

**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>      <b>Yes</b>      <b>No</b></p> <p><b>Approval Code:</b>      <b>Yes</b>      <b>No</b></p> <p>(If yes, the Course Director or the Course Designee will provide the approval code.)</p> <p><b>Audit Permitted:</b>      <b>Yes</b>      <b>No</b></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.

**Student responsibilities and expectations:**



## Instructor List

<b>Instructor Name</b>	<b>Institution</b>	<b>E-mail</b>
Jared Ohrt, MS	UTMDACC	johrt@mdanderson.org
Dragan Mirkovic, PhD	UTMDACC	dmirkovi@mdanderson.org
Leonard Che Fru, PhD	UTMDACC	lche@mdanderson.org
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Emil Schueler, PhD	UTMDACC	eschueler@mdanderson.org
Shane Krafft, PhD	UTMDACC	spkrafft@mdanderson.org
Christopher Peeler, PhD	UTMDACC	crpeeler@mdanderson.org

<b>Date</b>	<b>Topic</b>	<b>Lecturer</b>
	5/15/2023 Terminology and Introduction to Photon Dose Calculation Algorithms	Ohrt, Jared
	5/17/2023 Dose Calculation Algorithms for Clinical Photon Beams I	Ohrt, Jared
	5/22/2023 Dose Calculation Algorithms for Clinical Photon Beams II	Ohrt, Jared
	5/24/2023 Dose Calculation Algorithms for Clinical Photon/Electron Beams: Monte Carlo/Boltzman	Mirkovic, Dragan
	5/29/2023 NO CLASS - MEMORIAL DAY - HOLIDAY	---
	5/31/2023 Intensity-Modulated Radiation Therapy	Che Fru, Leonard
TBD	IMRT TREATMENT PLANNING DEMO/LAB	Peeler, Christopher/Krafft, Shane
	6/5/2023 IGRT	Cifter, Gizem
	6/7/2023 QUIZ1//Stereotactic Radiosurgery	Krafft, Shane
SAT, 6/10/2023	SRS/GK LAB	Krafft, Shane
	6/12/2023 Motion Management and Surface Guided Systems	Martin, Rachael
	6/14/2023 Stereotactic Body Radiation Therapy	Martin, Rachael
	6/19/2023 MIDTERM	Peeler, Christopher/Krafft, Shane
	6/21/2023 Proton I	Sahoo, Narayan/Zhang, Xiaodong
	6/26/2023 Proton II	Sahoo, Narayan/Zhang, Xiaodong
	6/28/2023 Proton III	Sahoo, Narayan/Zhang, Xiaodong
TBD	PROTON DEMO/LAB	Peeler, Christopher/Krafft, Shane
	7/3/2023 QUIZ 2//Proton/Heavy Ions	Peeler, Christopher
	7/4/2023 NO CLASS - INDEPENDENCE DAY - HOLIDAY	---
	7/5/2023 Biologically Related Modeling and Treatment Planning	Niedzielski, Josh
	7/10/2023 Radiation Oncology Informatics	Balter, Peter
	7/12/2023 FLASH	Schueler, Emil
	7/17/2023 AI and Automation I	Netherton, Tucker
	7/19/2023 AI and Automation II	Netherton, Tucker
TBD	AI DEMO/LAB?	---
	7/24/2023 NO CLASS - AAPM Annual Conference	---
	7/26/2023 NO CLASS - AAPM Annual Conference	---
	7/31/2023 MR in RT I	Yang, Jinzhong
	8/2/2023 MR in RT II	Yang, Jinzhong
	8/7/2023 REVIEW	Peeler, Christopher/Krafft, Shane
	8/9/2023 FINAL	Peeler, Christopher/Krafft, Shane