

BACHELOR OF SCIENCE MATHEMATICS

The Bachelor of Science degree in Mathematics prepares students for jobs requiring quantitative, analytical, and critical mathematics skills. We prepare our students to carry out postgraduate studies and research of international excellence spanning broadly pure mathematics, computational and applied mathematics, statistics, and computational data enabled science and engineering. We foster collaborations with high-tech industries and government agencies with the goal of creating career paths for our students. We strive to showcase the relevance and pervasiveness of mathematics in the modern economy through regular outreach activities.

The Bachelor of Science in Mathematics curriculum develops general qualitative, quantitative and reasoning skills in mathematics. Our graduates pursue advanced studies in mathematics and seek careers as mathematicians in emerging high-tech industries and federal and state agencies. The overall employment of mathematicians is projected to grow 33 percent from 2020 to 2030, much faster than the average for all occupations.

*College of
Science,
Engineering,
and Technology*



COURSE TYPE DESCRIPTIONS

General Education Core	GEC	General Education Core (GEC) courses are courses that every student must take in order to obtain a degree from Jackson State University. GEC courses are essential to every undergraduate degree at Jackson State University. Collectively, there are 30 credit hours of GEC course requirements.
General Education Pathway	PATH	General Education Pathway (PATH) courses are courses that are connected through interdisciplinary themes and are selected at the student's discretion to fulfill the general education curriculum. Through experiential learning and reflective writing, students will have the opportunity to integrate knowledge across courses, develop their skills and an enhanced sense of civic responsibility. Students select nine (9) hours from the pathway of choice. Each pathway concludes with a related one (1) credit hour a University Required (UR) course.
University Required	UR	University Required (UR) courses are courses that are specific to Jackson State University and are designed to integrate students within the Jackson State University community by promoting student success resources, strategies and high impact practices.
Degree Program Requirement	DPR	Degree Program Required (DPR) courses are courses that are required for completion of a degree program within the specified major.
Electives	DPE or GEL	Electives are courses selected at a student's discretion and provide opportunities for students to pursue their academic interests. There are two types of electives. Degree Program Elective (DPE) courses are elective courses that are partially restricted such that students select courses from a specified group of identified courses (e.g., departmental elective courses) to fulfill a particular requirement. General Elective (GEL) courses are courses that may be selected from any program for which the student has fulfilled the proper prerequisites.
Professional Concentrations	PC	Professional Concentration (PC) courses complement Degree Program Required courses and allow students to have a concentrated area of study within the major.

Student Name: _____

J-Number: _____

Advisor: _____



**COLLEGE OF
SCIENCE, ENGINEERING, AND TECHNOLOGY
MATHEMATICS**

Entering Term: _____

Expected Graduation Date: _____

Pathway: _____

FRESHMAN YEAR FALL 1ST SEMESTER

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
UNIV 100	University Success	2	UR		
MATH 241	Calculus I	3	GEC		
ENG 104	Composition I	3	GEC		
	Humanities & Fine Arts Option	3	GEC		
	Social & Behavioral Science Option	3	GEC		
	TOTAL CREDIT HOURS	14	TERM GPA:		

Comments: _____

FRESHMAN YEAR SPRING 2ND SEMESTER

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
MATH 242	Calculus II	3	DPR		
ENG 105	Composition II	3	GEC		
	Natural Science Option	3	GEC		
	Humanities & Fine Arts Option	3	GEC		
	Pathway Option	3	GEC		
	TOTAL CREDIT HOURS	15	TERM GPA:		

Comments: _____

SOPHOMORE YEAR FALL 1ST SEMESTER

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
MATH 243	Calculus III	3	DPR		
	Social & Behavioral Science Option	3	GEC		
	Natural Science Option	3	GEC		
	Humanities & Fine Arts Option	3	GEC		
	Pathway Option	3	PATH		
	TOTAL CREDIT HOURS	15	TERM GPA:		

Comments: _____

SOPHOMORE YEAR SPRING 2ND SEMESTER

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
MATH 244	Calculus IV	3	DPR		
MATH 303W	Set Theory & Logic	3	DPR		
CSC 118	Computer Science I	3	DPR		
UNIV 200	Civic Engagement	1	UR		
	Science Elective with Lab	4	DPE		
	Pathway Option	3	PATH		
	TOTAL CREDIT HOURS	17	TERM GPA:		

Comments: _____

JUNIOR YEAR FALL 1ST SEMESTER

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
MATH 331	Linear Algebra & Matrix Theory	3	DPR		
MATH 368	Ordinary Differential Equations	3	DPR		
	General Elective	3	GEL		
	General Elective	3	GEL		
	Science Elective with Lab	4	DPE		
	TOTAL CREDIT HOURS	16	TERM GPA:		

Comments:

JUNIOR YEAR SPRING 2ND SEMESTER

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
MATH 321W	Modern Geometry	3	DPR		
MATH 355	Probability & Statistics	3	DPR		
	General Elective	3	GEL		
	Math Elective	3	DPE		
	TOTAL CREDIT HOURS	12	TERM GPA:		

Comments:

SENIOR YEAR FALL 1ST SEMESTER

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
MATH 311W	Abstract Algebra	3	DPR		
MATH 351	Advanced Calculus	3	DPR		
	General Elective	3	GEL		
	Math Elective	3	DPE		
	Science Elective with Lab	4	DPE		
	TOTAL CREDIT HOURS	16	TERM GPA:		

Comments:

SENIOR YEAR SPRING 2ND SEMESTER

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
MATH 403S	Mathematics Seminar	3	DPR		
MATH 451	General Topology	3	DPR		
	Mathematics Elective	3	DPE		
	General Elective	3	GEL		
	General Elective	3	GEL		
	TOTAL CREDIT HOURS	15	TERM GPA:		

Comments:

TOTAL HOURS: 120 REQUIRED

*Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100: University Success: however, the student must take 2 hours of general electives to replace the UNIV course.

Student Signature: _____

Advisor Signature: _____