QUEENS COLLEGE

Physics BS

FOUR-YEAR ACADEMIC PLAN

120

12	Required Core Credits
81	Flexible Core Credits
12	College Option Credits
69	Major Credits
9	Elective Credits
120	

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2018 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 pre-requisite/s and co-requisite/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.

Total



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Freshman

FALL

FALL		SPRING	
English Composition I (ECI)	3 credits	English Composition II (EC2)	3 credits
MATH 151 (MQR) Calculus I	4 credits	PHYS 1454 & 1451 (LPS) Principles of Physics I	5 credits
World Cultures & Global Issues (WCGI)	3 credits 3 credits	MATH 152	4 credits
U.S Experience in its Diversity (USED) Creative Expression (CE)	3 credits	Calculus II Individual and Society (IS)	3 credits
Fall total credits	l6 credits	Spring total credits	15 credits

CDDINC

SPRING

Sophomore FALL

PHYS 1464 & 1461 (SCI) Principles of Physics II	5 credits	PHYS 234 Mathematical Methods II	3 credits
MATH 201	4 credits	PHYS 235	2 credits
Calculus III		Classical Physics LAB	
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	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.





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Junior

FALL

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		

SPRING

Senior

FALL

SPRING

PHYS 310 Electromagnetism 1	4 credits		
PHYS 365 Quantum Mechanics	4 credits	PHYS 311 Electromagnetism II	4 credits
PHYS 377 Modern Physics LAB	2 credits	PHYS 345 Solid State Physics	4 credits
Physics Elective 200 or above	3 credits	General electives	5 credits
General electives	3 credits	Spring total credits	13 credits
Fall total credits	l6 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.

