Biology Secondary Education 7-12 BA FOUR YEAR ACADEMIC PLAN

Required Core Credits
 Flexible Core Credits
 College Option Credits
 College Option Credits
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This 4-year academic plan is for freshmen entering Queens College in Fall 2021. 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





Biology Secondary Education 7-12 BA

FOUR YEAR ACADEMIC PLAN

Freshman

FALL

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

SPRING

SPRING

Sophomore

FALL

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

Spring total credits I5 credits

† 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. 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

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	FALL		SPRING	
	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)		ded)	(BIOL 201*/326*/340/345/350 recommended)	
	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	l6 credits
	Senior			

senior

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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	e
SEYS 350	3 credits
Cognition, Technology & Instruction	
For Diverse Learners	
Major or non-major Electives***	3/4 credits
Fall total credits	16 credits

SPRING

Spring total credits

CDDING

Major or non-major Electives***	3/4 credits
(BIOL 362*/367 recommended)	
BIOL 381	l credits
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

Fall 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.

