

**BACHELOR OF  
SCIENCE  
BIOLOGY**

*Pre-Medicine, Pre-Veterinary,  
Pre-Dentistry or Pre-Optometry*

In this program, students develop the skills and knowledge necessary for careers in medicine, dentistry, optometry, veterinary medicine, and biomedical research. Graduates of the program are prepared for success in professional and doctoral programs, as well as careers in biomedical science research.

*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: \_\_\_\_\_

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

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



**COLLEGE OF SCIENCE, ENGINEERING AND  
TECHNOLOGY**

**BIOLOGY**

**CONCENTRATION: PRE-MED, PRE-DENT, PRE-OPT, PRE-VET**

Entering Term: \_\_\_\_\_

Expected Graduation Date: \_\_\_\_\_

Pathway: \_\_\_\_\_

**FRESHMAN YEAR FALL 1ST SEMESTER**

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
BIO 111 & BIOL 111	General Biology I & Lab	4	DPR		
CHEM 141 & CHML 141	General Chemistry I & Lab	4	GEC		
MATH 111	College Algebra	3	GEC		
ENG 104	Composition I	3	GEC		
UNIV 100	University Success	2	UR		
TOTAL CREDIT HOURS		16	TERM GPA:		

Comments:

**FRESHMAN YEAR SPRING 2ND SEMESTER**

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
BIO 112 & BIOL 112	General Biology II & Lab	4	DPR		
CHEM 142 & CHEML 142	General Chemistry II & Lab	4	DPR		
MATH 112	Trigonometry	3	DPR		
ENG 105	Composition II	3	GEC		
	Pathway Option	3	PATH		
TOTAL CREDIT HOURS		17	TERM GPA:		

Comments:

**SOPHOMORE YEAR FALL 1ST SEMESTER**

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
BIO 115 & BIOL 115	General Zoology & Lab	4	DPR		
CHEM 241 & CHML 241	Organic Chemistry I & Lab	4	DPR		
MATH 241	Calculus I	3	DPR		
	Social & Behavioral Science Option	3	GEC		
	Pathway Option	3	PATH		
TOTAL CREDIT HOURS		17	TERM GPA:		

Comments:

**SOPHOMORE YEAR SPRING 2ND SEMESTER**

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
BIO 119 & BIOL 119	General Botany & Lab	4	DPR		
CHEM 242 & CHEML 242	Organic Chemistry II & Lab	4	DPR		
UNIV 200	Civic Engagement	1	UR		
	Humanities & Fine Arts Option	3	GEC		
	Pathway Option	3	PATH		
TOTAL CREDIT HOURS		15	TERM GPA:		

Comments:

**JUNIOR YEAR FALL 1ST SEMESTER**

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
BIO 114	Introduction to Marine/Environmental Sciences	2	DPR		
PHY 201 & PHY 201	Basic Physics I & Lab	4	GEC		
BIO 313 & BIOL 313	Introduction to Microbiology	4	DPR		
CSC 115	Computer Digital Principles	3	DPR		
	Humanities & Fine Arts Option	3	GEC		
TOTAL CREDIT HOURS		16	TERM GPA:		

Comments:

**JUNIOR YEAR SPRING 2ND SEMESTER**

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
BIO 318 & BIOL 318	Introduction to Genetics & Lab	4	DPR		
BIO 390 (W)	Seminar in Biology	1	DPR		
PHY 202 & PHY 202	Basic Physics II & Lab	4	DPR		
	Social & Behavioral Science Option	3	GEC		
	Humanities & Fine Arts Option	3	GEC		
TOTAL CREDIT HOURS		15	TERM GPA:		

Comments:

**SENIOR YEAR FALL 1ST SEMESTER**

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
BIO 470 & BIOL 470 (W)	Human Physiology and Lab	4	DPR		
PSY 201	General Psychology	3	DPR		
	Biology Elective	4	DPE		
	General Elective	3	GEL		
TOTAL CREDIT HOURS		14	TERM GPA:		

Comments:

**SENIOR YEAR SPRING 2ND SEMESTER**

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
BIO 440 & BIOL 440	Cell Biology	4	DPR		
	Biology Elective	4	DPE		
	Biology Elective	3	DPE		
	General Elective	3	GEL		
TOTAL CREDIT HOURS		14	TERM GPA:		

Comments:

TOTAL HOURS: 124 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 courses.

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

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