from the University
10. Determination and notice of Professional/Academic Discontinuance or Dismissal
 - a. Academic standards
 - b. Professional Standards and Essential Functions
 - c. Appeal
 - d. Process for Appeal
11. Student Status Change Guidelines
 - a. Withdrawal procedure
 - b. Leave of Absence Procedure
 - c. Out of Sequence Procedure
 - d. Cohort Assignment
 - e. Re-entry Policy
12. CNHS Course Transfer/Substitution Policies
 - a. Course transfer credit
 - b. Course substitution

Student Concern Policy

UVM students have certain rights and responsibilities, as outlined in the University of Vermont [Catalogue](#), College of Nursing and Health Sciences [handbook](#), and in this handbook. Students participating in clinical programs may have additional responsibilities associated with this program. A plan of study for each program is available online in the UVM Catalogue, on the CNHS website, or from the CNHS Office of Student Services. The academic standards policy for each CNHS undergraduate program is outlined in the CNHS handbook.

Student Concern Policy: There are many avenues available for students to discuss concerns or provide suggestions about different aspects of the undergraduate program. Here are the mechanisms provided to address concerns:

- Discuss your concern with the relevant party. Meeting directly with the person whose classroom, supervisory, or administrative policy or action is in question is always the best first step since it addresses the concern where it arises.
- Discuss your concern with your academic advisor. If discussions with the relevant party prove unsuccessful, or if you feel more comfortable speaking to your advisor, they will be happy to speak with you confidentially.
- Discuss your concern with your [Program Faculty](#). The Program Director and/or Clinical Coordinator will be glad to meet with you to discuss concerns that you may have about any aspect of your program, including clinical rotations. If you wish to discuss concerns that pertain to a specific faculty or staff member your decision about confidentiality will be respected.
- Discuss your concern with the Biomedical & Health Science's Department Chair (bhsc@uvm.edu or (802) 656-3811). The Department Chair will be glad to meet with you to discuss any concerns that you may have about any aspect of your program. If you wish to discuss concerns that pertain to a specific faculty or staff member your decision about confidentiality will be respected.
- Contact the Office of Student Services in the College of Nursing and Health Sciences (cnhs@uvm.edu or (802) 656-3858).
- You may send an email to the Assistant Dean of Student Services requesting that your concern be shared anonymously with the chair of your department, undergraduate program director, or both. (cnhs@uvm.edu)
- You may request a meeting with the Assistant Dean of Student Services (cnhs@uvm.edu or (802) 656-3858) to share your concerns and discuss how to resolve them. This step represents an action that goes beyond the Department and might be helpful if you are concerned about basic Department policy that may differ from the College guidelines, or if you believe the Department mechanism would not be sufficient.
- Complete the online student concern [form](#).
- Students with a grievance about a course grade should follow the instructions outlined in the UVM Grade Appeal [Policy](#).
- If all other avenues are unsuccessful in resolving or to come to a common ground, you may address your concern to the relevant accrediting body. This step can be achieved by contacting the organization and should be used only in cases where very serious concerns

are raised about important Departmental policies or the handling of a particular concern.
Joint Review Committee on Education in Radiologic Technology (JRCERT)
20 N. Wacker Drive, Suite 2850
Chicago, IL, 60606-3182
Phone: (312) 704-5304
Email: mail@jrcert.org

Grade Appeal: Students have the right to appeal a final course grade. The process to submit a grade appeal can be found [here](#) or you may contact the CNHS Office of Student Services who will assist you.

If you need to report student misconduct, please contact the UVM [Center for Student Conduct](#).

For all non-academic resources and reporting, please visit UVM's [Report A Concern](#) website.

Professional Behavior Policy

Professionalism is an attribute each student is expected to progressively develop as they become involved in professional courses. It requires the student to develop specific behaviors consistent with the profession of Radiation Therapy. These behaviors are part of the objectives for the clinical practicum courses and will be considered as part of the grade evaluation for the course. The following objectives describe behaviors characterizing a professional that each student will be evaluated on during her/his/their assigned clinical practica and as well as in University of Vermont courses and laboratories. To develop the attributes of a professional each student will:

- arrive at the clinic and all classes at the expected time. This includes ready to start clinical practica at the designated time.
- show an interest in the professional courses, consistently exhibiting propriety and good judgment in appearance, behavior, and speech.
- cooperate and offer to help others when her/his/their work is completed.
- demonstrate preparedness by timely and careful completion of required reading and writing assignments and maintain an organized and efficient work environment.
- consistently maintain confidentiality of patient information and release information only to authorized persons in accordance with the Health Insurance Portability and Accountability Act (HIPAA).
- behave with complete honesty and accept responsibility for your own mistakes instead of ignoring them or hiding them.
- advocate the importance of professional association.
- adhere to the dress code and observe clinical safety rules in all professional courses.
- keep the work area clean, safe, and well supplied.
- adapt to unexpected changes in scheduling and display good judgment in assigning priorities when faced with several tasks.
- treat all patients, staff members, and visitors respectfully always.
- accept constructive observations and feedback and heed instructions immediately.
- It is the student's responsibility to be fully aware of the policies and procedures of our educational partners where the student may be participating in clinical practica. Any violation of the policies and procedures of our educational partners and/or being deemed to create an unsafe environment for patients, staff, or fellow students; or failure to comply with the etiquette per the standards of the clinic or the CNHS is grounds for the student being uninvited from and returning to the affiliate location and may result in receiving a failing grade in the associated course.

ARRT Standards of Ethics

Students are required to follow and adhere to the American Registry of Radiologic Technologists (ARRT) Standards while in the radiation therapy program and as a practitioner in the profession of radiation therapy after graduation.

Students must read and abide by the [ARRT Standards of Ethics](#).

When applying for ARRT certification and registration, all applicants will be asked the following questions.

