RADI 7005  
Treatment Planning Practicum I  

Fall 2020

**CLASS DAYS and TIME:** Monday and Wednesday from 1 - 2:30 pm. The class starts on August 24th and ends on December 18th.

**CLASSROOM:** **Virtual Class on Microsoft Teams** CTRC Building – Radiation Oncology Clinic, Plaza Conference Room

**COURSE FACULTY:** Director: Dr. Pamela Myers and Co-Director: Dr. Neil Kirby

**OFFICE LOCATION and HOURS:** By Appt. Office G260D

**EMAIL:** myersp@uthscsa.edu

**TELEPHONE:** (210) 450-5866

READ THIS DOCUMENT CAREFULLY - YOU ARE RESPONSIBLE FOR ITS CONTENTS.

**COURSE DESCRIPTION AND OBJECTIVES**

This course presents an in-depth study of multidisciplinary treatment of the cancer patient from the clinician’s viewpoint. Students are required to master concepts specific to site-specific disease including: histopathology, etiologic and epidemiology factors, detection and diagnosis, tumor stage and grade, routes of metastases, dose fractionation and prognostic factors. This course is designed to approach each cancer type by anatomic system, addressing treatment factors with increasing degrees of complexity. Assigned exercises organized by treatment site and procedure type will be carried out under the direct supervision of an assigned advisor. These will be both simulated assignments based on anonymized real patient data.

**Semester credit hours** – 3 credit hours

By the end of this course, the student will:

- Gain didactic and hands-on knowledge with radiation therapy treatment planning techniques for various anatomical sites.
- Learn the components and functionality of treatment planning systems, the procedures for generating a plan and the quality assurance of treatment plans.

**COURSE ORGANIZATION**

The main teaching modalities used in this course include:

1) Conventional didactic lectures

2) Classroom discussion

3) Supplement reading material

**Materials** – See below
Computer Access – Many of the presentations are given in the common lecture format and are accompanied by Pdf converted PowerPoint slide files. You are responsible for all information included in the lecture materials. However, you should not assume that all testable lecture material is found only in the posted materials. That is, lectures may be expanded and enhanced during in-class presentations. So, take good notes because any information discussed in class is considered testable.

Reading Assignments – Required reading assignments are assigned throughout the rotations. Unless specifically noted by the instructor, anything in the required readings, whether emphasized in class or not, is considered testable on exams.

ATTENDANCE
In order to achieve the expected level of competency, students must be fully engaged. Therefore, attendance for every class session is expected. It is recognized that a student may occasionally arrive late to class due to unexpected traffic problems or inclement weather. However, chronic lateness is considered an unprofessional behavior that disrupts the learning environment for everyone else in the classroom.

TEXTBOOKS

GRADING POLICIES AND EXAMINATION PROCEDURES
Testable material comes from 3 main sources: Lecture presentation, reading assignments and in class discussion. Final letter grades will be based on three multiple choice exams. Each exam will be equally weighted (33%).

Late Arrival to Exams: Exams will be timed. If you arrive late to an exam, and are given permission to take the exam, you will not be given additional time to complete your test. If you arrive after another student has finished the exam and has departed the exam room, you will not be allowed to take the exam. If you miss an exam, you may be eligible for taking a make-up exam.

Make-up Examinations: A student who must miss a scheduled exam for a serious reason must request an excused absence from the Course Director. Acceptable “serious reasons” usually involve serious illness or injury to the student (doctor’s excuse may be required) or the student’s family member. Examples of unacceptable reasons include: Not prepared or incomplete studying, over-sleeping, hangover, heavy traffic or any travel delays, other appointments or scheduled professional or personal commitments.
If it is determined that missing an exam is justified, a make-up examination will be scheduled. The make-up exam will be given as soon as possible at a time designated by the Course Director. Any student who misses an exam and does not receive an excused absence will receive a grade of zero for that exam.

Grading System
Include a grading scale used to determine final grades, see example below

A = 90-100%  B = 80-89%  C = 70-79%  F = < 69%

REQUESTS FOR ACCOMMODATIONS FOR DISABILITIES
In accordance with policy 4.2.3, Request for Accommodation Under the ADA and the ADA Amendments Act of 2008 (ADAAA), any student requesting accommodation must submit the appropriate request for accommodation under the American with Disabilities Act (ADA, form 100) to his/her appropriate Associate Dean of their School and a copy to the ADA Coordinator. Additional information may be obtained at http://uthscsa.edu/eeo/request.asp.

ACADEMIC INTEGRITY AND PROFESSIONALISM
Any student who commits an act of academic dishonesty is subject to discipline as prescribed by the UT System Rules and Regulations of the Board of Regents. Academic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person,
taking an exam for another person, signing attendance sheets for another student, and any act designed to give unfair advantage to a student or the attempt to commit such an act. Additional information may be obtained at http://catalog.uthscsa.edu/generalinformation/generalacademicpolicies/academicdishonestypolicy/

TITLE IX AT UTHSCSA

Title IX Defined:
Title of the Education Amendments of 1972 is a federal law that prohibits sex discrimination in education. It reads “no person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance.”

University of Texas Health Science Center San Antonio’s Commitment:
University of Texas Health Science Center San Antonio (UTHSCSA) is committed to maintaining a learning environment that is free from discriminatory conduct based on gender. As required by Title IX, UTHSCSA does not discriminate on the basis of sex in its education programs and activities, and it encourages any student, faculty, or staff member who thinks that he or she has been subjected to sex discrimination, sexual harassment (including sexual violence) or sexual misconduct to immediately report the incident to the Title IX Director.

In an emergency, victims of sexual abuse should call 911. For non-emergencies, they may contact UPD at 210-567-2800. Additional information may be obtained at http://students.uthscsa.edu/titleix/

EMAIL POLICY

Every student is issued a University e-mail address and account at the time of enrollment. As a matter of University Policy, communications between students and faculty that occur using the student’s University e-mail address is considered official business. Therefore, students are expected to check their university email inboxes on a regular basis so that any announcements, instructions, or information regarding this course will be received in a timely way. Missed communications due to inadequate monitoring of incoming emails on the University’s email server will never be a valid excuse for unsatisfactory academic progress.

USE OF RECORDING DEVICES

Recording of lectures and other learning activities in this course by any means (e.g., video, audio, etc.) is only permitted if approved by the instructor or required for compliance with Americans with Disabilities Act (ADA).

ELECTRONIC DEVICES

Cell phones must be turned off during all class meetings and exams. Computers and electronic tablets are allowed only for participating in classroom activities (e.g., viewing slides presented in lecture or conference materials). No texting, tweeting, emailing, web-surfing, gaming, or any use of electronic devices that is not directly connected with classroom activities is permitted.
RADI 7005 Treatment Planning Techniques in Radiotherapy
FALL semester

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<thead>
<tr>
<th>Lectures</th>
<th>Topic</th>
<th>Faculty</th>
<th>Reading</th>
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<tbody>
<tr>
<td>Lecture 1</td>
<td>intro to Pinnacle</td>
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<td>Lecture 2</td>
<td>hand calculations and Radcalc</td>
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<td>Lecture 3</td>
<td>Pinnacle planning tools</td>
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<td>CT simulation and volume definition</td>
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<td>Plan evaluation criteria (DVH, TCP…)</td>
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<td>Lecture 9</td>
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To gain didactic and hands-on knowledge with radiation therapy treatment planning techniques for various anatomical sites. Students learn the components and functionality of treatment planning systems, the procedures for generating a plan and the quality assurance of treatment plans.

M,W 1:00-2:30pm