

GRADUATE SCHOOL PREPARATION

First year

Fall Semester

CHE 140 General Chemistry I (4)
MAT 145 Calculus I (4)
LAN 112 Foreign Language (4)*
ENG 101 or COM 110 (3)

Spring Semester

CHE 141 General Chemistry II (4)
MAT 146 Calculus II (4)
ENG 101 or COM 110 (3)
Gen. Ed. Requirement (3)

Second year

Fall Semester

CHE 230 Organic Chemistry I (3)
CHE 231 Organic Chemistry I Lab (1)
PHY 110 Physics for Science and Engineering (4)†
Gen. Ed. Requirement (3)
Elective or BSC 197 (3-4)**

Spring Semester

CHE 232 Organic Chemistry II (3)
CHE 233 Organic Chemistry II Lab (2)
CHE 250 Fundamentals of Inorganic Chemistry (3)
CHE 251 Fundamentals of Inorganic Chemistry Lab (1)
PHY 111 Physics for Science and Engineering II (4)†
Gen. Ed. Requirement (3)

Third year

Fall Semester

CHE 215 Analytical Chemistry (3)
CHE 216 Analytical Chemistry Lab (1)
CHE 290/299 Research (1)‡
CHE 360 Physical Chemistry I (3)
CHE 361 Physical Chemistry I Lab (1)
Gen. Ed. Requirement (3)
Elective or BSC 203 (3)**

Spring Semester

CHE 290/299 Research (1)‡
CHE 342 General Biochemistry I (3)**
CHE 362 Physical Chemistry II (3)
CHE 363 Physical Chemistry II Lab (1)
Gen. Ed. Requirement (3)
Gen. Ed. Requirement (3)
Elective (2)***

Fourth year

Fall Semester

CHE 290/299 Research (2)‡
CHE 350 Advanced Inorganic Chemistry (3)
CHE 351 Advanced Inorganic Chemistry Lab (1)
Chemistry Elective (3)
Elective (3)***
Elective (3)***

Spring Semester

CHE 290/299 Research (2)‡
CHE 315 Instrumental Analysis (3)
CHE 316 Instrumental Analysis Lab (1)
Chemistry Elective (3)
Elective (3)***
Elective (3)***

* College of Arts and Sciences foreign language requirements must be met. See catalog for details.

† Physics 108/109 (5 CH each) can be substituted, but PHY 110/111 is strongly preferred.

‡ May be replaced by CHE 343: Biochemistry Lab.

** BSC 197: Molecular and Cellular Basis of Life and BSC 203: Cell Biology are highly recommended for CHE 342: General Biochemistry I.

*** One elective must meet AMALI requirement. See catalog for details.
Students may start with MAT 144: Pre-calculus, but this may delay graduation. MAT 147: Calculus III is highly recommended as an elective following MAT 146. A grade of C or better is required in the following courses: CHE 140, CHE 141, CHE 215/216, CHE 230/231, CHE 232/233, CHE 250/251, CHE 342, and CHE 360/361.



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