1. *Have you ever been charged with or convicted of a misdemeanor or felony? (This includes court convictions and military courts-martial.)*
2. *Has a regulatory authority or certification board (other than ARRT) ever done one or more of the following?*
 - a. *Denied, revoked, or suspended your professional license, permit, registration, or certification?*
 - b. *Placed you on probation (excluding ARRT Continuing Education probation), under a consent agreement, or consent order?*
 - c. *Allowed voluntary surrender of your professional license, permit, registration, or certification?*
 - d. *Subjected you to any conditions or disciplinary actions?*
3. *Have you ever been suspended, dismissed, or expelled from an educational program you attended to meet ARRT certification and registration requirements?*

If a student has convictions, criminal proceedings, or military court martial, please contact the Program Director immediately. Any criminal proceedings could prevent the student from meeting the requirements and taking the ARRT registry exam as she/he/they may not meet the requirements of the profession and therefore may not be eligible for the board registry/certification exam. It is better to be honest and think ahead rather than wait; honesty is your best defense and avenue to obtain eligibility.

ASRT Practice Standards for Medical Imaging and Radiation Therapy

Students are required to follow and adhere to the American Society for Radiologic Technologists (ASRT) [Practice Standards](#) for Medical Imaging and Radiation Therapy.

Radiation Therapy Essential Functions

The essential functions include additional non-academic requirements of our program, comprising the physical, emotional, and professional demands of the major and the profession. All radiation therapy (RADT) students are responsible for the essential functions outlined in this handbook. After reviewing the essential functions, the student will have a clearer understanding of the program's expectations. Throughout the student's professional studies, the ability to perform these functions will be evaluated. At a minimum, all RADT students are responsible for the essential functions listed below. If a student is unable to meet the essential functions, with or without reasonable accommodation in accordance with the ADA, the student may be dismissed from the program.

Cognitive Functions

The student must be able to thoroughly, efficiently, and reliably:

- Recall, interpret, extrapolate, analyze, synthesize, evaluate, and apply information from a variety of sources, including reading material, lecture, discussion, patient observation, examination, and evaluation/assessment in a timely manner.
- Possess and apply mathematical skills and determine what data are needed to solve problems.
- Possess and apply critical thinking and problem-solving skills and have the ability to resolve issues in a timely manner.
- Apply knowledge, skills, and values learned from coursework and life experiences to new situations.

Affective Functions

The student must be able to:

- Establish professional, trusting, empathetic relationships with patients and their families, clinical staff, and the community.
- Demonstrate respect and engage in non-judgmental interactions regardless of an individual's age, gender, race, socio-economic status, religion, lifestyle, and/or culture.
- Work independently and effectively in groups under time constraints.
- Meet externally established deadlines.
- Be an active and engaged learner in the classroom, lab, and clinical settings.
- Maintain alertness and concentration with cognitive, communication, and psychomotor tasks for as long as three hours at a time within the academic environment, and as long as ten hours at a time within the clinical environment.
- Identify sources of stress and develop effective coping behaviors.
- Recognize and respond appropriately to potentially hazardous situations.
- Prioritize requests and work concurrently on at least two different tasks.
- Project an image of professionalism, including appearance, attitude, dress, and confidence.
- Possess the psychological health required for full utilization of abilities.
- Recognize emergency situations and take appropriate action.

Communication Functions

The student must be able to:

- Attend selectively and in a controlled and respectful manner to various types of communication, including the spoken and written word and non-verbal communication.
- Communicate effectively, timely, and accurately with patients, all clinical staff, and the community.
- Relay information in oral and written form effectively, accurately, reliably, thoroughly, and intelligibly to individuals and groups, using the English language; and
- Read and write English proficiently (typed and hand-written).

Radiation Therapy Specific Psychomotor Functions

The student must be able to:

- Accurately and reliably inspect and observe the skin, facial expression, anatomical structures, posture, and movement of others.
- Examine and evaluate/assess blood pressure and lung and heart sounds.
- Accurately and reliably read equipment dials and monitors.
- Feel pulses, skin condition, muscle and tendon activity, and joint and limb movement.
- Negotiate level surfaces, ramps, and stairs to assist patients/classmates appropriately.
- Lead patients/classmates through a variety of examinations and treatments typically requiring sitting, standing, squatting, and kneeling on the floor or treatment table.
- Move from one surface level to another (e.g., floor to stand, stand to treatment table).
- React and effectively respond quickly to sudden or unexpected movements of patients/classmates.
- Manipulate dials, knobs, and other small to large parts and pieces of equipment.
- Maintain activity throughout an eight to ten-hour workday.
- Transport self/patients from one room to another, from one floor to another.
- Put on and take off patient clothing, including gowns.
- Independently put on and take off Personal Protective Equipment (PPE) (i.e., mask and gloves).
- Obtain and maintain Cardiopulmonary Resuscitation (CPR) Certification before and throughout all clinical practica rotations.
- Exhibit sufficient manual dexterity to manipulate small equipment such as syringes for intravenous injections; perform CPR; and treat acutely ill patients without disturbing sensitive monitoring instruments and lines.
- Manipulate another person's body in transfers, positioning, and other treatment or diagnostic techniques.
- Move dependent real or simulated patients, generating lifting forces of up to 75 pounds.
- Lift or carry up to 50 pounds.
- Reach above, reach out, and reach below to accomplish treatment and patient care.
- Work safely with potential chemical, radiologic, and biologic hazards using universal precautions.
- Accurately and reliably differentiate between red and green light.
- Independently navigate various levels of stairs or uneven surfaces throughout the day.

Clinical Accommodation Request

An accommodation request cannot be implemented in a clinical course until it has been reviewed and approved through an interactive process with the Office of Accessibility Services (OAS). Didactic (classroom) accommodation that has been approved through the Office of Accessibility Services (OAS) does not transfer to the clinical setting. For accommodation to be considered in the clinical practicum setting, the student must meet with an OAS coordinator and provide all pertinent and requested information. Once OAS has processed the request, OAS staff will meet with the Radiation Therapy Program Director to determine if the accommodation request is reasonable.

The request *must* be made at least 8 weeks prior to course registration (i.e. the clinical practicum “course” registration), which includes RADT 2850, RADT 2870, RADT 3850, RADT 3870, RADT 3880, and RADT 3890. The student may or may not be able to participate in any clinical course until the accommodation request has been reviewed, approved, or denied.

To contact the Office of Accessibility Services:

633 Main Street
A170 Living/Learning
Burlington, VT 05405

Phone: 802-656-7753

Email: access@uvm.edu

Website: <https://www.uvm.edu/accessibility-services>

Student Resources

Below are resources for student support at UVM. These resources are available to students who may be having difficulty meeting programmatic or academic expectations or simply feel they need additional help or resources.

