QUEENS COLLEGE

Physics BS

FOUR-YEAR ACADEMIC PLAN

12	Required Core Credits
18	Flexible Core Credits
12	College Option Credits
69	Major Credits
9	Elective Credits

This 4-year academic plan is for freshmen entering Queens College in Fall 2025.

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

English Composition I (ECI) 3 credits English Composition II (EC2) 3 credits MATH I51¥ (MQR) 4 credits PHYS 1454 & 1451 (LPS) 5 credits Calculus I Principles of Physics I World Cultures & Global Issues (WCGI) 3 credits MATH 152¥ 4 credits U.S Experience in its Diversity (USED) 3 credits Calculus II Creative Expression (CE) 3 credits Individual and Society (IS) 3 credits

SPRING

Fall total credits 16 credits Spring total credits 15 credits

Sophomore

FALL		SPRING	
PHYS 1464 & 1461 (SCI)	5 credits	PHYS 234	3 credits
Principles of Physics II		Mathematical Methods II	
MATH 201¥	4 credits	PHYS 235	2 credits
Calculus III		Classical Physics LAB	
An Additional Flexible Core	3 credits	Scientific World (SW)	3 credits
One Writing Intensive Unit (W)	3 credits	College Option Literature (LIT + W)	3 credits
		With Writing Intensive Unit*	
Fall total credits	15 credits	College Option Language (LANG)	4 credits
		Spring total credits	15 credits

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



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

[¥] 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 237	4 credits
Mathematical Methods I		Mechanics	
PHYS 260	4 credits	Science/Math Elective	3 credits
Modern Physics		(Department approval needed)	
PHYS 243	4 credits	An Additional College Core	3 credits
Thermodynamics		PHYS 310	4 credits
PHYS 222	3 credits	Electromagnetism I	
Optics		General electives**	2 credits
Fall total credits	I4 credits	Spring total credits	I6 credits

CDDING

Senior

FALL		SPRING	
PHYS 311	4 credits	PHYS 345	4 credits
Electromagnetism II		Solid State Physics	
PHYS 377	2 credits	PHYS 365	4 credits
Modern Physics LAB		Quantum Mechanics	
Physics Elective	3 credits	General electives	7 credits
200 or above			
General electives	6 credits	Spring total credits	15 credits
Fall total credits	I5 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.

