BACHELOR OF SCIENCE

BIOLOGY

Marine Science Track

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

Degree Map: Catalog 2023-2024

Student Name: _____

J-Number:_____

Advisor: _____

COLLEGE OF SCIENCE, ENGINEERING AND TECHNOLOGY

BIOLOGY

CONCENTRATION: MARINE SCIENCE TRACK

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 103 or MATH 111	College Algebra	3	GEC		
ENG 103 or 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 & CHML 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 200 & BIOL 200	Introduction to Cell Biology & 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 209 & BIOL 209	Principles of Genetics & Lab	4	DPR		
CHEM 242 & CHML 242	Organic Chemistry II & Lab	4	DPR		
UNIV 200	Civic Engagement	1	UR		
	Statistics Elective	3	DPE		
	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 390	Seminar in Biology	1	DPR		
BIO 447 & BIOL 447	Introduction to Oceanography	4	DPR		
PHY 201 & PHYL 201	Basic Physics I & Lab	4	GEC		
	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 423 & BIOL 423	Ecology & Lab	4	DPR		
BIO 425 & BIOL 425	Introduction to Marine Biology & Lab	4	DPR		
PHY 202 & PHYL 202	Basic Physics II & Lab	4	DPR		
	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 395 or CHEM 431	Principles of Biochemistry or Biochemistry I	3	DPR		
	Marine Science Electives	11	DPE		
	TOTAL CREDIT HOURS	14	TERM GPA:		
Comments:					

SENIOR YEAR SPRING 2ND SEMESTER					
COURSE	**COURSE TITLE**	**CREDIT HOURS**	**COURSE TYPE**	**GRADE**	**SUCCESS MARKER/NOTE**
	Social & Behavioral Science Option	3	GEC		
	Humanities & Fine Arts Option	3	GEC		
	Marine Science Electives (300-400 Level)	8	DPE		
	TOTAL CREDIT HOURS	14	TERM GPA:		
Comments:					

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

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 course.

Student Signature: _____ Advisor Signature: _____

Marine Science Electives		
Course	**Course Title**	**Credit Hours**
BIO/L 115	General Zoology	3/1
BIO/L 119	General Botany	3/1
BIO 201	Environmental Sciences	3
BIO 302	Introduction to Bioinformatics and Computational Biology	3
BIO 332	Parasitology	3
BIO 335	Introduction to Animal Sciences	3
BIO 391	Introduction to Research	2
BIOL 395	Principles of Biochemistry Lab	1
BIO 404	Environmental Sciences	3/1
BIO/L 406	Human Environments and Natural Systems	3/1
BIO/L 412	Natural Resources & Conservation	3/1
BIO/L 431	Invertebrate Zoology	3/1
BIO 433	Biology of Water Pollution	3
BIO 435	Animal Nutrition	3
BIO/L 440	Cell Biology	3/1
BIO 450	General Entomology	3
BIO 451	Introduction to Immunology	3
BIO 461	Introduction to Virology	3
SCI/L 201	Physical Science	3/1
SCI/L 205	Earth and Space Science	3/1
SCI 215	Global Change	3
SCI/L 310	Earth History	3/1
SCI 320	Sedimentary Environments	3
SCI 331	Introduction to GIS/Remote Sensing	3
SCI 410	Oceanography	3
SCI 425	Environmental Geology	3
ITEM 402	Basic GIS and Remote Sensing	3
STATISTICS ELECTIVE		
Course	**Course Title**	**Credit Hours**
BIO 202	Elementary Biostatistics	3
MATH 271	Elementary Statistics	3
PSY 211	Statistics I	3
STAT 115	Introductory Statistics	3