Counseling and Psychiatry Services (CAPS): Support your mental health and learn how to thrive during your time at UVM. Your mental health is our top priority. Explore the options that are best for you in finding the support and connection you need. Call CAPS to schedule an appointment or ask questions about our services. Your first time seeing a CAPS counselor will be a consultation appointment.

Jacobs House
146 So. Williams St.
Phone: 802-656-3340

[Services | Center for Health and Wellbeing | The University of Vermont](#)

To submit a C.A.R.E. form, please use this [link](#).

Office of Accessibility Services (OAS): OAS provides accommodations to students with documented disabilities. Among the programs and services, OAS offers exam accommodations, meetings with Accessibility Specialists to receive advisement and advocacy around disability-related matters, ebooks, deaf and hard of hearing services, notetaking and adaptive technologies, and more.

A-170 Living Learning Center

Phone: 802-656-7753

Email: access@uvm.edu

<https://www.uvm.edu/accessibility-services>

Center for Academic Success: Offers subject area tutoring, supplemental instruction, learning skills, time management, and study skills.

244 Commons

Living/Learning Center

Phone: (802) 656-4075

Email: tutoring@uvm.edu

https://www.uvm.edu/academicsuccess/tutoring_center

Additional resources can be found on the Student and Community Relations [website](#) and the Center for Academic Success [website](#).

Center for Student Conduct: If a student is causing or posing a potential threat of harm in the clinical setting, please contact the UVM Radiation Therapy Program Director. Anyone can also submit concerns to the [center for student conduct](#).

If you find that radiation therapy might not be the right field for you for any reason, please talk with your Program Director or your Adviser. We would be happy to talk with you about the program or more about other majors that might fit your interests and/or skills.

Clinical Practica Policy for RADT 2850, 2870, & 3850

Third-year Student Responsibilities:

1. Clinical Mandatories and Health Clearance: students must complete all [requirements](#) and upload them in Castle Branch (2027 cohort) or Exxat (all other cohorts) by August 15th prior to the start of the fall semester to participate in the respective clinical practicum, which includes *Introduction to Radiation Therapy* (RADT 2850). Failure to complete the clinical mandatories and health clearance requirements by the required date may result in your inability to participate in the clinical practicum and didactic courses, which could result in dismissal from the Program.
2. Clinical Affiliate Mandatory Training: If there are additional mandatory training requirements from the University of Vermont Medical Center (UVMCMC) and/or the University of Vermont Cancer Center (UVMCC), they must be completed by the timeline given. Failure to complete all requirements will result in the inability to participate in any course or practicum that occurs at UVMCMC and/or UVMCC. Failure to do so will result in a delayed start to the course or dismissal from the Program.
3. Clinical affiliate site policies and procedures: students must comply with the clinical affiliate's policies and procedures, which include but are not limited to, HIPAA, cannabis use, drug use, alcohol use, and dress code.
4. Criminal Background Check: students may be required to undergo a satisfactory criminal background check before starting a clinical affiliation or experience. Students must carefully review and comply with all requirements of any site with which they wish to affiliate. All costs for criminal background checks will be borne by the student. Students are strongly encouraged to review the licensure requirements of any state in which they intend to seek licensure and to review all information available from a state's licensing agency regarding the effect of criminal convictions on licensure. State licensing agencies and clinical sites may have differing standards and a decision by CNHS to admit a student or to allow a student to remain in the program after reviewing a criminal history report does not necessarily mean that the student will be allowed to participate at a clinical site or to obtain licensure.
5. Drug screening: students may be required to undergo a satisfactory drug screening before starting a clinical affiliation or experience. Students must carefully review and comply with all requirements of any site with which they wish to affiliate. All costs for criminal background checks will be borne by the student. Failure of a drug screening will result in not meeting the requirements of the site, which may lead to denial of a clinical rotation and dismissal from the RADT program.
6. Confidentiality of Patient Information: for students engaged in academic and clinical education experiences, there are many opportunities to access client /patient information both verbally and through written and/or electronic records, on a need- to-know basis. This is termed a clinical privilege. Inherent in this privilege is a responsibility to maintain the confidentiality of this information and prevent disclosure of this information to others who do not need to know, nor should know, this information. HIPAA (The Health Insurance

Portability and Accountability Act) represents national legislation enacted to protect individuals' rights to privacy and confidentiality. CNHS students must complete training in HIPAA regulations and are required to pass a HIPAA exam. This training is provided by departments.

7. Additional Requirements: students are responsible for their own transportation to and from clinical sites and, where relevant, the costs of housing and food for clinical experiences. This includes clinical placements outside of the Burlington area and, including out-of-state.
8. Professional Liability Insurance: all students must carry professional liability insurance during clinical rotations. The cost of such insurance will be covered by the College.
9. Personal Health Insurance: students must have their own health insurance. The University is not responsible for medical costs resulting from injury during clinical rotation or any other curricular activity unless this injury is due to negligence by the University.
10. CPR Certification: students must complete and maintain Cardiopulmonary Resuscitation (CPR) training for Healthcare Professionals in all clinical practica. Training is available through the College. Students are responsible for any cost incurred.
 - a. Students must have current CPR certification to take the ARRT Registry/Certification examination.
11. Student Health & Safety:
 - a. The clinical affiliate site Preceptor and radiation therapy staff will ensure that all UVM students will be properly supervised, assuring that radiation therapy procedures are performed under the direct supervision of a qualified practitioner (JRCERT Standard 5.4). Direct supervision of a student by a qualified practitioner is defined as:
 - being physically present during the conduct of the procedure.
 - Supervision over closed-circuit monitor(s) is not acceptable.
 - reviewing the procedure about the student's achievement.
 - evaluating the condition of the patient in relation to the student's knowledge.
 - reviewing and approving the procedure and/or image
 - b. The clinical affiliate site Preceptor and radiation therapy staff will ensure that at no time are students ever placed in a position of performing clinical work as a replacement for a certified and licensed radiation therapist.
 - c. The clinical affiliate site will ensure that qualified radiation therapists working directly with a student will have sufficient experience and are competent in the procedures in which students are observing or participating in the delivery of patient care.
 - d. The clinical affiliate site will ensure that qualified radiation therapists completing student ARRT competencies and completing student evaluations have at least 1 year of full-time experience (or the equivalent).

