

**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

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120

Total

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2020 plan their academic career and ensure that they complete all requirements for graduation in a timely fashion. All other students should consult their academic and department advisors to chart their own 4-year academic plans. Students should note that course pre-requisite/s and co-requisite/s are strictly enforced and they should regularly meet with their department advisors to identify their specific major/minor requirements and entrance and maintenance criteria (if applicable) for successful completion of their degree.

## QUEENS COLLEGE

# Biology BA

## FOUR YEAR ACADEMIC PLAN

### 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 Math 151 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. BIOL 230 not open to students who have successfully completed any one of the following courses (or their equivalents): ECON 249; MATH 14; MATH 241; PSYCH 107; SOC 205, 306

\*\* 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.



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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***	3/4 credits
(BIOL 362*/367 recommended)	
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.

