### 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

#### 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*** ______

#### 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 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

#### General Electives (7 CUs)
- □ EAS 203
- □ WRIT __________
- □ SS/H _________
- □ SS/H _________
- □ SS/H _________
- □ SS/H/TBS _________
- □ SS/H/TBS _________

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**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: __________________

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*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

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### Sophomore Year

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### Junior Year

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### Senior Year

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