- e. The clinical affiliate site Preceptor and qualified radiation therapy staff will ensure that a student will not be left alone with a patient; the student will always have direct supervision by a qualified practitioner (JRCERT Standard 5.4).
 - f. If a UVM radiation therapy student has not completed all required mandatory training set forth by the University or has not submitted the necessary documentation to the clinical affiliate site AND has not been cleared by the clinical affiliate site, the student cannot be on the clinical affiliate site's premises. Once all clearances have been approved and/or cleared, the student can then start the practicum. Any delayed start of the clinical practicum must be communicated to the UVM Radiation Therapy Program Clinical Coordinator and Program Director.
12. Fulfill all requirements set forth by the University, College, and Program requirements for continuation of progression in the radiation therapy program.
13. Dress Code: Students in the clinic are required to present themselves in a professional manner. Students are required to abide by the Program's dress code in addition to the clinical site's requirements. This includes, but is not limited to:
- a. wearing scrubs (UVM Green only), which can be purchased at Joann's Uniform in Colchester.
 - b. wear a white or black crew-neck t-shirt (short-sleeved or long-sleeved) under the scrub top. No other t-shirt type or color is allowed, including thumb hole shirts.
 - c. wear professional, clean, closed-toed shoes appropriate to the hospital setting.
 - d. long hair should be pulled back and secured when providing direct patient care. Hair will not come in contact with a patient, if it does, it needs to be secured such that it is not below shoulder length and will not fall out of the hair clip, etc.
 - e. facial hair must not interfere with personal protective equipment (PPE).
 - f. fingernails should be clean and neatly manicured.
 - Natural fingernails should be clean and short, with nails no longer than $\frac{1}{4}$ inch to ensure proper hand hygiene.
 - Nail polish may be worn providing it is not chipped.
 - Nail ornaments are not permitted.
 - Artificial nails (including acrylic, gel, shellac and extenders) cannot be worn by staff providing direct patient care or touch articles that come in contact with patients
 - g. jewelry must meet safety standards and not interfere with infection prevention. Because performing adequate hand hygiene is difficult if jewelry is worn, a limited number of rings should be worn when providing patient care. Necklaces should not be worn as they may be grabbed by patients or get caught in equipment.
 - h. piercings must be secured such that they will not fall out
 - i. colognes, perfumes, scented lotions, highly fragranced shampoos and

conditioners cannot be used due to allergies and reactions they may cause.

Failure to abide by the clinical site's dress code policy and the policies herein may result in dismissal from the clinical site for the day (see attendance). If a student is unable to abide these requirements, they may be dismissed from the clinical site and from the program.

14. Attendance:

- a. Clinical hours: Students will be in attendance per course requirements or according to the schedule set by the clinical instructor. Missed clinical hours are to be made up by the clinical practicum course. Students who are in the clinic for more than 4 hours per day will be offered a 15-minute break. If the student takes a break for longer than 15 minutes, the time over 15 minutes will need to be made up.
- b. Spring break: students will have the week of UVM spring break off unless hours need to be made up. If a student is making up clinical hours, they must obtain approval from the Program Director or the UVM Clinical Coordinator *and* a UVMMC clinical preceptor.
- c. Planned absence: All planned absences require a minimum of one week's notification and approval from the Clinical Coordinator or the Program Director.

15. Professional Behavior: Students will behave professionally following the guide established by the BHSC department and the clinical site. Failure to adhere to BHSC or the clinical practice site's professional expectations may be cause for termination from the clinical site. *Please refer to the Professional Behavior Policy in this handbook.*

16. Clinical Competencies: students must complete the required competencies set per the course syllabus. They must compile and submit all the completed clinical competencies in Trajecsys.

17. Access to medical imaging equipment: Due to the nature of our profession, it is common to use various imaging modalities to provide cancer care. However, under no circumstance will a student image themselves or anyone else unless it is under the direct supervision of a licensed professional to provide direct patient care. This includes, but is not limited to, ultrasound, magnetic resonance imaging (MRI), computed tomography (CT), or x-rays. If a student is found in violation of such act, they will be dismissed from the clinical site and the program immediately.

Clinical Practica Policy for RADT 3870, 3880, & 3890

Fourth-year Student Responsibilities:

1. Clinical Mandatories and Health Clearance: students must complete all [requirements](#) and upload them in Castle Branch (2027 cohort) or Exxat (all other cohorts) by August 15th prior to the start of the fall semester to participate in the respective clinical practicum, which includes *Introduction to Radiation Therapy* (RADT 2850). Failure to complete the clinical mandatories and health clearance requirements by the required date may result in your inability to participate in the clinical practicum and didactic courses, which could result in dismissal from the Program.
2. Clinical Affiliate Mandatory Training: If there are additional mandatory training requirements from the University of Vermont Medical Center (UVMMC) and/or the University of Vermont Cancer Center (UVMCC), they must be completed by the timeline given. Failure to complete all requirements will result in the inability to participate in any course or practicum that occurs at UVMMC and/or UVMCC. Failure to do so will result in a delayed start to the course or dismissal from the Program.
3. Clinical affiliate site policies and procedures: students must comply with the clinical affiliate's policies and procedures, which include but are not limited to, HIPAA, cannabis use, drug use, alcohol use, and dress code.
4. Criminal Background Check: students may be required to undergo a satisfactory criminal background check before starting a clinical affiliation or experience. Students must carefully review and comply with all requirements of any site with which they wish to affiliate. All costs for criminal background checks will be borne by the student. Students are strongly encouraged to review the licensure requirements of any state in which they intend to seek licensure and to review all information available from a state's licensing agency regarding the effect of criminal convictions on licensure. State licensing agencies and clinical sites may have differing standards and a decision by CNHS to admit a student or to allow a student to remain in the program after reviewing a criminal history report does not necessarily mean that the student will be allowed to participate at a clinical site or to obtain licensure.
5. Drug screening: students may be required to undergo a satisfactory drug screening before starting a clinical affiliation or experience. Students must carefully review and comply with all requirements of any site with which they wish to affiliate. All costs for criminal background checks will be borne by the student. Failure of a drug screening will result in not meeting the requirements of the site, which may lead to denial of a clinical rotation and dismissal from the RADT program.
6. Confidentiality of Patient Information: for students engaged in academic and clinical education experiences, there are many opportunities to access client /patient information both verbally and through written and/or electronic records, on a need- to-know basis. This is termed a clinical privilege. Inherent in this privilege is a responsibility to maintain the confidentiality of this information and prevent disclosure of this information to others who do not need to know, nor should know, this information.

