



# Granite State College

## Bachelor of Arts in Individualized Studies: Math Studies with Teacher Certification in Middle School Mathematics, Grades 5-8

### Curriculum Map

#### Degree Outcomes

Students will:

- Develop a working understanding of current brain research and its implication for learning and teaching
- Develop the skills to access and utilize technology as a tool to empower learning and teaching
- Develop a solid understanding of the utilization of formative and summative assessment for program design, monitoring student progress and evaluate 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 learning achievement specific to content area

#### Early Course Group - Taken early in the degree program.

		PROJECTED	COMPLETED
CRIT 500	Critical Thinking		
CMPL 511	Software Tools		
ENG 500	Writing Process		
MATH 502	College Math		
COMM 550, 551, or 553	Communication Requirement		
EDU 510	Foundations of Education		

#### Middle Course Group - Taken in the middle of the degree program.

		PROJECTED	COMPLETED
ENG 600	Expository Writing		
MATH 504	Statistics		
MATH 510	Pre-Calculus		
MATH 600	Mathematical Proof		
MATH 601	Number Systems		
MATH 602	Geometric Structures		
MATH 609	Algebra Theory for Teachers		
MATH 605	Discrete Mathematics		
MATH 606	Calculus I		
MATH 608	History of Mathematics		

#### Upper Course Group - Taken near the end of the degree program.

		PROJECTED	COMPLETED
EDU 607, 614, 619, 652, 653			

#### Capstone Course - Taken after all other requirements in the major.

		PROJECTED	COMPLETED
EDU 651	Culminating Teaching Experience		

#### Anytime Courses - Choose courses of interest at any time to fill openings in your degree program.

		PROJECTED	COMPLETED
Arts & Culture Requirement	ARTS 601 (Recommended) OR Arts 501, 503, 515, 526, 538, 550, 551		
History & Politics Requirements (2)	HIS 510 or 511 and POL 550 (Recommended) OR HIS 602, 627 and POL 544		
Literature & Ideas Requirement	ENG 510 (Recommended) OR ENG 512, 513, 555, 560, 620, 622, 625, 633, 640		
Social Science Requirement	PSY 509 (Required)		
Science Requirements (2)	Physical Science		
	Biological Science		
Electives (1)	Any two 4-credit courses		

This document is provided for student convenience, and is not an official record of Granite State College degree progress.  
Important Note: Transfer Credits, Exams, Prior Learning Credit, and grades earned will impact the above.



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Follow this sequence of courses

#### TERM 1

CRIT 500 Critical Thinking  
CMPL 511 Software Tools

#### TERM 2

ENG 500 Writing Process  
MATH 502 College Math

#### TERM 3

EDU 510 Foundations in Education  
COMM 550, 551, or 553 Communication

#### TERM 4

ARTS 601 Creativity: The Untapped Potential  
SCI Biological Science

#### TERM 5

HIS 510 or HIS 511: US History  
MATH 510 Pre-Calculus

#### TERM 6

MATH 504 Statistics  
MATH 602 Geometric Structures

#### TERM 7

ENG 510 Survey of American Lit.  
MATH 606 Calculus I  
Take Praxis I

#### TERM 8

SCI Physical Science  
Elective (any 4-credit course)

#### TERM 9

MATH 601 Number Systems for Teacher  
MATH 600 Mathematical Proof  
Submit Declaration of Candidacy form to SOE

#### TERM 10

ENG 600 Expository Writing  
MATH 609 Algebra Theory for Teachers

#### TERM 11

POL 550 American Govt. & Politics  
MATH 605 Discrete Algebra  
Subscribe to Taskstream

#### TERM 12

MATH 608 History of Mathematics  
EDU 619 Managing Student Behavior

#### TERM 13

EDU 652 Aspects of Mathematics Learning  
EDU 607 Instructional Methods, Strategies, Technologies

#### TERM 14

EDU 653 Reading/Writing in Math Content Area  
PSY 509 Human Development  
Take Praxis II

#### TERM 15

EDU 614 Math Methods  
EDU 651 Culminating Teaching Experience