

CHEMISTRY - MINOR

Program Requirements

The student will choose five lecture courses (14-15 credits) and three laboratory courses (3-5 credits) from categories A.-E. below. The student must take at least one course from four of the five categories. Students must have a C average in all courses taken for a minor in Chemistry. CHEM 491 and CHEM 485 credits will not be allowed to count for the minor nor used in the Chemistry GPA calculation. Substitution of courses without the CHEM prefix will not be allowed.

| Code | Title | Semester Credit Hours |
|--------------------------------|--|-----------------------|
| A. Organic Chemistry | | |
| CHEM 227 | Organic Chemistry I | 3 |
| CHEM 228 | Organic Chemistry II | 3 |
| CHEM 237 | Organic Chemistry Laboratory | 1 |
| CHEM 238 | Organic Chemistry Laboratory | 1 |
| B. Analytical Chemistry | | |
| CHEM 315 | Fundamentals of Quantitative Analysis ¹ | 3 |
| CHEM 316 | Quantitative Analysis ¹ | 2 |
| CHEM 318 | Quantitative Analysis Laboratory | 1 |
| C. Physical Chemistry | | |
| CHEM 310 | Elements of Physical Chemistry ² | 3 |
| CHEM 311 | Physical Chemistry Laboratory | 1 |
| CHEM 322 | Physical Chemistry for Engineers ² | 3 |
| CHEM 325 | Physical Chemistry Laboratory I | 1 |
| CHEM 326 | Physical Chemistry Laboratory II | 1 |
| CHEM 327 | Physical Chemistry I ² | 3 |
| CHEM 328 | Physical Chemistry II | 3 |
| D. Inorganic Chemistry | | |
| CHEM 220 | Physics and Chemistry of Inorganic Materials | 3 |
| CHEM 362 | Descriptive Inorganic Chemistry | 3 |
| CHEM 383 | Chemistry of Environmental Pollution | 3 |
| E. Advanced Chemistry | | |
| CHEM 415 | Analytical Chemistry | 3 |
| CHEM 433 | Advanced Inorganic Chemistry Laboratory | 2 |
| CHEM 434 | Analytical Instrumentation Laboratory | 2 |
| CHEM 446 | Organic Chemistry III | 3 |
| CHEM 456 | Chemical Biology | 3 |
| CHEM 462 | Inorganic Chemistry | 3 |
| CHEM 464 | Nuclear Chemistry | 3 |
| CHEM 466 | Polymer Chemistry | 3 |
| CHEM 468 | Materials Chemistry of Inorganic Materials | 3 |
| CHEM 470 | Industrial Chemistry | 3 |

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| CHEM 483 | Green Chemistry | 3 |
| CHEM 489 | Special Topics in... | 1-4 |

¹ Students may not count both CHEM 315 and CHEM 316.

² Students may only count one from CHEM 310, CHEM 322, or CHEM 327.