

CHEMISTRY - BIOCHEMISTRY (B.S.) - BLOOMFIELD COLLEGE

Program Requirements

| Code | Title | Credits |
|--|---|---------|
| A. First Year Seminar | | |
| FYS 100 | First Year Seminar | 3-4 |
| B. Mathematics | | |
| MTH 130 | Transition to Collegiate Mathematics | 4 |
| MTH 141 | College Algebra | 4 |
| or MTH 161 | Precalculus | |
| C. Writing | | |
| Students who take WRT 102 must then take WRT 108. Students who take WRT 105A must then take WRT 109. | | |
| WRT 105A | Argumentative and Analytic Writing (or WRT 102 Enhanced Argumentative and Analytic Writing) | 4 |
| or WRT 106A | Accelerated Argumentative and Analytic Writing | |
| WRT 108 | Enhanced Synth/Research Writing | 4 |
| or WRT 109 | Synthesis Research Writing | |

Major Requirements

| Code | Title | Credits |
|-------------------------|--|---------|
| Required Courses | | |
| BIO 111B | General Biology: Cell | 4 |
| BIO 121 | General Biology: Diversity | 4 |
| BIO 213A | Molecular and Cellular Biology | 4 |
| CHM 111 | General Chemistry I | 4 |
| CHM 112 | General Chemistry II | 4 |
| CHM 211 | Chemical Analysis and Instrumentation | 3-4 |
| CHM 212 | Chemical Analysis and Instrumentation Laboratory | 3-4 |
| CHM 301 | Organic Chemistry I | 3-4 |
| CHM 303 | Organic Chemistry I Laboratory | 2 |
| CHM 302 | Organic Chemistry II | 3-4 |
| CHM 304 | Organic Chemistry II Laboratory | 3-4 |
| CHM 311 | Physical Chemistry I | 3-4 |
| CHM 313 | Physical Chemistry I Laboratory | 3-4 |
| CHM 401 | Biochemistry I | 3-4 |
| CHM 404 | Biochemistry I Laboratory | 3-4 |
| CHM 402 | Biochemistry II | 3-4 |
| CHM 405 | Biochemistry II Laboratory | 2 |
| CHM 450 | Chemistry Seminar | 3-4 |
| MTH 221C | Calculus Analytic Geometry I | 4 |
| MTH 222C | Calculus and Analytic Geometry II | 4 |
| PHY 105 | General Physics I | 4 |
| PHY 106 | General Physics II | 4 |

Bloomfield College General Education

Click here for a list of courses that fulfill General Education categories (<http://catalog.montclair.edu/programs/general-education-requirements-bloomfield/>)

| Code | Title | Credits |
|---|-------|---------|
| Take one course from Aesthetic Appreciation Skills | | |
| Take one course from Communication Skills | | |
| Take one course from Technological & Digital Literacy Skills | | |
| Take two courses from the following: Either two courses from Transcultural & Global Awareness OR one course from Transcultural & Global Awareness AND one course from Civic Engagement Skills | | |

Writing Intensive

Complete two writing intensive courses.

Upper Level Course Requirement

Complete 15 courses at the 200-level or higher