

Revolutionizing Healthcare: Cutting-Edge Biotechnology Advances

Course Directors: Hana Hendi, Jose Rivera, Tulasi Iyengar

Faculty Sponsor: Dr. Bonnie Prokesch

Department: Infectious Diseases

Requirements:

- Minimum participants for course to be conducted: 5
- Maximum number of students per course: None

Rationale: This dynamic course explores the latest advancements in medical treatments and diagnostic methods that are revolutionizing the field. We will delve into the world of groundbreaking therapies, precision medicine, and state-of-the-art technologies that are reshaping how we approach healthcare. Designed for forward-thinking students passionate about the intersection of technology and medicine, this elective offers a unique opportunity to stay ahead of the curve. From gene editing and regenerative medicine to artificial intelligence-driven diagnostics, you'll gain insights into the transformative developments shaping the future of patient care. This course will highlight guest speakers at the lead of their respective fields of biotechnology and biomedical innovation.

Objectives:

- Inform the next generation of physicians about the speed with which innovation is occurring in the biomedical industry
- Teach UTSW students how to critically evaluate emerging therapies for their future patients
- Learn about the mechanisms of actions of some of the most promising biotechnological therapies

Format: This class will be a virtual lecture format consisting of 12 separate zoom sessions with some classes having a guest speaker from an expert in the field.

Student Evaluation:

- Students are required to complete an online REDCap Evaluation.

Course Evaluation:

- The class will pass/fail with attendance being required to course credit (10 out of 12 sessions must be attended).

- Students are required to complete an online REDCap Evaluation.