

BACHELOR of SCIENCE in SCIENCE AND MATHEMATICS EDUCATION (#730/#774)**General Middle Grades Science 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.

SAMPLE - 4-year plan

Year 1 Fall Semester		Spring Semester	
ASTR 104 – Astronomy of the Solar System OR ASTR 106 – Astronomy of Stellar Systems (E-NS, SL)	3	GEOL 111/113 – The Earth OR GEOL 112/114 – Earth History	4
BIO 120/121 – Cells, Metabolism, and Genetics OR BIO 122/123 – Evolution, Diversity, and Ecology (E-NS)	4	BIO 120/121 – Cells, Metabolism, and Genetics OR BIO 122/123 – Evolution, Diversity, and Ecology	4
ENG 100 Intro to College Writing (F-W1)	3	COMM 145 Fundamentals of Public Speaking (F-OC)	3
MATH 117 – Trigonometry (F-QR)	3	HIST 101 World History I OR HIST 102 World History II (F-SB)	3
SMED 101 – Intro to Inquiry-Based Approaches to Teaching (E-SB)	1	SMED 102 – Intro to Inquiry-Based Lesson Design (E-SB)	2
Elective	2		
TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	16

Year 2 Fall Semester		Spring Semester	
CHEM 105/106 – Fundamentals of Organic Chemistry OR CHEM 120/121 – College Chemistry I	4	PHYS 201 – College Physics OR PHYS 231/232 – Biophysics	4
ENG 200 Intro to Literature (F-AH)	3	SMED 320 – Classroom Interactions	3
Arts and Humanities (E-AH)	3	Elective	3
SMED 210 – Knowing & Learning in Mathematics & Science	3	BIOL 303 – Life Science for Middle Grades Teachers	3
World Language (if needed) OR General Elective	3	World Language (if needed) OR General Elective	3
TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	16

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/.

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

Year 3 Fall Semester		Spring Semester	
PHYS 410 – Physics for Teachers	3	ASTR 405 – Astronomy for Teachers	3
MSS Elective	3	CHEM 470 – Chem. for Teachers	3
SMED 340 – Perspectives on Math and Science	3	ENG 300 Writing in the Disciplines (F-W2)	3
SPED 330 – Diversity in Learning	3	SMED 360 – Research Methods for Science & Math Teachers	3
Connections: Social and Cultural (K-SC)	3	MSS Elective	3
TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	15

Year 4 Fall Semester		Spring Semester	
GEOL 305 – Earth Systems for Teachers	3	MGE 490 – Student Teaching	10
General Education B	3	SMED 489 – Student Teaching Seminar	3
SMED 470 – Project Based Instruction	3		
Connections: Systems (K-SY)	3		
Connections: Local to Global Course (K-LG)	3		
LTCY 421 - Reading Middle/Secondary Grade	3		
TOTAL CREDIT HOURS	18	TOTAL CREDIT HOURS	13

For more Information:

Department: School of Teacher Education

Website: www.wku.edu/skyteach

Phone: 270-745-3900

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