

QUEENS COLLEGE

# Biology BA

FOUR YEAR ACADEMIC PLAN

12 Required Core Credits

18 Flexible Core Credits

12 College Option Credits

55 Major Credits

23 Elective Credits

*This 4-year academic plan is for freshmen entering Queens College in Fall 2022. 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.*



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## Freshman

### FALL

English Composition I (EC1)	3 credits
MATH 151¥ or MATH 142 †¥ (MQR)	4 credits
Calculus/Differentiation & Integration	
BIOL 105# (SW)	4 credits
General Biology I	
College Option Language (LANG)	4 credits

**Fall total credits** **15 credits**

### SPRING

English Composition II (EC2)	3 credits
(BIOL 13 recommended)	
BIOL 106# (SCI)	4 credits
CHEM 1134+1131 (LPS)	5 credits
General Chemistry I	
Creative Expression (CE)	3 credits

**Spring total credits** **15 credits**

## Sophomore

### FALL

BIOL 286	3/4 credits
Principles of Cell Biology	
OR BIOL 287 Principles of Evol. Biology	
Biology Electives*	4 credits
Laboratory course or Lecture course	
(BIOL 220*/230 recommended)	
CHEM 1144 +1141 (SW)	5 credits
General Chemistry II	
Individual & Society (IS)	3 credits

**Fall total credits** **15 credits**

### SPRING

Principles of Cell Biology	
OR BIOL 285	3/4 credits
Principles of Genetics	
Biology Electives*	4 credits
Laboratory course or Lecture course	
(BIOL 226*/310* recommended)	
Major or non-major Electives***	4/5 credits
(non-major electives MATH 152¥	
or PHYS 121 recommended)	
Major or non-major Electives***	3 credits

**Spring total credits** **15 credits**

† Please speak to the math department or a biology advisor if you are not eligible to take Math151 or MATH 142 in your first semester.

\* Biology major's electives may be Laboratory/Field courses or lecture-only courses. Students must complete at least four (4) courses with a laboratory or field component in this category. At least three (3) electives must be at the 300-level or above. Consult with a biology department advisor in choosing major's elective courses.

\*\* If a Literature course is taken with a W, it will count towards Literature and one Writing Intensive Unit.

# BIOL 105 and BIOL 106 can be taken out of sequence. Students can be registered into BIOL 106 by the department if they cannot get BIOL 105 first.

¥ 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.

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### Junior

#### FALL

Biology Electives*	3/4 credits
Laboratory course or Lecture course (BIOL 385/386/315*/325/365*/373 recommended)	
CHEM 2514 + 2511 (SCI)	4/5 credits
Organic Chemistry I	
OR CHEM 1023+1021	
World Cultures & Global Issues (WCGI)	3/4 credits
Major or non-major Electives***	3/4 credits

**Fall total credits** **15 credits**

#### SPRING

Biology Electives*	4 credits
Laboratory course or Lecture course (BIOL 201*/326*/340/345/350 recommended)	
College Option Literature (LIT+W) With Writing Intensive Unit**	3 credits
US Experience in Its Diversity (USED)	3 credits
Major or non-major Electives***	4 credits
BIOL 381	1 credit
Colloquium in Biology	

**Spring total credits** **15 credits**

### Senior

#### FALL

Biology Electives*	3 credits
Laboratory course or Lecture course (BIOL 363*/366/245 recommended)	
One Writing Intensive Unit (W)	3 credits
Major or non-major Electives***	3/4 credits
Major or non-major Electives***	3/4 credits
Major or non-major Electives***	3/4 credits

**Fall total credits** **15 credits**

#### SPRING

Major or non-major Electives*** (BIOL 362*/367 recommended)	3/4 credits
Major or non-major Electives***	3/4 credits
Major or non-major Electives***	3/4 credits
Major or non-major Electives***	3/4 credits
General Electives***	3 credits

**Spring total credits** **15 credits**

\*\*\*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.