

Cell and Tissue Engineering Cluster

Required: BE 209 and either BE 420 or BE 436

BME Elective: (any course here could also serve as an Engineering Elective)

- BE 435 Transport processes in Biological Systems
- BE 436 Biofluid Mechanics
- BE 523 (ME/MS/BE523) Mechanics of Biomaterials
- BE 526 Biomaterials and Tissue Engineering I
- BE 527 Biomaterials and Tissue Engineering II

Engineering Elective:

- ME 306 Introduction to Materials Science
- ME 555 MEMS: Fabrication and Materials (*also a design elective*)

Professional Elective:

- BI 544 Cell Motility and Cytoskeleton
- BI 555 Techniques in Cell Biology
- BI 551 Biology of Stem Cells
- BI 556 Membrane Biochemistry and Cell Signaling

Other Courses of interest:

- BE 506 Physical Chemistry of Cell Structure and Machinery
- BE 564 Biophysics of Large Molecules