

**IMPORTANT:** This syllabus form should be submitted to OAA ([gsbs\\_academic\\_affairs@uth.tmc.edu](mailto:gsbs_academic_affairs@uth.tmc.edu)) a week before the start of each semester.

**NOTE to STUDENTS:** If you need any accommodations related to attending/enrolling in this course, please contact one of the Graduate School's 504 Coordinators, Cheryl Spitzenberger or Natalie Sirisaengtaksin. We ask that you notify GSBS in advance (preferably at least 3 days before the start of the semester) so we can make appropriate arrangements.

<p><b>Term and Year:</b></p> <p><b>Course Number and Course Title:</b></p> <p><b>Credit Hours:</b></p> <p><b>Meeting Location:</b></p> <p><b>Building/Room#:</b></p> <p><b>WebEx/Zoom Link:</b></p>	<p><b>Program Required Course:</b>    Yes    No</p> <p><b>Approval Code:</b>    Yes    No</p> <p>(If yes, the Course Director or the Course Designee will provide the approval code.)</p> <p><b>Audit Permitted:</b>    Yes    No</p> <p><b>Classes Begin:</b></p> <p><b>Classes End:</b></p> <p><b>Final Exam Week:</b></p>
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**Class Meeting Schedule**

Day	Time

<p><b>Course Director</b> Name and Degree: Title: Department: Institution:    <i>UTH</i>    <i>MDACC</i> Email Address: Contact Number:</p> <p><b>Course Co-Director/s:</b> (if any) Name and Degree: Title: Department: Institution:    <i>UTH</i>    <i>MDACC</i> Email Address: Contact Number:</p> <p><b>Office Hours:</b></p>	<p><b>Instructor/s</b> (Use additional page as needed)</p> <p>1. Name and Degree: Institution: Email Address :</p> <p>2. Name and Degree: Institution: Email Address :</p> <p>3. Name and Degree: Institution: Email Address:</p> <p>4. Name and Degree: Institution: Email Address:</p>
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<b>Teaching Assistant:</b> (if any)  Name and Email Address  Name and Email Address	<b>Cont. Instructor/s</b>  5. Name and Degree:  Institution:  Email Address:
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**Course description:**

**Textbook/Supplemental Reading Materials** (if any)

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**Course Objective/s:**  
Upon successful completion of this course, students will

***Specific Learning Objectives:***

- 1.
- 2.
- 3.
- 4.
- 5.

**Student responsibilities and expectations:** *(See example below. **NOTE:** Delete the written example once you input your information in this field.*



## Instructor List

<b>Instructor Name</b>	<b>Institution</b>	<b>E-mail</b>
Jared Ohrt, MS	UMDACC	johrt@mdanderson.org
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Jinzhong Yang, PhD	UMDACC	jyang4@mdanderson.org
Leonard Che Fru, PhD	UMDACC	lche@mdanderson.org
Christopher Peeler, PhD	UMDACC	crpeeler@mdanderson.org

Date	Time	Location	Topic	Lecturer
MON, 5/19/2024	1:30-3:00	FCT8.5013	Terminology and Introduction to Photon Dose Calculation Algorithms	Ohrt, Jared
WED, 5/21/2024	1:30-3:00	FCT8.5013	Dose Calculation Algorithms for Clinical Photon Beams I	Ohrt, Jared
MON, 5/26/2024			NO CLASS - MEMORIAL DAY - HOLIDAY	
WED, 5/28/2024	1:30-3:00	FCT8.5013	Dose Calculation Algorithms for Clinical Photon Beams II	Ohrt, Jared
FRI, 5/30/2024	1:30-3:00	FCT8.5013	Dose Calculation Algorithms for Clinical Photon/Electron Beams: Monte Carlo/Boltzman	Mirkovic, Dragan
MON, 6/2/2024	1:30-3:00	FCT8.5013	<b>QUIZ 1</b> // Intensity-Modulated Radiation Therapy	Che Fru, Leonard
WED, 6/4/2024	1:30-3:00	FCT8.5013	IGRT	Peeler, Christopher
WED, 6/11/2024	1:30-3:00	FCT8.5013	Image Registration and Segmentation	Brock, Kristy
FRI, 6/13/2024	1:30-3:00	FCT8.5013	IMRT Treatment Planning and Image Registration LAB	Peeler, Christopher / Che Fru, Leonard
MON, 6/16/2024	1:30-3:30	FCT8.5013	<b>QUIZ 2</b> // Motion Management and Surface Guided Systems	Martin, Rachael
WED, 6/18/2024	1:30-3:00	FCT8.5013	Stereotactic Body Radiation Therapy	Martin, Rachael
MON, 6/23/2024	1:30-3:00	FCT8.5013	Stereotactic Radiosurgery	Mackin, Dennis
WED, 6/25/2024	1:30-3:00	FCT8.5013	REVIEW	Peeler, Christopher / Che Fru, Leonard
FRI, 6/27/2024	1:30-3:00	FCT8.5013	<b>MIDTERM</b>	Peeler, Christopher / Che Fru, Leonard
MON, 6/30/2024	1:30-3:00	FCT8.5013	Proton I	Yang, Ming
WED, 7/2/2024	1:30-3:00	FCT8.5013	Proton II	Yang, Ming
MON, 7/7/2024	1:30-3:00	FCT8.5013	Proton III	Zhang, Xiaodong
WED, 7/9/2024	1:30-3:00	FCT8.5013	Proton Radiobiology and Heavy Ions	Peeler, Christopher
SAT, 7/12/2024	9:00-12:00	PTC1	PROTON DEMO/LAB <b>**TENTATIVE**</b>	Peeler, Christopher / Che Fru, Leonard
MON, 7/14/2024	1:30-3:00	FCT8.5013	<b>QUIZ 3</b> // Radiation Oncology Informatics	Balter, Peter
WED, 7/16/2024	1:30-3:00	FCT8.5013	FLASH	Schueler, Emil
MON, 7/21/2024	1:30-3:00	FCT8.5013	MR in RT I	Yang, Jinzhong
WED, 7/23/2024	1:30-3:00	FCT8.5013	MR in RT II	Yang, Jinzhong
MON, 7/28/2024			NO CLASS - AAPM Annual Conference	
WED, 7/30/2024			NO CLASS - AAPM Annual Conference	
MON, 8/4/2024	1:30-3:00	FCT8.5013	<b>QUIZ 4</b> // AI and Automation I	Netherton, Tucker
WED, 8/6/2024	1:30-3:00	FCT8.5013	AI and Automation II	Netherton, Tucker
FRI, 8/8/2024	1:30-3:00	FCT8.5013	REVIEW	Peeler, Christopher / Che Fru, Leonard
WED, 8/13/2024	1:30-3:00	FCT8.5013	<b>FINAL</b>	Peeler, Christopher / Che Fru, Leonard