



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.

Success Markers

SAMPLE - 4 year plan

FIRST YEAR	Fall Semester		Spring Semester	
	<i>Visit The Learning Center for free tutoring</i>	MATH 136 – Calculus I (F-Quantitative Reasoning)	4	MATH 183 – Introductory Statistics OR STAT 301 – Introductory Probability and Applied Statistics
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	

WINTER TERM	Winter Term	
	<i>Why not Study Abroad?</i>	
TOTAL CREDIT HOURS		

THIRD YEAR <i>Visit Career Services</i>	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 <i>Apply for Graduation</i> <i>Celebrate</i>	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

PLEASE NOTE: Prerequisites, Course Numbers, and Course Titles are subject to change.

Consult your advisor each semester.

Course Descriptions may be viewed at <http://www.wku.edu/catalog>

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/>