Chemical and Biomolecular Engineering Catalog 2017

Biomolecular Concentration Math 141 or 147 (4) FA, SP, SU Chem 120 or 128 (4) FA, SP, SU English 101 or 118 (3) FA. SP. SU EF 151 or 157 (4) FA. SP EF 105 (1) FA, SP Fall 16 hours Prereq- Math 130 or Math ACT 28 Coreq- Math 141 or 147 and oreq- EF 151 or 157 or Math SAT 630 EF 105 Chem 130 or 138 (4) FA, SP, SU Spring Math 142 or 148 (4) FA, SP, SU English 102 (3) FA, SP, SU EF 152 or 158 (4) FA, SP Prereg- Math 141 or 147 Prereg- EF 151 or 157 15 hours Prereq- Chem 120 or 128 rereg- English 101 or 118 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 EF 230 (2) FA. SP 15 hours Prereq- Math 142 or 148 Prereg- EF 152/158 & Chem 130/138 Prereg- EF 152/158 & Chem 130/138 Corea- Chemistry 120 or 128 Prereq- EF 152 or 158 or Coreq- Math 231 Coreq- Biology 160 or 168 Physics 136 or 138 Spring Math 241 or 247 (4) FA, SP, SU CBE 250 (4) SP, SU CBE 240 (4) SP Gen Ed (3) FA, SP, SU Prereq- Math 142 or 148 Prereq- EF 152/158 & Chem 130/138 Prereg- EF 152/158 & Chem 130/138 15 hours Social Science oreg- Math 241 or 247 oreg- Math 241 or 247 Chemistry 260 or 268 (3) FA, SP, SU CBE 301 (3) FA CBE 350 (3) FA Physics 231 (3) FA, SP, SU Gen. Ed. (3) FA. SP. SU Fall Prereg- CBE 201, 240 and 250 15 hours formerly Chem 350 or 358 Coreq- EF 230 Coreg- Math 142 or 148 Arts and Humanities Prereq- Chemistry 130 or 138 CBE 340 (3) FA, SP, SU CBE 360 (3) SP, SU CBE 380 (1) SP Gen. Ed. (3) FA, SP, SU Biology 240 (4) FA, SU Chem 360 or 368 (3) FA, SP, SU Chem 369 (2) FA, SP, SU Spring Prereg- CBE 201, 240 and 250 Prereq- CBE 201, 240 and 250 Grading: Satisfactory/ No Credit 19 hours Prereg- BIOL 160 or 168 and rereg- Chem 260 or 268 Arts and Humanities oreg- Chem 360 or 368 estrictions: 2.3 GPA Coreq- Math 231 Prereq- CBE 201, 240 and 250 Coreg-Chemistry 130 or 138 ormerly 350 or 358 estrictions: 2.3 GPA CBE 445 (3) FA CBE 415 (WC) (4) FA CBE 480 (3) FA Gen. Ed. (3) FA, SP, SU BCMB 401 or 412 (4) FA, SP Fall Prereq- CBE 340 and 360 Prereg- CBE 340 and 360 and Prereg- CBE 340 and 360 401 Prereg- Chem 350 or 358: 17 hours Cultures and Civilizations Coreq- CBE 310 and 350 Chemistry 350 or 358 401 Coreq- Chem 360 or 368 Restriction Chem E and 2.30 GPA oreq- CBE 445 112 Prereq- Bio 240 Spring CBE 401 (1) SP CBE 488 or 490 (3) SP (OC) Bio Option I (3-5) FA, SP, SU CBE 475 (3) SP Gen. Ed. (3) FA, SP, SU Gen. Ed. (3) FA, SP, SU Prereg- CBE 350, 445, 480 Prereq- CBE 445 and 480 16 hours Social Science Cultures and Civilizations Coreq- CBE 488 or 490

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.

UTRACK Milestones:

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6 through 8
Math 130 or higher or one SS	Math 130 or higher	EF 151/157 or	EF 152/158 or Physics 136/138	ME 202 or CS 102 or MSE 201	No Milestones
or one AH or one CC		Physics 135/137		or CBE 201	

^{*}Biology Option I: Choose one BCME 230, 311, 321, 401, 412; Biology 220/229, Biology 260/269; CBE 455; Microbiology 210.