Chemical and Biomolecular Engineering Course Planning Guide (37 CUs)

Entered 2020 or Later

Mathematics/Natural Sciences (12 CU)

☐ MATH 104
☐ MATH 114
☐ MATH 240
☐ MATH 241
☐ CHEM 101
☐ CHEM 053
☐ CHEM 102
☐ CHEM 054
☐ PHYS 140/150/170 ***or*** MEAM 110*
☐ PHYS 141/151/171 ***or*** ESE 112*
☐ CHEM 221 ***or*** MSE 221
☐ CHEM 241
☐ CHEM 242 ***or*** 243 ***or*** 251

CBE Core Curriculum (13 CUs)

☐ ENGR 105 *Intro to Scientific Computing*
☐ CBE 160 *Intro to Chemical Engineering*
☐ CBE 230 *Material and Energy Balances*
☐ CBE 231 *Thermodynamics of Fluids*
☐ CBE 350 *Fluid Mechanics*
☐ CBE 351 *Heat and Mass Transport*
☐ CBE 353 *Molec. Thermo. & Chem. Kin.*
☐ CBE 360 *Chemical Process Control*
☐ CBE 371 *Separation Processes*
☐ CBE 400 *Intro to Product & Process Design*
☐ CBE 410 *Chemical Engineering Laboratory*
☐ CBE 451 *Chemical Reactor Design*
☐ CBE 459 *Product & Process Design Projects*

Technical Electives (5 CUs)

☐ CBE Elective** _____
☐ Engineering Elective _____
☐ CHEM 223 ***or*** 244/249 ***or*** CBE 480
☐ Math/Nat Sci/Eng Elective*** _____
☐ Math/Nat Sci/Eng Elective*** _____

General Electives (7 CUs)

☐ EAS 203
☐ WRIT _____
☐ SS/H _____
☐ SS/H _____
☐ SS/H _____
☐ SS/H/TBS _____
☐ SS/H/TBS _____

UNDERGRADUATE FACULTY ADVISOR SIGN-OFF

Student Name: _____ Faculty Advisor: _____

☐ I have met with the above student; please clear this student to register for next semester.

Faculty Advisor Signature: _____ Date: _____

**One Tech Elective waived if PHYS 150/151 or 170/171 taken*
***CBE 300 level or above*
****Independent Study (CBE 099) can be used*

Four-Year Plan

Freshman Year

Fall Semester (20___)	Spring Semester (20___)

Sophomore Year

Fall Semester (20___)	Spring Semester (20___)

Junior Year

Fall Semester (20___)	Spring Semester (20___)

Senior Year

Fall Semester (20___)	Spring Semester (20___)