Chemical and Biomolecular Engineering Catalog 2020

Biomolecular Concentration Math 141 or 147 (4) FA, SP, SU Chem 120 or 128 (4) FA, SP, SU EF 151 or 157 (4) FA. SP EF 105 (1) FA. SP English 101/118 or 198 or 131 (3) FA, SP, SU Fall Prereq- Math ACT 28 or oreq- EF 151 or 157 16 hours Prereg-Math 119: recommended Coreg- Math 132/141/147 or higher 101 Regular; 118 Honors; 198 Chancellor Honors Only; or Math SAT 660 background in Math 131 and EF 105 or CS 101 or CS 102 131 English as Second Language Math 142 or 148 (4) FA, SP, SU Chem 130 or 138 (4) FA, SP, SU EF 152 or 158 (4) FA, SP, SU English 102 or 290 or 298 or 132 (3) FA, SP, SU Spring 15 hours Prereg- Math 132 or 141 or 147 Prereq- Chem 120 or 128 Prereq-EF 151/157 with C or higher 102 Prereg 101 or 118; 290 Prereg AP 101 credit Coreg- Math 142 or 148 298 Prereg Chancellor Honors only & 198; 132 Prereg 131 ESL Fall Math 231 or 237 (3) FA. SP. SU CBE 201 (4) FA. SU CBE 235 (3) FA Biology 160 or 168 (3) FA. SP. SU Gen Ed (3) FA. SP. SU Prereq- EF 152/158 & Chem 130/138 Prereg- EF 152/158 & Chem 130/138 16 hours Prereg- Math 142 or 148 Corea- Chemistry 120 or 128 Social Science Coreq- Math 231 (Dept. Enforced)Co-req Bio 160 or 168 Math 241 or 247 (4) FA, SP, SU CBE 240 (4) SP CBE 250 (4) SP. SU Physics 231 (3) FA, SP, SU Gen. Ed. (3) FA. SP. SU Spring Prereq- EF 152/158 & Chem 130/138 Prereq- EF 152/158 & Chem 130/138 Prereq- Phys 135 or EF 151 and 152 18 hours Prereq- Math 142 or 148 Social Science Coreq- Math 241 or 247 Coreq- Math 241 or 247 Coreq- Math 142 or 148 Fall Chemistry 260 or 268 (3) FA, SP, SU Chemistry 269 (1) FA, SP, SU CBE 301 (4) FA CBE 350 (4) FA Gen. Ed. (3) FA, SP, SU Prereg- CBE 201, 240, and 250 Prereg- CBE 201, 240 and 250 15 hours formerly Chem 350 or 358 Prereg- Chemistry 130 or 138 Arts and Humanities Prereq- Chemistry 130 or 138 Coreq- Chemistry 260 or 268 or consent of instructor Coreq- CBE 301 Spring CBE 320 (3) SP CBE 340 (3) SP, SU CBE 360 (3) SP, SU Biology 240 (4) FA, SP, SU Chem 360 or 368 (3) FA, SP, SU 16 hours Prereq- CBE 201, 240, and 250 Prereq- CBE 201, 240 and 250 Prereq- CBE 201, 240 and 250 Prereq- BIOL 160 or 168 and Prereq- Chem 260 or 268 Coreq- CBE 301 and 350 Coreq- Math 231 Coreq-Chemistry 130 or 138 formerly 350 or 358 Fall BCMB 401 or 412 (4) FA, SP Gen. Ed. (3) FA, SP, SU 17 hours Prereq- CBE 340 and 360 Prerect CBE 340 and 360 and 401 Prereg- Chem 260 or 268: Cultures and Civilizations Prereq- CBE 340 and 360; English 102, 132, 290, or 298 Chemistry 260 or 268 401 Coreq- Chem 360 or 368 Coreg- CBE 301 and 350 Corea- CBE 445 412 Prereq- Bio 240 Restriction- CBE majors CBE 488 or 490 (3) SP (OC) CBE 475 (3) SP Gen. Ed. (3) FA. SP. SU Gen. Ed. (3) FA. SP. SU Bio Option I* (3) FA.SP.SU Spring 15 hours Prereq- CBE 445 and 480 Cultures and Civilizations Arts and Humanities 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

Progression to Upper Division

Progression of students in the Department of Chemical and Biomolecular Engineering to departmental courses numbered 310 and above is competitive and is based on capacity. Factors considered include overall grade point average, performance in selected lower-division courses, and evidence of satisfactory and orderly progress through the prescribed curriculum.

Upper-Division Status

A lower-division student must apply for progression to upper division status after completing CBE 201, CBE 235, CBE 240, and CBE 250 with a grade of C - or better in each course and an overall GPA of 2.3 or better.

Grades of C- or better in these four courses are required for graduation.

Provisional Status

Students who have completed CBE 201, CBE 235, CBE 240, and CBE 250 with an overall GPA of at least 2.3 may apply for provisional status. Any student granted provisional status must retake the 200 level CBE course or courses in which a grade less than C- was earned and achieve a C- or better to be admitted to full upper-division status. Grades of C- or better in these four courses are required for graduation. The granting of provisional upper-division status is based on availability of space in the departmental programs after upper-division status students have been accommodated. Provisional students are required to demonstrate the ability to perform satisfactorily in upper-division courses by completing a total of seven departmental courses with a grade of C or better in each course (including the four required for upper-division status). Permission to continue with upper-division classes depends on this minimum level of performance.

Any student with an overall GPA below 2.1 will not be admitted to upper-division chemical and biomolecular engineering courses. Students who have not been admitted to upper-division or provisional status will be dropped from upper-division departmental classes.

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