	Chemical and Biomolecular Engineering Catalog 2022					
Fall	Math 132 or 141 or 147 (3-4) (QR) FA,SP,SU	Chem 122(3) and 123(1) or 128 (4) (NS) FA, SP, SU	EF 142 or 151 or 157 (4) (EI) FA, SP	EF 105 (1) FA, SP	English 101/118 or 198 or 131 (3) FA, SP, SU	
16 hours	Prereq- Math 141 is ACT Math 28 or SAT Math 660	Prereq-Math 119; recommended	Coreq- Math 132/141/147 or higher	Coreq- EF 151 or 157	101 Regular; 118 Honors; 198 Chancellor Honor	ors Only;
	Prereq-Math 132 is Math 131	background in Math 131	and EF 105 or CS 101 or CS 102		131 English as Second Language	
Spring	Math 142 or 148 (4) (QR) FA, SP, SU	Chem 132(3) and 133(1) or 138 (4) (NS) FA, SP, SU	EF 152 or 158 (4) (NS and EI) FA, SP, SU	English 102 or 290 or 298 or 132 (3)	FA, SP, SU	1
15 hours	Prereq- Math 132 or 141 or 147	Prereg- Chem 122 and 123 or 128	Prereg-EF 142/151/157 with C or higher	102 Prereg 101 or 118; 290 Prereg A	P 101 credit	
	·	·	Coreq- Math 142 or 148	298 Prereq Chancellor Honors only &	/ & 198; 132 Prereq 131 ESL	
all	Math 231 or 237 (3) FA, SP, SU	CBE 201 (4) FA, SU	CBE 235 (3) FA	Chem 210 (3) AND 219 (1) FA, SP	Vol Core (3) FA, SP, SU	
17 hours	Prereq- Math 142 or 148	Prereq- EF 152/158 & Chem 132 & 133 or 138	Prereq- EF 152 or 158 and	Prereq- Chem 132 and 133 or 138	Social Science (SS)	
		Coreq- Math 231	Chem 132 and 133 or 138			_
Spring	Math 241 or 247 (4) FA, SP, SU	CBE 240 (4) SP	CBE 250 (4) SP, SU	Physics 231 (3) FA, SP, SU	Vol Core (3) FA, SP, SU	1
18 hours	Prereg- Math 142 or 148	Prereg- EF 152/158 & Chem 132 & 133 or 138	Prereg- EF 152/158 & Chem 132 &133 or 138		Expanded Perspectives- choose from	
	·	Coreg- Math 241 or 247	Coreq- Math 241 or 247	Coreg- Math 142 or 148	AH, AAH, GCUS, GCI, or SS	
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all	Chemistry 260 or 268 (3) FA, SP, SU	CBE 301 (4) FA	CBE 350 (4) FA	Vol Core (3) FA, SP, SU	Vol Core (3) FA, SP, SU	
17 hours	Prereq- Chemistry 132 and 133 or 138	Prereq- CBE 201, 240, and 250 or consent of instructor	Prereq- CBE 201, 240 and 250 Coreq- CBE 301	Arts and Humanities (AH)	Global Citizenship United States (GCUS)	
Spring	CBE 320 (3) (OC) SP	CBE 340 (3) SP, SU	CBE 360 (3) SP, SU	Bio Option I **(3) FA, SP, SU	Tech. Elective (3) FA, SP, SU	1
15 hours	Prereq- CBE 201, 240, and 250 Coreq- CBE 301 and 350	Prereq- CBE 201, 240 and 250	Prereq- CBE 201, 240 and 250 Coreq- Math 231		Petition required in advance See note below***	
	Coleq- CBE 301 and 330		Coreq- Iviatii 23 i		See Hote below	
all	CBE 445 (3) FA	CBE 480 (4) FA	CBE 415 (WC and EI) (3) FA		Tech. Elective*** (3) FA, SP, SU	Vol Core (3) FA, SP, SU
16 hours	Prereq- CBE 340 and 360	Prereq- CBE 340 and 360 and	Prereq- CBE 340 and 360; English 102, 132, 290, or 298		Petition required in advance	Expanded Perspectives- choose from
		Chem. 360 or 368; Coreq- CBE 445	Coreq- CBE 301 and 350; and CBE major			AH, AAH, GCUS, GCI, or SS
	CBE 488 or 490 (3) SP (AOC)	Chem Option I *(3) FA, SP, SU	Tech. Elective*** (3) FA, SP, SU	Tech. Elective*** (2) FA, SP, SU	Vol Core (3) FA, SP, SU	
Spring	Prereq- CBE 445 and 480		Petition required in advance	Petition required in advance	Global Citizenship International (GCI)	
14 hours						

^{*} 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.

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.

^{**} 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.