QUEENS COLLEGE

Physics Secondary Education 7-12 BA

FOUR-YEAR ACADEMIC PLAN

Required Core Credits
Flexible Core Credits
College Option Credits
College Option Credits
Flexible Core Credits

This 4-year academic plan is for freshmen entering Queens College in Fall 2024.

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

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 151¥ (MQR)	4 credits	PHYS 1454 & 1451 (LPS)	5 credits
English Composition I (EC1)	3 credits	English Composition II (EC2)	3 credits

SPRING

SPRING

Sophomore

FALL

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

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

FA	_

PHYS 233.1	l credits	PHYS 235
Mathematical Methods I		Classical Physics LAB
PHYS 260	4 credits	PHYS 225
Modern Physics		Solid State Physics
PHYS 242	3 credits	SEYS 340
Thermodynamics		Language, Literacy, & Culture in
PHYS 220W	2 credits	Education
Current Issues in Physics		SEYS 362
SEYS 201W (W)	3 credits	Methods in Teaching Science in
Historical, Social, and Philosophical		Middle & High School
Foundations of Education		ECPSE 350
SEYS 221	3 credits	Foundations of Special Education
Development and Learning in Middle Child		
and Adolescence		Spring total credits

Fall total credits

I6 credits

Senior

FALL	
PHYS 222	3 credits
Optics	
PHYS 237	4 credits
Mechanics	
SEYS 372.2	3 credits
Student Teaching Initial Clinical Experience	
in Science for Secondary School	
SEYS 382	3 credits
Curriculum and Assessment in Teaching Science	
SEYS 350	3 credits
Cognition, Technology & Instruction	
For Diverse Learners	

SPRING

SPRING

PHYS Elective	6 credits
200 or above	
SEYS 372.4	3 credits
Student Teaching Clinical Experience in	
Science for Secondary School	
General electives*	6 credits

2 credits

4 credits

3 credits

3 credits

3 credits

15 credits

Spring total credits 15 credits

Fall total credits

I6 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.

