QUEENS COLLEGE

Physics BS

FOUR-YEAR ACADEMIC PLAN

1 2	Required Core Credits
18	Flexible Core Credits
12	College Option Credits
69	Major Credits

9 Elective Credits

120 Tota

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2017 plan their academic career and ensure that they complete all requirements for graduation in a timely fashion. All other students should consult their academic and department advisors to chart their own 4-year academic plans. Students should note that course prerequisite/s and corequisite/s are strictly enforced, and they should regularly meet with their department advisors to identify their specific major/minor requirements and entrance and maintenance criteria (if applicable) for successful completion of their degree.





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Freshman

FALL		SPRING	
English Composition I (ECI)	3 credits	English Composition II (EC2)	3 crs
MATH 151 (MQR)	4 credits	PHYS 1454 & 1451 (LPS)	5 crs
Calculus I		Principles of Physics I	
World Cultures & Global Issues (WCGI)	3 credits	MATH 152	4 crs
U.S Experience in its Diversity (USED)	3 credits	Calculus II	
Creative Expression (CE)	3 credits	Individual and Society (IS)	3 crs
Fall total credits	16 credits	Spring total credits	15 credits

Sophomore

	SPRING	
5 credits	PHYS 234	3 credits
	Mathematical Methods II	
4 credits	PHYS 235	2 credits
	Classical Physics LAB	
3 credits	Scientific World (SW)	3 credits
3 credits	College Option Literature (LIT + W)	3 credits
	With Writing Intensive Unit*	
15 credits	College Option Language (LANG)	4 credits
	Spring total credits	15 credits
	4 credits 3 credits 3 credits	5 credits PHYS 234 Mathematical Methods II 4 credits PHYS 235 Classical Physics LAB 3 credits Scientific World (SW) 3 credits College Option Literature (LIT + W) With Writing Intensive Unit* College Option Language (LANG)

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	
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		General electives**	6 credits
PHYS 222	3 credits		
Optics		Spring total credits	16 credits
Fall total credits	14 credits		

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Senior

FALL		SPRING	
PHYS 310	4 credits	PHYS 311	4 credits
Electromagnetism I		Electromagnetism II	
PHYS 365	4 credits	PHYS 345	4 credits
Quantum Mechanics		Solid State Physics	
PHYS 377	2 credits	General electives	7 credits
Modern Physics LAB			
Physics Elective	3 credits	Spring total credits	15 credits
200 or above			
General electives	3 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, prerequisites for graduate or professional school, or complete an 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.



