



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

LAST REVIEW: 2008-2009

(i.e. 2003-2004)

NEXT REVIEW: 2013-2014

(i.e. 2008-2009)

STATUS: A

(A, I, D)

COURSE TITLE: Radiation Oncology

COMMON COURSE NUMBER: RAT2023

CREDIT HOURS: 3

CONTACT HOUR BREAKDOWN

(per 16 week term)

CLOCK HOURS:

(Voc. Course ONLY)

Lecture: 48

Lab:

Clinic:

Other:

PREREQUISITE(S): RAT 2021, RAT 2617, RAT 2814

COREQUISITE(S): RAT 2021, RAT 2617, RAT 2814

COURSE DESCRIPTION: A study of the fundamentals of clinical radiation oncology stressing the following: etiology, epidemiology, histopathology, symptoms, diagnosis, staging, prognosis and the therapeutic aim of malignant conditions.

General Education Requirements – Associate of Arts Degree (AA), meets Area(s):

Area

General Education Requirements – Associate in Science Degree (AS), meets Area(s):

Area

General Education Requirements – Associate in Applied Science Degree (AAS), meets Area(s):

Area

UNIT TITLES

1. General considerations of radiation oncology as they relate to patient management.
2. The aim of radiation therapy.
3. The concept of time dose relationship.
4. Etiology, epidemiology, clinical detection and diagnosis, staging and classification, treatment principle, diagnosis as they relate to various anatomical sites.

ASSESSMENT:

Please provide a brief description (250 characters maximum) that details how students will be assessed on the course outcomes.

Assignments, comprehensive/cumulative unit exams, comprehensive/cumulative final exams



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UNITS

Unit 1 General considerations of radiation oncology as they relate to patient management.

General Outcome:

1.0 The student shall: be able to discuss in general the use of radiation therapy in the treatment of malignant processes.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 1.1** Discuss basic oncology terms.
- 1.2** Compare malignant and benign tumors.
- 1.3** Define the TNM staging system.
- 1.4** Differentiate between tumor grading and staging.
- 1.5** Recognize the differences of medical terminology between malignant and benign cell types.



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UNITS

Unit 2 The aim of radiation therapy

General Outcome:

2.0 The student shall: be able to discuss the goals of radiation therapy.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 2.1 Discuss the treatment volume and its relationship to normal surrounding tissue.**
- 2.2 Recognize the general side effects of radiation therapy.**
- 2.3 Compare treatment given for cure and treatment for palliation.**



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UNITS

Unit 3 The concept of time dose relationship

General Outcome:

- 3.0 The student shall: be able to discuss the different time frames for various treatments.**

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 3.1 Define the standard time dose relationship.**
- 3.2 Discuss the need for different fractionation schemes.**



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UNITS

Unit 4 Etiology, epidemiology, clinical detection and diagnosis.

General Outcome:

- 4.0 The student shall: be able to discuss the reasons and expected outcomes regarding treatment for benign and malignant tumors.**

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 4.1 For the following sites discuss etiology, epidemiology, clinical detection and diagnosis, staging and classification, treatment principles and side effects, and prognosis:**
- A. Primary brain**
 - B. Skin**
 - C. Head and neck area**
 - D. Lung**
 - E. Digestive Tract**
 - F. Urinary Tract**
 - G. Endocrine System**
 - H. Circulatory System**
 - I. Reticulo-endothelial system**
 - J. Soft tissue tumors**
 - K. Pediatric tumors**
 - L. Metastatic sites**
 - M. Breast**
 - N. Gynecological sites**
 - O. Other**