

# RTHR Radiation Therapy

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## **RTHR 3001 Radiation Therapy I**

**6 Credit Hours. 6 Lecture Hours. 0 Lab Hours.**

An introduction to the history and practice of radiation therapy with an emphasis on patient care, radiation protection, treatment preparation, and treatment delivery associated with the study of neoplastic disease and treatment interventions.

**Corequisite(s):** RDSC 3001.

## **RTHR 3002 Radiation Therapy II**

**6 Credit Hours. 5 Lecture Hours. 0 Lab Hours.**

Radiation production, nuclear transformations, and interactions with matter including radiation detectors, instrumentation, and radiation safety. Includes radiation therapy equipment operation and utilization for simulation and treatment along with an examination of quality management principles used to ensure safe and efficient treatment delivery. Regulatory agencies, equipment safety, testing procedures, and importance of documentation are highlighted.

**Prerequisite(s):** A minimum grade of "C" in RTHR 3001.

**Corequisite(s):** RDSC 3002.

## **RTHR 3002L Radiation Therapy II Lab**

**0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.**

## **RTHR 3003 Radiation Therapy III**

**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the principles used to plan and deliver radiation treatments. Dose absorption, dose and isodose distributions, contouring, hand calculations, brachytherapy, and emerging technologies are included.

**Prerequisite(s):** A minimum grade of "C" in RTHR 3002.

## **RTHR 3003L Radiation Therapy III Lab**

**0 Credit Hours. 0 Lecture Hours. 1 Lab Hour.**

## **RTHR 3100 Introduction to Radiation Therapy Clinical Education**

**1 Credit Hour. 1 Lecture Hour. 0-18 Lab Hours.**

Overview of the clinical setting, administrative structures, legal/compliance requirements, and required documentation.

**Prerequisite(s):** A minimum grade of "C" in RTHR 3001.

**Corequisite(s):** RTHR 3002.

## **RTHR 4101 Radiation Therapy Clinical Education I**

**5 Credit Hours. 0 Lecture Hours. 0-18 Lab Hours.**

A supervised clinical experience in the application and delivery of radiation therapy.

**Prerequisite(s):** A minimum grade of "C" in RTHR 3100 and DDTS 3001.

## **RTHR 4102 Radiation Therapy Clinical Education II**

**6 Credit Hours. 0 Lecture Hours. 0-18 Lab Hours.**

Supervised clinical experience in the application and delivery of radiation therapy.

**Prerequisite(s):** A minimum grade of "C" in RTHR 4101.

## **RTHR 4103 Radiation Therapy Clinical Education III**

**9 Credit Hours. 0 Lecture Hours. 0-18 Lab Hours.**

Capstone clinical education course in the application and delivery of radiation therapy.

**Prerequisite(s):** A minimum grade of "C" in RHR 4102.

## **RTHR 4200 Radiation Therapy Synthesis**

**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Discussion of theoretical concepts of radiation therapy as they relate to practice.

**Prerequisite(s):** A minimum grade of "C" in RTHR 3003 and RTHR 4102.