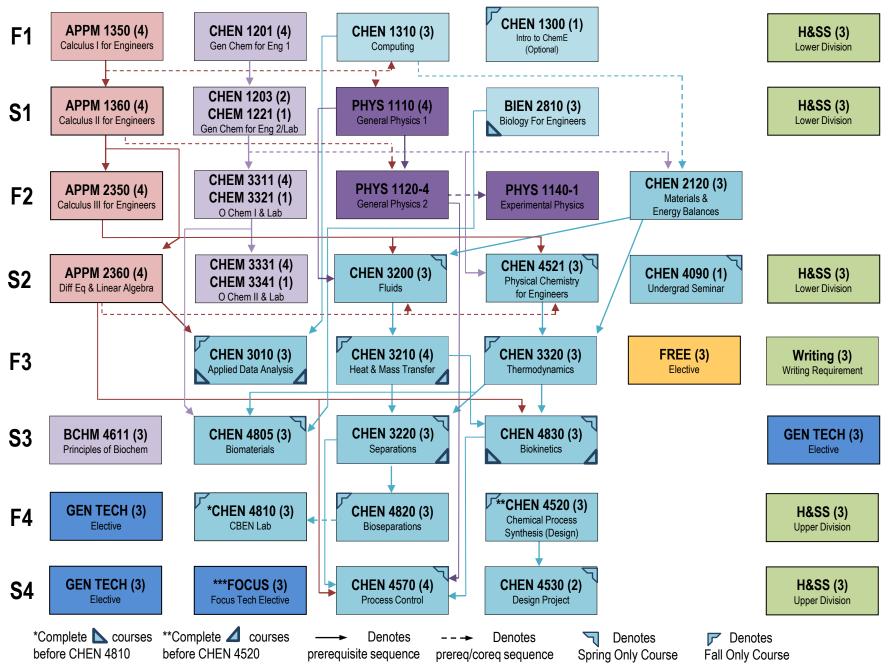
CHEMICAL & BIOLOGICAL ENGINEERING CURRICULUM (4-Year Plan)



Accepted Course Substitutions

CHEN 2810 - MCDB 1150 or EBIO 1210 AND 1220 CHEN 3200 - MCEN 3021

Writing Requirement

The Writing Requirement can be fulfilled by ENES 1010 (freshmen only), ENES 3100, PHYS 3050, WRTG 3030, WRTG 3035, or ENLP 3100.

Humanities & Social Science Electives

Please refer to the ChBE Undergraduate Advising page at <u>http://www.colorado.edu/chbe/academics/undergraduate-program/current-students</u>.

Engineering Technical Electives

Please refer to the ChBE Undergraduate Advising page at <u>http://www.colorado.edu/chbe/academics/undergraduate-program/current-students</u>.

General Technical Electives

Please refer to the ChBE Undergraduate Advising page at <u>http://www.colorado.edu/chbe/academics/undergraduate-program/current-students</u>.

*****Focus Tech Elective**

CBEN-BS students will take either:

- CHEN 4801 (3) Pharmaceutical Biotechnology (P: CHEN 3320, P/C: CHEN 4830 or 4330)
- CHEN 4802 (3) Tissue Engineering & Biomedical Devices (P: CHEN 2810 or equivalent, Department restrictions apply)
- CHEN 4803 (3) Metabolic Engineering (P: BCHM 4611)
- CHEN 4838 (3) Protein & Enzyme Engineering (P: CHEN 2810, CHEN 3320, and BCHM 4611)
- CHEN 4838 (3) Immunoengineering (P: CHEN 2810 or MCDB 1150 and CHEN 4330 or CHEN 4830)

These courses are offered on a rotating basis. Please note that this means you may not always be able to take the specific course you want. If possible, we recommend completing the pre-requisites well in advance.

Grade Requirements

The minimum passing grade for prerequisite and corequisite classes in our curriculum is a C-. This includes courses completed outside the department (APPM, PHYS, etc.).

In addition, students need to have a cumulative and major GPA of at least 2.0 in order to graduate from the College of Engineering.