

**Chemical and Biomolecular Engineering Catalog 2024**  
**Biomolecular Concentration**

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|------------------|--|---|---|--|---|
| Fall<br>16 hours | <b>Math 132 or 141 or 147 (3-4) (QR) FA, SP, SU</b><br>Math 132 Prereq- Math 131<br>Math 141 Prereq- ACT Math 28 or SAT Math 660 | <b>Chem 122(3) and 123(1) or 128 (4) (NS) FA, SP, SU</b><br>Prereq-Math 119; recommended background in Math 131 | <b>EF 142 or 151 or 157 (4) (EI) FA, SP</b><br>EF 142 Prereq- EF 141 with C- or better and Math 131<br>EF 142 Coreq- Math 132<br>EF 151 Coreq- 141/147 or higher and EF 105 or COSC 101 or CS 102 | <b>EF 105 (1) FA, SP</b><br>Coreq- EF 151 or 157   | <b>English 101 or 131 (3) FA, SP, SU</b><br>101 Standard;<br>131 English as Second Language       |
|                  | <b>Math 142 or 148 (4) (QR) FA, SP, SU</b><br>Prereq- Math 132 or 141 or 147   | <b>Chem 132(3) and 133(1) or 138 (4) (NS) FA, SP, SU</b><br>Prereq- Chem 122 and 123 or 128                     | <b>EF 152 or 158 (4) (NS and EI) FA, SP, SU</b><br>Prereq-EF 142/151/157 with C or higher<br>Coreq- Math 142 or 148   | <b>English 102 or 112 or 298 or 132 (3) FA, SP, SU</b><br>102 Prereq 101; 112 Prereq is AP 101 and Test Scores;<br>298 Prereq University Honors only; 132 Prereq 131 ESL |   |
| Fall<br>16 hours | <b>Math 231 or 237 (3) FA, SP, SU</b><br>Prereq- Math 142 or 148   | <b>CBE 201 (4) FA, SU</b><br>Prereq- EF 152/158 & Chem 132 and 133 or 138<br>Coreq- Math 231                    | <b>CBE 235 (3) FA</b><br>Prereq- EF 152 or 158 and<br>Chem 132 and 133 or 138   | <b>Biology 160 or 168 (3) FA, SP, SU</b><br>Strongly recommended students take<br>Chemistry 122 and 123 or 128 prior   | <b>Vol Core (3) FA, SP, SU</b><br>Social Science (SS)   |
|                  | <b>Math 241 or 247 (4) FA, SP, SU</b><br>Prereq- Math 142 or 148   | <b>CBE 240 (4) SP</b><br>Prereq- EF 152/158 & Chem 132 and 133 or 138<br>Coreq- Math 241 or 247                 | <b>CBE 250 (3) SP, SU</b><br>Prereq- EF 152/158 & Chem 132 and 133 or 138<br>Coreq- Math 241 or 247   | <b>Physics 231 (3) FA, SP, SU</b><br>Prereq- Phys 135 or EF 151 and 152<br>Coreq- Math 142 or 148  | <b>Vol Core (3) FA, SP, SU</b><br>Expanded Perspectives- choose from<br>AH, AAH, GCUS, GCI, or SS |
| Fall<br>15 hours | <b>Chemistry 260 or 268 (3) FA, SP, SU</b><br>Prereq- Chemistry 132 and 133 or 138   | <b>Chemistry 269 (1) FA, SP, SU</b><br>Prereq- Chemistry 132 and 133 or 138<br>Coreq- Chemistry 260 or 268      | <b>CBE 301 (4) FA</b><br>Prereq- CBE 201, 240, and 250 with grades of C- or better<br>or consent of instructor  | <b>CBE 350 (4) FA</b><br>Prereq- CBE 201, 240 and 250 with grades of C- or better<br>Coreq- CBE 301  | <b>CBE 330 (3)</b><br>Prereq- CBE 201, 240, 250 with C- or better;<br>and Math 241 or 247         |
|                  | <b>CBE 320 (3) (OC) SP</b><br>Prereq- CBE 201, 240, and 250 with grades of C- or better<br>Coreq- CBE 301 and 350                | <b>CBE 340 (3) SP, SU</b><br>Prereq- CBE 201, 240 and 250 with grades of C- or better                           | <b>CBE 360 (3) SP, SU</b><br>Prereq- CBE 201, 240 and 250<br>Coreq- Math 231  | <b>Biology 240 (4) FA, SP, SU</b><br>Prereq- BIOL 160 or 168 and<br>Coreq- Chemistry 132 and 133 or 138  | <b>Chem 360 or 368 (3) FA, SP, SU</b><br>Prereq- Chem 260 or 268                                  |
| Fall<br>17 hours | <b>CBE 445 (3) FA</b><br>Prereq- CBE 340 and 360   | <b>CBE 480 (4) FA</b><br>Prereq- CBE 340 and 360 and<br>Chemistry 260 or 268<br>Coreq- CBE 445                  | <b>BCMB 401 or 412 (4) FA, SP</b><br>401 Prereq- Chem 260 or 268;<br>401 Coreq- Chem 360 or 368<br>412 Prereq- Bio 240  | <b>CBE 415 (WC and EI) (3) FA</b><br>Prereq- CBE 340 and 360; English 102, 112, 132, or 298<br>Coreq- CBE 301 and 350<br>Restriction- CBE majors                         | <b>Vol Core (3) FA, SP, SU</b><br>Global Citizenship United States (GCUS)                         |
|                  | <b>CBE 488 or 490 (3) SP (AOC)</b><br>Prereq- CBE 445 and 480  | <b>CBE 475 (3) SP</b>   | <b>Vol Core (3) FA, SP, SU</b><br>Global Citizenship International (GCI)  | <b>Vol Core (3) FA, SP, SU</b><br>Expanded Perspectives- choose from<br>AH, AAH, GCUS, GCI, or SS  | <b>Bio Option I* (3) FA, SP, SU</b><br>choose from list below                                     |

\*Bio Option 1: BCMB 230, 311, 321, 402, 415; Biology 220- 229, 260- 269, 280; Chemical & Biomolecular Engineering 455; Microbiology 210, 321, 329

Students also have opportunities for an Honors Concentration. See the Undergraduate Catalog for details and requirements.

Volunteer Core courses highlighted in light orange.