

**ACADEMIC ROADMAP**  
**Math Education 5-12 Major**  
**2026**

**Freshman Year (32 credits)**

FIRST SEMESTER

Course Title	Catalog Number	Prerequisite(s)
College Writing I	CWP 101	
<a href="#">GE 23: Mathematics and Quantitative Reasoning</a>	<a href="#">MAT 161</a>	MAT 124 with a C or better or HS equivalent
GE 23 Diversity: Equity, Inclusion and Social Justice	EXE 100	
GE 23 courses (6 credits)	PHY 107, PSY 101	

SECOND SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Argumentation and Research	CWP 102	CWP 101 with a C or better
<a href="#">Calculus II</a>	<a href="#">MAT 162</a>	MAT 161 with a C or better
Introduction to Linear Algebra	MAT 202	MAT 161 with a C or better
GE 23 Course	HIS 115	
GE 23 Natural Sciences & Scientific Reasoning	CHE 111	

**Notes and recommendations:**

You should attend at least one faculty office hour and view your degree audit sheet in Degree Works this year. Visit the [Academic Center for Excellence](#) for tutoring (math, writing, and general tutoring) and to the [Career and Professional Education Center](#) for tips and tools about majors and career paths.

**Sophomore Year (63 credits)**

THIRD SEMESTER

Course Title	Catalog Number	Prerequisite(s)
<a href="#">Calculus III</a>	<a href="#">MAT 263</a> <sup>2</sup>	MAT 162 with a C or better
Foundations of Teaching Mathematics 7-12 and Field Experience <b>OR</b> GE 23 Course	MED 200 <sup>1</sup> or GE23 Course	MAT 161 with a C or better
GE 23 courses (9 credits)	HIS 106, ENG 205, MUS 201	

FOURTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Foundations of Teaching Mathematics 7-12 and Field Experience <b>OR</b> Upper Division Math Elective <b>OR</b> Human Development During Early Adolescence and Adolescence	<a href="#">MED 200</a> <sup>1</sup> or <a href="#">SPF 353</a> <sup>2</sup> or Upper Division Math Elective	MAT 161 with a C or better
<a href="#">Techniques of Proof</a>	<a href="#">MAT 300</a> <sup>2</sup>	
<a href="#">Number Theory</a>	<a href="#">MAT 351</a>	
GE 23 courses (6-9 credits, as needed to complete DW category)		

**Notes and recommendations:** <sup>1</sup>MED200 every 3 semesters, take as soon as offered after MAT161 completed with a C or better. <sup>2</sup>MAT300, SPF353 offered spring only; MAT263 offered fall semesters only. Consider enrolling in a second major, minor, or certificate program.

**Junior Year (93 credits)**

FIFTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Foundations of Teaching Mathematics 7-12 and Field Experience <b>OR</b> Methods of Teaching Middle School Math <b>OR</b> Upper Division Math Elective	MED 200 <sup>1</sup> or MED 309 <sup>4</sup> or Upper Division Math Elective	MAT 161 or Upper-division status
Probability and Statistics	MAT 325 <sup>3</sup>	MAT 162
Modern Geometry <b>OR</b> Learning and Teaching Problem Solving <b>OR</b> Uses of Technology in Teaching Math	MAT 322 <sup>4</sup> or MED 383 <sup>4</sup> or MED 307 <sup>4</sup>	Upper-division status
Educational Psychology	SPF 303	
Teaching Literacy	EDU 416	

SIXTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Fundamentals of Abstract Algebra	MAT 301 <sup>5</sup>	MAT 300 with a C or better
Methods of Teaching Middle School Math <b>AND/OR</b> Human Development During Early Adolescence and Adolescence <b>OR</b> Upper Division Math Elective	MED 309 <sup>4</sup> and/or SPF 353 <sup>5</sup> or Upper Division Math Elective	Upper-division status
Adolescent Literacy	EDU 417	EDU 416
Modern Geometry <b>OR</b> Learning and Teaching Problem Solving <b>OR</b> Uses of Technology in Teaching Math	MAT 322 <sup>4</sup> or MED 383 <sup>4</sup> or MED 307 <sup>4</sup>	Upper-division status
Historical & Philosophical Forces in Secondary Education	SPF 403	SPF 303

**Notes and recommendations:**

<sup>1</sup>MED200 offered every 3 semesters, take as soon as offered after MAT161 completed. <sup>3</sup>MAT325 offered fall only. <sup>4</sup>MAT322, MED383, MED307, and MED309 offered every 3 semesters; take as offered beginning junior year. <sup>5</sup>MAT301 and SPF353 offered spring only. Visit the Career & Professional Education Center to discuss appropriate career options.

**Senior Year (120 credits)**

## SEVENTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Field Experience: Methods of Teaching Secondary Mathematics	MED 300 <sup>6</sup>	Math GPA 2.75+ and MED307 (can be concurrent)
Methods of Teaching Secondary Mathematics	MED 308 <sup>6</sup>	Math GPA 2.75 and MED307 (can be concurrent)
Intro to Real Analysis	MAT 417 <sup>7</sup>	MAT 263 and MAT 300
Modern Geometry <b>OR</b> Learning and Teaching Problem Solving <b>OR</b> Uses of Technology in Teaching Math	MAT 322 <sup>4</sup> or MED 383 <sup>4</sup> or MED 307 <sup>4</sup>	Upper-division status
Methods of Teaching Middle School Math <b>OR</b> Upper Division Math Elective	MED 309 <sup>4</sup> or Upper Division Math Elective	Upper-division status

## EIGHTH SEMESTER

Course Title	Catalog Number	Prerequisite(s)
Student Teaching Math in JR HI/MS (6)	MED 407	
Student Teaching in SR HS (6)	MED 408	

**Notes and recommendations:**

<sup>6</sup> MED300 and MED308 are taken concurrently and only offered in fall semesters. Email instructor for permission to enroll in class. <sup>7</sup>MAT417 offered fall semester only. Apply for graduation; apply to graduate school, if applicable; visit the Career & Professional Education Center to have your resume reviewed.