QUEENS COLLEGE

Biology Secondary Education 7-12 BA

FOUR YEAR ACADEMIC PLAN

Required Core Credits

18 Flexible Core Credits

12 College Option Credits

55+27_(SEYS) Major Credits

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

QUEENS COLLEGE

Biology Secondary Education 7-12 BA

FOUR YEAR ACADEMIC PLAN

Freshman

FALL		SPRING	
English Composition I (EC1)	3 credits	English Composition II (EC2)	3 credits
MATH 151†¥ (MQR)	4 credits	(BIOL 13 recommended)	
Calculus/Differentiation & Integration		BIOL 106# (SCI)	4 credits
BIOL 105# (SW)	4 credits	General Biology II	
General Biology I		CHEM 1134+1131 (LPS)	5 credits
World Cultures & Global Issues (WCGI)	3 credits	General Chemistry I	
US Experience in Its Diversity (USED)	3 credits	Creative Expression (CE)	3 credits
Fall total credits	17 credits	Spring total credits	15 credits

Sophomore

FALL		SPRING	
Individual & Society (IS)	3 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

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

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.

BIOL 105 and BIOL 106 can be taken out of sequence. Students can be registered into FOL 1 6 by the department of the cannot the sequence.

¥ Students who fail or withdraw from this course multiple times may be prohibited from major

^{* 16} Biology credits of which at least 2 must be 300 level courses, and 3 must be laboratory courses. It is recommended that

QUEENS COLLEGE

Biology Secondary Education 7-12 BA

SPRING

FOUR YEAR ACADEMIC PLAN

Junior

FALL

Biology Electives*	4 credits	Biology Electives*	4 credits
Laboratory course or Lecture course		Laboratory course or Lecture course	
(BIOL 385/386/315*/325/365*/373 recommended)		(BIOL 201*/326*/340/345/350 recommende	d)
CHEM 2514 + 2511 (SCI)	5 credits	SEYS 340	3 credits
Organic Chemistry I		Language, Literacy, & Culture in	
OR CHEM 1023+1021		Education	
SEYS 201W (W)	3 credits	SEYS 362	3 credits
Historical, Social & Philosophical		Methods in Teaching Science in	
Foundation of Education		Middle & High School	
(approval of SEYS faculty required)		ECPSE 350	3 credits
SEYS 221	3 credits	Foundations of Special Education	
Development and Learning in Middle		Major or non-major Electives***	3/4 credits
Childhood & Adolescence			
Fall total credits	15 credits	Spring total credits	16 credits
Senior			
FALL		SPRING	
Biology Electives*	3 credits	51 Miles	
Laboratory course or Lecture course	5 credits	NA-:	2/4
(BIOL 363*/366/245 recommended)		Major or non-major Electives***	3/4 credits
SEYS 372.2	3 credits	(BIOL 362*/367 recommended)	a lii
Student Teaching Initial Clinical Experience		BIOL 381	1 credits
in Science for Secondary School		Colloquium in Biology	2
SEYS 382	3 credits	SEYS 372.4	3 credits
Curriculum and Assessment in Teaching Sc		Student Teaching Clinical Experience in	
SEYS 350	3 credits	Science for Secondary School	2/4
Cognition, Technology & Instruction	J credits	Major or non-major Electives***	3/4 credits
For Diverse Learners		Major or non-major Electives***	3/4 credits
Major or non-major Electives***	3/4 credits		
	J/ T CI CUILS		
Fall total credits	16 credits	Spring total credits	13 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.



