Course Title: SCTC 5201 - Medical Dosimetry I

Prerequisites:
Prerequisite: A grade of “B” or better in OTHR 5007 - Human Anatomy.

Textbook(s):

Course Goals:
In this course the students should become familiar with treatment planning principles for the most common cases of cancer patients. Techniques of simulation of treatment set-ups are reviewed and advanced methods of virtual simulation are explored. The course is accompanied by a laboratory giving students the opportunity to practice the material. The laboratory sections will be designed to accompany the corresponding lectures and will allow the students to gain hands on experience on treatment planning and simulation problems, while using the state of the art software currently used in clinical facilities.

Topics Covered:
1) Statistical terminology
2) Treatment Simulation
3) Dose calculation Methods
4) External Beam Radiation Therapy
5) Dose Calculation for External Beams
6) Treatment Planning: External Beam
7) Localization

Attendance Policy:
Class attendance is advised but is not mandatory, however class participation is important and can affect your final grade.

Exams:
The day of the exams is announced at the beginning of semester in the Class schedule and therefore make-ups will not be granted.
The absence from an exam will result in a grade of zero.
Exams will be closed-book and require students to demonstrate knowledge and skill.
The exam covers all material covered in the class prior to the exam. This includes material that was covered in previous exams.

**Homework:**
Late submissions and makeups are not permitted.

**Grading:**
The grades will be assigned as follows:
- 1st Midterm: 20%
- 2nd Midterm: 20%
- Final Exam: 30%
- Homework: 10%
- Labs: 20%

**Accommodations for Students with Disabilities:**
Any student who has a need for accommodation based on the impact of a documented disability, including special accommodations for access to technology resources and electronic instructional materials required for the course, should contact me privately to discuss the specific situation by the end of the second week of classes or as soon as practical. If you have not done so already, please contact Disability Resources and Services (DRS) at 215-204-1280 in 100 Ritter Annex to learn more about the resources available to you. I will work with DRS to coordinate reasonable accommodations for all students with documented disabilities. [http://www.temple.edu/studentaffairs/disability/accommodations/](http://www.temple.edu/studentaffairs/disability/accommodations/)

**Student and Faculty Academic Rights and Responsibilities:**
Freedom to teach and freedom to learn are inseparable facets of academic freedom. The University has a policy on Student and Faculty and Academic Rights and Responsibilities (Policy #03.70.02) which can be accessed through the following: [http://policies.temple.edu/PDF/99.pdf](http://policies.temple.edu/PDF/99.pdf)

**CARE Team in the Dean of Students Office:**
Any student who has difficulty affording groceries or accessing sufficient food to eat every day or who lacks a safe and stable place to live, and believes this may affect their performance in the course, is urged to contact the CARE Team in the Dean of Students Office for support. The CARE Team web address is [careteam.temple.edu](http://careteam.temple.edu). Furthermore, please notify me if you are comfortable in doing so. This will enable me to provide any other resources that I may possess.