Course Title: SCTC 5103 – Ionizing Radiation on living Systems

Prerequisites:
A grade of “B” or better in Physics of Medical Imaging I

Textbook(s):

Course Goals:
This course will include topics related to the study of the action of ionizing radiation on living things and more specifically the human body. Some of the topics covered are: Cellular response to radiation, Radiation carcinogenesis, Radiation effects on the developing embryo and fetus, Whole-body radiation effects. Additional emphasis is given in the effect of ionizing radiation in the context of radiation treatments and in particular on factors affecting the therapeutic ratio.

Topics Covered:
1) Radiation Biology
2) Radiation Protection

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.
Individual Assignment:
Students will be required to prepare a presentation of a subject that is related to the class and present it in class. The topic of the report should be approved by the instructor. A list of possible subject will be discussed in class.

Grading:
The grades will be assigned as follows:

1\textsuperscript{st} Midterm 20%
2\textsuperscript{nd} Midterm 20%
Final Exam 30%
Homework 15%
Presentation 15%

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/

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:


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. Furthermore, please notify me if you are comfortable in doing so. This will enable me to provide any other resources that I may possess.