

State University of New York at New Paltz

This **eight-semester plan** (see [important details](#)) is intended to guide a first-year student through a four-year undergraduate career, with completion of an academic major and all college-wide degree requirements. The plan is designed as an **advising tool** – a starting point for careful discussions between a student and his/her academic adviser. In consultation, the student and adviser will adjust the plan to accommodate the student's prerequisite needs, transferred credits, and other such variables.

Students are responsible for reviewing their [Progress Reports](#) each semester to track their own progress toward degree requirements.

Chemistry - Biochemistry

Year 1

| Fall Semester | | Spring Semester | |
|---|---------|--|---------|
| Course | Credits | Course | Credits |
| Gen Ed: Composition (COMP) | 3 | Gen Ed: Composition (COMP) | 3 |
| CHE201 General Chemistry I (NSCI) | 3 | CHE202 General Chemistry II (NSCI) | 3 |
| CHE211 General Chemistry I Lab | 1 | CHE212 General Chemistry II Lab | 1 |
| MAT251 Calculus I (MATH) | 4 | MAT252 Calculus II | 4 |
| BIO201 General Biology I (NSCI) | 3 | BIO202 General Biology II (NSCI) | 3 |
| BIO211 Gen Bio 1 Lab | 1 | BIO212 Gen Bio 2 Lab | 1 |
| Total | 15 | Total | 15 |

Year 2

| Fall Semester | | Spring Semester | |
|---|---------|---|---------|
| Course | Credits | Course | Credits |
| CHE318 Organic Chemistry I | 3 | CHE319 Organic Chemistry II | 3 |
| CHE306 Organic Chemistry I Lab | 1 | CHE309 Organic Chemistry II Lab | 1 |
| PHY201 General Physics 1 (NSCI) | 3 | PHY202 General Physics 2 (NSCI) | 3 |
| PHY211 Physics 1 Laboratory | 1 | PHY212 General Physics 2 Lab | 1 |
| MAT341 Applied Mathematics I | 3 | Gen Ed: Foreign Languages (FLNG) | 3 |
| Gen Ed: Foreign Languages (FLNG) | 3 | Gen Ed: Social Sciences (SSCI) | 3 |
| Total | 14 | Total | 14 |

Year 3

| Fall Semester | | Spring Semester | |
|---|---------|---|---------|
| Course | Credits | Course | Credits |
| CHE322 Physical Chemistry II | 3 | CHE321 Physical Chemistry I | 3 |
| Gen Ed: United States Studies (USST) | 3 | CHE323 Experimental Physical Chemistry (WI) | 3 |
| Gen Ed: Diversity (DIVR) | 3 | CHE490 Senior Research in Chemistry | 3 |
| CHE303 Introduction to Analytical Chemistry | 4 | Gen Ed: World Civilizations and Cultures (WRLD) | 3 |
| Elective | 3 | Elective | 3 |
| Total | 16 | Total | 15 |

Year 4

| Fall Semester | | Spring Semester | |
|--|---------|---------------------------------------|---------|
| Course | Credits | Course | Credits |
| BCM461 Biochemistry 1 | 3 | BCM470 Biochemistry 2 | 3 |
| BCM463 Biochemistry Lab | 1 | Gen Ed: The Arts (ART) | 3 |
| CHE314 Inorganic Chemistry | 3 | Gen Ed: Western Civilization (WEST) | 3 |
| BIO320 Genetics | 3 | Electives | 6 |
| Gen Ed: Humanities (HUM) | 3 | Total | 15 |
| Elective | 3 | | |
| Total | 16 | | |

Total Credits: 120