

CHEMISTRY MAJOR

Requirements

| Code | Title | Credits |
|----------------------|---|-----------|
| CHEM 1171 & 1171L | General Chemistry I and General Chemistry I Lab | 4 |
| CHEM 1172 & 1172L | General Chemistry II and General Chemistry II Lab | 4 |
| CHEM 2271 & 2271L | Organic Chemistry I and Organic Chemistry I Lab | 4 |
| CHEM 2272 & 2272L | Organic Chemistry II and Organic Chemistry II Lab | 4 |
| CHEM 2282 & 2282L | Chemical Analysis and Chemical Analysis Lab | 4 |
| CHEM/BIOL 3323L | Biochemistry Lab | 1 |
| CHEM/BIOL 3324 | Biochemistry I | 3 |
| CHEM 3361 & 3361L | Physical Chemistry I and Physical Chemistry I Lab | 4 |
| CHEM 3362 & 3362L | Physical Chemistry II and Physical Chemistry II Lab | 4 |
| CHEM 3326 | Chemical Instrumentation | 3 |
| CHEM 3326L | Instrumental-Analytical Chemistry Lab | 3 |
| CHEM 3341 | Advanced Inorganic Chemistry | 3 |
| MATH 1141 | Calculus I for Chemistry, Engineering, and Physics Majors | 4 |
| or MATH 1171 | Calculus I | |
| MATH 1142 | Calculus II for Chemistry, Engineering, and Physics Majors | 4 |
| or MATH 1172 | Calculus II | |
| MATH 2243 | Calculus III for Chemistry, Engineering, and Physics Majors | 4 |
| or MATH 2273 | Multivariable Calculus | |
| PHYS 1171 & 1171L | General Physics I and General Physics I Lab | 4 |
| PHYS 1172 & 1172L | General Physics II and General Physics II Lab | 4 |
| Total Credits | | 61 |

Plan of Study

| Course | Title | Credits |
|-------------------|---|-----------|
| First Year | | |
| Fall | | |
| CHEM 1171 | General Chemistry I | 3 |
| CHEM 1171L | General Chemistry I Lab | 1 |
| MATH 1141 | Calculus I for Chemistry, Engineering, and Physics Majors | 4 |
| or MATH 1171 | Calculus I | |
| PHYS 1171 | General Physics I | 3 |
| PHYS 1171L | General Physics I Lab | 1 |
| Core Courses | | 6 |
| Credits | | 18 |

Spring

| | | |
|----------------|--|-----------|
| CHEM 1172 | General Chemistry II | 3 |
| CHEM 1172L | General Chemistry II Lab | 1 |
| MATH 1142 | Calculus II for Chemistry, Engineering, and Physics Majors | 4 |
| or MATH 1172 | Calculus II | |
| PHYS 1172 | General Physics II | 3 |
| PHYS 1172L | General Physics II Lab | 1 |
| Core Courses | | 6 |
| Credits | | 18 |

Second Year

Fall

| | | |
|----------------------------|---|-----------|
| CHEM 2271 | Organic Chemistry I | 3 |
| CHEM 2271L | Organic Chemistry I Lab | 1 |
| MATH 2243 | Calculus III for Chemistry, Engineering, and Physics Majors | 4 |
| or MATH 2273 | Multivariable Calculus | |
| Core Courses and Electives | | 9 |
| Credits | | 17 |

Spring

| | | |
|----------------------------|--------------------------|-----------|
| CHEM 2272 | Organic Chemistry II | 3 |
| CHEM 2272L | Organic Chemistry II Lab | 1 |
| CHEM 2282 | Chemical Analysis | 3 |
| CHEM 2282L | Chemical Analysis Lab | 1 |
| Core Courses and Electives | | 9 |
| Credits | | 17 |

Third Year

Fall

| | | |
|----------------------------|---------------------------------------|-----------|
| CHEM 3326 | Chemical Instrumentation ¹ | 3 |
| CHEM 3361 | Physical Chemistry I | 3 |
| CHEM 3361L | Physical Chemistry I Lab | 1 |
| Core Courses and Electives | | 6 |
| Credits | | 13 |

Spring

| | | |
|----------------------------|--|-----------|
| CHEM 3326L | Instrumental-Analytical Chemistry Lab ¹ | 3 |
| CHEM 3362 | Physical Chemistry II | 3 |
| CHEM 3362L | Physical Chemistry II Lab | 1 |
| Core Courses and Electives | | 9 |
| Credits | | 16 |

Fourth Year

Fall

| | | |
|----------------------------|---|-----------|
| CHEM 3341 | Advanced Inorganic Chemistry ¹ | 3 |
| Core Courses and Electives | | 12 |
| Credits | | 15 |

Spring

| | | |
|----------------------------|-------------------------------|------------|
| CHEM 3323L | Biochemistry Lab ¹ | 1 |
| or BIOL 3323L | Biochemistry Lab | |
| CHEM 3324 | Biochemistry I ¹ | 3 |
| or BIOL 3324 | Biochemistry I | |
| Core Courses and Electives | | 12 |
| Credits | | 16 |
| Total Credits | | 130 |

¹ May be taken in either third or fourth year.

Students are encouraged to meet with their academic advisors in the Department to discuss variations of the recommended Plan of Study, for example to pursue study abroad and/or research opportunities.