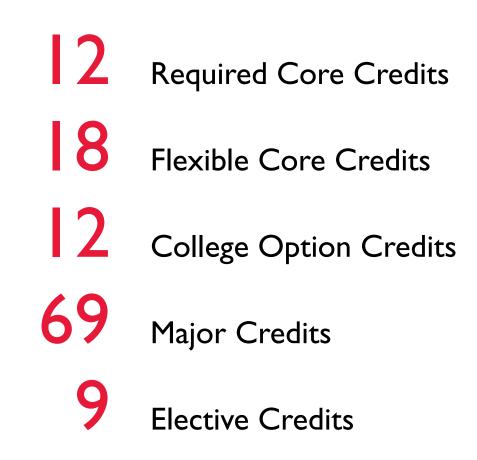
**QUEENS COLLEGE** 

## **Physics BS**

FOUR-YEAR ACADEMIC PLAN



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.



### **QUEENS COLLEGE**

# **Physics BS**

### FOUR-YEAR ACADEMIC PLAN

## Freshman

#### FALL

English Composition I (ECI)	3 credits	English Composition II (EC2)	3 credits
MATH ISI¥ (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

SPRING

## Sophomore

FALL		SPRING	
PHYS 1464 & 1461 (SCI) Principles of Physics II	5 credits	PHYS 234 Mathematical Methods II	3 credits
MATH 201¥ Calculus III	4 credits	PHYS 235	2 credits
An Additional Flexible Core	3 credits	Classical Physics LAB 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

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.

¥ 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.



15 credits

### **QUEENS COLLEGE**

## **Physics BS**

### FOUR-YEAR ACADEMIC PLAN

## Junior

FA	L	L	

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	l6 credits
Fall total credits	14 credits		

SPRING

## 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	6 credits
Modern Physics LAB			
Physics Elective	3 credits	Spring total credits	14 credits
200 or above			
General electives	3 credits		
Fall total credits	l 6 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.

