ROC 121 Revised: Fall 2020

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. (2016). *Principles and practice of radiation therapy* (4th ed.). St. Louis, MO: Mosby Co. IBSN 978-0-323-28752-4

Alcamo, I. and Krumhardt, B. (2004). Anatomy and physiology the easy way (3rd ed.). Barron's Educational Services. IBSN 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

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Unit V Endocrine Tumors

Unit VI Pediatric Solid Tumors and Leukemia