QUEENS COLLEGE Biology Secondary Education 7-12 BA FOUR-YEAR ACADEMIC PLAN

2 Required Core Credits 8 Flexible Core Credits 2 College Option Credits 55+27_(SYES) Major Credits **Elective Credits** 120 Total

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2018 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 Secondary Education 7-12 BA

FOUR-YEAR ACADEMIC PLAN

Freshman

FALL

FALL		SPRING	
English Composition I (ECI)	3 credits	English Composition II (EC2)	3 credits
MATH 151† (MQR) Calculus/Differentiation & Integration	4 credits	(BIOL 13 recommended) BIOL 105 (SW)	4 credits
World Cultures & Global Issues (WCGI)	3 credits	General Biology I	
US Experience in Its Diversity (USED)	3 credits	CHEM 1134+1131 (LPS)	5 credits
Individual & Society (IS)	3 credits	General Chemistry I	
		Creative Expression (CE)	3 credits
Fall total credits	l6 credits		
		Spring total credits	15 credits

Sophomore

FALL

BIOL 106 (SCI)	4 credits	BIOL 286	3/4 credits
College Option Literature (LIT+W)	3 credits	Principles of Cell Biology	
With Writing Intensive Unit**		OR BIOL 287 Principles of Evol. Biology	
CHEM 1144 +1141 (SW)	5 credits	Biology Electives*	4 credits
General Chemistry II		Laboratory course or Lecture course	
College Option Language (LANG)	4 credits	(BILO 220*/230 recommended)	
		Biology Electives*	4 credits
Fall total credits	15 credits	Laboratory course or Lecture course	
		(BIOL 226*/310* recommended)	
		BIOL 285	4 credits
		Principles of Genetics	
		Spring total credits	15 credits

SPRING

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

* 16 Biology credits of which at least 2 must be 300 level courses, and 3 must be laboratory courses. It is recommended that these be chosen so that one or more courses are taken in the following 4 categories: Botany, Zoology, Community & Ecosystem Biology, Cell & **Developmental Biology**

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



QUEENS COLLEGE

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FOUR-YEAR ACADEMIC PLAN

Junior

FALL

Biology Electives* Laboratory course or Lecture course	4 credits
(BIOL 385/386/315*/325/365*/373 recommended)	ed)
CHEM 2514 + 2511 (SCI)	, 5 credits
Organic Chemistry I	
OR CHEM 1023+1021	
SEYS 201W (W)	3 credits
Historical, Social & Philosophical	
Foundation of Education	
(approval of SEYS faculty required)	
SEYS 221	3 credits
Development and Learning in Middle	
Childhood & Adolescence	

SPRING

Biology Electives*	4 credits
Laboratory course or Lecture course	
(BIOL 201*/326*/340/345/350 recommended)	
SEYS 340	3 credits
Language, Literacy, & Culture in	
Education	
SEYS 362	3 credits
Methods in Teaching Science in	
Middle & High School	
ECPSE 350	3 credits
Foundations of Special Education	
Major or non-major Electives***	3/4 credits
Spring total credits	l 6 credits

Fall total credits

15 credits

Senior

FALL

Biology Electives*	3 credits
Laboratory course or Lecture course	
(BIOL 363*/366/245 recommended)	
SEYS 372.2	3 credits
Student Teaching Initial Clinical Experience	
in Science for Secondary School	
SEYS 382	3 credits
Curriculum and Assessment in Teaching Science	
SEYS 350	3 credits
Cognition, Technology & Instruction	
For Diverse Learners	
Major or non-major Electives***	3/4 credits

SPRING

Major or non-major Electives*** (BIOL 362*/367 recommended)	3/4 credits
BIOL 381	l credit
Colloquium in Biology	
SEYS 372.4	3 credits
Student Teaching Clinical Experience in	
Science for Secondary School	
Major or non-major Electives***	3/4 credits
Major or non-major Electives***	3/4 credits
Spring total credits	13 credits

Fall total credits

16 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.



