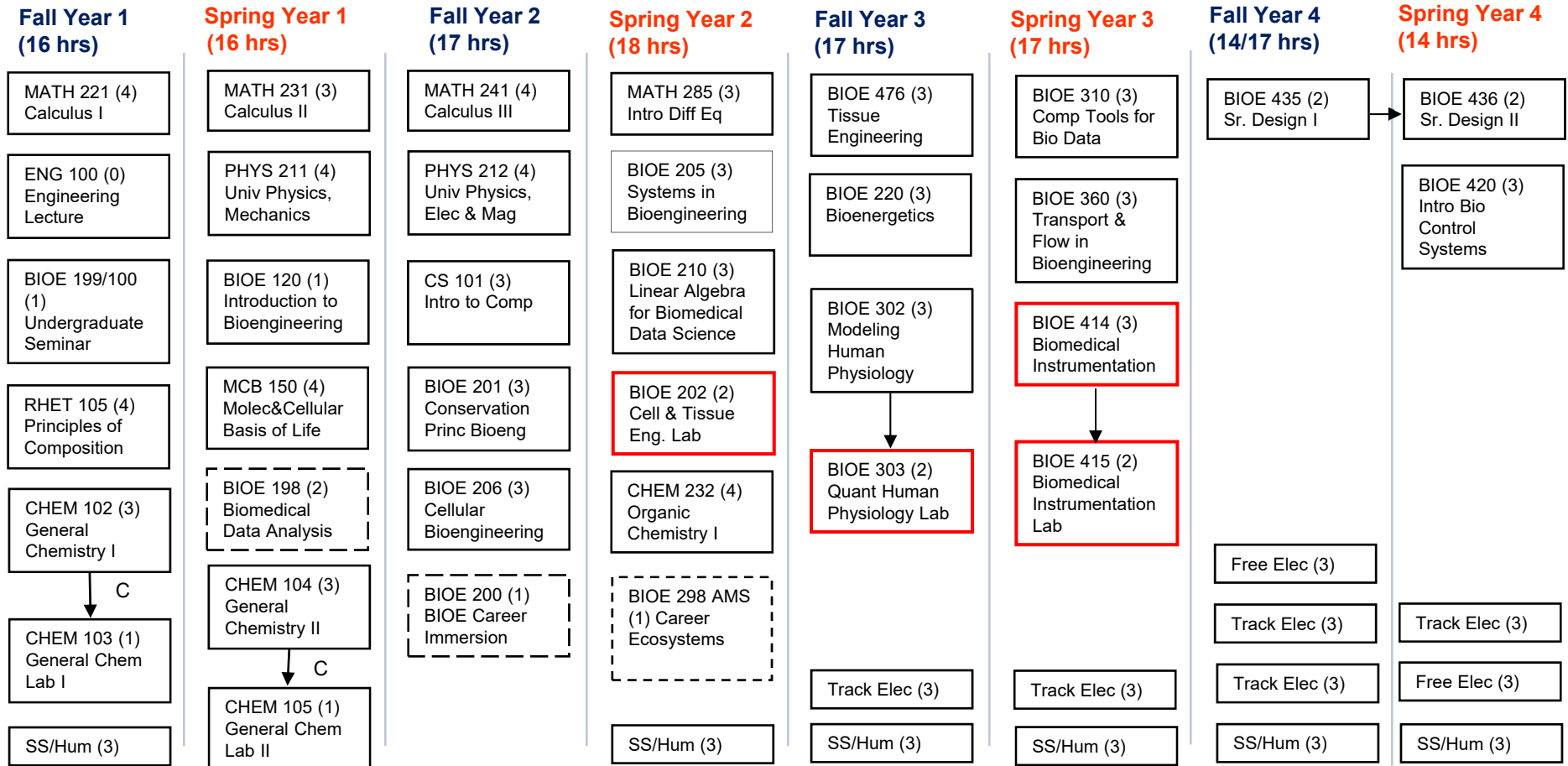


# Therapeutics Track Curriculum Map



### Therapeutics Track Electives

- BIOE 306 – Biofabrication Lab (3 hr)
- BIOE 424 – Systems Bioengineering (3 hr)
- BIOE 430 – Intro Synthetic Biology (3 hr)
- BIOE 460 – Gene Editing Lab (3 hr)
- BIOE 477 – Imaging & Therapeutic Probes (3 hr)
- BIOE 479 – Cancer Nanotechnology (3 hr)
- BIOE 498 NIE – Surgical Technologies (3 hr)
- BIOE 498 WD – Preclinical Molecular Imaging (3 hr)
- MSE 403 – Synthesis of Materials (3 hr)
- MSE 404 – (Polymer characterization option) – (1.5 hr)
- MSE 450 – Polymer Science and Engr (3 hr)
- MSE 457 – Polymer Chemistry (3 hr)
- MSE 470 – Design and Use of Biomaterials (3 hr)
- MSE 473 – Biomolecular Materials Science (3 hr)
- MSE 474 – Biomaterials and Nanomedicine (3 hr)
- MSE 480 – Surfaces and Colloids (3 hr)
- ABE 446 – Biological Nanoengineering (3 hr)
- ECE 481 – Nanotechnology (3 hr)
- CHBE 472 – Techniques in Biomolecular Engineering (3 hr)
- TMGT 461 Sections TMD/TME – Tech, Eng, and Mngmt Final Project (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, 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)
- 3<sup>rd</sup> 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)