OUEENS COLLEGE Physics Secondary Education 7-12 BA FOUR YEAR ACADEMIC PLAN

Required Core Credits
Flexible Core Credits
College Option Credits
College Option Credits
Elective Credits

This 4-year academic plan is for freshmen entering Queens College in Fall 2021. 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 corequisite/s are strictly enforced, as are entrance and maintenance criteria (if applicable) for the successful completion of the degree.



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Freshman

FALL

English Composition I (ECI) MATH 151 (MQR)	3 credits 4 credits
Calculus I	
World Cultures & Global Issues (WC	CGI) 3 credits
U.S Experience in its Diversity (USED	D) 3 credits
Creative Expression (CE)	3 credits

Fall total credits

SPRING

SPRING

l6 credits	Spring total credits	15 credits
dits	Individual and Society (IS)	3 credits
3 credits	Calculus II	
3 credits	MATH 152	4 credits
	Principles of Physics I	
4 credits	PHYS 1454 & 1451 (LPS)	5 credits
3 credits	English Composition II (EC2)	3 credits

Sophomore

FALL

PHYS 1464 & 1461 (SCI) Principles of Physics II MATH 201 Calculus III An Additional Flexible Core General elective	5 credits 4 credits 3 credits 3 credits	Scientific World (SW) College Option Literature (LIT + W) With Writing Intensive Unit [*] College Option Language (LANG) ASTR 2 (SCI) General Astronomy with Laboratory General elective	3 credits 3 credits 4 credits 4 credits 1 cr
Fall total credits	15 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.

Completion of 21 credits in major with 2.75 GPA or higher 3.0 GPA in SEYS courses required to continue in program



Physics Secondary Education 7-12 BA

FOUR YEAR ACADEMIC PLAN

Junior

FALL

PHYS 233.1	l credits		
Mathematical Methods I		SPRING	
PHYS 260	4 credits	PHYS 235	2 credits
Modern Physics		Classical Physics LAB	
PHYS 242	3 credits	PHYS 225	4 credits
Thermodynamics		Solid State Physics	
PHYS 220W	2 credits	SEYS 340	3 credits
Current Issues in Physics		Language, Literacy, & Culture in	
SEYS 201W (W)	3 credits	Education	
Historical, Social, and Philosophical		SEYS 362	3 credits
Foundations of Education		Methods in Teaching Science in	
SEYS 221	3 credits	Middle & High School	
Development and Learning in Middle Child		ECPSE 350	3 credits
and Adolescence		Foundations of Special Education	
Eall total avadita	14 quadita	Spring total credits	15 credits
Senior			

FALL

PHYS 222	3 credits
Optics	
PHYS 237	4 credits
Mechanics	
SEYS 372.2	3 credits
Student Teaching Initial Clinical Experience	
in Science for Secondary School	
SEYS 382	3 credits
Curriculum and Assessment in Teaching Science	
SEYS 350	3 credits
Cognition, Technology & Instruction	
For Diverse Learners	

SPRING

Spring total credits	15 credits
General electives*	6 credits
Science for Secondary School	
Student Teaching Clinical Experience in	
SEYS 372.4	3 credits
200 or above	
PHYS Elective	6 credits

Fall total credits

16 credite

**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.

