

## Mathematics Secondary Education

### Typical 4-Year Plan

(for students who matriculate prior to Fall 2027  
& formally admitted after 7/1/2025)

First Year			
Fall Term		Spring Term	
Course	Units	Course	Units
SEMS110 Introduction to STEM Teaching I [fall-only]	1	SEMS 120 Introduction to STEM Teaching I [spring-only]	1
SEMS 250 Perspectives on Science and Math (Core Category 5)	3	MATH 265 Elementary Linear Algebra	4
MATH 273 Calculus I	4	MATH 274 Calculus II (Core Category 3)	4
TSEM 102 (Core Category 1)	3	ENGL 102 (Core Category 2)	3
Core Curriculum	3	Core Curriculum	3
Core Curriculum	3		
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>15</b>

Sophomore Year			
Fall Term		Spring Term	
Course	Units	Course	Units
SEMS 230 Knowing and Learning	3	SEMS 240 Classroom Interactions	3
MATH 267 Introduction to Abstract Mathematics	4	MATH 369 Intro to Abstract Algebra or MATH 465 Number Theory or MATH 463 Linear Algebra	4
MATH 275 Calculus III	4	Core Curriculum 7	4
SEMS 260 Diversity/ Difference (Core 13) [fall-only]	3	Mathematics Content Elective	3 – 4
MATH 223 PCK for MS Math [fall-only]	2		
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>14-15</b>

Junior Year			
Fall Term		Spring Term	
Course	Units	Course	Units
SCED 460 Using Literacy in the Secondary Schools	3	SCED 461 Teaching Literacy in the Secondary Content Areas	3
MATH 330 Introduction to Statistical Methods	4	MATH 310 Functions and Modeling (Core 9) [spring-only]	3
MATH 353 Euclidean and Non-Euclidean Geometries [fall-only]	3	Mathematics Content Elective	3 – 4
Core Curriculum	3	Core Curriculum (Core 7)	3
Core Curriculum	3	Core Curriculum	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>15-16</b>

Senior Year			
Fall Term		Spring Term	
Course	Units	Course	Units
SEMS 498 Internship in Mathematics and Science Secondary Education [fall-only] has field placement component	6	MATH 426 Student Teaching in Secondary Education – Mathematics [spring-only; field placement component]	12
MATH 420 Applications of Technology for Secondary School Teachers [fall-only] has field placement component	3		
MATH 423 Teaching Mathematics in the Secondary Schools [fall-only; has field placement component]	4	SEMS 430 Seminar in Apprentice Teaching [spring-only; field placement component]	1
<b>Total</b>	<b>13</b>	<b>Total</b>	<b>13</b>

### Notes:

- The combination of MATH 320 and PHYS 242 cannot be used to satisfy the two content electives.
- The total credit count is 119-121 credits.