RADIATION THERAPY (RADT)

Courses

RADT 152. *Prin of Radiation Therapy. 3 Credits.*
Introduction to the practice and theory of radiation therapy through lectures and discussions. Prerequisite: MLRS 140.

RADT 173. *Intro to Clinical Practice. 3 Credits.*
Introduction to the clinical environment through activities which include patient care issues, treatment unit operations and manipulations and direct patient case. Includes a clinical practicum. Pre-requisite: RADT 152.

RADT 174. *Clinical Practicum. 2 Credits.*
Students participate and observe in the Fletcher Allen Health Care Radiation Therapy Department. Radiation Therapy majors only. Prerequisite: RADT 173.

RADT 176. *Clinical Radiation Oncology. 3 Credits.*
The various types of neoplasms, methods of diagnosis of treatment, and elementary pathology are presented. Radiation Therapy majors only. Prerequisites: ANPS 019 - ANPS 020 and concurrent enrollment in RADT 174.

RADT 223. *Clin Pract: Radiation Therapy. 3 Credits.*
A continuation of RADT 174 emphasizing increasing clinical capabilities. Radiation Therapy majors only. Prerequisite: RADT 174.

RADT 244. *Patient Care Seminar. 3 Credits.*
This course presents all aspects of care associated with the treatment of cancer when patients receive Radiation Therapy. Prerequisites: RADT 152 and RADT 173. Co-requisites: RADT 174 and RADT 176; RADT majors only.

RADT 270. *Dosimetry Concepts. 3 Credits.*
This course introduces students to dosimetry, treatment planning and quality assurance concepts to prepare for clinical Dosimetry rotations. Pre/co-requisites: MLRS 140, MLRS 141, MLRS 175, MLRS 215; RADT 174, RADT 176.

RADT 274. *Clinical Practicum IV. 14 Credits.*
Students are assigned to approved clinical education sites to observe and increase their participation in the clinical environment. Evaluations based on defined clinical objectives and competencies to be completed by the clinical and University faculty. RADT majors only. Prerequisite: Successful completion of all previous required major courses and concurrent enrollment in RADT 280. Spring.

RADT 275. *Dosimetry. 3 Credits.*
Treatment plan verification using three-dimensional computer models, simulation data, and knowledge of treatment unit capabilities. Radiation Therapy majors only. Prerequisites: RADT Senior Standing.

RADT 277. *Techniques Radiation Therapy. 4 Credits.*
Instructs students in advanced theory and clinical application of radiotherapeutic techniques. Radiation Therapy majors only. Prerequisite: Concurrent enrollment in RADT 223 and RADT 275.

RADT 280. *Qual Assurance&Treatment Plan. 3 Credits.*
The integration of clinical oncology, radiobiology, dosimetry, and treatment planning, and how they affect patient outcomes. Co-requisite: RADT 274.