

Virginia Western Community College

ROC 110

Introduction to Radiation Oncology

Prerequisites

Admission to the Radiation Oncology Program.

Course Description

Presents an overview of the field of Radiation Oncology, focusing on medical and technical terminology, practices and procedures, treatment charts, roles of staff, clinical objectives, treatment modalities, and equipment. Other topics include patient care, psychosocial issues, ethics and legal considerations of patient management.

Semester Credits: 2

Lecture Hours: 2

Lab/Clinical/Internship Hours: 0

Required Materials

Textbook:

Principles and practice of Radiation Therapy. Washington, C. and Leaver, D. (2016). 4th Edition. Mosby Co. ISBN: 9780323287524

Other Required Materials:

Internet access

Course Outcomes

At the completion of this course, the student should be able to:

- Apply terminology pertaining to the medical and therapy professions
- Discuss ethical and legal considerations of patient management
- Relate the current methods of radiation cancer management procedures
- Identify and describe the various treatment modalities
- Describe specific equipment to include operation and functions
- Depict the role and responsibilities of each staff member

Topical Description

1	Ch 1	Cancer: An Overview
2	Ch 2	The Ethics and Legal Considerations of Cancer Management
3	Ch 3	Principles of pathology
4	Ch 5	Detection and Diagnosis
5	Ch 6	Medical Imaging
6	Ch 7	Treatment Delivery Equipment
7	Ch 8	Treatment Procedures
8	Ch 21	Simulator Design
9	Ch 22	Computed Tomography Simulation

Note to Instructors