Course Title: SCTC 5302 – Medical Dosimetry – Clinical Hours II

Prerequisites:
A grade of “B” or higher in Medical Dosimetry Clinical I

Textbook(s):

Course Description:
The purpose of the clinical assignment is to correlate didactic knowledge with practical skills. The students will be assigned to a clinical site at Fox Chase Cancer Center, or any other collaborative site. All students must attend a minimum number of clinical training hours. This clinical practical will allow the students to familiarize with safe clinical practices and policies and also professional behavior.

While in the clinical setting students will observe and work directly with a medical dosimetrist. They will be closely cooperating with the rest of the radiation treatment team, the radiation oncologist and the medical physicist. Emphasis is given on learning and understanding the role and responsibilities of a medical dosimetrist in the clinical setting.

In this second course, of the two course sequence, students continue to gain clinical experience at an affiliated clinical internship site. Emphasis is now given on more advanced treatment planning, Brachytherapy procedures, Proton therapy, advanced simulation studies and anatomical contour segmentation. In parallel students continue to learn the various concepts of clinical oncology specific to patient treatments. Students will continue following clinical rotations.

Course Objectives:
1. Demonstrate an understanding of the basic clinical concepts of medical dosimetry.
2. Demonstrate an understanding of theory and principles of operation of treatment planning computers.
3. Demonstrate an understanding of the different types of radiation production.
4. Understand and calculate radiation attenuation and decay.
5. Demonstrate an understanding of the different types of radiation detectors.
6. Demonstrate a basic understanding of treatment planning.
7. Demonstrate an understanding of the role of a medical dosimetrist.

GRADING SCALE:
90-100    A
80-89     B
70-79     C
<70       Failing