## Physics BA

## 12 Required Core Credits <br> Flexible Core Credits <br> 12 <br> College Option Credits <br> 57 <br> Major Credits <br> 21 <br> Elective Credits

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2023. 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.

## Physics BA

## Freshman

## FALL

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

## Sophomore

## FALL

PHYS I464 \& I46I (SCI)
Principles of Physics II
MATH 20I¥
Calculus III
An Additional Flexible Core
One Writing Intensive Unit (W)

Fall total credits

## SPRING

| English Composition II (EC2) | 3 credit |
| :--- | :--- |
| PHYS I454 \& I45 I (LPS) | 5 credit |
| Principles of Physics I | 4 credit |
| MATH I52¥ |  |
| Calculus II <br> Individual and Society (IS) <br> Spring total credits | 3 credit |
| I5 credits |  |

## SPRING

| PHYS 234 | 3 credits |
| :--- | :--- |
| Mathematical Methods II |  |
| Scientific World (SW) | 3 credits |
| College Option Literature (LIT + W) | 3 credits |
| With Writing Intensive Unit* |  |
| College Option Language (LANG) | 4 credits |
| An Additional College Core | 3 credits |

Spring total credits 16 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.

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## Physics BA

## Junior

## FALL

| PHYS 233 | 3 credits |
| :---: | :---: |
| Mathematical Methods I |  |
| PHYS 260 | 4 credits |
| Modern Physics |  |
| PHYS 242 | 3 credits |
| Thermodynamics |  |
| PHYS 222 | 3 credits |
| Optics |  |
| General electives** | 3 credits |
| Fall total credits | 16 cred |

## SPRING

| PHYS 235 | 2 credits |
| :--- | :--- |
| Classical Physics LAB | 4 credits |
| PHYS 237 |  |
| Mechanics <br> General electives | 9 credits |
| Spring total credits | $\mathbf{1 5}$ credits |

2 credits
4 credits
9 credits

I 5 credits

## Senior

## FALL

| PHYS 310 | 4 credits |
| :--- | :--- |
| Electromagnetism I | 4 credits |
| PHYS 365 <br> Quantum Mechanics <br> PHYS 377 <br> Modern Physics LAB <br> General electives | 2 credits |
| Fall total credits | 5 credits |

## SPRING

| PHYS Elective | 3 credits |
| :--- | :--- |
| 200 or above |  |
| General electives* | 12 credits |
| Spring total credits | 15 credits |

I 5 credits

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[^0]:    **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.

