**Chemical and Biomolecular Engineering Course Planning Guide (37 CUs)**

*Entered 2020 or Later*

**Mathematics/Natural Sciences** (11 CU)

[ ]  MATH 1400
[ ]  MATH 1410
[ ]  MATH 2400
[ ]  MATH 2410
[ ]  CHEM 1012

[ ]  CHEM 1101
[ ]  CHEM 1022

[ ]  CHEM 1102
[ ]  PHYS 0140 / 0150 / 0170 ***or*** MEAM 11001
[ ]  PHYS 0141 / 0151 /0171 ***or*** ESE 11201
[ ]  CHEM 2410
[ ]  Advanced chemistry elective:

CHEM 2210 ***or*** 2420

MSE 2210

**Technical Electives** (5 CUs)

[ ]  CBE Elective2,3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
[ ]  Engineering Elective3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_
[ ]  Lab elective: CHEM 2230, CBE 4800, **BOTH** CHEM 2411 and 2421, **OR** **BOTH** CBE 3300 A & B

[ ]  Math/Nat Sci/Eng Elective4 \_\_\_\_\_\_\_\_
[ ]  Math/Nat Sci/Eng Elective4 \_\_\_\_\_\_\_\_

**Ethics Requirement**

**UNDERGRADUATE FACULTY ADVISOR SIGN-OFF**

**Student Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Faculty Advisor:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

□ I have met with the above student and they can be cleared this student to register

**Faculty Advisor Signature:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_

[ ]  EAS 2030 (also counts as SS/H elective) or
CBE 3200 (also counts as engineering elective)

**CBE Core Curriculum** (13 CUs)

[ ]  ENGR 1050 *Intro to Scientific Computing*
[ ]  CBE 1600 *Intro to Chemical Engineering*
[ ]  CBE 2300 *Material and Energy Balances*
[ ]  CBE 2310 *Thermodynamics of Fluids*
[ ]  CBE 3500 *Fluid Mechanics*
[ ]  CBE 3510 *Heat and Mass Transport*
[ ]  CBE 3530 *Molec. Thermo. & Chem. Kin.*

[ ]  CBE 3600 *Chemical Process Control*
[ ]  CBE 3710 *Separation Processes*[ ]  CBE 4000 *Intro to Product & Process Design*
[ ]  CBE 4100 *Chemical Engineering Laboratory*
[ ]  CBE 4510 *Chemical Reactor Design*
[ ]  CBE 4590 *Product & Process Design*

**General Electives** (8 CUs)

[ ]  WRIT \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
[ ]  SS/H \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
[ ]  SS/H \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
[ ]  SS/H \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
[ ]  SS/H \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
[ ]  SS/H/TBS \_\_\_\_\_\_\_\_\_\_\_\_
[ ]  SS/H/TBS \_\_\_\_\_\_\_\_\_\_\_\_
[ ]  Free Elective\_\_\_\_\_\_\_\_\_\_

**Four-Year Plan**

**Freshman Year**

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| **Fall Semester (20\_\_\_)** | **Spring Semester (20\_\_\_)** |
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**Sophomore Year**

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| **Fall Semester (20\_\_\_)** | **Spring Semester (20\_\_\_)** |
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**Junior Year**

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| **Fall Semester (20\_\_\_)** | **Spring Semester (20\_\_\_)** |
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**Senior Year**

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| **Fall Semester (20\_\_\_)** | **Spring Semester (20\_\_\_)** |
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