

MATHEMATICS: MATHEMATICS & STATISTICS OPTION**Bachelor of Science (BS)**

This is a guide based on the 2023-2024 Undergraduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use Degree Works to monitor their individual progress.

CURRICULUM CHECKLIST**54 Hour Major – No Minor Required**

- ___ MA140 Analytic Geometry & Calculus I (5)
- ___ MA145 Analytic Geometry & Calculus II (4)
- ___ MA160 Introduction to Mathematical Ideas (3)
- ___ MA223 Elementary Probability and Statistics (3)
- ___ MA244 Analytic Geometry & Calculus III (4)
- ___ MA250 Foundations of Mathematics (3)
- ___ MA323 Statistical Methods (3)
- ___ MA334 Mathematical Programming (3)
- ___ MA340 Concepts of Geometry (3)
- ___ MA345 Linear Algebra (3)
- ___ MA350 Differential Equations I (3)
- ___ MA443 Elementary Number Theory (3)
- ___ MA445 Modern Algebra (3)
- ___ MA449 Mathematical Problem Solving (3)
- ___ MA523 Probability & Statistics I (3)

Choose 6 hours from one of the areas below:

Mathematics area:

- ___ MA338 Combinatorics & Graph Theory (3)
- ___ MA464 Mathematical Cryptography (3)
- ___ MA544 Numerical Methods (3)
- ___ MA550 Differential Equations II (3)

Statistics area:

- ___ MA425 Applied Regression Analysis (3)
- ___ MA475 Multivariate Methods (3)
- ___ MA524 Probability & Statistics II (3)
- ___ MA530 Statistical Learning (3)
- ___ MA575 Time Series & Forecasting (3)

General Education Requirements – some requirements may be fulfilled by coursework in major program

- Social and Behavioral Sciences – 6 hours
- Constitution Requirement – 3 hours
- Written Communication – 6 hours
- Oral Communication – 3 hours
- Natural Sciences – 7 hours (from two disciplines, one to include a lab)
- Mathematics – 3 hours
- Humanities & Fine Arts – 9 hours (from at least two disciplines)
- Additional requirements – 5 hours (to include UI100 for native students)
- Civics examination

SAMPLE FOUR-YEAR PLAN

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	UI100	1	MA145	4
	EN100	3	MA223	3
	MA140	5	General Education	3
	MA160	3	General Education	3
	General Education	3	General Education	3
	Total	15	Total	16
SECOND YEAR	MA244	4	MA345	3
	MA250	3	MA350	3
	MA323	3	General Education	3
	General Education	3	General Education	3
	General Education	3	Elective	3
	Total	16	Total	15
THIRD YEAR	MA445	3	MA334	3
	MA449	3	MA340	3
	General Education	3	General Education	3
	General Education	3	Elective	3
	Elective	3	Elective	3
	Total	15	Total	15
FOURTH YEAR	MA523	3	MA443	3
	Math or Stats elective	3	Math or Stats elective	3
	General Education	3	Elective	3
	Elective	3	Elective	4
	Elective	3		
	Total	15	Total	13

Degree requirements for all students: a minimum of 120 credit hours, completion of the General Education program, and completion of 39 senior division hours (300-599). Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.

A minimum 2.0 GPA in the major and overall are required to graduate with a BS degree.



Revised
1/27/2023

2023-2024 *degree map*



SOUTHEAST MISSOURI
STATE UNIVERSITY · 1873®

CENTER FOR ACADEMIC ADVISING / semo.edu/advising
OFFICE OF ADMISSIONS / (573) 651-2590 / admissions@semo.edu