QUEENS COLLEGE

Physics Secondary Education 7-12 BA

FOUR-YEAR ACADEMIC PLAN

- Required Core Credits
- Flexible Core Credits
- College Option Credits
- 45+27_(SEYS) Major Credits
 - 6 Elective Credits

120 Total

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2019 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.





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FOUR-YEAR ACADEMIC PLAN

Freshman

FALL

English Composition I (ECI)

MATH 151 (MQR)

SPRING

English Composition II (EC2)

PHYS 1454 & 1451 (LPS)

Calculus I Principles of Physics I
World Cultures & Global Issues (WCGI) 3 credits MATH 152

U.S Experience in its Diversity (USED) 3 credits Calculus II

Creative Expression (CE) 3 credits Individual and Society (IS) 3 credits

Fall total credits 16 credits Spring total credits 15 credits

Sophomore

FALL SPRING

PHYS 1464 & 1461 (SCI)	5 credits	Scientific World (SW)	3 credits
Principles of Physics II		College Option Literature (LIT + W)	3 credits
MATH 201	4 credits	With Writing Intensive Unit*	
Calculus III		College Option Language (LANG)	4 credits
An Additional Flexible Core	3 credits	ASTR 2 (SCI)	4 credits
General elective	3 credits	General Astronomy with Laboratory	
		General elective	l credit
Fall total credits	15 credits		
		Spring total credits	15 credits

General Education requirements may be taken in any order if the pre-requisite requirement(s) is/are satisfied.

Completion of 21 credits in major with 2.75 GPA or higher 3.0 GPA in SEYS courses required to continue in program



3 credits

5 credits

4 credits

 $^{^{}st}$ If a Literature course is taken with a W, it will count towards Literature and one Writing Intensive Unit.

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FOUR-YEAR ACADEMIC PLAN

Junior

FALL

SEYS 350

For Diverse Learners

PHYS 233.I	l credits	PHYS 235	2 credits
Mathematical Methods I		Classical Physics LAB	
PHYS 260	4 credits	PHYS 225	4 credits
Modern Physics		Solid State Physics	
PHYS 242	3 credits	SEYS 340	3 credits
Thermodynamics		Language, Literacy, & Culture in	
PHYS 220W	2 credits	Education	
Current Issues in Physics		SEYS 362	3 credits
SEYS 201W (W)	3 credits	Methods in Teaching Science in	
Historical, Social, and Philosophical		Middle & High School	
Foundations of Education		ECPSE 350	3 credits
SEYS 221	3 credits	Foundations of Special Education	
Development and Learning in Middle Child		·	
and Adolescence		Spring total credits	15 credits
Fall total credits	16 credits		
Senior			
FALL		SPRING	
PHYS 222	3 credits	PHYS Elective	6 credits
Optics		200 or above	
PHYS 237	4 credits	SEYS 372.4	3 credits
Mechanics		Student Teaching Clinical Experience in	
SEYS 372.2	3 credits	Science for Secondary School	
Student Teaching Initial Clinical Experience		General electives*	6 credits
in Science for Secondary School			
SEYS 382	3 credits	Spring total credits	15 credits
Curriculum and Assessment in Teaching Scient	nce		

SPRING

Fall total credits 16 credits

Cognition, Technology & Instruction

3 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.