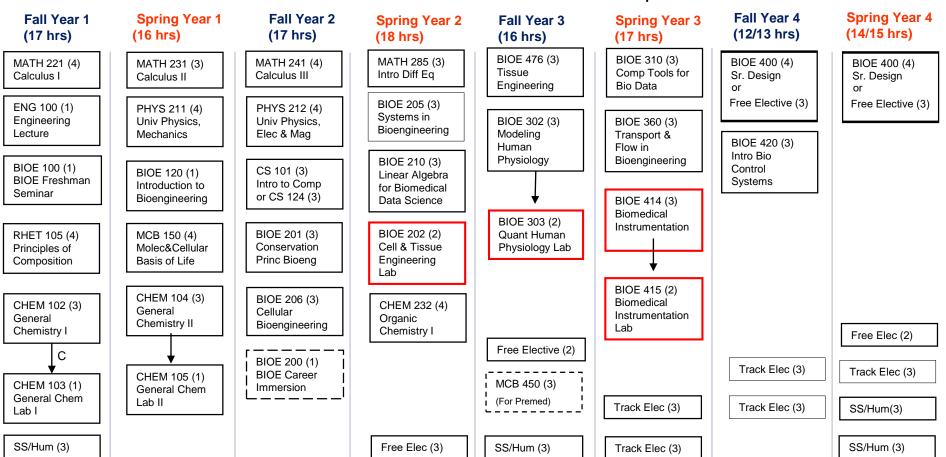
## Cell & Tissue Track - Curriculum Map



<sup>\*\*</sup> 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.

<sup>\*\*</sup> If outlined in RED then the BIOE course is offered both Fall & Spring Semesters

<sup>\*\*</sup>Courses with dashed line borders are not currently required as part of the Core BIOE Curriculum

## **Cell & Tissue Track Electives**

- BIOE 306 Biofabrication Lab (3 hr)
- BIOE 416 Biosensors (3 hr)
- BIOE 424 Preclinical Molecular Imaging (3 hr)
- BIOE 430 Intro to Synthetic Biology (3 hr)
- BIOE 432 Systems Biology (3 hr)
- BIOE 434 Immunoengineering (3 hr)
- BIOE 450 Quantitative Pharmacology (3 hr)
- BIOE 460 Gene Editing Lab (3 hr)
- BIOE 461 Cellular Biomechanics (4 hr)
- BIOE 487 Stem Cell Bioengineering (3 hr)
- BIOE 498 HG/SR1 Soft Robotics (3 hr)
- BIOE 498 RI Regulatory Safety Issues in Bioengineering (3 hr)
- BIOE 498 BTP Biotech Principles, Tools, & Applications (3 hr)
- BIOE 498 MPM Disease Models for Personalized Medicine (3 hr)

- MSE 404 LabStudies in MatSE (Biomaterials) (1.5 hr each)
- MSE 470 Design & Use of Biomaterial (3 hr)
- MSE 474 Biomaterials & 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 TMD/TME Tech, Eng, & Mngmt Project (4 hr)
- ME 483 Mechanobiology (4 hr)
- NE 330 Neuroscience for Engineers (3 hr)

## General Education Requirements ☐ 6 hours in Humanities ☐ 6 hours in Social/Behavioral Sciences ☐ 1 Advanced Composition Course ☐ 1 Western Comparative Cultures Course ☐ 1 Non-Western Comparative Cultures Course ☐ 1 US Minority Cultures Course ☐ Language Other Than English

PreMed Requirements
Meet with The Career Center for Premed advising
Common Courses (additional requirements may apply depending on school):  MCB 450/354 (BioChem)  CHEM 233 (Orgo 1 lab)  Social/Behavioral Science Sequence (2-3 courses)