

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 Spitzengerger 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:

Grading System: <input checked="" type="checkbox"/> Letter Grade (A-F) <input type="checkbox"/> Pass/Fail	
Student Assessment and Grading Criteria : (May include the following:)	
Homework (50 %)	Description
Quiz (0 %)	Description
Presentation (0 %)	Description
Midterm Exams (30 %)	Description
Final Exam (20 %)	Description
Workshop or Breakout-Session (0 %)	Description
Participation and/or Attendance (0 %)	Description

TENTATIVE CLASS SCHEDULE

Week	Date		Topic	Readings*	Instructor
1	1/14	Tue	Introduction	SE: 1, 2	Liu
	1/16	Thu	Study Design	SE: 3, 5	Liu
2	1/21	Tue	Disease-Exposure Association	SE: 4	Liu
	1/23	Thu	Contingency Tables: Association	SE: 6	Liu
3	1/28	Tue	Contingency Tables: Confounding	SE: 9	Liu
	1/30	Thu	Contingency Tables: Interaction	SE: 10	Liu
4	2/4	Tue	Logistic Regression: introduction	SE: 12	Liu
	2/6	Thu	Logistic Regression: estimation	SE: 13	Liu
5	2/11	Tue	Logistic Regression: diagnosis	SE: 13	Liu
	2/13	Thu	Spring recess (no classes)		
6	2/18	Tue	Matched studies	SE: 16	Liu
	2/20	Thu	Matched studies	SE: 16	Liu
7	2/25	Tue	TBA		Liu
	2/27	Thu	Midterm Exam		Liu
8	3/4	Tue	Bayesian statistics	MA: 1	Yuan
	3/6	Thu	Bayesian statistics	MA: 1	Yuan

9	3/11	Tue	Introduction to clinical trials		Yuan
	3/13	Thu	3+3 design, CRM	MA: 2	Yuan
10	3/18	Tue	Spring Break		
	3/20	Thu	Spring Break		
11	3/25	Tue	BMA-CRM	MA: 2	Yuan
	3/27	Thu	Bayesian optimal interval design	MA: 3	Yuan
12	4/1	Tue	Drug combination trials	MA: 4	Yuan
	4/3	Thu	Handle late-onset toxicity	MA: 5	Yuan
13	4/8	Tue	Finding optimal biological dose	MA: 8	Yuan
	4/10	Thu	Phase II trial design		Yuan
14	4/15	Tue	Phase II trial design		Yuan
	4/17	Thu	Basket trial design		Yuan
15	4/22	Tue	Final project		Yuan
	4/24	Thu	Final project		Yuan

*SE: Statistics for Epidemiology

*MA: Model-Assisted Bayesian Designs for Dose Finding and Optimization