

# BACHELOR OF SCIENCE STATISTICS

The Bachelor of Science degree program in Statistics provides students with a strong foundation in statistical methodology, experience in its applications, a solid background in the use of statistical computing packages, and the skills to communicate the results of statistical analysis. The BS in Statistics program provides courses that prepare students for careers in business, government, and private industry as statisticians and for graduate training in statistics and related fields.

Statistics is the science involving the collection, analysis and interpretation of data. Employment of statisticians is projected to grow 33 percent from 2022 to 2030. Government agencies will employ more statisticians to improve the quality of the data available for policy analysis. Statisticians are needed in the pharmaceutical industry as pharmaceutical companies develop new treatments and medical technologies. Businesses need statisticians to organize, analyze, and sort through the data for commercial reasons. The field will also see growth in research and development in the physical, engineering, and life sciences, where statisticians' skills in designing tests and assessing results prove highly useful.

*College of  
Science,  
Engineering, &  
Technology*



## COURSE TYPE DESCRIPTIONS

General Education Core	GEC	<b>General Education Core (GEC)</b> 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	<b>General Education Pathway (PATH)</b> 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	<b>University Required (UR)</b> 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	<b>Degree Program Required (DPR)</b> courses are courses that are required for completion of a degree program within the specified major.
Electives	DPE or GEL	<b>Electives</b> are courses selected at a student's discretion and provide opportunities for students to pursue their academic interests. There are two types of electives. <b>Degree Program Elective (DPE)</b> 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. <b>General Elective (GEL)</b> courses are courses that may be selected from any program for which the student has fulfilled the proper prerequisites.
Professional Concentrations	PC	<b>Professional Concentration (PC)</b> courses complement Degree Program Required courses and allow students to have a concentrated area of study within the major.

Student Name: \_\_\_\_\_

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

J-Number: \_\_\_\_\_

Advisor: \_\_\_\_\_

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		
ENG 104	Composition I	3	GEC		
MATH 241	Calculus I	3	GEC		
MATH 271	Elementary Statistics	3	DPR		
	Humanities & Fine Arts Option	3	GEC		
	Social & Behavioral Sciences Option	3	GEC		
	TOTAL CREDIT HOURS	17	TERM GPA:		

Comments:

**FRESHMAN YEAR SPRING 2ND SEMESTER**

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
ENG 105	Composition II	3	GEC		
MATH 242	Calculus II	3	DPR		
STAT 272	Data Analysis	3	DPR		
	Natural Science Option	3	GEC		
	Humanities & Fine Arts Option	3	GEC		
	Pathway Option	3	PATH		
	TOTAL CREDIT HOURS	18	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		
STAT 350	Comp Stat & Data Management	3	DPR		
	Social & Behavioral Science Option	3	GEC		
	Natural Science 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
UNIV 200	Civic Engagement	1	UR		
MATH 244	Calculus IV	3	DPR		
MATH 331	Linear Algebra & Matrix Theory	3	DPR		
STAT 300	Regression Analysis	3	DPR		
	Humanities & Fine Arts Option	3	GEC		
	Pathway Option	3	PATH		
	TOTAL CREDIT HOURS	16	TERM GPA:		

Comments:

JUNIOR YEAR FALL 1ST SEMESTER					
COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
MATH 351	Advanced Calculus	3	DPR		
MATH 355	Probabilities & Statistics I	3	DPR		
	Science Elective with Lab	4	DPE		
	General Elective	3	GEL		
	TOTAL CREDIT HOURS	13	TERM GPA:		
Comments:					

JUNIOR YEAR SPRING 2ND SEMESTER					
COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
MATH 356	Probability & Statistics II	3	DPR		
MATH 368	Ordinary Differential Equations	3	DPR		
STAT 357	Actuarial SC Exam I Prep	3	DPR		
STAT 455	Experimental Design	3	DPR		
	General Elective	3	GEL		
	TOTAL CREDIT HOURS	15	TERM GPA:		
Comments:					

SENIOR YEAR FALL 1ST SEMESTER					
COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
STAT 323	Nonparametric Statistics	3	DPR		
STAT 414	Multivariate Data Analysis	3	DPR		
	Science Elective with Lab	4	DPE		
	General Elective	3	GEL		
	TOTAL CREDIT HOURS	13	TERM GPA:		
Comments:					

SENIOR YEAR SPRING 2ND SEMESTER					
COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
STAT 408	Time Series Analysis	3	DPR		
STAT 418	Statistics Seminar	3	DPR		
	Science Elective with Lab	4	DPE		
	General Elective	3	GEL		
	TOTAL CREDIT HOURS	13	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 UNIV 100.

Student Signature: \_\_\_\_\_

Advisor Signature: \_\_\_\_\_