

QUEENS COLLEGE

Physics BA

FOUR-YEAR ACADEMIC PLAN

12

Required Core Credits

18

Flexible Core Credits

12

College Option Credits

57

Major Credits

21

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 (EC1)	3 credits
MATH 151¥ (MQR)	4 credits
Calculus I	
World Cultures & Global Issues (WCGI)	3 credits
U.S Experience in its Diversity (USED)	3 credits
Creative Expression (CE)	3 credits

Fall total credits

16 credits

SPRING

English Composition II (EC2)	3 credits
PHYS 1454 & 1451 (LPS)	5 credits
Principles of Physics I	
MATH 152¥	4 credits
Calculus II	
Individual and Society (IS)	3 credits

Spring total credits

15 credits

Sophomore

FALL

PHYS 1464 & 1461 (SCI)	5 credits
Principles of Physics II	
MATH 201¥	4 credits
Calculus III	
An Additional Flexible Core	3 credits
One Writing Intensive Unit (W)	3 credits

Fall total credits

15 credits

SPRING

PHYS 234	3 credits
Mathematical Methods II	
Scientific World (SW)	3 credits
College Option Literature (LIT + W)	3 credits
With Writing Intensive Unit*	
College Option Language (LANG)	4 credits
An Additional College Core	3 credits

Spring total credits

16 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

PHYS 233	3 credits
Mathematical Methods I	
PHYS 260	4 credits
Modern Physics	
PHYS 242	3 credits
Thermodynamics	
PHYS 222	3 credits
Optics	
General electives**	3 credits

Fall total credits

16 credits

SPRING

PHYS 235	2 credits
Classical Physics LAB	
PHYS 237	4 credits
Mechanics	
General electives	9 credits

Spring total credits

15 credits

Senior

FALL

PHYS 310	4 credits
PHYS 377	2 credits
Modern Physics LAB	
General electives	9 credits

Fall total credits

15 credits

SPRING

PHYS Elective	3 credits
200 or above	
Electromagnetism I	
PHYS 365	4 credits
Quantum Mechanics	
General electives*	8 credits

Spring total credits

15 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.