



**BACHELOR of SCIENCE in MATHEMATICS (#728)**

**Teacher Certification**

Department of Mathematics  
 Ogden College of Science and Engineering  
 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.

**SAMPLE – Finish in Four Plan**

FIRST YEAR			
Fall Semester		Spring Semester	
MATH 136 – Calculus I (F-Quantitative Reasoning)	4	MATH 137 - Calculus II	4
SMED 101 – Introduction to Inquiry-Based Lesson Design	1	SMED 102 – Introduction to Inquiry-Based Lesson Design	2
CS 170 – Problem Solving & Programming <b>OR</b> CS 180 – Computer Science I	3-5	COMM 145 – Fundamental of Public Speaking and Communication	3
Colonnade (E-Natural & Physical Science, with lab)	3-4	HIST 101 – World History I <b>OR</b> HIST 102 – World History II (F-World History)	3
ENG 100 – Introduction to College Writing (F-College Composition)	3	Colonnade (E-Social & Behavioral Sciences)	3
<b>TOTAL CREDIT HOURS</b>	<b>14-17</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

SECOND YEAR			
Fall Semester		Spring Semester	
MATH 237 – Multivariable Calculus	4	MATH 310 – Discrete Mathematics	3
MATH 307 - Linear Algebra	3	MATH 304 – Functions, Applications, and Explorations	3
SMED 310 – Knowing and Learning in Mathematics and Science	3	SMED 320 – Classroom Interactions	3
Colonnade (E-Natural & Physical Sciences)	3	Colonnade (E-Arts & Humanities)	3
ENG 200 – Introduction to Literature (F-Literary Studies)	3	Foreign Language	3
<b>TOTAL CREDIT HOURS</b>	<b>16</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

THIRD YEAR			
Fall Semester		Spring Semester	
MATH 317 – Introduction to Algebraic Systems	3	STAT 301 – Introductory Probability and Applied Statistics	3
MATH 323 – Geometry I	3	MATH Elective (400 level*)	3
SMED 340 – Perspectives on Mathematics and Science	3	SMED 360 – Research Methods for Math and Science Teachers	3
Colonnade (F-Writing in the Disciplines)	3	SPED 330 – Introduction to Exceptional Education: Diversity in Learning	3
Colonnade (C-Local to Global)	3	Colonnade (C-Systems)	3
<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

FOURTH YEAR			
Fall Semester		Spring Semester	
MATH 498 – Senior Seminar	3	SMED 489 – SMED Student Teaching Seminar	3
SMED 470 – Project-Based Instruction	3	SEC 490 – Student Teaching	10
LTCY 421 – Reading in Middle / Secondary Grades	3		
Colonnade (C-Social and Cultural)	3		
General Electives	2-5		
<b>TOTAL CREDIT HOURS</b>	<b>14-17</b>	<b>TOTAL CREDIT HOURS</b>	<b>13</b>

**Total Credit Hours: 120**

\* One course from MATH 405, 406, 409, 415, 417, 421, 423, 431, 435, 439, 450, 470, 482.

For more details and courses offered in the Colonnade General Education program visit the [website](#).

**World Language Requirement:** Language Proficiency of novice-high before completing 60 credit hours is required (or completion of 2nd level of a language). Two credits (or equivalent) of a single world language in High School satisfies this WKU requirement.

**For more Information:**

**Department:** Mathematics

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

**Phone:** (270)745-3651

**Email:** [math@wku.edu](mailto:math@wku.edu)

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