



BACHELOR of SCIENCE in MATHEMATICS (#730)
Middle Grades Mathematics 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. Admission to the major is required to register for all 300 and 400 nursing classes. All upper-division nursing courses must be taken in sequence to meet NURS course prerequisite requirements.

SAMPLE – Finish in Four Plan

FIRST YEAR			
Fall Semester		Spring Semester	
MATH 136 – Calculus I (F-Quantitative Reasoning)	4	MATH 183 – Introductory Statistics OR STAT 301 – Introductory Probability and Applied Statistics	3
SMED 101 – Introduction to Inquiry-Based Lesson Design	1	SMED 102 - Introduction to Inquiry-Based Lesson Design	2
ENG 100 – Introduction to College Writing (F-College Composition)	3	HIST 101 – World History I OR HIST 102 – World History II (F-World History)	3
COMM 145 – Fundamentals of Public Speaking and Communication (F-Human Communication)	3	Colonnade (E-Arts & Humanities)	3
Colonnade (E-Social & Behavioral Sciences)	3	Colonnade (E-Natural & Physical Sciences)	3
		Foreign Language	3
TOTAL CREDIT HOURS	14	TOTAL CREDIT HOURS	17

SECOND YEAR			
Fall Semester		Spring Semester	
MATH 302 – Introduction to Advanced Mathematics for Middle Grades Teachers	3	MATH 206 – Fundamentals of Geometry for Teachers	3
MATH 205 – Number Systems and Number Theory for Teachers	3	MATH 413 – Algebra and Technology for Middle Grades Teachers	3
SMED 310 – Knowing and Learning in Mathematics and Science	3	SMED 320 – Classroom Interactions	3
ENG 200 – Introduction to Literature (F-Literary Studies)	3	Colonnade (C-Social to Cultural)	3
Colonnade (E-Natural & Physical Science, with lab)	3-5	Colonnade (C-Local to Global)	3
TOTAL CREDIT HOURS	15-17	TOTAL CREDIT HOURS	15

THIRD YEAR			
Fall Semester		Spring Semester	
MATH 308 – Rational Numbers and Data Analysis for Teachers	3	MATH 411 – Problem Solving for Elementary and Middle School Teachers OR MATH 421 – Problem Solving for Secondary Teachers	3
MATH 323 – Geometry I OR MATH 403 – Geometry for Elementary and Middle School Teachers	3	SMED 360 – Research Methods for Math and Science Teachers	3
SMED 340 – Perspectives on Mathematics and Science	3	General Electives	9
Colonnade (F-Writing in the Disciplines)	3		
Colonnade (C-Systems)	3		
TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	15

FOURTH YEAR			
Fall Semester		Spring Semester	
MATH 304 – Functions, Applications and Explorations	3	SMED 489 – SMED Student Teaching Seminar	3
MATH 490 – Seminar in Middle Grades Mathematics OR MATH 498 – Senior Seminar	3	MGE 490 – Student Teaching	10
SMED 470 – Project-Based Instruction	3		
SPED 330 – Introduction to Exceptional Education: Diversity in Learning	3		
General Electives	2-4		
TOTAL CREDIT HOURS	14-16	TOTAL CREDIT HOURS	13

Total Credit Hours: 120

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

Phone: (270)745-3651

Email: math@wku.edu

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

