

**ACADEMIC ROADMAP**  
**Math Education Majors, 4+1**

**Freshman Year**

<b>FIRST SEMESTER</b>		
Course Title	Catalog Number	Prerequisite(s)
Calculus I (4)	MAT161	MAT 124
Using Technology to Explore Calculus I (1)	MAT163	
Exceptional Ed	EXE100	
Intellectual Foundations (IF) course(s)		
College Writing I	CWP 101	

<b>SECOND SEMESTER</b>		
Course Title	Catalog Number	Prerequisite(s)
Calculus II (4)	MAT162	Mat 161
Using Technology to Explore Calculus II (1)	MAT164	Mat 163
Introduction to Linear Algebra (3)	MAT202	MAT 161
IF course(s)		
College Writing II	CWP 102	

Notes: Both semesters should total 17 credit hours

**Sophomore Year**

<b>THIRD SEMESTER</b>		
Course Title	Catalog Number	Prerequisite(s)
Calculus III (4)	MAT263	MAT 162
Using Technology to Explore Calculus III (1)	MAT264	MAT 164
Discrete Math (3)	MAT270	MAT 161
Field Experience in Secondary Math	MED 200	
IF course(s)		
<b>FOURTH SEMESTER</b>		
Course Title	Catalog	Prerequisite(s)

	Number	
PROBABILITY AND STATISTICS	MAT 325	MAT 162 &270
LEARNING AND TEACHING PROBLEM SOLVING	MED 383	MAT 162 &270
Technique of Proof (3)	MAT300	MAT 161 & 270
Upper Division Math Elective (3)		Check the prereq
Educational Psychology	SPF 303	

Notes: One semester should total 16 credit hours and the other semester should total 15 credit hours

**Junior Year**

<b>FIFTH SEMESTER</b>		
Course Title	Catalog Number	Prerequisite(s)
Fundamentals of Abstract Algebra (3)	MAT301	MAT 202 & 300
Educational Psychology	SPF303	
Teaching Literacy	EDU416	
Upper Division Math Elective (3)		Check the prereq
Modern Geometry	MAT 322	MAT 270

<b>SIXTH SEMESTER</b>		
Course Title	Catalog Number	Prerequisite(s)
Introduction to Real Analysis (3)	MAT417	MAT 263
History & Policy of Education	SPF403	SPF 303
USES OF TECH TEACHING MATH	MED 307	Upper division
Adolescent Literacy	EDU417	EDU 416
Upper Division Math Elective (3)		Check the prereq

Notes: Each semester should total 15 credit hours. Taking MAT417 at the same time as MAT301 is highly discouraged. Don't put off these+ classes to the semester before student teaching. NOTE: During SUMMER take 2 graduate courses (i.e. MAT 501, MAT 521 or MAT 581)

**Senior Year**

<b>SEVENTH SEMESTER</b>		
Course Title	Catalog Number	Prerequisite(s)
FIELD EXP: METHODS TEACHING SECONDARY MATHEMATICS	MED 300	
METHODS TEACHING SECONDARY MATHEMATICS	MED 308	Math GPA 2.75+ and MED 307
Upper Division Math Elective (3)		Check the prereq
OPEN Elective		
GRADUATE course		Check the prereq

<b>EIGHTH SEMESTER</b>		
Course Title	Catalog Number	Prerequisite(s)
STUDENT TEACHING MATH IN JR HI/MS	MED 407	
STUDENT TEACHING MATH IN SR HS	MED 408	
No other courses allowed during student teaching!		
OVERALL total: 131 credit hours		

Notes: 15 credit hours for the semester before ST and 12 credit hours during ST. MED308 and MED300 are taken concurrently during the LAST semester before a student expects to student teach. MED308 & 300 require Instructor permission. Email the instructor during registration period to ask for permission. To be eligible students must have completed MED200 and MED307 as well as at least 3 more credits from EXE100, EDU416, EDU417, SPF303, and/or SPF403, and have at least a 2.5 GPA for these professional courses. Students must also have completed at least 30 credits of their mathematics courses with at least a 2.75 GPA in those courses. Note that GPAs for professional courses and mathematics courses are calculated separately. See Excel Sheet for 7-12 Math Education Majors at <http://math.buffalostate.edu/math/StudentInfo/forms.html> for more details. MED308 & MED300 currently requires students to keep their M-F mornings free until 10:00 am off-campus; plan for travel to & return to campus.