

BACHELOR OF SCIENCE BIOLOGY

Marine Science

The Marine Science program is an interdisciplinary program in which students build a wide ranging foundational understanding of the biological, chemical, and physical interactions common in marine and coastal ecosystems. Graduates of the program are prepared for a variety of marine oriented careers in academia, government, and private sectors; examples of which include: marine biology, oceanography, marine ecology, ocean modeling, and marine chemistry.

*College of
Science,
Engineering, &
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
BIOLOGY
CONCENTRATION: MARINE SCIENCE**

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 119 & BIOL 119	General Botany & Lab	4	DPR		
CHEM 241 & CHML 241	Organic Chemistry I & Lab	4	DPR		
MATH 241	Calculus I	3	DPR		
	Humanities & Fine Arts 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 115 & BIOL 115	General Zoology & Lab	4	DPR		
CHEM 242 & CHEML 242	Organic Chemistry II & Lab	4	DPR		
UNIV 200	Civic Engagement	1	UR		
	Social & Behavioral Science 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 313 & BIOL 313	Introduction to Microbiology	4	DPR		
BIO 114	Introduction to Marine/Environmental Science	2	DPR		
BIO 392	Independent Studies	2	DPR		
PHY 201 & PHYL 201	Basic Physics I & Lab	4	GEC		
	Humanities & Fine Arts Option	3	GEC		
TOTAL CREDIT HOURS		15	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 304	Marine Science	2	DPR		
BIO 390	Seminar in Biology	1	DPR		
PHY 202 & PHYL 202	Basic Physics II & Lab	4	DPR		
	Social & Behavioral Science Option	3	GEC		
TOTAL CREDIT HOURS		14	TERM GPA:		

Comments:

SENIOR YEAR FALL 1ST SEMESTER

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
BIO 436 & BIOL 436	Marine Botany & Lab	4	DPR		
	Biology Elective	4	DPE		
	Marine Science Elective	3	DPE		
	Humanities & Fine Arts Option	3	GEC		
TOTAL CREDIT HOURS		14	TERM GPA:		

Comments:

SENIOR YEAR SPRING 2ND SEMESTER

COURSE	COURSE TITLE	CREDIT HOURS	COURSE TYPE	GRADE	SUCCESS MARKER/NOTE
	Marine Science Elective	4	DPE		
	Biology Elective	4	DPE		
	General Elective	3	GEL		
	General Elective	3	GEL		
TOTAL CREDIT HOURS		14	TERM GPA:		

Comments:

On-line Graduation Clearance (TO BE COMPLETED DURING THE GRADUATING SEMESTER ONLY)

TOTAL HOURS: 122 (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: _____