

Chemical and Biomolecular Engineering Catalog 2024

Fall 16 hours	Math 132 or 141 or 147 (3-4) (QR) FA,SP,SU Math 132 Prereq- Math 131 Math 141 Prereq- ACT Math 28 or SAT Math 660	Chem 122(3) and 123(1) or 128 (4) (NS) FA, SP, SU Prereq-Math 119; recommended background in Math 131	EF 142 or 151 or 157 (4) (EI) FA, SP EF 142 Prereq- EF 141 with C- or better and Math 131 EF 142 Coreq- Math 132 EF 151 Coreq- 141/147 or higher and EF 105 or COSC 101 or CS 102	EF 105 (1) FA, SP Coreq- EF 151 or 157	English 101 or 131 (3) FA, SP, SU 101 Standard; 131 English as Second Language
Spring 15 hours	Math 142 or 148 (4) (QR) FA, SP, SU Prereq- Math 132 or 141 or 147	Chem 132(3) and 133(1) or 138 (4) (NS) FA, SP, SU Prereq- Chem 122 and 123 or 128	EF 152 or 158 (4) (NS and EI) FA, SP, SU Prereq-EF 142/151/157 with C or higher Coreq- Math 142 or 148	English 102 or 112 or 298 or 132 (3) FA, SP, SU 102 Prereq 101; 112 Prereq is AP 101 and Test Scores; 298 Prereq University Honors only; 132 Prereq 131 ESL	

Fall 17 hours	Math 231 or 237 (3) FA, SP, SU Prereq- Math 142 or 148	CBE 201 (4) FA, SU Prereq- EF 152/158 & Chem 132 & 133 or 138 Coreq- Math 231	CBE 235 (3) FA Prereq- EF 152 or 158 and Chem 132 and 133 or 138	Chem 210 (3) AND 219 (1) FA, SP Prereq- Chem 132 and 133 or 138	Vol Core (3) FA, SP, SU Social Science (SS)
Spring 17 hours	Math 241 or 247 (4) FA, SP, SU Prereq- Math 142 or 148	CBE 240 (4) SP Prereq- EF 152/158 & Chem 132 & 133 or 138 Coreq- Math 241 or 247	CBE 250 (3) SP, SU Prereq- EF 152/158 & Chem 132 & 133 or 138 Coreq- Math 241 or 247	Physics 231 (3) FA, SP, SU Prereq- Phys 135 or EF 151 and 152 Coreq- Math 142 or 148	Vol Core (3) FA, SP, SU Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS

Fall 17 hours	Chemistry 260 or 268 (3) FA, SP, SU Prereq- Chemistry 132 and 133 or 138	CBE 301 (4) FA Prereq- CBE 201, 240, and 250 or consent of instructor	CBE 350 (4) FA Prereq- CBE 201, 240 and 250 with a grade of C- or better Coreq- CBE 301	CBE 330 (3) Prereq- CBE 201, 240, 250 with C- or better; and Math 241 or 247	Vol Core (3) FA, SP, SU Global Citizenship United States (GCUS)
Spring 15 hours	CBE 320 (3) (OC) SP Prereq- CBE 201, 240, and 250 with C- or better Coreq- CBE 301 and 350	CBE 340 (3) SP, SU Prereq- CBE 201, 240 and 250 with a grade of C- or better	CBE 360 (3) SP, SU Prereq- CBE 201, 240 and 250 Coreq- Math 231	Bio Option I ** (3) FA, SP, SU Prereq- CBE 201, 240 and 250	Tech. Elective (3) FA, SP, SU Petition required in advance See note below***

Fall 16 hours	CBE 445 (3) FA Prereq- CBE 340 and 360	CBE 480 (4) FA Prereq- CBE 340 and 360 and Chem. 360 or 368; Coreq- CBE 445	CBE 415 (WC and EI) (3) FA Prereq- CBE 340 and 360; English 102, 112, 132, or 298 Coreq- CBE 301 and 350; and CBE major	Tech. Elective*** (3) FA, SP, SU Petition required in advance	Vol Core (3) FA, SP, SU Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS
Spring 15 hours	CBE 488 or 490 (3) SP (AOC) Prereq- CBE 445 and 480	Chem Option I *(3) FA, SP, SU	Tech. Elective*** (3) FA, SP, SU Petition required in advance	Vol Core (3) FA, SP, SU Global Citizenship International (GCI)	Vol Core (3) FA, SP, SU Arts and Humanities (AH)

* **Chem Option I:** Any 200 level or above BCMB courses; any 200-level or above CHEM courses; Environmental Engineering 554, 562; MSE 201/207; MSE 340/347, MSE 360/367; any 200-level or above MICR courses.

** **Biology Option I:** BCMB 230, BCMB 311, BCMB 321, BCMB 401, BCMB 402, BCMB 412, BCMB 415; BIOL 220/229, BIOL 240, BIOL 260/269, BIO 280; MICR 210, MICR 321, MICR 329.

*** One technical elective must be a chemical and biomolecular engineering course, with the exclusion of CBE 457. MSE 201 or 207 can be used as technical elective, if not used to satisfy Chem Option 1.

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