QUEENS COLLEGE

Physics Secondary Education 7-12 BA

FOUR-YEAR ACADEMIC PLAN

I 2 Required Core Credits
I 8 Flexible Core Credits
I 2 College Option Credits
45+27_(SEYS) Major Credits
6 Elective Credits
I 20 Total

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.



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Freshman

FALL

FALL		SPRING	
English Composition I (ECI)	3 credits	English Composition II (EC2)	3 credits
MATH 151 (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	l 6 credits	Spring total credits	15 credits

CODINIC

Sophomore

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

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



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SPRING

SPRING

PHYS Elective

200 or above SEYS 372.4

General electives*

Spring total credits

Student Teaching Clinical Experience in

Science for Secondary School

FOUR-YEAR ACADEMIC PLAN

Junior

FALL

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

Fall total credits

16 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	

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.





2 credits

4 credits

3 credits

3 credits

3 credits

15 credits

6 credits

3 credits

6 credits

15 credits