

Chemical and Biomolecular Engineering Catalog 2016

Biomolecular Concentration

Fall 16 hours	Math 141 or 147 (4) FA, SP, SU Prereq- Math 130 or Math ACT 28 or Math SAT 630	Chem 120 or 128 (4) FA, SP, SU Math 130	English 101 or 118 (3) FA, SP, SU	EF 151 or 157 (4) FA, SP Coreq- Math 141 or 147 and EF 105	EF 105 (1) FA, SP Coreq- EF 151 or 157		
Spring 15 hours	Math 142 or 148 (4) FA, SP, SU Prereq- Math 141 or 147	Chem 130 or 138 (4) FA, SP, SU Prereq- Chem 120 or 128	English 102 (3) FA, SP, SU Prereq- English 101 or 118	EF 152 or 158 (4) FA, SP Prereq- EF 151 or 157			
Fall 15 hours	Math 231 (3) FA, SP, SU Prereq- Math 142 or 148	CBE 201 (4) FA Prereq- EF 152/158 & Chem 130/138 Coreq- Math 231	CBE 235 (3) FA Prereq- EF 152/158 & Chem 130/138 Coreq- Biology 160 or 168	Biology 160 or 168 (3) FA, SP, SU Coreq- Chemistry 120 or 128	EF 230 (2) FA, SP Prereq- EF 152 or 158 or Physics 136 or 138		
Spring 15 hours	Math 241 or 247 (4) FA, SP, SU Prereq- Math 142 or 148	CBE 250 (4) SP, SU Prereq- EF 152/158 & Chem 130/138 Coreq- Math 241 or 247	CBE 240 (4) SP, SU Prereq- EF 152/158 & Chem 130/138 Coreq- Math 241 or 247	Gen Ed (3) FA, SP, SU Social Science			
Fall 15 hours	Chemistry 350 or 358 (3) FA, SP, SU Prereq- Chemistry 130 or 138	CBE 301 (3) FA Coreq- EF 230	CBE 350 (3) FA Prereq- CBE 201, 240 and 250	Physics 231 (3) FA, SP, SU Coreq- Math 142 or 148	Gen. Ed. (3) FA, SP, SU Arts and Humanities		
Spring 19 hours	CBE 340 (3) FA, SP, SU Prereq- CBE 201, 240 and 250 Restrictions: 2.3 GPA	CBE 360 (3) SP, SU Prereq- CBE 201, 240 and 250 Coreq- Math 231 Restrictions: 2.3 GPA	CBE 380 (1) SP Grading: Satisfactory/ No Credit Prereq- CBE 201, 240 and 250	Gen. Ed. (3) FA, SP, SU Arts and Humanities	Biology 240 (4) FA, SU Prereq- BIOL 160 or 168 and Coreq- Chemistry 130 or 138	Chem 360 or 368 (3) FA, SP, SU Prereq- Chem 350 or 358	Chem 369 (2) FA, SP, SU Coreq- Chem 360 or 368
Fall 17 hours	CBE 445 (3) FA Prereq- CBE 340 and 360	CBE 415 (WC) (4) FA Prereq- CBE 340 and 360 Coreq- CBE 310 and 350 Restriction Chem E and 2.30 GPA	CBE 480 (3) FA Prereq- CBE 340 and 360 and Chemistry 350 or 358 Coreq- CBE 445	Gen. Ed. (3) FA, SP, SU Cultures and Civilizations	BCMB 401 or 412 (4) FA, SP 401 Prereq- Chem 350 or 358; 401 Coreq- Chem 360 or 368 412 Prereq- Bio 240		
Spring 16 hours	CBE 401 (1) SP Prereq- CBE 350, 445, 480 Coreq- CBE 488 or 490	CBE 488 or 490 (3) SP (OC) Prereq- CBE 445 and 480	*Bio Option I (3-5) FA, SP, SU	CBE 475 (3) SP	Gen. Ed. (3) FA, SP, SU Social Science	Gen. Ed. (3) FA, SP, SU Cultures and Civilizations	

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

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 or one AH or one CC	Math 130 or higher	EF 151/157 or Physics 135/137	EF 152/158 or Physics 136/138	ME 202 or CS 102 or MSE 201 or CBE 201	No Milestones