HIPAA (The Health Insurance Portability and Accountability Act) represents national legislation enacted to protect individuals' rights to privacy and confidentiality. CNHS students must complete training in HIPAA regulations and are required to pass a HIPAA exam. This training is provided by departments.

7. Additional Requirements: students are responsible for their own transportation to and from clinical sites and, where relevant, the costs of housing and food for clinical experiences. This includes clinical placements outside of the Burlington area and, including out-of-state.
8. Professional Liability Insurance: all students must carry professional liability insurance during clinical rotations. The cost of such insurance will be covered by the College.
9. Personal Health Insurance: students must have their own health insurance. The University is not responsible for medical costs resulting from injury during clinical rotation or any other curricular activity unless this injury is due to negligence by the University.
10. CPR Certification: students must complete and maintain Cardiopulmonary Resuscitation (CPR) training for Healthcare Professionals in all clinical practica. Training is available through the College. Students are responsible for any cost incurred.
 - a. Students must have current CPR certification to take the ARRT Registry/Certification examination.
11. Student Health & Safety:
 - a. The clinical affiliate site Preceptor and radiation therapy staff will ensure that all UVM students will be properly supervised, assuring that radiation therapy procedures are performed under the direct supervision of a qualified practitioner (JRCERT Standard 5.4). Direct supervision of a student by a qualified practitioner is defined as:
 - being physically present during the conduct of the procedure.
 - Supervision over closed-circuit monitor(s) is not acceptable.
 - reviewing the procedure about the student's achievement.
 - evaluating the condition of the patient in relation to the student's knowledge.
 - reviewing and approving the procedure and/or image
 - b. The clinical affiliate site Preceptor and radiation therapy staff will ensure that at no time are students ever placed in a position of performing clinical work as a replacement for a certified and licensed radiation therapist.
 - c. The clinical affiliate site will ensure that qualified radiation therapists working directly with a student will have sufficient experience and are competent in the procedures in which students are observing or participating in the delivery of patient care.
 - d. The clinical affiliate site will ensure that qualified radiation therapists completing student ARRT competencies and completing student evaluations

have at least 1 year of full-time experience (or the equivalent).

- e. The clinical affiliate site Preceptor and qualified radiation therapy staff will ensure that a student will not be left alone with a patient; the student will always have direct supervision by a qualified practitioner (JRCERT Standard 5.4).
- f. If a UVM radiation therapy student has not completed all required mandatory training set forth by the University or has not submitted the necessary documentation to the clinical affiliate site AND has not been cleared by the clinical affiliate site, the student cannot be on the clinical affiliate site's premises. Once all clearances have been approved and/or cleared, the student can then start the practicum. Any delayed start of the clinical practicum must be communicated to the UVM Radiation Therapy Program Clinical Coordinator and Program Director.

12. Fulfill all requirements set forth by the University, College, and Program requirements for continuation of progression in the radiation therapy program.

13. Dress Code: Students in the clinic are required to present themselves in a professional manner. Students are required to abide by the Program's dress code in addition to the clinical site's requirements. This includes, but is not limited to:

- a. wearing scrubs (UVM Green only), which can be purchased at Joann's Uniform in Colchester.
- b. wear a white or black crew-neck t-shirt (short-sleeved or long-sleeved) under the scrub top. No other t-shirt type or color is allowed, including thumb hole shirts.
- c. wear professional, clean, closed-toed shoes appropriate to the hospital setting.
- d. long hair should be pulled back and secured when providing direct patient care. Hair will not come in contact with a patient, if it does, it needs to be secured such that it is not below shoulder length and will not fall out of the hair clip, etc.
- e. facial hair must not interfere with personal protective equipment (PPE).
- f. fingernails should be clean and neatly manicured.
 - Natural fingernails should be clean and short, with nails no longer than $\frac{1}{4}$ inch to ensure proper hand hygiene.
 - Nail polish may be worn providing it is not chipped.
 - Nail ornaments are not permitted.
 - Artificial nails (including acrylic, gel, shellac and extenders) cannot be worn by staff providing direct patient care or touch articles that come in contact with patients
- g. jewelry must meet safety standards and not interfere with infection prevention. Because performing adequate hand hygiene is difficult if jewelry is worn, a limited number of rings should be worn when providing patient

care. Necklaces should not be worn as they may be grabbed by patients or get caught in equipment.

- h. piercings must be secured such that they will not fall out
- i. colognes, perfumes, scented lotions, highly fragranced shampoos and conditioners cannot be used due to allergies and reactions they may cause.

Failure to abide by the clinical site's dress code policy and the policies herein may result in dismissal from the clinical site for the day (see attendance). If a student is unable to abide these requirements, they may be dismissed from the clinical site and from the program.

14. Attendance:

- a. Clinical hours: Students will be in attendance per course requirements or according to the schedule set by the clinical instructor. Missed clinical hours are to be made up by the clinical practicum course. Students who are in the clinic for more than 4 hours per day will be offered a 15-minute break. If the student takes a break for longer than 15 minutes, the time over 15 minutes will need to be made up.
- b. Spring break: students will have the week of UVM spring break off unless hours need to be made up. If a student is making up clinical hours, they must obtain approval from the Program Director or the UVM Clinical Coordinator *and* a UVMCC clinical preceptor.
- c. Planned absence: All planned absences require a minimum of one week's notification and approval from the Clinical Coordinator or the Program Director.

15. Professional Behavior: Students will behave professionally following the guide established by the BHSC department and the clinical site. Failure to adhere to BHSC or the clinical practice site's professional expectations may be cause for termination from the clinical site and dismissal from the program. *Please refer to the Professional Behavior Policy in this handbook.*

16. Clinical Competencies: students must complete the required competencies set per the course syllabus. They must compile and submit all the completed clinical competencies in Trajecsyst.

17. Online Reporting: Students must submit the minimum online reports as outlined in the syllabus. The mechanism for submitting the reports will also be outlined in the syllabus.

