#### **QUEENS COLLEGE**

## Physics Secondary Education 7-12 BA

12	Required Core Credits
18	Flexible Core Credits
12	College Option Credits
45+2	7(SEYS) Major Credits
6	Elective Credits

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2023. 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 degree.





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### Freshman

Fall total credits	16 credits	Spring total credits	15 credits
Creative Expression (CE)	3 credits	Individual and Society (IS)	3 credits
U.S Experience in its Diversity (USED)	3 credits	Calculus II	
World Cultures & Global Issues (WCGI)	3 credits	MATH 152¥	4 credits
Calculus I		Principles of Physics I	
MATH I5I¥ (MQR)	4 credits	PHYS 1454 & 1451 (LPS)	5 credits
English Composition I (ECI)	3 credits	English Composition II (EC2)	3 credits
FALL		SPRING	

### Sophomore

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

¥ Students who fail or withdraw from this course multiple times may be prohibited from majoring in the sciences or mathematics; see your department for questions.





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

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### Junior

#### FALL SPRING

PHYS 233.1	I credit	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 Ch	ild		
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	е	General electives*	6 credits
in Science for Secondary School			
SEYS 382	3 credits	Spring total credits	15 credits
Curriculum and Assessment in Teaching S	cience		
SEYS 350	3 credits		

Cognition, Technology & Instruction

For Diverse Learners

Fall total credits 16 credits

<sup>\*\*</sup>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.



