BIOLOGICAL SCIENCES DEGREE: Conservation Biology Emphasis Plan (AY 2021-2022)

GENERAL EDUCATION CURRICULUM (See Undergraduate Bulletin for full description of GEC)

GEC 01.	Written Communication (Select both) ENG 101 - Composition One ENG 102 - Composition Two	Credit Hours 3 3
GEC 02.	Natural Science Requirement (Select both) BSC 110/L* - Principles of Biological Sciences I & Lab BSC 111/L* - Principles of Biological Sciences II & Lab	3/1 3/1
01. 02.	Humanities (Select 3 courses) REQUIRED: ENG 203 - World Literature SELECT 2 courses. One history course is required. HIS 101 - World Civilizations: Beginning to 1500 C.E. HIS 102 - World Civilizations: 1500 C.E. to the Present PHI 151 - Introduction to Philosophy PHI 171 - Ethics and Good Living REL 131 - Comparative Religions	3 3 3 3 3
GEC 04.	Aesthetic Values. SELECT 1 course. ART 130 – Art Appreciation DAN 130 - Dance Appreciation MUS 165 - The Enjoyment of Music THE 100 - Theatrical Expressions	3 3 3 3
GEC 05.	Social and Behavioral Sciences. SELECT 2 courses. ANT 101 - The Human Experience: A Global Perspective on Human Diversity COH 100 - Concepts of Wellness ECO 101 - Basic Economics GHY 101 - World Geography: Dynamics of a Changing Earth PS 101 - American Government PSY 110 - General Psychology SOC 101 - Understanding Society: Principles of Sociology	3 3 3 3 3 3
GEC 06.	Mathematics Requirement. SELECT 1 of the following calculus courses. ** MAT 114 - Calculus for Arts and Science OR MAT 167 - Calculus I with Analytical Geometry	3 3
GEC 07.	Writing-Intensive Requirement. SELECT 1 course. BSC 345, 435, 441, 452, 455 or ENG 333 - Technical Writing (WI) (Prerequisites = ENG 101 & 102)	3
GEC 08.	Speaking-Intensive Requirement. SELECT 1 course. CMS 111 - Oral Communication CMS 305- Interpersonal Communication CMS 320 - Business and Professional Speaking CMS 330 - Small Group Communication	3 3 3 3
GEC 09.	Capstone Requirement (Major Area). BSC 497* - Senior Practicum	1

^{*}This course is required for this major.

^{**}Calculus is required for this major. MAT 114 is recommended for biology majors. MAT 167 is generally taken by student desiring a minor or a second major in mathematics. Students may enroll in MAT 114 if their ACT mathematics subtest score is ≥24. Students enrolling in MAT 167 must have an ACT mathematics subtest score of ≥ 26. Students entering USM with an ACT mathematics subtest score of 20 to 23 must complete MAT 101 (College Algebra) with a C or better before taking MAT 114. Students entering USM with an ACT mathematics subtest score of ≤ 19 must take MAT 099 (Intermediate Algebra) during their first semester and earn at least a C prior to enrolling in MAT 101(which must also be completed satisfactorily prior to enrolling in MAT 114). MAT 103 (Trigonometry) is recommended for students lacking a good background in mathematics.

PROGRAM CURRICULUM

DEG 01. Major Area of Study Requirements

TOTAL BSC HOURS MUST EQUAL A MINIMUM OF 41 HOURS, including BSC 110/L, BSC 111/L, and BSC 497. Students must complete a minimum of three laboratory-based BSC courses at the 300-400 level.

01. BSC 197 - First Year Found 02. BSC 201/L - General Zoolo 03. BSC 226/L - General Micro	gy & Lab y & Lab	he BSC 28	2/L starting Spring 2020)	3/1	1 3/1 3/1	
05. BSC 305 - Evolution						
06. BSC 340 - Introductory Eco	nlogv				3 3	
07. BSC 370 - Genetics					3	
08. BSC 380/L - General Microbiology & Lab (will be BSC 282/L starting Spring 2020)						
	B. Physiology Elective. SELECT 1 course.					
BSC 360 - Cell Biology		3	BSC 452 - Environmental Phy	ysiology	3	
BSC 450 - Comparative Ani	imal Physiology	3	BSC 453 - Invertebrate Physi		3	
BSC 451 - Human Physiolog	gy	3	BSC 487/L - Microbial Physio	logy & Lab	3/1	
09. Ecology Elective. SELECT 1	course.					
BEE 440 - Urban Ecology		1	BSC442/L - Behavioral Ecology & Lab		3	
BSC 382 - Microbial Ecolog	;y	3	BSC 472 - Population Genetics		3/1	
BSC 435/L - Plant Ecology 8	& Lab	3/1	BSC 489/L - Environ. Microbi	iology & Lab	3/1	
10. Organism Electives. SELEC						
BSC 407/L - Biology of Vert		3/1	BSC 426/L - Introduction to I		3/1	
BSC 408/L - Invertebrate Z		3/1			3/1	
BSC 411/L - Entomology &		3/1	BSC 430/L - Aquatic & Marsh		2/2	
BSC 414/L - Ichthyology &		3/1	BSC 433/L - Plant Systemation		2/2	
BSC 417/L – Herpetology 8		3/1	BSC 434/L - Dendrology & Lab		2/2	
BSC 418/L - Avian Biology 8	& Lab	3/1	BSC 455/L - Animal Behavior	& Lab	3/1	
11. Community and Ecosystem Elective. SELECT 1 course.						
BSC 406Biogeography		3	BSC 441/L - Pop. and Commi		3/1	
BSC 436/L - Conservation E	• .	3/1	BSC 444/L - Limnology & Lab		3/1	
BSC 439/L - Marine Ecolog	y & Lab	3/1	BSC 345/L - Marine Biology 8	& Lab (WI)	3/1	
DEG 02. Additional Requirements (27	· ·					
01. CHE 106/L - General Chem					3/1 3/1	
02. CHE 107/L - General Chemistry II & Lab						
03. CHE 255/L - Organic Chemistry I & Lab						
04. CHE 256/L - Organic Chemistry II & Lab OR CHE 420/L - Principles of Biochemistry & Lab						
05. PHY 111/L - General Physics I & Lab						
06. PHY 112/L - General Physics II & Lab					3/1 3	
07. PSY 360 - Intro to Statistics for Behavioral Sciences						

DEG 03. Minor Area of Study (Optional)

DEG 04. Electives – Choose as needed (see hours to degree below).

Hours to Degree at The University of Southern Mississippi: 124 hours are needed to graduate with a BS in Biological Sciences with an emphasis in Biomedical Sciences. At least 50 percent of the hours applied to a degree at The University of Southern Mississippi must be earned from a senior college, and 30 of these hours must be in courses numbered 300 or above. The student must earn at least 21 of the last 30 hours of course work and at least 12 hours in the major area of study from Southern Miss. See Residence Hour Requirements for more information.