



**BACHELOR of SCIENCE in SCIENCE AND MATHEMATICS EDUCATION (#730/#774)**

**Middle Grades Mathematics Major**

School of Teacher Education

College of Education and Behavioral Sciences

Western Kentucky University

The suggested program of study shown below should be used in consultation with your advisor(s). Every student will finish with a unique plan of his/her own depending on the electives selected.

**Success Markers**

**SAMPLE - 4 year plan**

<b>FIRST YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
Visit <a href="#">The Learning Center</a> for free tutoring	MATH 117 – Trigonometry <b>OR</b> MATH 136 – Calculus I (F-QR)	4	MATH 136 – Calculus I <b>OR</b> MATH 137 – Calculus II	4
	ENG 100 Intro to College Writing (F-W1)	3	COMM 145 Fundamentals of Public Speaking (F-OC)	3
	HIST 101 World History I <b>OR</b> HIST 102 World History II (F-SB)	3	Arts and Humanities (E-AH)	3
	Natural & Physical Science with Lab (E-NS, LS)	4	Natural & Physical Science (E-NS)	3
	SMED 101 – Intro to Inquiry-Based Approaches to Teaching (E-SB)	1	SMED 102 – Intro to Inquiry-Based Lesson Design (E-SB)	2
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

<b>SECOND YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
Volunteer or Join a Student Organization like <b>Green Toppers</b>	MATH 205 – Number Theory	3	MATH 206 – Fundamentals of Geometry for Teachers	3
	MATH 183 – Introductory Stats <b>OR</b> STAT 201	3	MATH 413- Algebra and Technology for Middle Grades Teachers	3
	SMED 310 – Knowing & Learning in Mathematics & Science	3	SMED 320 – Classroom Interactions	3
	ENG 200 Intro to Literature (F-AH)	3	ENG 300 Writing in the Disciplines (F-W2)	3
	World Language (if needed) <b>OR</b> General Elective	3	World Language (if needed) <b>OR</b> General Elective	3
			General Elective	1
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>16</b>

**World Language Proficiency:** All students entering in Fall 2014 or later must demonstrate proficiency in a world language at the Novice High level before completing 60 credit hours. Novice high is the ability to communicate in writing and speaking on familiar topics in simple sentences. To meet this requirement, students may take college language courses or take a proficiency test. For more information go to [www.wku.edu/modernlanguages/placement/](http://www.wku.edu/modernlanguages/placement/).

**Colonnade Program:** All students entering in fall 2014 or later must complete 39 hours in 13 specific Colonnade areas. Colonnade areas are listed in parentheses marked in blue after the corresponding classes. Some areas may have specific course requirements while others can be chosen from selected lists of options. For more details and to see lists of options, go to [http://www.wku.edu/colonnade/documents/approved\\_colonnade\\_courses\\_website.pdf](http://www.wku.edu/colonnade/documents/approved_colonnade_courses_website.pdf)

THIRD YEAR	Fall Semester		Spring Semester	
Visit <a href="#">Career Services</a>	MATH 403 – Geometry for Elementary and Middle Teachers <b>OR</b> MATH 323 – Geometry I	3	MATH 411 – Problem Solving for Elementary and Middle School Teachers	3
	MATH 308 – Rational Numbers and Data Analysis for Teachers	3	SMED 360 – Research Methods for Science & Math Teachers	3
	SMED 340 – Perspectives on Math and Science	3	Connections: Local to Global Course ( <a href="#">K-LG</a> )	3
	SPED 330 – Diversity in Learning	3	Connections: Systems ( <a href="#">K-SY</a> )	3
	Connections: Social and Cultural ( <a href="#">K-SC</a> )	3	General Elective	3
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

FOURTH YEAR	Fall Semester		Spring Semester	
Apply for Graduation	MATH 304 – Functions, Applications, and Explorations	3	SEC 490 – Student Teaching	10
	MATH 490 – Seminar in Middle Grades Mathematics	1	SMED 489 – Student Teaching Seminar	3
	SMED 470 – Project Based Instruction	3		
	General Elective	3		
	General Elective	3		
	General Elective	3		
<i>Celebrate!</i>	<b>TOTAL CREDIT HOURS</b>	<b>16</b>	<b>TOTAL CREDIT HOURS</b>	<b>13</b>
<b>Total Credit Hours:120</b>				

- Denotes prerequisite courses before admission
- Students seeking admission to the SMED program must earn a grade of C or higher in SMED 101/102 and must meet [requirements for admission to the Teacher Education Program](#).
- **The SMED program requires completion of 34 hours of professional education courses taught by SKyTeach Faculty and Master Teachers.**
- **All professional education courses in Science and Mathematics Education (SMED) require clinical field experiences in order to meet Kentucky Educational Professional Standards Board (EPSB) guidelines**

*PLEASE NOTE: Prerequisites, Course Numbers, and Course Titles are subject to change. Consult your advisor each semester.*

**For more Information:**

**Department:** School of Teacher Education **Phone:** 270-745-3900

**Website:** [www.wku.edu/skyteach](http://www.wku.edu/skyteach)

Course Descriptions: <http://www.wku.edu/undergraduatecatalog/>

**For more Information:**

**Department:** Mathematics

**Phone:** 270-745-3651

**Website:** [www.wlu.edi/math](http://www.wlu.edi/math)

**Email:** math@wku.edu

Course Descriptions: <http://www.wku.edu/undergraduatecatalog/>