



# Granite State College

## Bachelor of Arts in Individualized Studies: Math Studies with Teacher Certification in Secondary School Mathematics, Grades 7-12

### 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 604	Elementary Linear Algebra		
MATH 605	Discrete Mathematics		
MATH 606	Calculus I		
MATH 607	Calculus II		
MATH 708	History of Mathematics		
POL 550	American Politics & Govt.		

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

		PROJECTED	COMPLETED
EDU 615, 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		
History & Politics Requirement	HIS 510 or 511		
Literature & Ideas Requirement	ENG 510		
Social Science Requirement	PSY 509		
Science Requirements (2)	Physical Science		
	Biological Science		

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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Sample Schedule - *Use this example to create your own schedule using the Curriculum Map*

#### 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

#### TERM 8

SCI Physical Science  
MATH 607 Calculus II

#### TERM 9

MATH 601 Number Systems for Teachers  
MATH 600 Mathematical Proof

#### TERM 10

MATH 604 Linear Algebra  
ENG 600 Expository Writing

#### TERM 11

MATH 605 Discrete Algebra  
POL 550 American Govt. & Politics

#### TERM 12

EDU 653 Reading/Writing in Math Content Areas  
MATH 708 History of Mathematics

#### TERM 13

EDU 652 Aspects of Mathematics Learning  
EDU 619 Managing Student Behavior

#### TERM 14

Elective (any 4-credit course)  
PSY 509 Human Development

#### TERM 15

EDU 615 Math Methods  
EDU 651 Culminating Teaching Experience