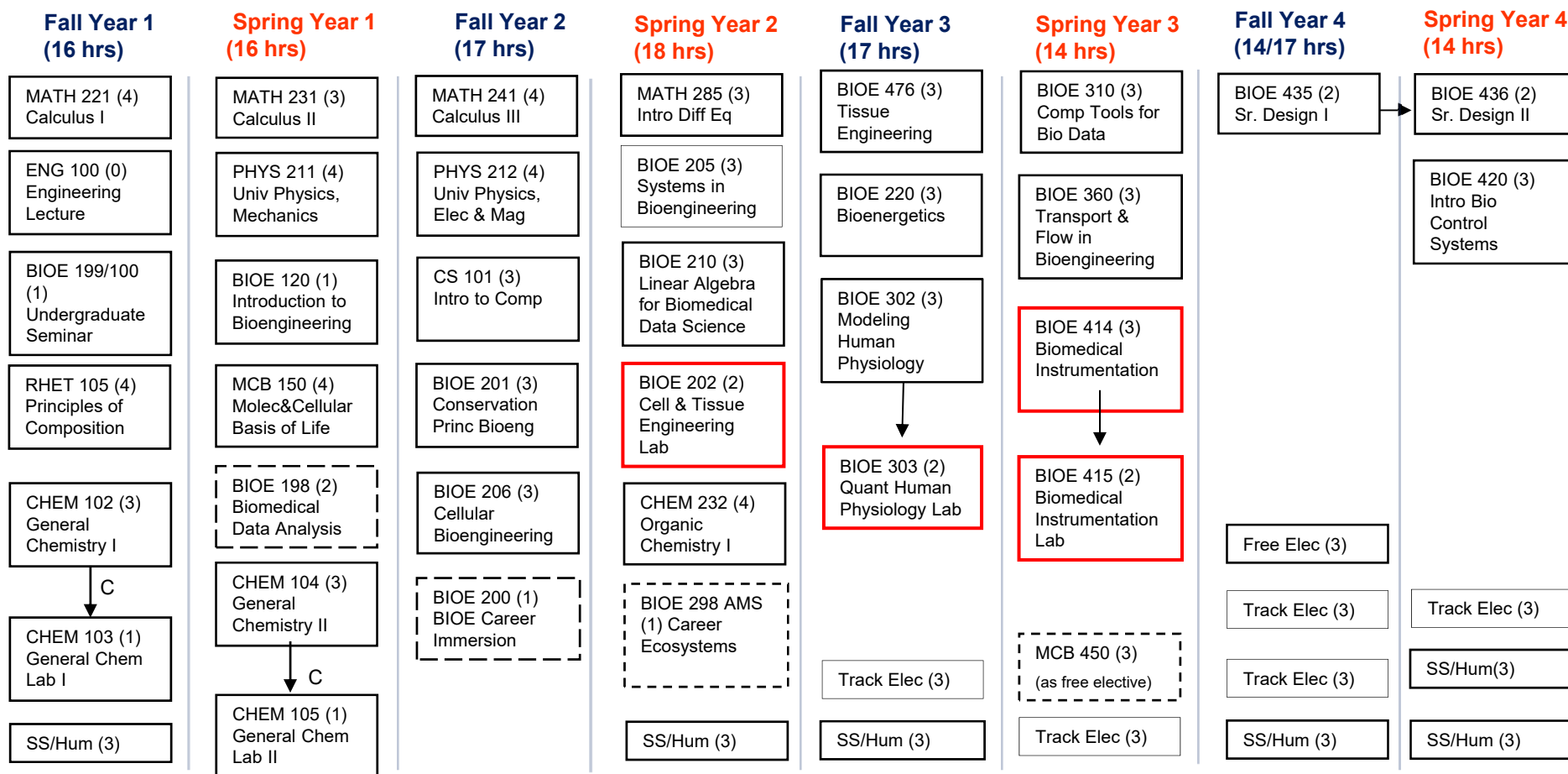


Cell & Tissue Track - Curriculum Map



Cell & Tissue Track Electives:

- BIOE 306 – Biofabrication Lab (3 hr)
- BIOE 416 – Biosensors (3 hr)
- BIOE 424 – Systems Bioengineering (3 hr)
- BIOE 430 – Intro to Synthetic Biology (3 hr)
- BIOE 460– Gene Editing Lab (3 hr)
- BIOE 461 – Cellular Biomechanics (4 hr)
- BIOE 487 – Stem Cell Bioengineering (3 hr)
- BIOE 498 JI – Finite Element Mthds in Biomed (3 hr)
- BIOE 498 WD – Preclinical Molecular Imaging (3 hr)
- MSE 404 – LabStudies in MatSE (Biomaterials) (1.5 hr each)
- MSE 470 – Design and Use of Biomaterial (3 hr)
- MSE 474 – Biomaterials and Nanomedicine (3 hr)
- CHBE 471 – Biochemical Engineering (3 hr)
- CHBE 472 – Techniques in Biomolecular Engineering (3 hr)
- IE 330 – Industrial Quality Control (3 hr)
- TMGT 461 Sections TMD/TME – Tech, Eng, and Mngmt Final Project (4 hr)
- ME 483 – Mechanobiology (4 hr)

** Note – not taking courses as advised may result in a delayed graduation date. Students are responsible for any impact resulting from not following departmental advising.

** If outlined in RED then the BIOE course is offered both Fall & Spring Semesters

**Courses with dashed line borders are not currently required as part of the Core BIOE Curriculum

Other Requirements

General Education Requirements

- 6 hours in Humanities
- 6 hours in Social/Behavioral Sciences
- 6 hours in Liberal Education
- 1 Advanced Composition Course
- 1 Western Comparative Cultures Course
- 1 Non-Western Comparative Cultures Course
- 1 US Minority Cultures Course (FA 2018 admits and beyond only)
- 3rd Level of a Foreign Language

Premed Requirements

- Meet with Engineering Career Services Premed advisor
- Common Courses *(additional requirements may apply depending on school)*:
 - MCB 450/354 (BioChem)
 - CHEM 233 (Orgo 1 lab)
 - Social/Behavioral Science Sequence (3 courses)