QUEENS COLLEGE

Physics Secondary Education 7-12 BA

FOUR-YEAR ACADEMIC PLAN

12 Required Core Credits

18 Flexible Core Credits

12 College Option Credits

45+27 (SEYS) Major Credits

6 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) Calculus I	4 credits
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) Principles of Physics I	5 credits
MATH 152¥ Calculus II	4 credits
Individual and Society (IS)	3 credits
Spring total credits	**15 credits**

Sophomore

FALL

PHYS 1464 & 1461 (SCI) Principles of Physics II	5 credits
MATH 201¥ Calculus III	4 credits
An Additional Flexible Core	3 credits
General elective	3 credits
Fall total credits	**15 credits**

SPRING

Scientific World (SW)	3 credits
College Option Literature (LIT + W) With Writing Intensive Unit*	3 credits
College Option Language (LANG)	4 credits
ASTR 2 (SCI) General Astronomy with Laboratory	4 credits
General elective	1 credit
Spring total credits	**15 credits**

All students are required to complete 100 hours of fieldwork prior to Student Teaching I.

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.
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.

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Junior

FALL

PHYS 233.1 Mathematical Methods I	1 credits
PHYS 260 Modern Physics	4 credits
PHYS 242 Thermodynamics	3 credits
PHYS 220W Current Issues in Physics	2 credits
SEYS 201W (W) Historical, Social, and Philosophical Foundations of Education	3 credits
SEYS 221 Development and Learning in Middle Child and Adolescence	3 credits

Fall total credits **16 credits**

SPRING

PHYS 235 Classical Physics LAB	2 credits
PHYS 225 Solid State Physics	4 credits
SEYS 340 Language, Literacy, & Culture in Education	3 credits
SEYS 362 Instructional Methods in Middle Childhood and Adolescent Science and Technology Education	3 credits
ECPSE 350 Foundations of Special Education	3 credits

Spring total credits **15 credits**

Senior

FALL

PHYS 222 Optics	3 credits
PHYS 237 Mechanics	4 credits
SEYS 372.2 Student Teaching I in Science and Technology for Middle and High School	3 credits
SEYS 382 Instruction and Assessment in Teaching Science and Technology to Middle Childhood and Adolescent Students	3 credits
SEYS 350 Cognition, Technology & Instruction For Diverse Learners	3 credits

Fall total credits **16 credits**

SPRING

PHYS Elective 200 or above	6 credits
SEYS 372.4 Student Teaching II in Science and Technology for Middle and High School	3 credits
General electives*	6 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.

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