#### **QUEENS COLLEGE**

# Physics BA

12	Required Core Credits
18	Flexible Core Credits
12	College Option Credits
57	Major Credits
21	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 credit	Individual and Society (IS)	3 credit
U.S Experience in its Diversity (USED)	3 credit	Calculus II	
World Cultures & Global Issues (WCGI)	3 credit	MATH 152¥	4 credit
Calculus I		Principles of Physics I	
MATH I51¥ (MQR)	4 credit	PHYS 1454 & 1451 (LPS)	5 credit
English Composition I (ECI)	3 credit	English Composition II (EC2)	3 credit
FALL		SPRING	

## Sophomore

FALL		SPRING	
PHYS 1464 & 1461 (SCI) Principles of Physics II	5 credits	PHYS 234 Mathematical Methods II	3 credits
MATH 201¥	4 credits	Scientific World (SW)	3 credits
Calculus III		College Option Literature (LIT + W)	3 credits
An Additional Flexible Core	3 credits	With Writing Intensive Unit*	
One Writing Intensive Unit (W)	3 credits	College Option Language (LANG)	4 credits
		An Additional College Core	3 credits
Fall total credits	15 credits	·	
		Spring total credits	16 credits

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





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

<sup>¥</sup> 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.

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## Junior

FALL		SPRING	
PHYS 233	3 credits	PHYS 235	2 credits
Mathematical Methods I		Classical Physics LAB	
PHYS 260	4 credits	PHYS 237	4 credits
Modern Physics		Mechanics	
PHYS 242	3 credits	General electives	9 credits
Thermodynamics			
PHYS 222	3 credits	Spring total credits	15 credits
Optics			
General electives**	3 credits		
Fall total credits	16 credits		

### Senior

FALL		SPRING	
PHYS 310 Electromagnetism I	4 credits	PHYS Elective 200 or above	3 credits
PHYS 365 Quantum Mechanics	4 credits	General electives*	I2 credits
PHYS 377 Modern Physics LAB	2 credits	Spring total credits	15 credits
General electives	5 credits		
Fall total credits	15 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.



