## Chemistry BA Biochemistry Concentration

## 12 Required Core Credits 18 Flexible Core Credits 12 College Option Credits <br> 51 Major Credits 27 <br> Elective Credits

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2023. Our 4-year academic plans are illustrative examples of integrated degree requirements and course sequencing for each of the College's programs of study which are designed to ensure degree completion in a timely manner. Students are advised to meet with professional and faculty advisors to tailor their degree maps to their individual interests (academic and career goals), as well as other considerations including course offerings and the incorporation of winter and summer sessions. Course pre-requisite/s and co-requisite/s are strictly enforced, as are entrance and maintenance criteria (if applicable) for the successful completion of the degree.

## Chemistry BA Biochemistry Concentration

## Freshman

## FALL

| English Composition I (ECI) | 3 credits |
| :--- | :--- |
| MATH I22¥ (MQR) | 4 credits |
| Precalculus |  |
| CHEM II34 \& II3I (LPS) | 5 credits |
| General Chemistry I <br> World Cultures \& Global Issues (WCGI) | 3 credits |
| Fall total credits | I5 credits |

## SPRING

| English Composition II (EC2) | 3 credits |
| :--- | :--- |
| MATH I5I¥ | 4 credits |
| Calculus I | 5 credits |
| CHEM II44 \& II4I (SW) <br> General Chemistry II <br> U.S Experience in its Diversity (USED) | 3 credits |
| Spring total credits | $I 5$ credits |

## Sophomore

## FALL

CHEM 25I4 \& 25II (SCI)
Organic Chemistry 1
MATH I52¥ 4 credits
Calculus II
Creative Expression (CE)
Individual and Society (IS)
Fall total credits
5 credits
3 credits
3 credits
I 5 credits

## SPRING

| CHEM 2524 \& 252 I | 5 credits |
| :--- | :--- |
| Organic Chemistry II |  |
| BIOL I05 (SCI) | 4 credits |
| General Biology I | 3 credits |
| General electives* <br> College Option Language (LANG) | 4 credits |
| Spring total credits | 16 credits |

General Education requirements may be taken in any order if the pre-requisite requirement(s) is/are satisfied.

## Chemistry BA Biochemistry Concentration

## Junior

## FALL

CHEM 33I3 \& 33IIW
Inorganic Chemistry
CHEM 2II
Chemical Thermodynamics and Kinetics
PHYS I454 \& I45I (LPS, SW, SCI)
Principles of Physics I
General electives
Fall total credits

4 credits
4 credits
5 credits
3 credits
16 credits

## SPRING

CHEM 371
Biochemistry I
PHYS I464 \& I46I (LPS, SW, SCI) 5 credits
Principles of Physics II
College Option Literature (LIT + W) 3 credits
With Writing Intensive Unit**
General electives
Spring total credits
I 5 credits

## Senior

## FALL

CHEM 34I3 and 34II
Instrumental Methods
CHEM 376
Biochemistry Laboratory
CHEM 395W Senior Thesis
General electives

Fall total credits
4 credits
2 credits
3 credits
6 credits

I 5 credits

## SPRING

| CHEM 372 | 4 credits |
| :--- | :--- |
| Biochemistry II |  |
| CHEM 378 | 4 credits |
| Physical Biochemistry |  |
| CHEM Elective Laboratory course <br> General electives | 2 credits |
| Spring total credits | 5 credits |
|  | 15 credits |

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[^0]:    *General Electives: Students may complete general electives by taking courses in (most) department/s or programs they choose; however, depending on the course/ program, students may need department permission and/or prerequisite course/s. Electives may be used to supplement the chosen major (an English major may want to take a course in French or Italian literature) or to fulfill interest in a different area (a Music major may be interested in the physics of sound). Students are encouraged to use available electives to complete a dual major, minor, pre-requisites for graduate or professional school, or complete and internship, experiential learning and/or study abroad. Students are encouraged to use their available general electives wisely and focus on coursework that will assist them personally, academically and professionally.
    ** If a Literature course is taken with a W, it will count towards Literature and one Writing Intensive Unit.
    $¥$ Students who fail or withdraw from this course multiple times may be prohibited from majoring in the sciences or mathematics; see your department for questions.

