

Advising Sheet: B.S. in Chemical Engineering – Standard Option
(Revised February 2018)

Name: _____

ID: _____

| Fall | | | | | Spring | | | | |
|--------------------|-----|-------|-----|--|--------|-------------------|-------|-----|--------------------------------------|
| Freshman: | Hrs | Grade | Sem | Prereq/Coreq | | Hrs | Grade | Sem | Prereq/Coreq |
| Writ 101 | (3) | | | | | Writ 102 | (3) | | |
| Math 261 | (3) | | | Math ACT 24 | | Math 262 | (3) | | Math261 (Min C) |
| Chem 105 | (3) | | | Math ACT 25, Chem115 | | Chem 106 | (3) | | Chem105 (Min C), Chem116 |
| Chem 115 | (1) | | | Chem105 | | Chem 116 | (1) | | Chem106 (Min C) |
| Ch E 101* | (2) | | | | | Ch E 251* | (3) | | Math 261 |
| SS/H/FA | (3) | | | | | Phys 211 | (3) | | Math262, Phys221 |
| | | | | | | Phys 221 | (1) | | Phys211 |
| Sophomore: | | | | | | | | | |
| Math 263 | (3) | | | Math262 (Min C) | | Math 264 | (3) | | Math263 (Min C) |
| Chem 221 | (3) | | | Chem106 (Min C) | | Math 353 | (3) | | Math264 |
| Chem 225 | (1) | | | Chem221 | | Phys 212 | (3) | | Math264, Phys222, Phys211 |
| Engr 321 | (3) | | | Chem 105, Math 262 | | Phys 222 | (1) | | Phys212 |
| Ch E 307 | (2) | | | Chem105 (Min C) | | Ch E 308 | (2) | | Ch E 307 (Min C-), Math262 (Min C-) |
| SS/H/FA | (3) | | | | | Engr 322 | (3) | | ENGR 321 (Min C-), Math 262 (Min C-) |
| | | | | | | SS/H/FA | (3) | | |
| Junior: | | | | | | | | | |
| Ch E 317 | (3) | | | ENGR 322 (Min C-) | | Ch E 345 | (3) | | Ch E 308 (Min C-) |
| Ch E 421 | (3) | | | Math 264 (Min C-), Ch E 308 (Min C-) | | Ch E 417 | (3) | | Ch E 308 (Min C-), Ch E 421 (Min C-) |
| Engr 310 | (3) | | | Math 262 | | Ch E 423 | (3) | | Math 353 (Min C-), Engr 322 (Min C-) |
| Advanced Science** | (3) | | | | | Engr Elective*** | (3) | | |
| SS/H/FA | (3) | | | | | Tech Elective**** | (3) | | |
| Senior: | | | | | | | | | |
| Ch E 411 | (1) | | | Ch E 451 | | Ch E 446 | (2) | | Ch E 317 (Min C-) |
| Ch E 412 | (3) | | | Ch E 308 (Min C-), Math 353 (Min C-) | | Ch E 452 | (3) | | Ch E 451 (Min C-), Ch E 317 (Min C-) |
| Ch E 445 | (2) | | | Ch E 417 (Min C-) | | Engr 313 | (3) | | Chem 105 |
| Ch E 451 | (4) | | | Ch E 345 (Min C-), Ch E 421 (Min C-), Ch E 423 (Min C-), Ch E 417 (Min C-), Ch E 411 | | Tech elective**** | (3) | | |
| Tech Elective**** | (3) | | | | | Tech Elective**** | (3) | | |
| SS/H/FA | (3) | | | | | SS/H/FA | (3) | | |

TOTAL = 128 HOURS

Must have at least 3 hrs of Fine Arts, 6 hrs of Humanities from the same department, 6 hrs of serial Social Sciences from the same department, and an additional 3 hrs of Social Sciences or Humanities.

| Fine Arts | Humanities (from same dept.) | Social Sciences (from same dept.) | SS/H/FA/Gen. Ed. |
|-----------|------------------------------|-----------------------------------|------------------|
| | | | |

*Students may take Ch E 101 and Ch E 251 in either the Fall or the Spring of their freshman year

**Advanced Science Courses – Engr 540, Ch E 543, Ch E 545, Ch E 547, Chem 314, Chem 331, Chem 332, Chem 334, Chem 373, Chem 401, Chem 471, Chem 473, Phys 315, Phys 317, Phys 318, Phys 319, Phys 321, Phys 401, Phys 402, Bisc 301, Bisc 306, Bisc 318, Bisc 320, Bisc 327, Bisc 333, Bisc 335, Engr 340, Geol 314, Geol 415, Geol 450, G E 503

***Engineering Elective Courses – Engr 309, Engr 330, Engr 340, Engr 360, Engr 573, C E 471, C E 472, M E 534

****Technical Elective – Any 300 or higher course number from among engineering, science, or mathematics

An anchor means a course is only taught in a designated Fall/Spring semester. However, the class may be taught in Summer session(s).

As alternative to the standard option in chemical engineering, a student may choose to obtain a B.S. in Chemical Engineering with one or more of the following five emphases: biotechnology, environmental, manufacturing (in collaboration with the Center for Manufacturing Excellence), and materials. Please see your advisor for more details.