

Applied Mathematics BA Economics Track

12 Required Core Credits

18 Flexible Core Credits

12 College Option Credits

60 Major Credits

18 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.

Applied Mathematics BA Economics Track

Freshman

FALL

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|----------------------------------|-------------------|
| English Composition I (EC1) | 3 credits |
| MATH 122 (MQR) Pre-calculus | 4 credits |
| ECON 101 (IS) Macro Economics | 3 credits |
| Life & Physical Science (LPS) | 4 credits |
| Fall total credits | 14 credits |

SPRING

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|---------------------------------------|-------------------|
| English Composition II (EC2) | 3 credits |
| MATH 151 ¥ € | 4 credits |
| Calculus I | |
| ECON 102 (IS) Micro Economics | 3 credits |
| World Cultures & Global Issues (WCGI) | 3 credits |
| US Experience in Its Diversity (USED) | 3 credits |
| Spring total credits | 16 credits |

Sophomore

FALL

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| MATH 152 ¥ € | 4 credits |
| Calculus II | |
| MATH 231€ | 4 credits |
| Linear Algebra | |
| ECON 201 (or 226) Macro-Economic Analysis | 3 credits |
| Creative Expression (CE) | 3 credits |
| Fall total credits | 14 credits |

SPRING

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| MATH 201 | 4 credits |
| Multi-Variable Calculus | |
| MATH 241 | 3 credits |
| Probability & Statistics | |
| ECON 202 (or 225) Price Theory | 3 credits |
| CSCI 111 (or MATH 250) Intro to Algorithmic Problem Solving | 3 credits |
| Scientific World (SW) | 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.

¥ The following sequences of classes are considered the equivalents of MATH 151 and MATH 152: MATH 141, 142, and 143; MATH 131, 132, and 143; MATH 151, 142, and 143, MATH 157 and 158.

€ Students who are majoring in mathematics may not enroll in MATH 115, 122, 131, 132, 141, 142, 143, 151, 152, 201, or 231 if they have withdrawn from or received a failing grade (F, FIN, W, WD, WN, WU) in that same course three times. Students may not declare a major in mathematics if they have withdrawn from or received a failing grade three times in any one of MATH 115, 122, 131, 132, 141, 142, 143, 151, 152, 201, or 231.

Applied Mathematics BA Economics Track

Junior

FALL

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| MATH 202 (or MATH 207) Advanced Calculus | 4 credits |
| Math Elective® (in consultation with Math Dept. advisor) | 3 credits |
| College Option Literature (LIT+W) With Writing Intensive Unit* | 3 credits |
| Foreign Language (LANG) | 4 credits |
| General Elective | 1 credit |
| Fall total credits | 15 credits |

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| Math Elective® (in consultation with Math Dept. advisor) | 3 credits |
| Math Elective® (in consultation with Math Dept. advisor) | 3 credits |
| College Option Science (SCI) | 3 credits |
| An Additional College Core | 3 credits |
| One Writing Intensive Unit (W) | 3 credits |
| Spring total credits | 15 credits |

Senior

FALL

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| Math Elective® (in consultation with Math Dept. advisor) | 3 credits |
| Math Elective® (in consultation with Math Dept. advisor) | 3 credits |
| Second major, minor, or general electives** | 9 credits |
| Fall total credits | 15 credits |

SPRING

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|---|-------------------|
| Math Elective® (in consultation with Math Dept. advisor) | 3 credits |
| Second major, minor, or general electives | 12 credits |
| Spring total credits | 15 credits |

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

® Six elective MATH courses at the 200-, 300-, 600-, or 700-level (not including MATH 205, 218, 271, 272, or 385Wf).

f Not open to students who are taking or who have received credit for MATH 585.

**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.