MEDICAL RADIATION SCIENCES B.S.

All students must meet the University Requirements (http://catalogue.uvm.edu/undergraduate/academicinfo/degreerequirements/).

All students must meet the College Requirements. (http://catalogue.uvm.edu/undergraduate/nursingandhealthsciences/#requirementstext)

Radiation Therapy students gain skills in radiation safety, patient care and cancer management and treatment using a Virtual Environment Radiotherapy Trainer (VERT) and by working side-by-side with radiation therapists in the UVM Medical Center on campus. A semester-long placement in a hospital setting with one of UVM's clinical affiliates completes the four-year program. Program graduates may acquire certification by sitting for an exam with the American Registry of Radiologic Technologists.

The B.S. in Medical Radiation Sciences offers a clinical track in Radiation Therapy.

MEDICAL RADIATION SCIENCES RADIATION THERAPY CONCENTRATION

Radiation therapy is the medical specialty that uses high-energy radiation (x-rays, gamma rays, electron beams, etc.) in the treatment of cancer. Radiation therapists are responsible for daily treatments, providing support for patients as they cope with their disease, and contributing as vital members of the medical team responsible for delivering the patient's treatment plan.

Students who already have an Associate in Science degree in Radiation Therapy may apply for transfer into the baccalaureate program on a space-available basis. Requirements for graduation include 121 credits, which may include approved transfer credits from an associate degree. Additional required courses will be based on prior courses completed in an associate degree program.

This four-year curriculum leading to the baccalaureate degree is accredited by the Joint Review Committee on Education in Radiologic Technology.

CLINICAL AFFILIATIONS

Albany Medical Center, Albany, NY
Central VT Hospital (National Life Cancer Treatment Center), Berlin, VT
Dartmouth-Hitchcock Medical Center, Hanover, NH
Eastern Maine Medical Center, Brewer, ME
Elliot Hospital, Manchester, NH
Medical Center at Londonderry, Londonderry, NH
University of Vermont Medical Center, Burlington, VT
Massachusetts General Hospital, Boston, MA
Rutland Regional Medical Center, Rutland, VT
Note: Clinical affiliations subject to change.

PLAN OF STUDY

A Model Curriculum in Medical Radiation Sciences/ Radiation Therapy Concentration

First Year		Credits
	Fall	Spring
PSYS 001 Intro to Psychological Science	3	
ENGS 001 FW:Written Expression	3	
CHEM 023 Outline of General Chemistry	4	
HLTH 003 Medical Terminology	2	
NH 050 App to Hlth: From Pers to Syst	1	
Elective, Diversity or Sustainability Course[2]	3	3
BHSC 034 Human Cell Biology[1]		4
MATH 019 QR: Fundamentals of Calculus I		3
NFS 043 Fundamentals of Nutrition		3
BHSC 098 Intro to Scientific Writing		3
Year Total:	16	16
Sophomore		**Credits**
	Fall	**Spring**
ANPS 019 Ugr Hum Anatomy & Physiology 1	4	
SOC 001 SU: Introduction to Sociology or SOC 019 D1: Race Relations in the US	3	
STAT 111 QR: Elements of Statistics or STAT 141 QR:Basic Statistical Methods 1	3	
Elective, Diversity or Sustainability Course[2]	3	
Elective Course	3	
ANPS 020 Ugr Hum Anatomy & Physiology 2		4
PHYS 013 Conceptual Physics		3
PHYS 096 Special Topics (lab)		1
BHSC 140 Radiation Science[1]		4
RADT 152 Prin of Radiation Therapy[1]		3
Year Total:	16	15
Junior		**Credits**
	Fall	**Spring**
RADT 270 Dosimetry Concepts[1]	3	
PATH 101 Intro to Human Disease	3	

BHSC 175 Cross Sectional Imaging[1]	3	
RADT 173 Intro to Clinical Practice[1]	3	
NH 120 Health Care Ethics	3	
RADT 275 Dosimetry[1]		3
RADT 176 Clinical Radiation Oncology[1]		3
RADT 215 CT Procedures[1]		3
RADT 174 Clinical Practicum II[1]		2
RADT 244 Essentials of Patient Care[1]		3
Year Total:	15	14
Senior		**Credits**
	Fall	**Spring**
BHSC 297 Leadership & Mgt in Hlth Care[1]	3	
RADT 277 Techniques Radiation Therapy[1]	4	
RADT 223 Clinical Practicum III[1]	3	
RADT 278 Senior Seminar in Rad Therapy[1]	2	
Elective Course[3]	3	
RADT 279 Final Clinical Pract Overview (taken in winter session)[1, 4]		1-4
RADT 274 Clincal Practicum IV[1]		11
RADT 280 Qual Assurance&Treatment Plan[1]		2
Year Total:	15	14-17
Total Credits in Sequence:		**121-124**

1 Professional course

2 Minimum of 121 semester credit hours, minimum GPA per program requirement, and University sustainability and diversity requirement are required for graduation.

3 Students must take at least 1, 3-credit elective course at the 100-level or above to meet program requirements. Students who are completing a double major, minor, certificate, or fulfilling requirements for graduate school should discuss requirements with their advisor.

4 Number of credits each spring semester will be determined by the RADT Program Director. The number of credits is based on the course start date.