

Virginia Western Community College
ROC 121
Radiation Oncology/Pathology II

Prerequisites

ROC 110, ROC 120

Course Description

A continuation of Radiation Oncology/Pathology I, which focuses on malignant pathology arising in each anatomical site, radiation treatment rationale, treatment techniques and radiobiological response.

Semester Credits: 3 Lecture Hours: 3 Lab/Clinical/Internship Hours: 0

Required Material:

Washington, C. and Leaver, D. (2020). *Principles and practice of radiation therapy* (5th ed.). St. Louis, MO: Mosby Co. ISBN 978-0-323-59695-4

Alcamo, I. and Krumhardt, B. (2004). *Anatomy and physiology the easy way* (3rd ed.). Barron's Educational Services. ISBN 13:978-0-7641-1979-8

Course Outcomes

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

- Apply medical terminology to anatomy discussed
- Use diagrams to label and identify anatomical structures
- For each cancer reviewed, identify etiology, presenting symptoms, pathology, staging, patterns of spread, and prognosis
- Identify radiation doses and describe the radiobiological responses associated with each anatomic site
- Discuss the rationale behind each treatment technique
- Demonstrate the basic treatment technique for each anatomical site

Topical Description

Unit I Gynecological Tumors

Unit II Breast Cancer

Unit III Central Nervous System Tumors

Unit IV Digestive System Tumors

ROC 121

Unit V Endocrine Tumors

Unit VI Pediatric Solid Tumors and Leukemia