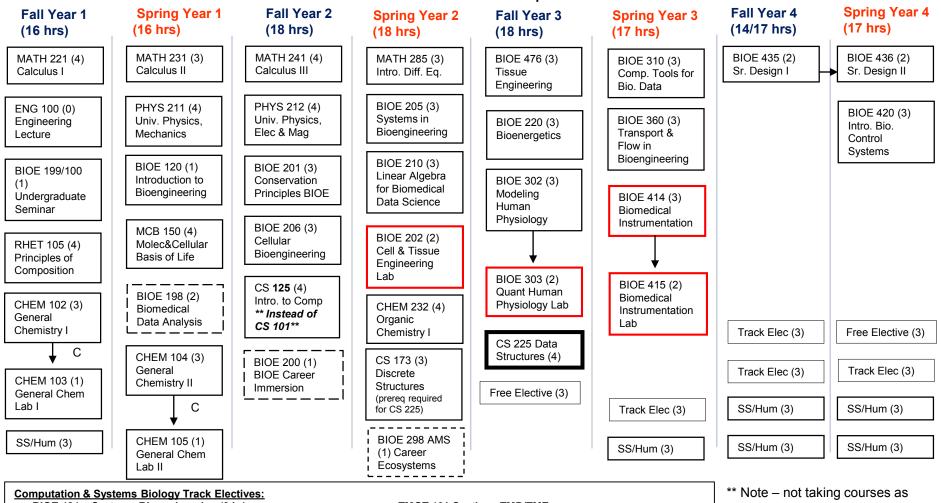
Computation & Systems Biology Track Curriculum Map



- BIOE 424 Systems Bioengineering (3 hr)
- BIOE 430 Intro. Synthetic Biology (3 hr)
- BIOE 498 JI Finite Element Mthds in Biomed (3 hr)
- ABE 440 Applied Statistical Methods I (4 hr)
- ECE 490 Introduction to Optimization (3 hr)
- SE 423 Mechatronics (3 hr)
- IE 310 Deterministic Models in Optimization (3 hr)
- IE 370 Stochastic Processes and Applications (3 hr)
- NPRE 498 PRA Advanced Risk Analysis (3 hr)

TMGT 461 Sections TMD/TME -

Tech, Eng, and Mngmt Final Project (4 hr)

CS 225 - Data Structures (4 hr)

CS 398 DL - Deep Learning (3 hr)

CS 411 - Database Systems (3 hr)

CS 412 - Introduction to Data Mining (3 hr)

CS 440 - Artificial Intelligence (3 hr)

CS 465 - User Interface Design (3 hr)

CS 466 - Introduction to Bioinformatics (3 hr)

- 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)