

MEDICAL RADIATION SCIENCES B.S.

All students must meet the Degree and University Requirements.

All students must meet the Catamount Core Curriculum Requirements.

All students must meet the College Requirements.

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

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.

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.

Students in Biomedical and Health Sciences (BHSC) programs must maintain a cumulative grade point average of 2.3 or higher. Students with a cumulative grade point average below 2.3 will be placed on academic trial. First-year students must achieve a cumulative GPA of 2.3 or higher by the end of two subsequent semesters to be removed from trial. Students who fail to raise their cumulative GPA to 2.3 after the trial semesters may be discontinued from the program. Students beyond the first year must achieve a cumulative GPA of 2.3 or higher by the end of the subsequent semester to be removed from trial. Students who fail to raise their cumulative GPA to 2.3 after the trial semester may be discontinued from the program. Students who earn one grade below a C in any non-practicum, non-internship, professional/core course will be placed on "academic warning" and will receive a letter informing them of such. Professional or core courses are identified on each major curriculum sheet. In order to remain in good standing within the BHSC programs, students must also be consistently progressing in the program curriculum. Failure to follow the required sequence of courses outlined in the BHSC program of study for more than one semester is grounds for discontinuation from the major.

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
Any Psychological Science course	3	
ENGL 1001 Written Expression (WIL1) ²	3	
CHEM 1100 Outline: General Chem w/lab (N2) ²	4	
HLTH 1030 Medical Terminology	2	
NH 1500 App to Hlth: From Pers to Syst	1	
Elective with AH1 or AH2 Designation ²	3	
BHSC 1340 Human Cell Biology (N2) ²		4
MATH 1212 Fundamentals of Calculus I (or higher; MA) ²		3
NFS 1043 Fundamentals of Nutrition (N1) ²		3
BHSC 1980 Intro to Scientific Writing (WIL2) ²		3
ANTH 1100 Cultural Anthropology (D2:SU OR D2:SU Elective) ²		3
Year Total:	16	16
Sophomore		
	Fall	Spring
ANPS 1190 Ugr Hum Anatomy & Physiology 1	4	
SOC 1370 Race Relations in the US (D1:S1) ²	3	
STAT 1110 Elements of Statistics (QD) ² or STAT 1410 Basic Statistical Methods 1	3	

HSCI 1100 Introduction to Public Health (S1) ²	3	
Elective with AH1 or AH2 Designation ²	3	
ANPS 1200 Ugr Hum Anatomy & Physiology 2		4
Radiation Physics		3
BHSC 2400 Radiation Science ¹		4
RADT 2520 Prin of Radiation Therapy ¹		3
HSCI 2100 Fndns of Global Health (GC1; D2) ²		3
Year Total:	16	17

Junior	Credits	
	Fall	Spring
RADT 3700 Dosimetry Concepts ¹	3	
PATH 2010 Intro to Human Disease	3	
BHSC 2750 Cross Sectional Imaging ¹	3	
RADT 2850 Intro to Clinical Practice ¹	3	
NH 2200 Health Care Ethics	3	
RADT 3710 Dosimetry ¹		3
RADT 2760 Clinical Radiation Oncology ¹		3
RADT 3150 CT Procedures ¹		3
RADT 2870 Clinical Practicum II ¹		2
RADT 3440 Essentials of Patient Care ¹		3
Year Total:	15	14

Senior	Credits	
	Fall	Spring
BHSC 2970 Leadership & Mgt in Hlth Care ¹	3	
RADT 3770 Techniques Radiation Therapy ¹	4	
RADT 3850 Clinical Practicum III ¹	3	
RADT 3780 Senior Seminar in Rad Therapy ¹	2	
Elective Course ³	1	
RADT 3880 Final Clinical Pract Overview (taken in winter session) ¹		1
RADT 3870 Clinical Practicum IV ¹		11
RADT 3890 Qual Assurance&Treatment Plan ¹		2
Year Total:	13	14

Total Credits in Sequence:	121
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- ¹ Professional courses
- ² Courses designated to meet the University's Catamount Core general education requirements
- ³ 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.

This curriculum is designed to meet the University's Catamount Core Curriculum and MRS major, RADT concentration requirements for graduation, which includes a minimum of 121 semester credit hours and meeting the minimum GPA per program requirement.