MATH STUDIES, MIDDLE LEVEL / GENERAL SPECIAL EDUCATION (B.S.)

https://cps.unh.edu/online/program/bs/math-studies-middle-level-general-special-education

Description

Individuals who complete this dual certification program will be eligible for New Hampshire Department of Education teacher certification in Mathematics (middle level) and General Special Education (K-12).

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 in mathematics (middle level) and general special education.

Requirements

Degree Requirements

Minimum Credit Requirement: 120 credits

Minimum Residency Requirement: 30 credits must be taken at UNH

Minimum Cumulative GPA: 2.0 is required for conferral*

Core Curriculum Required: General Education Program

Major, Option and Elective Requirements as indicated.

*GPA: Major and any state certification GPA requirements may be higher and are indicated in program details.

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. Please note that Option requirements are considered part of the Major. Students must complete 16 upper-level credits in majors within the College of Professional Studies, Online.

General Education Program Requirements

A minimum grade of D- 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 and IDIS 601 Interdisciplinary Seminar, must be taken prior to the capstone.

Code	Title	Credits
ENG 420	The Writing Process	4
COM 460	Interpersonal Communication and Group Dynamics	4

Total Credits		40
IDIS 601	Interdisciplinary Seminar	4
CRIT 602	Advanced Critical Analysis and Strategic Thinking	4
Knowledge of Human	n Thought & Expression	4
Knowledge of the Physical & Natural World		4
Knowledge of Human	Behavior & Social Systems: PSY 525	4
MTH 510	Pre-Calculus	
MTH 504	Statistics	
MTH 402	Math for Our World	
Select one of the follo	owing:	4
CRIT 501	Introduction to Critical Inquiry	4
COM 480	Visual Communication	4

Writing Program Requirements

All bachelor's degree candidates are required to complete four writing intensive courses as part of the University <u>Writing Program Requirements</u> as follows:

Cod	e	Title	Credits
	ENG 420	The Writing Process	
	One Writing Intensive co	urse in the Major	
	One Writing Intensive co	urse at the 600-level or above	
	One Additional Writing Ir	ntensive Course	

Writing Intensive courses are identified with the label "Writing Intensive Course" in the "Attributes" section of the course description and/or a W following the course number.

Major Requirements

A minimum GPA of 3.0 is required for state certification.

Prior to capstone enrollment, students are expected to complete the majority of their required major courses along with CRIT 602 Advanced Critical Analysis and Strategic Thinking and IDIS 601 Interdisciplinary Seminar. Students should consult with their advisor regarding specific major courses that may be completed with their capstone. Academic Advisor approval is required for registration to be processed.

Major in Math Studies, Mid-Level, Gen Spec. EdMTH 504Statistics4MTH 504Pre-Calculus4MTH 702Mathematical Proof4MTH 703Number Systems4MTH 704Geometric Structures4MTH 705Calculus I4MTH 706History of Mathematics4Declaration of Candidacy For Educators Exam Required ² 7Praxis Core Academic Skills of Education4Introductory Level Educators Exam Required ² 7EOC 500Foundations of Education4Introductory Level Educators Exam Required ² 7EOC 700Introduction to Field Experience and Program Requirements1EDC 701Special Education Law4EDC 703The Dynamic Role of the Special Educator4EDC 716Students with Disabilities4EDC 717Managing Student Behavior4Intermediate Level Educator7EDC 703Instructional Methods, Strategies, and Technologies to Meet the Needs of All Students7EDC 713Aspects of Mathematics Content Area2EDC 714Transition Planning & Developing IEPs2EDC 715Reading and Writing in the Mathematics Content Area4EDC 718Reading and Writing in the Mathematics Content Area4EDC 718Sincere Mathematics4FUT 700Sincere Mathematics Content Area4EDC 718Sincere Mathematics Content Area4EDC 719Sincere Mathematics Conten	Code	Title	Credits
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	MTH 710	Algebra Theory for Middle School Teachers	4

Total Credits		83
EDC 798	Culminating Teaching Experience and Seminar	4
EDC 733	Middle School Mathematics Methods	4

¹ Required prior to beginning the last 60 credits of degree program

² Passing Praxis Core Exam scores must be submitted prior to taking EDC 700 Introduction to Field Experience and Program Requirements

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, option or minor. Students will need 120 credits total to graduate with a bachelor's degree from the Online Division of the College of Professional Studies.

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 EDC 700 Introduction to Field Experience and Program Requirements.
- **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.

Degree Plan

This degree plan is a sample and does not reflect the impact of transfer credit or current course offerings. UNH CPS Online undergraduate students should develop individual academic plans with their academic advisor during their first year at UNH.

Sample Course Sequence

First Year		
Fall		Credits
COM 460	Interpersonal Communication and Group Dynamics	4
ENG 420	The Writing Process	4
MTH 402	Math for Our World	4
General Education	n Course	4
	Credits	16
Spring		
COM 480	Visual Communication	4
CRIT 501	Introduction to Critical Inquiry	4
MTH 504	Statistics	4
MTH 510	Pre-Calculus	4
	Credits	16
Second Year		
Fall		
MTH 702	Mathematical Proof	4
MTH 703	Number Systems	4

MTH 705	Calculus I	4
General Educat	tion Course	4
	Credits	16
Spring		
CRIT 602	Advanced Critical Analysis and Strategic Thinking	4
EDC 500	Foundations of Education	4
EDC 700	Introduction to Field Experience and Program Requirements ^{Nonclinical; Complete} CHRC Process	1
MTH 704	Geometric Structures	4
PSY 525	Human Development	4
	Credits	17
Third Year		
Fall		
IDIS 601	Interdisciplinary Seminar	4
EDC 703	The Dynamic Role of the Special Educator Clinical A	4
EDC 717	Managing Student Behavior ^{Clinical A}	4
MTH 706	History of Mathematics Nonclinical	4
	Credits	16
Spring		
EDC 701	Special Education Law Nonclinical	4
EDC 716	Students with Disabilities Nonclinical	4
EDC 731	Aspects of Mathematics Learning Clinical A	4
EDC 732	Reading and Writing in the Mathematics Content Area ^{Clinical A}	4
	Credits	16
Fourth Year Fall		
EDC 718	Transition Planning & Developing IEPs Clinical B	2
EDC 720	Instructional Methods, Strategies, and Technologies to Meet the Needs of All Students ^{Clinical A}	4
EDC 721	Assessment of Students with Disabilities Clinical B	4
EDC 733	Middle School Mathematics Methods Clinical A	4
	Credits	14
Spring		
EDC 798	Culminating Teaching Experience and Seminar ^{Clinical A}	4
MTH 708	Discrete Mathematics Nonclinical	4
MTH 710	Algebra Theory for Middle School Teachers Nonclinical	4
	Credits	12
	Total Credits	123

Note: Only 1 Clinical A course allowed per term

Student Learning Outcomes

- Develop a working understanding of current brain research and its implications for teaching and learning.
- Develop the skills to access and utilize technology as a tool to empower teaching and learning.
- Develop a solid understanding of the utilization of formative and summative assessment for program design, monitoring student progress and evaluating teaching effectiveness.
- Work with colleagues to observe, analyze and provide feedback on student progress and teaching effectiveness.
- Utilize research methods and materials, pedagogies and assessment strategies to teach for understanding and application specific to content area.