| Fall | 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 | |
|---------------------------|-------------------------------------|-----------------------------------|---|--|--|---------------------------------------|
| 16 hours | Prereq- Math 130 or Math ACT 28 | Prereq-Math 119; recommended | Coreq- Math 141 or 147 and | Coreq- EF 151 or 157 | 101 Regular; 118 Honors; 198 Chancellor Honors Only; | |
| | or Math SAT 630 | background Math 130 | EF 105 | | 131 English as Second Language | |
| Su ala a | Math 142 or 148 (4) FA, SP, SU | Chem 130 or 138 (4) FA, SP, SU | EF 152 or 158 (4) FA, SP, SU | En aliah 400 ay 200 ay 200 ay 422 (2) EA | | |
| Spring 15 hours | Prereq- Math 141 or 147 | Prereq- Chem 120 or 128 | EF 152 OF 158 (4) FA, SP, SU Prereq- EF 151 or 157 | English 102 or 290 or 298 or 132 (3) FA, SP, SU 102 Prereg 101 or 118; 290 Prereg AP 101 credit | | |
| | Frereq-Main 141 or 147 | Frereq- Chemi 120 or 128 | Coreq- Math 142 or 148 | 298 Prereg Chancellor Honors only & 198; 132 Prereg 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 | Gen. Ed. (3) FA, SP, SU | |
| 17 hours | Prereq- Math 142 or 148 | Prereq- EF 152/158 & Chem 130/138 | Prereq- EF 152/158 & Chem 130/138 | formerly Chem 310 and 319 | Social Science | |
| | | Coreq- Math 231 | (Dept. Enforced) Bio 160 or 168 | Prereq- Chem 130 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 | Gen Ed (3) FA, SP, SU | |
| 18 hours | Prereq- Math 142 or 148 | Prereq- EF 152/158 & Chem 130/138 | Prereq- EF 152/158 & Chem 130/138 | Prereq- Phys 135 or EF 151 and 152 | Social Science | |
| 5 Houro | | Coreq- Math 241 or 247 | Coreq- Math 241 or 247 | Coreq- Math 142 or 148 | | |
| | | | | | | |
| Fall | Chemistry 260 or 268 (3) FA, SP, SU | CBE 301 (4) FA | CBE 350 (4) FA | Gen Ed (3) FA, SP, SU | | |
| 14 hours | formerly Chem 350 or 358 | Prereq- CBE 201, 240, and 250 | Prereq- CBE 201, 240 and 250 | Arts and Humanities | | |
| | Prereq- Chemistry 130 or 138 | or consent of instructor | | | | |
| | | | | | | |
| pring | CBE 320 (3) SP | CBE 340 (3) FA, SP, SU | CBE 360 (3) SP, SU | CBE 380 (1) SP | Bio Option I **(3) FA, SP, SU | Tech. Elective (3) FA, SP, SU |
| 16 hours | Prereq- CBE 201, 240, and 250 | Prereq- CBE 201, 240 and 250 | Prereq- CBE 201, 240 and 250 | Grading: Satisfactory/ No Credit | | Petition required in advance |
| | Coreq- CBE 301 and 350 | Restrictions: 2.3 GPA | Coreq- Math 231 | Prereq- CBE 201, 240 and 250 | | See note below*** |
| | | | Restrictions: 2.3 GPA | | | |
| | | | | | | |
| all | CBE 445 (3) FA | CBE 480 (3) FA | Tech. Elective*** (3) FA, SP, SU | Gen Ed (3) FA, SP, SU | Gen Ed (3) FA, SP, SU | CBE 415 (WC) (3) FA |
| 18 hours | Prereq- CBE 340 and 360 | Prereq- CBE 340 and 360 and | Petition required in advance | Arts and Humanities | Cultures and Civilizations | Prereq- CBE 320 and 340; English 102, |
| | | Chem. 360 or 368; Coreq- CBE 445 | | | | Coreq- CBE 301 and 350 |
| | | | | | | Restriction- CBE and 2.3 GPA |
| | CBE 401 (2) SP | CBE 488 or 490 (3) SP (OC) | Chem Option I *(3) FA, SP, SU | Tech. Elective*** (3) FA, SP, SU | Gen Ed (3) FA, SP, SU | |
| pring | Prereq- CBE 350, 445, 480 | Prereq- CBE 445 and 480 | | Petition required in advance | Cultures and Civilizations | |
| 4 hours | Coreq- CBE 488 or 490 | | | | | |

* 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; CBE 455

*** 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.

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.