

ACADEMIC ROADMAP
Math Education 5-12 Majors

Freshman Year (32 credits)

	FIRST SEMESTER	
Course Title	Catalog Number	Prerequisite(s)
College Writing I (3)	CWP 101	
GE 23: Mathematics and Quantitative Reasoning (4 credits)	MAT161	MAT124 or HS equivalent
GE 23 Diversity: Equity, Inclusion and Social Justice (3)	EXE100	
GE 23 courses (6 credits)		

	SECOND SEMESTER	
Course Title	Catalog Number	Prerequisite(s)
College Writing II (3)	CWP 102	CWP101
Calculus II (4)	MAT162	MAT161
Introduction to Linear Algebra (3)	MAT202	MAT161
GE 23 Course (3 credits)		
GE 23 Natural Sciences & Scientific Reasoning (3 credits)		

Sophomore Year (63 credits)

	THIRD SEMESTER	
Course Title	Catalog Number	Prerequisite(s)
Calculus III (4)	MAT263 ²	MAT162
Foundations of Teaching Mathematics 7-12 and Field Experience <u>OR</u> GE 23 Course (3)	MED200 ¹ or GE23 Course	MAT161
GE 23 courses (9 credits)		

	FOURTH SEMESTER	
Course Title	Catalog Number	Prerequisite(s)
Foundations of Teaching Mathematics 7-12 and Field Experience <u>OR</u> Upper Division Math Elective <u>OR</u> Human Development During Early Adolescence and Adolescence (3)	MED200 ¹ or SPF353 ² or Upper Division Math Elective	MAT161
Techniques of Proof (3)	MAT300 ²	
Number Theory (3)	MAT351	
GE 23 courses (6-9 credits, as needed to complete DW category)		

Notes and recommendations: ¹MED200 every 3 semesters, *take as soon as offered after MAT161 completed*.

²MAT300, SPF353 offered spring only; MAT263 offered fall semesters only.

Junior Year (93 credits)

	FIFTH SEMESTER	
Course Title	Catalog Number	Prerequisite(s)
Foundations of Teaching Mathematics 7-12 and Field Experience <u>OR</u> Methods of Teaching Middle School Math <u>OR</u> Upper Division Math Elective (3)	MED200 ¹ or MED309 ⁴ or Upper Division Math Elective	MAT161 or Upper-division status
Probability and Statistics (3)	MAT325 ³	MAT162

	FIFTH SEMESTER	
Course Title	Catalog Number	Prerequisite(s)
Modern Geometry OR Learning and Teaching Problem Solving OR Uses of Technology in Teaching Math (3 credits)	MAT322 ⁴ or MED383 ⁴ or MED307 ⁴	Upper-division status
Educational Psychology (3)	SPF303	
Teaching Literacy (3)	EDU416	

	SIXTH SEMESTER	
Course Title	Catalog Number	Prerequisite(s)
Fundamentals of Abstract Algebra (3)	MAT301 ⁵	MAT300
Methods of Teaching Middle School Math AND/OR Human Development During Early Adolescence and Adolescence (3) OR Upper Division Math Elective	MED309 ⁴ and/or SPF353 ⁵ or Upper Division Math Elective	Upper-division status
Adolescent Literacy (3)	EDU417	EDU416
Modern Geometry OR Learning and Teaching Problem Solving OR Uses of Technology in Teaching Math (3 credits)	MAT322 ⁴ or MED383 ⁴ or MED307 ⁴	Upper-division status
Historical & Philosophical Forces in Secondary Education (3)	SPF403	SPF303

Notes and recommendations: ¹MED200 offered every 3 semesters, *take as soon as offered after MAT161 completed*.

³MAT325 offered fall only. ⁴MAT322, MED383, MED307, and MED309 offered every 3 semesters; *take as offered beginning junior year*. ⁵MAT301 and SPF353 offered spring only.

Senior Year (120 credits)

	SEVENTH SEMESTER	
Course Title	Catalog Number	Prerequisite(s)
Field Experience: Methods of Teaching Secondary Mathematics (3)	MED300 ⁶	Math GPA 2.75+ and MED307 (can be concurrent)
Methods of Teaching Secondary Mathematics (3)	MED308 ⁶	Math GPA 2.75 and MED307 (can be concurrent)
Intro to Real Analysis (3)	MAT417 ⁷	MAT263 and MAT300
Modern Geometry OR Learning and Teaching Problem Solving OR Uses of Technology in Teaching Math (3 credits)	MAT322 ⁴ or MED383 ⁴ or MED307 ⁴	Upper-division status
Methods of Teaching Middle School Math OR Upper Division Math Elective (3)	MED309 ⁴ or Upper Division Math Elective	Upper-division status

No other courses allowed during student teaching:	EIGHTH SEMESTER	
Course Title	Catalog Number	Prerequisite(s)
Student Teaching Math in JR HI/MS (6)	MED407	
Student Teaching in SR HS (6)	MED408	

Notes and recommendations:

⁶ MED300 and MED308 are taken concurrently, and only offered in fall semesters. Email instructor for permission to enroll in class. ⁷MAT417 offered fall semester only.