



**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.

**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	ASTR 104 – Astronomy of the Solar System <b>OR</b> ASTR 106 – Astronomy of Stellar Systems (E-NS, SL)	3	GEOL 111/113 – The Earth <b>OR</b> GEOL 112/114 – Earth History	4
	BIO 120/121 – Cells, Metabolism, and Genetics <b>OR</b> BIO 122/123 – Evolution, Diversity, and Ecology (E-NS)	4	BIO 120/121 – Cells, Metabolism, and Genetics <b>OR</b> 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
	HIST 101 World History I <b>OR</b> HIST 102 World History II (F-SB)	3	Arts and Humanities (E-AH)	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		
	<b>TOTAL CREDIT HOURS</b>	<b>16</b>	<b>TOTAL CREDIT HOURS</b>	<b>16</b>

<b>SECOND YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
Volunteer or Join a Student Organization like <b>Green Toppers</b>	CHEM 105/106 – Fundamentals of Organic Chemistry <b>OR</b> CHEM 120/121 – College Chemistry I	4	PHYS 201 – College Physics <b>OR</b> PHYS 231/232 – Biophysics	4
	ENG 200 Intro to Literature (F-AH)	3	SMED 320 – Classroom Interactions	3
	MATH 117 – Trigonometry (F-QR)	3	Elective	3
	SMED 210 – Knowing & Learning in Mathematics & Science	3	BIOL 303 – Life Science for Middle Grades Teachers	3
	World Language (if needed) <b>OR</b> General Elective	3	World Language (if needed) <b>OR</b> General Elective	3
	<b>TOTAL CREDIT HOURS</b>	<b>16</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</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>	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
	<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	GEOL 305 – Earth Systems for Teachers	3	SEC 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		
	<i>Celebrate!</i>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</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

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

**Phone:** 270-745-3900

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