MHB 559 Issues in Innovative Medicine: Regenerative Medicine and Nanobiotechnology

Mondays 4pm-6:40

Linda F. Hogle, Ph.D

This course is designed to introduce upper-level undergraduate students to ethical, policy and social issues related to regenerative medicine. We will focus on stem cell research and related areas of regenerative medicine, and nanobiomedicine. The course is interdisciplinary: we will use material from history, social science, ethics, humanities, communications/media as well as public policy. (3 credits)

By the end of the course, students will:

- understand the historical and political contexts in which policies are made around novel, controversial science
- have a broader understanding of how regenerative medicine, nanotechnology and similar novel fields are shaping the future of medicine and its institutions
- have an understanding of current and past legal and moral issues related to the use of human tissues and embryos in research
- be able to analyze controversies in science, including the role of public groups
- learn issues related to first-in-human research (oversight & regulation, ethics)

The course is open to students from science and engineering, pre-medical and pre-law, health professions and policy, as well as humanities and social sciences. Graduate credit available, with additional Science and Technology Studies (STS) content.

Course Requirements: Attendance and active participation in all sessions, completion of all readings and assignments, including a policy exercise and critical thinking essays. A research paper will be required for graduate credit.