



MATHEMATICS, AS



NASHUA
COMMUNITY COLLEGE

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Program Overview

The Associate in Science Degree in Mathematics has been developed to provide the first two years of preparation for a student wishing to complete a bachelor degree with a major in mathematics or mathematics education.

In addition, the Mathematics degree provides a strong foundation for a student who wishes to transfer to a four-year institution to study engineering, physics, or related fields.

Students graduating in mathematics will be capable of interpreting the language of mathematics, perform accurate mathematical calculations, and be able to understand how mathematics can be utilized to model natural phenomena.

Calculus-based Physics I and Calculus-based Physics II are recommended as laboratory science courses to meet the General Education requirements at Nashua Community College.

Program Outcomes

Upon the completion of the degree in Mathematics, graduates will be able to:

1. Demonstrate technical proficiency and effective problem solving ability in completing mathematical processes.
2. Apply mathematical concepts to other disciplines including business, economics, social sciences, and natural sciences.
3. Communicate mathematics effectively in both oral and written formats using appropriate mathematical language.
4. Use appropriate logical reasoning, understand mathematical proof and be capable of justifying results.

In addition, the graduate will be able to demonstrate competency in the general education outcomes.

Additional Program Information

Students are encouraged to work closely with their academic advisor while at NCC. An early decision by a student as to which four-year college/university he/she plans to transfer will make the advising process more effective.

Estimated Cost of Program (Tuition Only)

In-State \$14,030

New England Regional \$21,045

Out-Of-State \$30,805

First Year - Fall Semester

Item #	Title	Class Hours	Lab Hours	Credits
ENGL101N	College Composition	4	0	4
MATH106N	Statistics I: An Introduction to Statistical Reasoning	4	0	4
MATH210N	Calculus I	4	0	4
	Natural or Physical Science Elective (w lab)			4

First Year - Spring Semester

Item #	Title	Class Hours	Lab Hours	Credits
MATH211N	Calculus II	4	0	4
MATH215N	Linear Algebra	4	0	4
	English/Communications Elective			3
	Natural or Physical Science Elective (w lab)			4

Second Year - Fall Semester

Item #	Title	Class Hours	Lab Hours	Credits
MATH170N	Discrete Mathematics	4	0	4
MATH212N	Calculus III	4	0	4
	Behavioral Social Science Elective			3
	Humanities/Fine Arts/World Language Elective			3

Second Year - Spring Semester

Item #	Title	Class Hours	Lab Hours	Credits
	Computer Science Elective for Mathematics Majors			3
MATH220N	Differential Equations	4	0	4
	Behavioral Social Science or Non-Behavioral Social Science Elective			3
	Humanities/Fine Arts/World Language Elective			3
	Non-Behavioral Social Science Elective			3
Total Credits				61