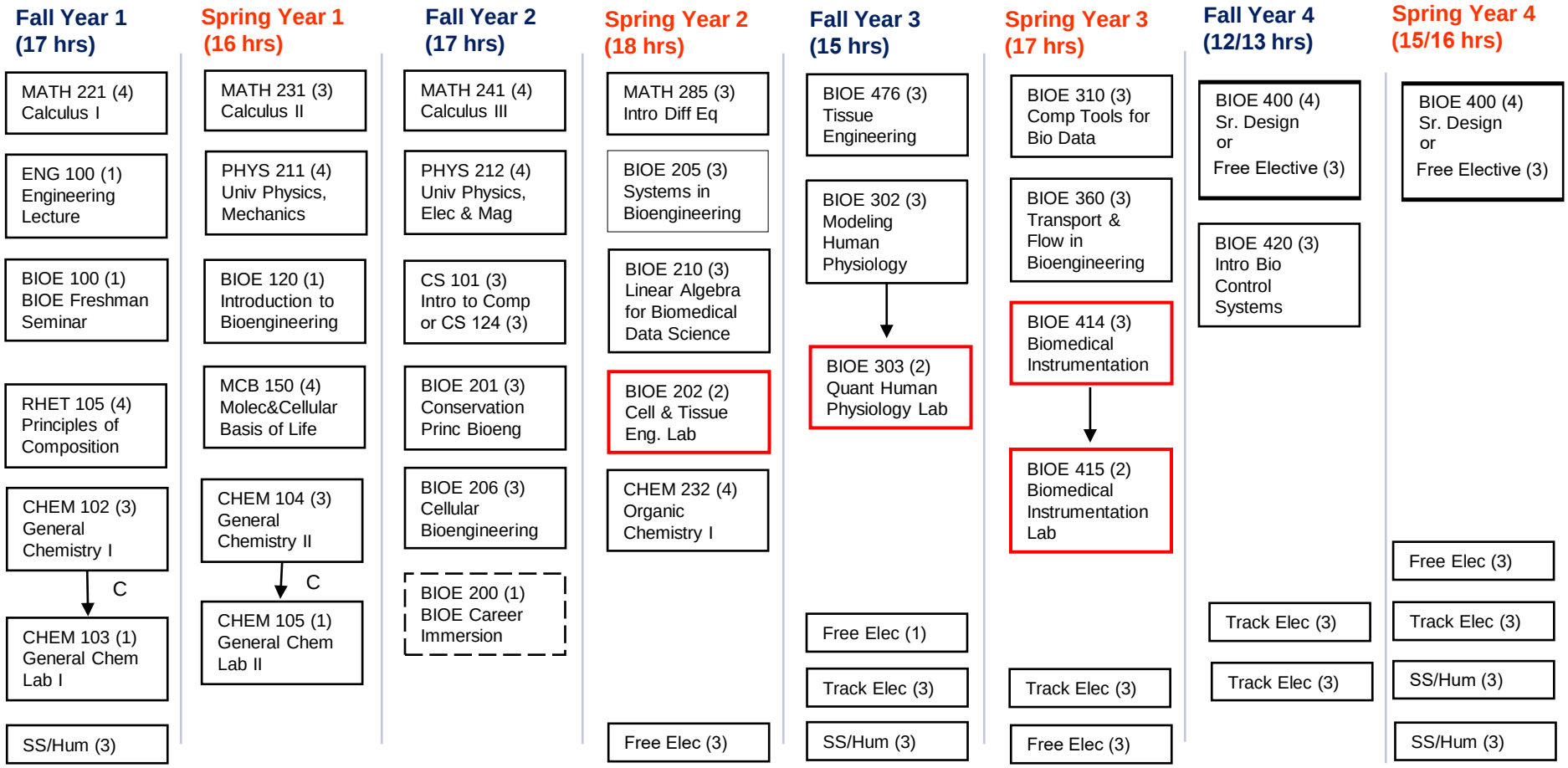
Therapeutics Track Curriculum Map



** 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

Therapeutics Track Electives

- BIOE 306 - Biofabrication Lab (3 hr)
- BIOE 424 - Preclinical Molecular Imaging (3 hr)
- BIOE 430 - Intro Synthetic Biology (3 hr)
- BIOE 450 - Quantitative Pharmacology (3 hr)
- BIOE 460 - Gene Editing Lab (3 hr)
- BIOE 479 - Cancer Nanotechnology (3 hr)
- BIOE 487 - Stem Cell Bioengineering (3 hr)
- BIOE 498 NIE/ST1 - Surgical Technologies (3 hr)
- BIOE 498 AL - Immunoengineering (3 hr)
- BIOE 498 TL - Intro to Systems Bio (3 hr)
- BIOE 498 LEC/TC1 - Tech for Cancer Diag & Therapy (3 hr)
- BIOE 498 HG - 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 403 - Synthesis of Materials (3 hr)
- MSE 404 - Polymer Characterization (1.5 hr)
- MSE 450 - Polymer Science & Engr (3 hr)
- MSE 457 - Polymer Chemistry (3 hr)
- MSE 470 - Design & Use of Biomaterials (3 hr)
- MSE 473 - Biomolecular Materials Science (3 hr)
- MSE 474 - Biomaterials & Nanomedicine (3 hr)
- MSE 480 - Surfaces & Colloids (3 hr)
- ECE 481 - Nanotechnology (3 hr)
- CHBE 472 - Techniques in Biomolecular Engineering (3 hr)
- TMGT 461 TMD/TME - Tech, Eng, & Mngmt Project (4 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)