

## 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	
<b>TOTAL</b>	<b>17<sup>8</sup></b>		<b>TOTAL</b>	<b>17<sup>8</sup></b>	

### Sophomore Year

MAT263 Calc III	3		MAT325 Prob & Stats	3	
MAT264 Calc III Lab	1		MED383 W Problem Solving	3	
MAT270 Discrete Math <sup>8</sup>	3		<b>Upper Div Math Elective</b>	3	
MED200 Field Experience <sup>2</sup>	3		<i>IF: Non-Western Civilizations</i>	3	
<i>IF: American History</i>	3		MAT300 Intro to Proof <sup>1</sup>	3	
<i>IF: Western Civilizations</i>	3				
<b>TOTAL</b>	<b>16</b>		<b>TOTAL</b>	<b>15</b>	

### Junior Year

MAT301 Algebra <sup>3</sup>	3		MAT417 Real Analysis <sup>3</sup>	3	
SPF303 Educational Psychology	3		SPF403 H&P of Education	3	
EDU416 Teaching Literacy <sup>4</sup>	3		MED307 Uses of Tech <sup>5</sup>	3	
MAT322 W Geometry	3		<b>Upper Div Math Elective</b>	3	
<b>Open Elective</b>	3		EDU417 Adolescent Literacy <sup>4</sup>	3	
<b>TOTAL</b>	<b>15</b>		<b>TOTAL</b>	<b>15</b>	

### Senior Year

MED308 & MED300 Math Methods & Field Exp <sup>5,6</sup>	6		MED407 Student Teaching MS	6	
<b>Upper Div Math Elective</b>	3		MED408 Student Teaching HS	6	
<b>Open Elective</b>	3		<i>No employment or other classes allowed during student teaching!</i>		
<b>Open Elective</b>	3		<b>TOTAL</b>	<b>12</b>	
<b>TOTAL</b>	<b>15</b>		<b>OVERALL TOTAL</b>	<b>122</b>	

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

<sup>2</sup> 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.

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

<sup>4</sup> EDU416 is a pre-requisite for EDU417

<sup>5</sup> MED307 is a pre-requisite for MED308.

<sup>6</sup> 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).

<sup>7</sup> 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.

<sup>8</sup> MAT270 is a prerequisite for MAT322, MAT325 and MED383

**(revised 10/1/14)**

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)