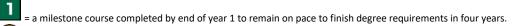


Northwest Missouri State University Department of Natural Sciences Marine Biology Comprehensive Major – No Minor Required Bachelor of Science

Term 1	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-106/107	Principles of Biology & Lab		4	
24-114/115	General Chemistry I & Lab		4	
10-111	Composition		3	
17-116 OR	Math Modeling OR		3-5	
17-118 OR	Precalculus Algebra OR			
17-117 OR	Precalculus OR			
17-120	Calculus			
77-101	University Seminar		1	
		Total Hours	15-17	
Term 2	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-112/113 OR	General Botany & Lab OR	Principles of Biology & Lab	4	
04-114/115	General Zoology & Lab			
24-116/117	General Chemistry II & Lab	General Chemistry I & Lab	5	
10-112	Composition II	Composition I	3	
	Digital Literacy		3	
		Total Hours	15	
Term 3	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-112/113 OR	General Botany & Lab OR	Principles of Biology & Lab	4	
04-114/115	General Zoology & Lab			
25-110/111	General Physics I & Lab	Mathematical Modeling	4	
		OR Precalculus OR		
		Precalculus Algebra or		
		Calculus I		
24-342/343	Organic Chemistry I & Lab	General Chemistry II & Lab	4	
		Total Hours	12	
Term 4	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-312	Invertebrate Zoology	General Zoology & Lab	4	
25-112/113	General Physics II & Lab	Mathematical Modeling	4	
		OR Precalculus OR		
		Precalculus Algebra or		
		Calculus I		
17-114	General Statistics	ACT Score of 22 or higher,	3	
		high school GPA of 2.0 or		
		higher or concurrent		
		enrollment in Strategies		
		for General Statistics		
	Elective		1	
		Total Hours	12	



= a milestone course completed by end of year 2 to remain on pace to finish degree requirements in four years.

= a milestone course completed by end of year 3 to remain on pace to finish degree requirements in four years.

a milestone courses taken in final year to complete degree requirements.

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Term 5	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-351/353	Marine Science I: Oceanography & Lab	Principles of Biology & Lab AND General Chemistry I & Lab	5	SUMMER ONLY Taught at University of Southern Mississippi, Gulf
04-352/353	Marine Science II: Marine Biology	Principles of Biology & Lab AND General Zoology & Lab OR General Botany & Lab	5	Coast Research Laboratory
		Total Hours	10	
Term 6	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-376	Basic Ecology	General Zoology & Lab	4	FALL ONLY course
04-348	Biological Evolution & Diversity	General Botany & Lab AND General Zoology & Lab	2	
32-101	Intro to Geography		3	Recommended Social & Behavioral Science class
	Social & Behavioral Science		3	
29-102	Fundamentals of Oral Communication		3	
		Total Hours	15	
Term 7	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-140	General Microbiology	General Biology & Lab OR Principles of Biology & Lab AND General Chemistry I & Lab	4	
04-350	Genetics	Principles of Biology & Lab	4	
	American Experience		3	
	Global Experience		3	
		Total Hours	14	
Term 8	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
34-102	Intro to American Government		3	
10-220	Intro to Literature		3	
32-365	Geographic Information Systems	Maps & Spatial Reasoning OR Junior Standing	3	
	Biology Elective		4	Course 300 or above
		Total Hours	13	
Term 9	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
	Fine Art		3	
04-491	Biological Sciences Seminar	Genetics	1	
	Elective		3	
	Western Experience		3	
04-330	Animal Anatomy & Physiology	General Zoology & Lab AND General Chemistry I & Lab	4	
		Total Hours	14	



= a milestone course completed by end of year 1 to remain on pace to finish degree requirements in four years.

= a milestone course completed by end of year 2 to remain on pace to finish degree requirements in four years.

= a milestone course completed by end of year 3 to remain on pace to finish degree requirements in four years.

4 = a milestone courses taken in final year to complete degree requirements.