18. Clinical Competencies: Students must complete **all** required competencies as set by the American Registry of Radiologic Technologists (ARRT) and the program by the end of the spring semester. They must compile and submit all completed clinical competencies to the UVM Program Director or, in her/his/their absence, to the UVM Clinical Coordinator as outlined in the syllabus.

19. Clinical Affiliate Site Selection: Site selection for the RADT 3870, 3880, and 3890 clinical practica will be completed in the fall semester of the fourth year in the

program. The sites will be selected through an equitable, fair lottery system. Students may not request specific sites from either her/his/their classmates, the Clinical Coordinator, or the Program Director. Coercion, colluding, or manipulation of the site selection process is strictly prohibited. Failure to comply with this policy will result, at a minimum, in the student being placed last for a clinical affiliate site and/or placed before the [UVM Center for Student Conduct](#).

20. Assignments: The student is responsible for compiling and submitting all required documents and assignments by the due date outlined in the respective syllabus. Failure to submit assignments by the due date may impact the student's ability to graduate.
21. Access to medical imaging equipment: Due to the nature of our profession, it is common to use various imaging modalities to provide cancer care. However, under no circumstance will a student image themselves or anyone else unless it is under the direct supervision of a licensed professional to provide direct patient care. This includes, but is not limited to, ultrasound, magnetic resonance imaging (MRI), computed tomography (CT), or x-rays. If a student is found in violation of such act, they will be dismissed from the clinical site and the program immediately.

Trajecsys

Students: Students are required to purchase Trajecsys for their clinical documentation and timekeeping before the start of the clinical practicum II (RADT 2870). The cost of Trajecsys is approximately \$150.00 (one-time fee) and is the responsibility of the student. Students can register and pay for an account by using this [link](#).

Clinical Instructors and Clinical Preceptors: To gain access to Trajecsys, please [register](#) for an account. Once registered, the Program Director will complete the registration process and assign appropriate level of access.

Clinical Affiliate Responsibilities

1. Student Health & Safety:

- a. The clinical affiliate site Preceptor and radiation therapy staff will ensure that all UVM students will be properly supervised, assuring that radiation therapy procedures are performed under the direct supervision of a qualified practitioner ([JRCERT Standard 5.4](#)). Direct supervision of a student by a qualified practitioner is defined as:
 - being physically present during the conduct of the procedure.
-Supervision over closed-circuit monitor(s) is not acceptable.
 - reviewing the procedure in relation to the student's achievement.
 - evaluating the condition of the patient in relation to the student's knowledge.
 - reviewing and approving the procedure and/or image
- b. The clinical affiliate site Preceptor and radiation therapy staff will ensure that students are never placed in a position of performing clinical work as a replacement for a certified and licensed radiation therapist.
- c. The clinical affiliate site will ensure that qualified radiation therapists working directly with a student have sufficient experience and are competent in the procedures in which students are observing or participating in the delivery of patient care.
- d. The clinical affiliate site will ensure that radiation therapists completing student ARRT competencies and completing student evaluations have *at least 1 year of full-time experience (or the equivalent)*. *Any employee who has at least 1 year of experience will have completed the site's required training and onboarding and has completed the organization's probation period.*
- e. The clinical affiliate site leadership team will promptly notify the UVM Radiation Therapy Program Director if a Clinical Preceptor or Radiation Therapist has violated ARRT ethical standards, ASRT ethical standards, a therapist is under ethics review, by either the state licensing agency and/or the ARRT, is on probation, or has had his/her/their state license or ARRT registry revoked, or is not able to perform her/his/their job in accordance with the site's human resources policies and procedures. The Program Director will also be notified if a radiation therapist has not recertified or renewed their ARRT certification or renewed their state license immediately.
- f. If a UVM radiation therapy student has not completed all required mandatory training set forth by the University or has not submitted the required documentation to the clinical affiliate site AND has not been cleared by the clinical affiliate site, the student cannot be on the clinical affiliate site's premises. Once all clearances have been approved and/or cleared, the student can then start the practicum. Any delayed start of the clinical practicum must be communicated to the UVM Radiation Therapy Program Clinical Coordinator and Program Director.
- g. Access Policy: the affiliate site will allow students access to all areas of the Radiation Oncology department as necessary for their clinical experience. The student will have

access to an internet-connected computer to access her/his/their UVM e-mail and to submit any online clinical documents, time reporting, etc. required by the Program.

2. Schedule: the program will provide the clinical site with a student rotation schedule to fulfill all the requirements of the clinical practicum. A copy of the schedule will be sent to the respective clinical affiliate site and available to the respective student(s). Any significant changes in the rotation schedule will be communicated to the student, Program Director, and Clinical Coordinator.
3. Clinical Hours: students will not exceed an 8-hour day during any of the associated clinical courses in the Program (excluding lunch). The total hours per week cannot exceed 40 hours. While students are observing holidays, the total clinical hours cannot exceed 8 hours per day (except for lunch). Each clinic site will establish a regular schedule (i.e. 8 AM to 4:30 PM), which will be consistent for all students at that site, for the duration of the practicum with few exceptions. The exception is to complete monthly QA before or after normal clinical hours in which the student will flex their hours to not exceed 8 hours per day unless authorized by the Clinical Coordinator or in their absence, the Program Director. This will be limited to this component of the Program only. The established clinical hours will be sent to the Clinical Coordinator and the Program Director no later than the first day at the affiliate site.

Students are permitted to make up clinical hours during holidays in which the clinic is open or during UVM spring recess provided the clinical site is willing to host the student(s) on the approved dates. The dates must be approved by the site *and* the UVM Program Clinical Coordinator or in their absence, the Program Director before the make-up date(s).

4. Orientation: students will participate in the required Orientation at their assigned clinical site, and they will be provided with a structured orientation to their affiliate radiation oncology department. Documentation of the orientation will be provided to the Clinical Coordinator.
5. Student Evaluations: the Clinical Preceptor at each site will be responsible for overseeing evaluations for each student at the end of each clinical rotation. In clinics that do not have rotations (e.g. RRMCC), evaluations will be completed at least once per month. The Clinical Preceptor will ensure all rotation evaluations are completed in Trajecsys within 3 business days after the last day of the clinical practicum.
6. Clinical Competencies: the Clinical Preceptor will ensure all ARRT clinical competencies (i.e., simulation, treatment, physics, and dosimetry) are completed in Trajecsys within 3 business days after the last day of the clinical practicum.

