## Physics Secondary Education 7-I2 BA

## 12 Required Core Credits <br> 18Flexible Core Credits

## 12 <br> College Option Credits

## $45+27_{(\text {SEYS })}$ Major Credits

## 6 <br> Elective Credits

## 120 ma

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2019 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.

## Physics Secondary Education 7-I2 BA

## Freshman

## FALL

English Composition I (ECI)
MATH I5I (MQR)
Calculus I
World Cultures \& Global Issues (WCGI)
U.S Experience in its Diversity (USED)

Creative Expression (CE)
Fall total credits

## SPRING

| English Composition II (EC2) | 3 credits |
| :--- | ---: |
| PHYS I454 \& I45I (LPS) | 5 credits |
| Principles of Physics I | 4 credits |
| MATH I52 <br> Calculus II <br> Individual and Society (IS) | 3 credits |

Spring total credits
15 credits

## Sophomore

## FALL

PHYS I464 \& I46I (SCI)
Principles of Physics II
MATH 201
Calculus III
An Additional Flexible Core
General elective
Fall total credits

## SPRING

| 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) | 4 credits |
| General Astronomy with Laboratory |  |
| General elective | I credit |
| Spring total credits | credits |

[^0]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-I2 BA

FOUR-YEAR ACADEMIC PLAN

## Junior

FALL
PHYS 233.1
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 22I
Development and Learning in Middle Child and Adolescence

## Fall total credits

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

Fall total credits
16 credits

## SPRING

| I credits | PHYS 235 | 2 credits |
| :---: | :---: | :---: |
|  | Classical Physics LAB |  |
| 4 credits | PHYS 225 | 4 credits |
|  | Solid State Physics |  |
| 3 credits | SEYS 340 | 3 credits |
|  | Language, Literacy, \& Culture in |  |
| 2 credits | Education |  |
|  | SEYS 362 | 3 credits |
| 3 credits | Methods in Teaching Science in |  |
|  | Middle \& High School |  |
|  | ECPSE 350 | 3 credits |
| 3 credits | Foundations of Special Education |  |
|  | Spring total credits | 15 credits |

## SPRING

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

Spring total credits
15 credits

[^1]
[^0]:    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.

[^1]:    **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.

