MATHEMATICS - GENERAL (BACHELOR OF SCIENCE)

The Mathematics major consists of prescriptive common courses, prescriptive concentration courses, and elective courses. The General concentration emphasizes coursework designed to give the student sound fundamental skills and to integrate these fundamental skills into a broad knowledge of the content and methods of mathematics as a liberal art (39 hours).

Course	Title	Credits
Jax MIX Gen	eral Education Curriculum	41

The Mathematics major requires completion of the following common courses with a "C" or better.

Course	Title	Credits
MS 125	Calculus I	4
MS 126	Calculus II	4
MS 227	Calculus III	4
MS 300	Introduction to Advanced Mathematics (WI)	3
MS 344	Differential Equations	3
MS 352	Linear Algebra	3
MS 415	Advanced Calculus I (WI)	3
MS 441	Abstract Algebra I (WI)	3

The General concentration requires completion of the following concentration courses with a "C" or better:

Course	Title	Credits
MS 302	Applied Probability and Statistics	3
MS 309	Combinatorics	3
MS 323	College Geometry	3
MS 475	Seminar in Mathematics (WI)	3

In addition to the common, concentration, and elective courses, this concentration requires the following support courses:

Course	Title	Credits
PHS 221	Physics for Scientists and Engineers I w/Lab	4
Select one of the following:		3
CS 230	Fundamentals of Computing (or higher programming course)	
CS 231	Computer Programming I (or higher programmic course)	ng

A minor is not required for students majoring in Mathematics.

Note: This schedule reflects the mathematics program beginning with MS 125 (https://catalog.jsu.edu/search/?P=MS%20125) Calculus I (4). Freshman Mathematics majors needing additional preparation before beginning calculus will be placed in the appropriate algebra or precalculus courses that provide this preparation. See advisor.

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations. More information about Jax MIX requirements (https://catalog.jsu.edu/undergraduate/ jax-mix-requirements/) and Alabama Transfers equivalents (https:// catalog.jsu.edu/undergraduate/alabama-transfers-equivalents/) can be found in their respective section of the catalog.

Freshman		
Fall		Hours
Jax MIX Communication: EH	Composition Sequence	3
MS 125	Calculus I (Jax MIX Communication)	4
Jax MIX Experience: History		3
SSC 101	First Year Experience	0
Select one of the following:		3
CS 230	Fundamentals of Computing (or higher programming course)	
CS 231	Computer Programming I (or higher programming course)	
Spring	Hours	13
Jax MIX Communication: EH	Composition Sequence	3
Jax MIX Expression: Fine Art	ts	3
MS 126	Calculus II	4
Jax MIX Experience (History	if sequence) ¹	3
Jax MIX Experience: Social/I	Behavioral Science	3
·	Hours	16
Sophomore		
Fall		
EH 141	Speech (Jax MIX Communication)	3
Jax MIX Expression: Literatu	re	3
PHS 221	Physics for Scientists and Engineers Lw/Lab	4
MS 227	Calculus III	4
	Hours	14
Spring		
Jax MIX Expression (Literatu	rre if sequence) ¹	3
Jax MIX Inquiry: Science		4
Jax MIX Experience: Social/I	Behavioral Science	3
MS 300	Introduction to Advanced Mathematics (WI)	3
MS 352	Linear Algebra	3
	Hours	16
Junior		
Fall		
MS 309	Combinatorics	3
MS 344	Differential Equations	3
General Electives		10
	Hours	16
Spring		
MS 323	College Geometry	3
MS 441	Abstract Algebra I (WI)	3
General Electives		9
	Hours	15
Senior		
Fall		
MS 302	Applied Probability and Statistics	3
MS 415	Advanced Calculus I (WI)	3
General Electives		9
	Hours	15
Spring		
MS 475	Seminar in Mathematics (WI)	3
General Electives		12
	Hours	15
	Total Hours	120

Either a history sequence or a literature sequence is required.