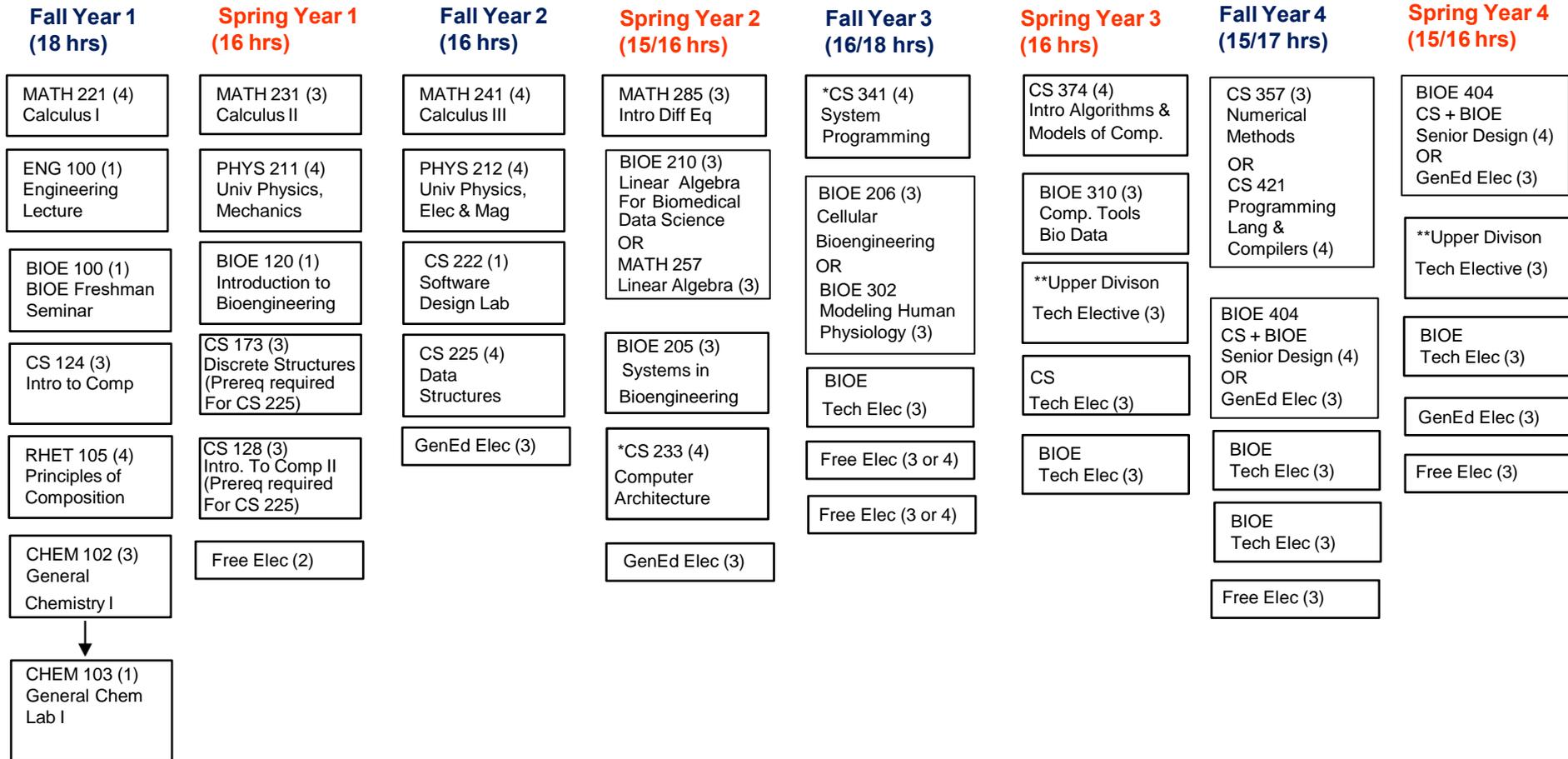


CS + Bioengineering Engineering Curriculum Map

Suggested Sequence "Option A" by Semester



* Note – *Option A: CS 233 Computer Architecture (4) & CS 341 System Programming (4). **Option B is displayed below on the next page.

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.

General Education Requirements

- | | |
|--|--|
| <input type="checkbox"/> 6 hours in Humanities | <input type="checkbox"/> 1 Western Comparative Cultures Course |
| <input type="checkbox"/> 6 hours in Social/Behavioral Sciences | <input type="checkbox"/> 1 Non-Western Comparative Cultures Course |
| <input type="checkbox"/> 1 Advanced Composition Course | <input type="checkbox"/> 1 US Minority Cultures Course |
| <input type="checkbox"/> Language Other Than English | |

Bioengineering Technical Electives

- BIOE 303 – Quantitative Physiology Lab (2 hr)
- BIOE 360 – Transport & Flow in BIOE (3 hr)
- BIOE 414 – Biomedical Instrumentation (3 hr)
- BIOE 415 – Biomedical Instrumentation Lab (2 hr)
- BIOE 430 – Intro to Synthetic Biology (3 hr)
- BIOE 461 – Cellular Biomechanics (3 hr)
- BIOE 467 – Biophotonics (3 hr)
- BIOE 476 – Tissue Engineering (3 hr)
- BIOE 479 – Cancer Nanotechnology (3 hr)
- BIOE 483 – Biomedical Computed Imaging Systems (3 hr)
- BIOE 484 – Statistical Analysis of Biomedical Images (3 hr)
- BIOE 485 – Comp Math for Machine Learning & Imaging (3 hr)
- BIOE 486 – Applied Deep Learning for Biomedical Imaging (3 hr)
- BIOE 487 – Stem Cell Bioengineering (3 hr)
- BIOE 488 – Applied High Performance Computing for Imaging Science (3 hr)
- BIOE 489 – Regulations, Ethics, & Logistics in Biomedical Applications of Machine Learning (3 hr)

Upper Division Technical Electives:

*Students should select 6 hours of 300-400 level general technical elective coursework from the following rubrics:

AE, ABE, BIOE, CHBE, CHEM, CS, CEE, ECE, EM, IE, MCB, MATH, ME, NE, NEUR, NPRE, PHYS, SE, STAT.

**extra credit hours will count towards free electives.