Radiation Safety Policy

All students in the Radiation Therapy Program understand the need to adhere to and practice radiation protection policies in the clinical area in accordance with the ALARA principle.

ALARA: As defined in Title 10, Section 20.1003, of the *Code of Federal Regulations* ([10 CFR 20.1003](#)), ALARA is an acronym for "as low as (is) reasonably achievable," which means making every reasonable effort to maintain exposures to ionizing radiation as far below the dose limits as practical, consistent with the purpose for which the licensed activity is undertaken, taking into account the state of technology, the economics of improvements in relation to state of technology, the economics of improvements in relation to benefits to the public health and safety, and other societal and socioeconomic considerations, and in relation to utilization of nuclear energy and licensed materials in the public interest. For additional details, see [Dose Limits for Radiation Workers](#).

Reference: <https://www.nrc.gov/reading-rm/basic-ref/glossary/alara>

Radiation Protection

Students are required to always apply correct radiation protection practices; these principles will be taught during Radiation Science (BHSC 2400), Principles of Radiation Therapy (RADT 2520), Introduction to Clinical Practice (RADT 2850) and during other times deemed appropriate or necessary by the Program. At no time may a student participate in a procedure while using unsafe radiation protection practices. The student must always adhere to practices that reduce radiation exposure to patients, themselves, and other personnel. These include, but are not limited to, the following:

- a. The student will not operate equipment in labs on campus or the clinical setting without having a qualified and licensed instructor readily available for supervision.
- b. Students are never allowed to radiograph each other. Phantoms and positioning devices are provided for laboratory experiments and as teaching aids only.
- c. The student must always adhere to practices that will reduce radiation exposure to self and others to As Low As Reasonably Achievable. (ALARA)
- d. Any questionable practice must be reported to the UVM Radiation Therapy Program Director, the UVM Radiation Safety Officer, and the UVM Radiation Therapy Clinical Coordinator.

Radiation monitor badge

Each student is issued a whole-body radiation monitor badge (AKA badge) before her/his/their first clinical experience. The badges are distributed by the UVM Radiation Therapy Clinical Coordinator in RADT 2870, RADT 3850, RADT 3870, and RADT 3880, at the beginning of the semester and then replaced monthly for the semester. For RADT 3870, 3880, and 3890, badges are mailed to the clinical affiliate sites at the beginning of the semester and replaced monthly. The UVM Radiation Safety Officer and the RADT Program Director will review the reports monthly. Students will receive radiation reports within 30 days of receipt from the UVM Radiation Therapy Program Director, the UVM Radiation Therapy Clinical Coordinator, or the UVM designee.

Students are expected to:

1. appropriately wear a badge anytime the student is in the clinic. If the student does not have her/his/their badge she/he/they cannot remain in the clinic.
2. return the badge to the Clinical Coordinator at the end of each month. If badges are not returned, the student may be charged for the missing badge.
3. appropriately care for the badge while in her/his/their possession.

Radiation Exposure Limits

The program follows the regulatory statutes and guidelines of the appropriate State and the Nuclear Regulatory Commission (when required) in which the student is participating in her/his/their clinical practicum. In addition, the program follows the As Low As Reasonably Achievable (ALARA) principle by the maximum permissible total effective dose equivalent. If a student reaches ALARA level I, the student, and the Program Director (or designee) will be notified by the UVM Radiation Safety Officer (RSO). The student, RSO, and the Program Director (or designee) will meet and discuss what occurred to determine if the student received the dose or if the badge was left in simulation, the treatment vault, or some other situation. If necessary, the RSO and Program Director will discuss methods to reduce radiation exposure.

Dose Limits: The principle of ALARA (As Low As Reasonably Achievable) is the basis for the University's radiation safety program. ALARA obligates UVM to conduct the safety program in such a way as to minimize personnel radiation exposure.

Monthly limits should not exceed ALARA action levels of 10% of the NRC monthly limits. The monthly limits for whole body exposure are 42 millirem, 125 millirem to lens of the eye, 417 millirem to the skin, or if monthly ring badges exceed 417 millirem.

The RSO will take investigative action when any personnel radiation exposure reaches 10% of the maximum allowed by the regulations in 10 CFR 20, *Standard For Protections Against Radiation*.

Radiation Safety Pregnancy Policy

While all students in the Radiation Therapy Program understand the need to adhere to and practice radiation protection policies in the clinical area, this is especially important for female students who might be pregnant or become pregnant. Radiation exposure may be harmful to the developing fetus; therefore, the female student may choose to voluntarily declare her pregnancy. If a student chooses to not declare her pregnancy, only the radiation limits for adult radiation workers will be in effect, not the limits for the fetus.

Declaration of pregnancy must be made in writing and must include the approximate date of conception. The declared pregnant student will be advised as to the radiation and occupational hazards to her unborn child by the University of Vermont Radiation Safety Officer. The student will be monitored by University of Vermont officials throughout her pregnancy or completion of the program, whichever occurs first.

For the declared pregnant student, the NRC limits the dose to the embryo/fetus to 0.5 rem (5mSV) over the entire pregnancy. All efforts will be made to avoid substantial variation above a uniform monthly exposure rate (0.05 rem/month) (0.5 mSV/month). The student will be issued an additional badge (belly badge) that must be worn appropriately during clinical practica for the duration of pregnancy or completion of the program, whichever occurs first. Refer to the [NRC Regulatory Guide 8.13](#) for more information.

The declared pregnant student may continue in both didactic and clinical education courses. If the student feels that they cannot continue in the program, they may apply for a leave of absence and reenter the program after the birth of the child. Reentry will be at the beginning of the appropriate semester if space is available as determined by the radiation therapy Program Director.

A student may undeclare their pregnancy in writing at any time.

Magnetic Resonance Imaging (MRI) Safety Policy

In accordance with the American College of Radiology (ACR) MR safety [guidelines](#) and JRCERT Objective 5.3, all UVM radiation therapy students must complete MRI Safety Training in the *Introduction to Clinical Practice* course (RADT 2850). Therefore, MRI Safety Training will be completed during the fall semester, 3rd year of the program. The MRI training form is to be completed and returned to the UVM Radiation Therapy Program Clinical Coordinator or Program Director within 1 week of the training.

