

# MATH STUDIES WITH CERTIFICATION IN MATHEMATICS, MIDDLE LEVEL (B.A.)

Individuals who complete this program will be eligible for the New Hampshire Department of Education teacher certification in Mathematics (Middle Level).

This is a field-based program for qualified participants working or volunteering in approved programs or education settings. The key components of this program include mentorship of the teacher candidates by highly skilled professionals in the field, the hands-on experience of working with children in educational settings, and the opportunity to build your teaching capacity over time. Graduates of this program will be eligible for certification and highly qualified in mathematics, middle level.

## Degree Requirements

Minimum Credit Requirement: 120 credits

Minimum Residency Requirement: 30 credits must be taken at Granite State College

A minimum GPA of 2.0 is required for conferral

Requirements	Credit Hours
General Education Requirements (p. 1)	40
Major Requirements (p. 1)	61
Open Electives (p. 1)	19
<b>Total</b>	<b>120</b>

## General Education Requirements

A minimum grade of C is required in all General Education coursework. Students are allowed a maximum of two course overlaps. Overlaps can be used between Major, Minor and General Education requirements with only one overlap being utilized between the Major and Minor.

All General Education requirements, including CRIT 602 Advanced Critical Analysis and Strategic Thinking (4 s.h.) and IDIS 601 Interdisciplinary Seminar (4 s.h.), must be taken prior to the capstone.

Code	Title	Credits
ENG 500	The Writing Process	4
COMM 542	Interpersonal Communication and Group Dynamics	4
COMM 543	Visual Communication	4
CRIT 501	Introduction to Critical Inquiry	4
Select one of the following:		4
MATH 502	Math for Our World	
MATH 504	Statistics	
MATH 510	Pre-Calculus	
PSY 509	Human Development	4
Knowledge of the Physical & Natural World ( <a href="https://catalog.granite.edu/undergraduate/degrees-programs-study/general-education-requirements/#physical-natural-world">https://catalog.granite.edu/undergraduate/degrees-programs-study/general-education-requirements/#physical-natural-world</a> )		4

Knowledge of Human Thought & Expression ( <a href="https://catalog.granite.edu/undergraduate/degrees-programs-study/general-education-requirements/#human-thought">https://catalog.granite.edu/undergraduate/degrees-programs-study/general-education-requirements/#human-thought</a> )		4
CRIT 602	Advanced Critical Analysis and Strategic Thinking	4
IDIS 601	Interdisciplinary Seminar	4
<b>Total Credits</b>		<b>40</b>

## Major Requirements

A minimum grade of C is required in all Major coursework. Students are allowed a maximum of two course overlaps. Overlaps can be used between Major, Minor and General Education requirements with only one overlap being utilized between the Major and Minor.

Code	Title	Credits
<b>Major in Math Studies, Middle Level</b>		
MATH 504	Statistics	4
MATH 510	Pre-Calculus	4
MATH 600	Mathematical Proof	4
MATH 601	Number Systems	4
MATH 602	Geometric Structures	4
MATH 606	Calculus I	4
MATH 608	History of Mathematics	4
Declaration of Candidacy Form Required <sup>1</sup>		
Praxis Core Academic Skills for Educators Exam Required <sup>2</sup>		
EDU 510	Foundations of Education	4
<i>Introductory Level Education Courses</i>		
EDU 622	Introduction to Field Experience and Program Requirements	1
EDU 619	Managing Student Behavior	4
EDU 652	Aspects of Mathematics Learning	4
<i>Intermediate Level Education Courses</i>		
EDU 653	Reading and Writing in the Mathematics Classroom	4
<i>Advanced Level Education Courses</i>		
MATH 605	Discrete Mathematics	4
MATH 609	Algebra Theory for Middle School Teachers	4
EDU 614	Middle School Mathematics Methods	4
EDU 651	Culminating Teaching Experience and Seminar	4
<b>Total Credits</b>		<b>61</b>

<sup>1</sup> Required prior to beginning the last 60 credits of degree program

<sup>2</sup> Passing Praxis Core Exam scores must be submitted prior to taking EDU 622 Introduction to Field Experience and Program Requirements (1 s.h.)

## Electives

Open electives are courses students will need to take in addition to their general education and major requirements in order to satisfy the remaining credit totals for their programs. Open electives are defined as any credit course offered by the College not already included in the student's general education, major, concentration or minor. Students will need 120 credits total to graduate with a bachelor's degree.

## State Certification Requirements

The following requirements must be completed in order to be recommended to the state for Teacher Certification:

- A **minimum GPA of 3.0** is required for state certification
- **Praxis Core Academic Skills For Educators Exam** required. Passing Praxis Core Exam scores must be submitted prior to taking EDU 622 Introduction to Field Experience and Program Requirements (1 s.h.)
- **Praxis II-Middle School Math Exam** Required. Students must attempt to pass a Praxis II exam prior to taking the Culminating Teaching Experience & Seminar. Passing exam scores are required for State Certification.