

Sample Curriculum Plan: Math Education Majors

Freshman Year

Fall			Spring		
MAT161 Calc I	4		MAT162 Calc II	4	
MAT163 Calc I Lab	1		MAT164 Calc II Lab	1	
EXE100 Exceptional Ed	3		MAT202 Linear Algebra	3	
<i>IF: Arts</i>	3		<i>IF: Natural Sciences</i>	3	
CWP101 (or elective)	3		<i>IF: Social Sciences</i>	3	
<i>IF: Humanities</i>	3		CWP102 (or elective)	3	
TOTAL	17⁸		TOTAL	17⁸	

Sophomore Year

MAT263 Calc III	4		MAT325 Prob & Stats	3	
MAT264 Calc III Lab	1		MED383 W Problem Solving	3	
MAT270 Discrete Math ⁸	3		Upper Div Math Elective	3	
MED200 Field Experience ²	3		<i>IF: Non-Western Civilizations</i>	3	
<i>IF: American History</i>	3		MAT300 Intro to Proof ¹	3	
<i>IF: Western Civilizations</i>	3				
TOTAL	17		TOTAL	15	

Junior Year

MAT301 Algebra ³	3		MAT417 Real Analysis ³	3	
SPF303 Educational Psychology	3		SPF403 H&P of Education	3	
EDU416 Teaching Literacy ⁴	3		MED307 Uses of Tech ⁵	3	
Upper Div Math Elective	3		Upper Div Math Elective	3	
Open Elective	3		EDU417 Adolescent Literacy ⁴	3	
TOTAL	15		TOTAL	15	

Senior Year

MED308 & MED300 Math Methods & Field Exp ^{5,6}	6		MED407 Student Teaching MS	6	
MAT322 W Geometry	3		MED408 Student Teaching HS	6	
Open Elective	3		<i>No employment or other classes allowed during student teaching!</i>		
Open Elective	3		TOTAL	12	
TOTAL	15		OVERALL TOTAL	123	

¹ MAT162 is a prereq for MAT300. Highly recommended students take MAT270 before MAT300. Highly recommended students take MAT300 prior to MAT301 and MAT417;

² Requires 45 hour field experience, students need to have blocks of time during one or more school days (8am-3pm) in which they are free to visit area schools, for about 4 hours a week. A car is recommended, but not required. Students must complete MAT161 prior to taking MED200. Freshman should not take this course.

³ Taking MAT417 at the same time as MAT301 is highly discouraged! Don't put off these classes to the semester before student teaching.

⁴ EDU416 is a pre-requisite for EDU417

⁵ MED307 is a pre-requisite for MED308.

⁶ 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/%7Emath/StudentInfo/forms.html> for more details. MED308/MED300 currently requires students to keep their M-F mornings free until 10:00am (off-campus, plan for travel to return to campus).

⁷ Students should take 17 credit hours during their Calculus I and II semesters so in the event they drop the Calculus course and Lab, they will still be full-time students at 12 credit hours.

⁸ MAT270 is a prerequisite for MAT322, MAT325 and MED383

Note the following:

- ✓ Sample Plan assumes Global Engagement requirement met in high school via language study.

- ✓ You can complete Intellectual Foundation (*IF*) requirements in any order. Consult Intellectual Foundations Program flyer or Banner for list of *IF* classes in each category.

By completing Math Ed program you will satisfy the following Intellectual Foundation requirements:

- ✓ Math & Quantitative Reasoning (MAT161)
- ✓ Diversity (EXE100)

(curriculum plan examined and verified, 11/5/18)