

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

Day	Time

<p>Course Director Name and Degree: Title: Department: Institution: <i>UTH</i> <i>MDACC</i> Email Address: Contact Number:</p> <p>Course Co-Director/s: (if any) Name and Degree: Title: Department: Institution: <i>UTH</i> <i>MDACC</i> Email Address: Contact Number:</p> <p>Office Hours:</p>	<p>Instructor/s (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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Teaching Assistant: (if any) Name and Email Address Name and Email Address	Cont. Instructor/s 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:

Instructor List

Instructor Name	Institution	E-mail
Jared Ohrt, MS	UMDACC	johrt@mdanderson.org
Dragan Mirkovic, PhD	UMDACC	dmirkovi@mdanderson.org
Gizem Cifter, PhD	UMDACC	gcifter@mdanderson.org
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Joshua Niedzielski, PhD	UMDACC	jsniedzielski@mdanderson.org
Leonard Che Fru, PhD	UMDACC	lche@mdanderson.org
Christopher Peeler, PhD	UMDACC	crpeeler@mdanderson.org

Note: Meeting time and room may be adjusted based on room availability.

Date	Time	Location	Topic	Lecturer
MON, 5/20/2024	1:30-3:00	FCT8.5013	Terminology and Introduction to Photon Dose Calculation Algorithms	Ohrt, Jared
WED, 5/22/2024	1:30-3:00	FCT8.5013	Dose Calculation Algorithms for Clinical Photon Beams I	Ohrt, Jared
MON, 5/27/2024			NO CLASS - MEMORIAL DAY - HOLIDAY	
WED, 5/29/2024	1:30-3:00	FCT8.5013	Dose Calculation Algorithms for Clinical Photon Beams II	Ohrt, Jared
FRI, 5/31/2024	1:30-3:00	FCT8.5013	Dose Calculation Algorithms for Clinical Photon/Electron Beams: Monte Carlo/Boltzman	Mirkovic, Dragan
MON, 6/3/2024	1:30-3:00	FCT8.5013	Intensity-Modulated Radiation Therapy	Che Fru, Leonard
FRI, 6/5/2024	1:30-3:00	FCT8.5013	QUIZ 1 // IGRT	Cifter, Gizem
MON, 6/10/2024	1:30-3:00	FCT8.5013	Image Registration and Segmentation	Brock, Kristy
WED, 6/12/2024	1:30-3:00	FCT8.5013	Stereotactic Radiosurgery	Mackin, Dennis
MON, 6/17/2024	1:30-3:30	FCT8.5013	IMRT Treatment Planning and Image Registration DEMO/LAB	Peeler, Christopher / Che Fru, Leonard
WED, 6/19/2024			NO CLASS - JUNETEENTH - HOLIDAY	
FRI, 6/21/2024	1:30-3:00	FCT8.5013	Motion Management and Surface Guided Systems	Martin, Rachael
MON, 6/24/2024	1:30-3:00	FCT8.5013	Stereotactic Body Radiation Therapy	Martin, Rachael
WED, 6/26/2024	1:30-3:00	FCT8.5013	REVIEW	Peeler, Christopher / Che Fru, Leonard
FRI, 6/28/2024	1:30-3:00	FCT8.5013	MIDTERM	Peeler, Christopher / Che Fru, Leonard
MON, 7/1/2024	1:30-3:00	FCT8.5013	Proton I	Yang, Ming
WED, 7/3/2024	1:30-3:00	FCT8.5013	Proton II	Yang, Ming
MON, 7/8/2024	1:30-3:00	FCT8.5013	Proton III	Zhang, Xiaodong
WED, 7/10/2024	1:30-3:00	FCT8.5013	Proton/Heavy Ions	Peeler, Christopher
SAT, 7/13/2024	9:00-12:00	PTC1	PROTON DEMO/LAB	Peeler, Christopher / Che Fru, Leonard
MON, 7/15/2024	1:30-3:00	FCT8.5013	Radiation Oncology Informatics	Balter, Peter
WED, 7/17/2024	1:30-3:00	FCT8.5013	QUIZ 2 // FLASH	Schueler, Emil
MON, 7/22/2024			NO CLASS - AAPM Annual Conference	
WED, 7/24/2024			NO CLASS - AAPM Annual Conference	
MON, 7/29/2024	1:30-3:00	FCT8.5013	AI and Automation I	Netherton, Tucker
WED, 7/31/2024	1:30-3:00	FCT8.5013	AI and Automation II	Netherton, Tucker
MON, 8/5/2024	1:30-3:00	FCT8.5013	MR in RT I	Yang, Jinzhong
WED, 8/7/2024	1:30-3:00	FCT8.5013	MR in RT II	Yang, Jinzhong
FRI, 8/9/2024	1:30-3:00	FCT8.5013	Biologically Related Modeling and Treatment Planning	Niedzielski, Joshua
MON, 8/12/2024	1:30-3:00	FCT8.5013	REVIEW	Peeler, Christopher / Che Fru, Leonard
WED, 8/14/2024	1:30-3:00	FCT8.5013	FINAL	Peeler, Christopher / Che Fru, Leonard