QUEENS COLLEGE

Biology Secondary Education 7-12 BA

| 12 | Required Core Credits |
|------|------------------------|
| 18 | Flexible Core Credits |
| 12 | College Option Credits |
| 57+2 | 27(SEYS)Major Credits |
| 0 | 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.





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Freshman

FALL

FALL SPRING

| English Composition I (ECI) | 3 credits | English Composition II (EC2) | 3 credits |
|--|----------------|---------------------------------|------------|
| MATH 132, or 142 or 151, or BIOL 230†¥ | (MQR)4 credits | (BIOL 13 recommended) | |
| Calculus/Differentiation & Integration | | BIOL 106# (SCI) | 4 credits |
| BIOL 105# (SW) | 4 credits | General Biology II | |
| General Biology I | | CHEM 1011+1013 (LPS) | 4 credits |
| World Cultures & Global Issues (WCGI) | 3 credits | Basic Chemistry I | |
| US Experience in Its Diversity (USED) | 3 credits | Creative Expression (CE) | 3 credits |
| | | Major or non-major Electives*** | 3 credits |
| Fall total credits | 17 credits | | |
| | | Spring total credits | 17 credits |

Sophomore

| Biology Electives* | 4 credits | BIOL 285 | 4/3 credits |
|-----------------------------------|------------|-------------------------------------|-------------|
| College Option Literature (LIT+W) | 3 credits | Principles of Genetics | |
| With Writing Intensive Unit** | | OR BIOL 286 OR BIOL 287 (2 of 3) | |
| CHEM 1021+1023 (SW) | 4 credits | BIOL 285 | 4/3 credits |
| Basic Chemistry II | | Principles of Genetics | |
| College Option Language (LANG) | 4 credits | OR BIOL 286 OR BIOL 287 (2 of 3) | |
| | | Biology Electives* | 4 credits |
| Fall total credits | 15 credits | Laboratory course or Lecture course | |
| | | Biology Electives* | 4 credits |
| | | Laboratory course or Lecture course | |
| | | Spring total credits | I6 credits |

SPRING

Also required are 16 credits in major-level courses in the following cognate departments: Chemistry & Biochemistry; Computer Science; Earth & Environmental Sciences; Family, Nutrition & Exercise Sciences; Mathematics; Physics. These courses are to be chosen in consultation with the advisor.

Also required is a co-major in Secondary Education & Youth Services, as prescribed by a subject matter advisor of the pertinent SEYS Department.

[†] Please speak to the math department or a biology advisor if you are not eligible to take Math 151 in your first semester.





^{*14} or 15 Biology credits must be 200- and 300-level courses, of which at least two must be 300-level courses and at least three must be laboratory courses.

^{**} If a Literature course is taken with a W, it will count towards Literature and one Writing Intensive Unit.

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Junior

| SPRING |
|--------|
| |

| Biology Electives* | 4 credits | Biology Electives* | 4 credits |
|-------------------------------------|------------|-------------------------------------|------------|
| Laboratory course or Lecture course | | Laboratory course or Lecture course | |
| SEYS 201W (W) | 3 credits | SEYS 340 | 3 credits |
| Historical, Social & Philosophical | | Language, Literacy, & Culture in | |
| Foundation of Education | | Education | |
| (approval of SEYS faculty required) | | SEYS 362 | 3 credits |
| SEYS 221 | 3 credits | Methods in Teaching Science in | |
| Development and Learning in Middle | | Middle & High School | |
| Childhood & Adolescence | | ECPSE 350 | 3 credits |
| Individual & Society (IS) | 3 credits | Foundations of Special Education | |
| Major or non-major Electives*** | 3 credits | Major or non-major Electives*** | 3 credits |
| Fall total credits | 16 credits | Spring total credits | 16 credits |

Fall total credits 16 credits

Senior

FALL SPRING

| Biology Electives* | 3 credits | Major or non-major Electives*** | 3/4 credits |
|---|-------------|---|-------------|
| Laboratory course or Lecture course | | SEYS 372.4 | 3 credits |
| SEYS 372.2 | 3 credits | Student Teaching Clinical Experience in | |
| Student Teaching Initial Clinical Experience | ce | Science for Secondary School | |
| in Science for Secondary School | | Major or non-major Electives*** | 3/4 credits |
| SEYS 382 | 3 credits | Major or non-major Electives*** | 3/4 credits |
| Curriculum and Assessment in Teaching Science | | Major or non-major Electives*** | 3/4 credits |
| SEYS 350 | 3 credits | | |
| Cognition, Technology & Instruction | | Spring total credits | 15 credits |
| For Diverse Learners | | | |
| Major or non-major Electives*** | 3/4 credits | | |

Fall total credits 15 credits

BIOL 105 and BIOL 106 can be taken out of sequence. Students can be registered into BIOL 106 by the department if they cannot get BIOL 105 first.

^{***}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.





[¥] 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.