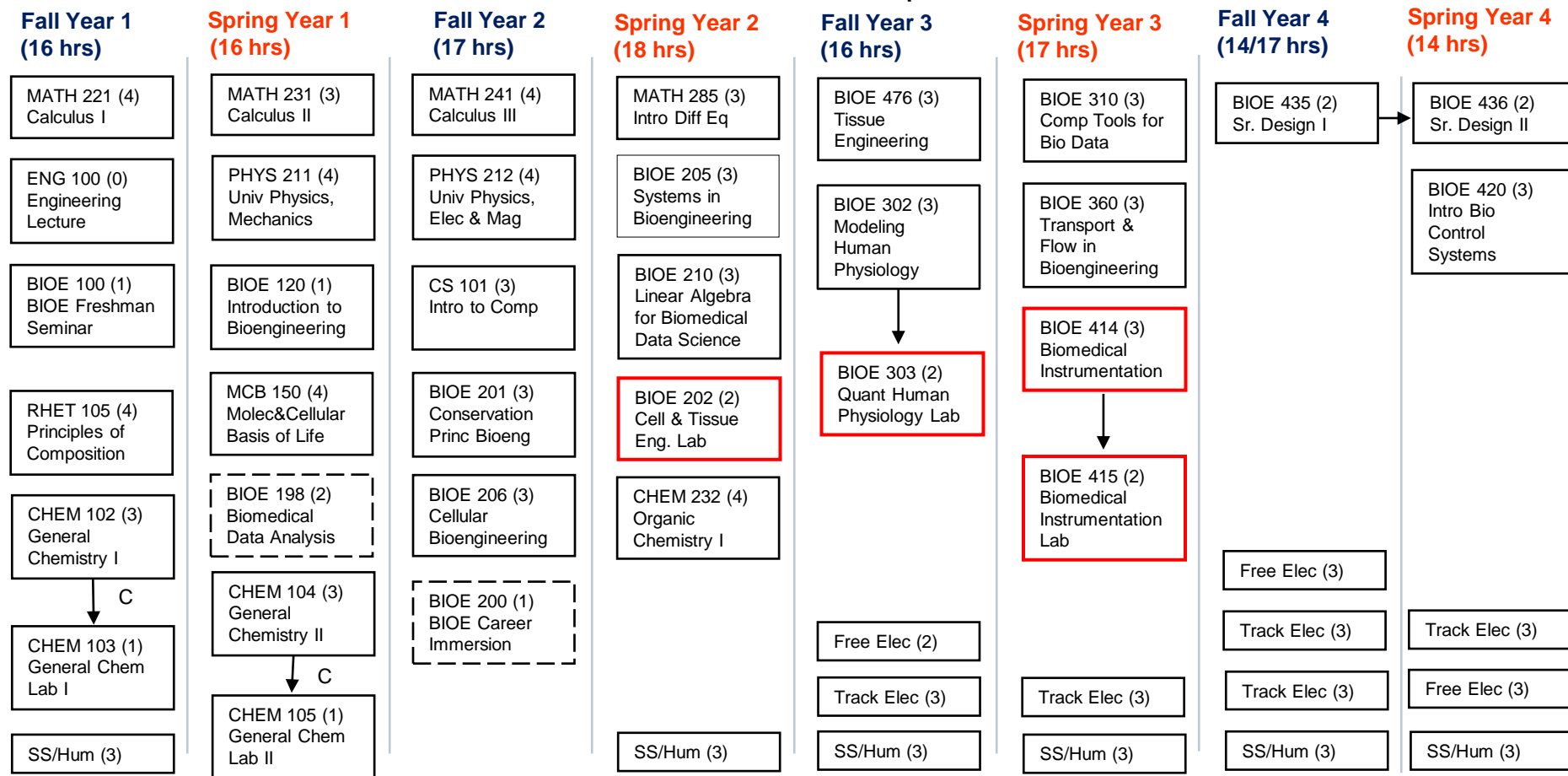


Therapeutics Track Curriculum Map



** 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 430 – Intro Synthetic Biology (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 – Surgical Technologies (3 hr)
- BIOE 498 WD – Preclinical Molecular Imaging (3 hr)
- BIOE 498 AL – Immunoengineering (3 hr)
- BIOE 498 TL – Intro to Systems Bio (3 hr)
- BIOE 498 PJ – Exper. Design in Automation (3 hr)
- BIOE 498 LEC – Tech. for Cancer Diag & Therapy (3hr)
- BIOE 498 HG – Soft Robotics (3 hr)
- BIOE 498 QP – Quantitative Pharmacology (3 hr)
- BIOE 498 RI – Regulatory Safety Issues In Bioengineering (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)

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
- ☐ 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 (3 courses)