MRI uses strong magnetic fields to create a diagnostic image. The magnetic field that is generated is *always* on, therefore, continual safety precautions must be taken. The magnetic field is very sensitive to metal objects containing iron and other ferrous metals but can also interfere with or cause damage to implanted and/or medical devices.

Due to the potential risk of an adverse effect, including death, no student is permitted to observe, participate, or be in the vicinity beyond MRI Safety Zone I as a student in this Program until they have had proper screening, clearance, and verification of MRI training. If you would like to observe, participate, or be near an MRI machine, you **MUST** communicate directly with the RADT Program Director or Clinical Coordinator before initiating any MRI observation. The student must be cleared by the clinical site, in accordance with their policies, procedures, and screening protocols. Clearance will be performed by appropriately trained and educated MRI personnel in accordance with the clinical site.

If permission is granted and screening has been cleared, the RADT Program Director must be notified by the MRI personnel at the specific site where participation is requested that the student is cleared.

If a student's condition changes after screening for MRI observation, the student must notify the Program Director that there has been a change in medical condition. The student is not required to divulge any health information, rather this is a notification only.

Any additional observations will follow the process described above and the process will be repeated.

Professional Courses

Students in the radiation therapy program must earn a grade of “C” or better in all professional courses. The numerical grade of “C” is determined per course and is at the discretion of the course instructor. Professional courses are listed below. Refer to the [CNHS handbook](#), Department of Biomedical and Health Sciences for specific criteria for meeting academic standards.

Didactic courses

- BHSC 1340: Human Cell Biology
- BHSC 2400: Radiation Science
- BHSC 2410: Advanced Radiation Science
- BHSC 2750: Cross-Sectional Imaging
- BHSC 2970: Leadership and Management in Healthcare
- RADT 2520: Principles of Radiation Therapy
- RADT 2760: Clinical Radiation Oncology
- RADT 3150: CT Procedures
- RADT 3440: Essentials of Patient Care
- RADT 3700: Dosimetry Concepts
- RADT 3710: Dosimetry
- RADT 3770: Techniques in Radiation Therapy
- RADT 3780: Senior Seminar in Radiation Therapy
- RADT 3890: Quality Assurance & Treatment Planning

Students must meet the academic standards outlined in the [CNHS handbook](#), Department of Biomedical and Health Sciences to progress in the Program, meet graduation requirements, and eligibility requirements for the ARRT Registry Exam.

Clinical Practica

- RADT 2850: Introduction to Clinical Practice
- RADT 2870: Clinical Practicum II
- RADT 3850: Clinical Practicum III
- RADT 3870: Clinical Practicum IV
- RADT 3880: Final Practicum Overview

Students must progressively pass *all* the clinical practica to take the sequential clinical course to meet the academic requirements for graduation and eligibility for the ARRT Registry Exam. Refer to the [CNHS handbook](#), Department of Biomedical and Health Sciences for specific criteria for meeting academic standards.

Student Acknowledgement Signature Page

By my signing below, I acknowledge that I have received, read, understand, and agree to abide by the University of Vermont Radiation Therapy Program Student Handbook, ARRT Standards of Ethics, and the ASRT Radiation Therapy Code of Standards _____ (*initials*). I understand that if I do not abide by the policies and meet essential functions, expectations, program, college, and University requirements, I may be discontinued from the program and the major _____ (*initials*).

By signing below, I acknowledge that I have read, reflected, and can meet all the Essential Functions outlined in the Radiation Therapy Student Handbook. _____ (*initials*). If I am unsure whether I can meet all the Essential Functions, I have asked the appropriate personnel with any questions regarding the requirements. _____ (*initials*) I further acknowledge my understanding that academic accommodations do not transfer to the clinical setting. If I have a known disability that may require clinical accommodation, I have preemptively discussed my disability or concerns with the Office of Accessibility Services (OAS) _____ (*initials*). If, after discussing with the OAS it is appropriate to submit a request for reasonable accommodation, I have allowed at least eight (8) weeks prior to course registration for the designated clinical practicum for review. _____ (*initials*). I further understand that an accommodation request may or may not be reasonably accommodated _____ (*initials*).

I also understand that it may become necessary for program officials to revise the contents of the Student Handbook before I complete the program, in which case I agree to abide by the revisions and the most recent handbook _____ (*initials*).

Printed Name

Date of Birth

Signature

Date

Declaration of Pregnancy Form

I received a copy of the University of Vermont's Radiation Safety Pregnancy Policy, read it, and understand my rights and responsibilities.

Printed Name

Date of Birth

Signature

Date

Magnetic Resonance Imaging (MRI) Student Acknowledgement Signature Page

By initialing and signing below, I acknowledge that I have received, read, understand, and agree to abide by the University of Vermont Radiation Therapy (MRS) Program MRI observation policy _____ (*initials*). I agree to follow the process for requesting observation in an MRI department; failure to do so could have a grave impact (including death) on myself, patients, and staff. _____ (*initials*). I also understand that violating the observation policy may result in dismissal from the Program _____ (*initials*).

I understand that, although I have received training on MRI Safety, it does not constitute clearance for any observation related to MRI _____ (*initials*). To obtain clearance for MRI observation, I still need to contact the Radiation Therapy Program Director and complete the MRI Screening form _____ (*initials*). Once I have received clearance from the appropriate personnel, I can then observe an MRI procedure _____ (*initials*).

I also understand that it may become necessary for program officials to revise the contents of the Radiation Therapy Student Handbook before I complete the program, in which case I agree to abide by the revisions _____ (*initials*).

Printed Name

Student Date of Birth

Signature

Date

MRI Observation Consent Form

I have requested to observe an MRI procedure as a UVM Radiation Therapy (MRS) Program student. As a component of my clearance to observe, I agree to complete the MRI Safety Checklist faithfully. The Program, following the University of Vermont [Privacy Policy](#) and the [FERPA Rights Disclosure Policy](#), will only use this information for its intended purpose and will confidentially store the information.

Additionally, I understand that I may be asked for additional information and be required to obtain further MRI clearance, which may contain personal health information, in accordance with the clinical site's policies and procedures.

Printed Name

Date of Birth

Signature

Date

Version History

Document created:
December 2008

Amended:

January 2013
July 2015
August 2017
May 2018
August 2019
July 2022
August 2023
February 2024
September 2024
October 2025
May 2026