# Physics Secondary Education 7-I2 BA 

## 12 Required Core Credits $\mid 8$ Flexible Core Credits 12 College Option Credits $45+27_{(S E Y S)}$ Major Credits

6

## 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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# Physics Secondary Education 7-I2 BA 

FOUR YEAR ACADEMIC PLAN

## Freshman

## FALL

| English Composition I (ECI) | 3 credits |
| :--- | ---: |
| MATH I5I (MQR) | 4 credits |
| Calculus I |  |
| World Cultures \& Global Issues (WCGI) | 3 credits |
| U.S Experience in its Diversity (USED) 3 credits <br> Creative Expression (CE) 3 credits |  |
| Fall total credits | 16 credits |

## Sophomore

## FALL

PHYS I464 \& I46I (SCI)
Principles of Physics II MATH 20I
Calculus III
An Additional Flexible Core
General elective
Fall total credits

## SPRING

| English Composition II (EC2) | 3 credits <br> PHYS I454 \& I45 (LPS) |
| :--- | :---: |
| Principles of Physics I |  |
| MATH I52 <br> Calculus II <br> Individual and Society (IS) | 4 credits |
| Spring total credits | 3 credits |

## SPRING

15 credits

| Scientific World (SW) | 3 credits |
| :--- | ---: |
| College Option Literature (LIT + W) | 3 credits |
| With Writing Intensive Unit* |  |
| College Option Language (LANG) | 4 credits |
| ASTR 2 (SCI) <br> General Astronomy with Laboratory <br> General elective | 4 credits |

Spring total credits

15 credits

[^0]* 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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# Physics Secondary Education 7-I2 BA <br> FOUR YEAR ACADEMIC PLAN 

## Junior

## FALL

PHYS 233.I I credits
Mathematical Methods I
PHYS 260
Modern Physics
PHYS 242
Thermodynamics
PHYS 220W
Current Issues in Physics
SEYS 20IW (W)
Historical, Social, and Philosophical
Foundations of Education
SEYS 221
Development and Learning in Middle Child and Adolescence


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

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**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.


[^0]:    General Education requirements may be taken in any order if the pre-requisite requirement(s) is/are satisfied.

