## QUEENS COLLEGE Applied Physics BA FOUR YEAR ACADEMIC PLAN

12	Required Core Credits
81	Flexible Core Credits
12	College Option Credits
60	Major Credits
18	Elective Credits
120	Total

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2020 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.





# **QUEENS COLLEGE Applied Physics BA**

FOUR YEAR ACADEMIC PLAN

## Freshman

#### FALL

English Composition I (EC1) MATH 151¥ (MQR)	3 credits 4 credits	English Composition II (EC2) PHYS 1454 & 1451 (LPS)	3 credits 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	I5 credits

## Sophomore

#### FALL PHYS 1464 & 1461 (SCI) Principles of Physics II MATH 201 Calculus III An Additional Flexible Core

One Writing Intensive Unit (W)

Fall total credits

#### SPRING

5 credits	PHYS 225	4 credits
	Solid State Electronics	
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** 

16 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

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	
Mathematical Methods I PHYS 260	4 credits	Mechanics Physics Elective	3 credits
PHYS 233	3 credits	PHYS 237	4 credits

### Senior

FALL		SPRING	
PHYS 310 Electromagnetism 1	4 credits	Science/Math Elective (Department approval needed)	3 credits
PHYS 377 Modern Physics LAB	2 credits	Physics Elective 200 or above	3 credits
Physics Elective 200 or above	3 credits	General electives*	6 credits
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.



