QUEENS COLLEGE Applied Physics BA

FOUR YEAR ACADEMIC PLAN

Required Core Credits
Flexible Core Credits
College Option Credits
Major Credits
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

F

FALL		SPRING	
English Composition I (ECI)	3 credits	English Composition II (EC2)	3 credits
MATH 151¥ (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
Fall total credits	l6 credits	Spring total credits	15 credits

Sophomore

FALL		SPRING	
PHYS 1464 & 1461 (SCI) Principles of Physics II	5 credits	PHYS 225 Solid State Electronics	4 credits
MATH 201 Calculus III	4 credits	PHYS 235 Classical Physics LAB	2 credits
An Additional Flexible Core	3 credits	Scientific World (SW)	3 credits
One Writing Intensive Unit (W)	3 credits	College Option Literature (LIT + W) With Writing Intensive Unit*	3 credits
Fall total credits	15 credits	College Option Language (LANG)	4 credits
		Spring total credits	l6 credits

¥The following sequences of classes are considered the equivalents of MATH 151 and MATH 152: MATH 141, 142, and 143; MATH 131, 132, and 143; MATH 151, 142, and 143, MATH 157 and 158.

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.





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Junior

FALL

SPRING	

Fall total credits	l6 credits		
General electives**	3 credits		
Thermodynamics An Additional College Core	3 credits	Spring total credits	l6 credits
PHYS 242	3 credits	General electives	9 credits
Modern Physics		200 or above	
PHYS 260	4 credits	Physics Elective	3 credits
Mathematical Methods I		Mechanics	
PHYS 233	3 credits	PHYS 237	4 credits

Fall total credits

Senior

SPRING FALL 4 credits Science/Math Elective **PHYS 310** 3 credits Electromagnetism I (Department approval needed) **PHYS 377** 2 credits Physics Elective 3 credits Modern Physics LAB 200 or above 3 credits General electives* 6 credits Physics Elective 200 or above General electives 6 credits **Spring total credits** 12 credits Fall 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.



