

Common Course Outline

RTTT 129

Trends in Radiation Therapy

2 Credits

The Community College of Baltimore County

Description

Trends in Radiation Therapy provides the student additional exposure to the current trends in radiation therapy. Emphasis will be placed on the various equipment used in addition to the advantages and disadvantages of each modality.

2 credits; 2 lecture hours; 0 laboratory hours required.

Prerequisite: RTTT 113

Overall Course Objectives

Upon completion of this course the student will be able to:

1. describe the principle advantages and disadvantages of each area discussed;
2. describe the equipment needed for each application;
3. identify sites commonly treated using each modality;
4. discuss functionality of various immobilization devices; and
5. identify radioactive sources used in each application.

Major Topics

- I. IMRT
- II. SRS/SRT
- III. Brachytherapy
- IV. BAT and Ultrasound guided radiotherapy
- V. Respiratory Gating
- VI. Portal Imaging
- VII. Tomotherapy
- VIII. Cyberknife

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member, but will include the following:

1. Class participation
2. A minimum of at least two exams