

MTR/REG 510 - Introduction to Clinical & Translational Research

Fall 2018

Instructor Information

Course Director

Emma Meagher, MD

Email

emma@upenn.edu

Class Location & Time

Maloney 8030 - M/W 4:00-5:30PM

Course Coordinator

Anna Greene

Email

acgreene@upenn.edu

Office Location

Maloney 8035

General Information

Description

This introductory course lays the foundation for understanding practical aspects of conducting clinical research in an academic environment. The course is divided into two modules: Module 1: Trial Design and Execution and Module 2: Regulatory Environment for Clinical Trials. The first module introduces clinical research, clinical protocols, study design and execution and the drug development process. The second module covers ethical considerations in clinical research, study oversight, and the regulatory environment for clinical research. Upon completion, students should have a strong foundation in the fundamentals of clinical research.

Objectives

By the end of the course, students will:

- Understand the concept of clinical and translational research
- Know the methodical approach to designing a research protocol
- Understand numerous study designs and best practices for their use
- Understand sources of bias and confounding in studies
- Distinguish between Phase 0-III trials
- Understand ethical principles for research
- Learn the basics of clinical study oversight
- Understand the regulatory environment for conducting clinical studies

Evaluation and Due Dates

Evaluation Methods:

Students will be graded based on class attendance, participation, quizzes and a final exam.

25% - Attendance/Participation

50% - Quizzes

25% - Take Home Final Exam

Academic Policies:

Attendance:

Students are expected to attend all classes. If for any reason a student will not be in class, they should contact the Course Coordinator prior to class to alert them of the absence and make arrangements to make up course content. Please remember to sign the attendance sheet in class to indicate your presence. Students are allowed two absences before it may affect their attendance grade.

Academic Integrity:

As a student at The University of Pennsylvania, you are required to uphold the Code of Academic Integrity. Specifically, this means that materials that you submit either online or in person should be independent works created by you that uphold all tenets of academic integrity (i.e. do not cheat, fabricate, or plagiarize, amongst others). We encourage you to reach out to the course director or coordinator if you are not clear on what potential violations are.

Course Management: Canvas

All course materials and assignments will be managed on Canvas. Log in with Penkey and password at <https://canvas.upenn.edu>.

Course Evaluations:

Course & Lecture evaluations are completed via OASIS throughout the semester. These are a required part of course participation. Students can access evaluation forms with their Penkey and password and will also receive emails when forms are available: <http://gme-evals.med.upenn.edu/>

Student Disabilities Services

The University of Pennsylvania provides reasonable accommodations to students with disabilities who have self-identified and been approved by the Office of Student Disabilities Services (SDS). Please make an appointment to meet with me as soon as possible in order to discuss your accommodations and your needs. If you have not yet contacted SDS and would like to request accommodations or have questions, you can make an appointment by calling SDS at 215-573-9235. The office is located in the Weingarten Learning Resources Center at Stouffer Commons 3702 Spruce Street, Suite 300. All services are confidential.

Course Schedule

Date	Topic	Location	Lecturer
	<i>Module 1: Trial Design and Execution</i>		
9/5	Introduction to Clinical Research	MALB 8030	Meagher
9/10	Overview of Clinical Research Methods	MALB 8030	Meagher
9/12	Clinical Trial Protocol Development Part I	MALB 8030	Meagher
9/17	Clinical Trial Protocol Development Part II	MALB 8030	Meagher
9/19	Basic Pharmacology I (Online)	Online	Meagher
9/24	Basic Pharmacology II (Online)	Online	Meagher
9/26	Basic Pharmacology III (Online)	Online	Meagher
10/1	Basic Pharmacology IV (Online)	Online	Meagher
10/3	Overview of Pharmacology - Bringing it all together	MALB 8030	Meagher

10/8	Overview of Drug Development and Trial Design I	MALB 8030 Meagher
10/10	Overview of Drug Development and Trial Design II	MALB 8030 Meagher
10/15	Trial Execution: Study Start-Up, Enrollment, Study Close-Out Part I	MALB 8030 Fluharty
10/17	Trial Execution: Study Start-Up, Enrollment, Study Close-Out Part II	MALB 8030 Fluharty
10/22	Understanding the Construct of a Clinical Trial Budget	MALB 8030 Steider
10/24	Good Clinical Practice I	MALB 8030 Lundin
10/29	Good Clinical Practice II	MALB 8030 Lundin
<i>Module 2: Regulatory and Funding Environment for Clinical Trials</i>		
10/31	Human Subjects Protection I	MALB 8030 Meagher
11/5	Human Subjects Protection II: Case Studies	MALB 8030 Meagher
11/7	HIPAA (Online)	Online Heagerty
11/12	HIPAA Case Studies	MALB 8030 TBD
11/14	FDA Regulation in Academic Studies	MALB 8030 Meagher
11/19	Trial Oversight: Monitoring and Auditing (Online)	Online Shank
11/21	No Class - Thanksgiving	
11/26	Intellectual Property	MALB 8030 Langenberger
11/28	Funding Clinical Research: Grants & Contracts I	MALB 8030 Steinbugler
12/3	Funding Clinical Research: Grants & Contracts II	MALB 8030 Steinbugler