College of Engineering
Chemical and Biological Engineering

B.S. CHE Degree (Bioengineering)

Required Course | Elective

# of credit hours

Prerequisite
Corequisite
C Computing Requirement
W Writing Requirement

Freshmen

15 hours

- CH 101 (CH 117) 4
- MATH 125 (MATH 145) 4
- ENGR 103 (ENGR 123) 3
- CHE 125 1
- EN 101 3
- HI/SB 3

17 hours

- CH 102 (CH 118) 4
- BSC 114 (BSC 118) 3
- MATH 126 (MATH 146) 4
- EN 102 3

Sophomore

15 hours

- CH 231 3
- PH 105 (PH 125) 4
- MATH 227 (MATH 247) 4
- CHE 254 4

16 hours

- CH 237 2
- CH 232 3
- PH 106 (PH 126) 4
- MATH 238 3
- CHE 255 C 4

*CHE 481: prerequisites also include at least two of: CHE 305, CHE 306, CHE 324, or CHE 354

**CHE 440/441: prerequisites also include at least two of: CHE 304, CHE 305, CHE 306, CHE 324, or CHE 354

Junior

15 hours

- MTE 271 or ECE 320 3
- CHE 304 3
- CHE 306 3
- HU/L/FA 3
- HI/SB 3

17 hours

- Career Elective 3
- CHE 323 W Summer only 4
- CHE 321 W 2
- CHE 324 C 3
- CHE 354 3
- CHE 305 3
- HI/SB 3

Senior

17 hours

- CHE Elective 3
- CHE 322 W 2
- ADV SCI Elective 3
- CHE 493 3
- CHE 481* 3
- HU/L/FA 3

15 hours

- Career Elective 3
- Biochem Elective 3
- CHE 482 3
- CHE 440** (CHE 441) 3
- HU/L/FA 3

Total: 127 hours

This is an **unofficial** flowchart to help with schedule planning. The UA Academic Catalog contains the official academic information: https://catalog.ua.edu

Biological Engineering Concentration Courses

Revised: 9/4/2023