

BIOLOGICAL SCIENCES DEGREE: General Biology Emphasis Plan (AY 2017-2018)

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

GEC 01. Written Communication (Select both)	Credit Hours
ENG 101 - Composition One	3
ENG 102 - Composition Two	3
GEC 02. Natural Science Requirement (Select both)	
BSC 110/L* - Principles of Biological Sciences I & Lab	3/1
BSC 111/L* - Principles of Biological Sciences II & Lab	3/1
GEC 03. Humanities (Select 3 courses)	
01. REQUIRED: ENG 203 - World Literature	3
02. SELECT 2 courses from the following list. It is REQUIRED that one of the selected courses be a History course.	
HIS 101 - World Civilizations: Beginning to 1500 C.E.	3
HIS 102 - World Civilizations: 1500 C.E. to the Present	3
PHI 151 - Introduction to Philosophy	3
PHI 171 - Ethics and Good Living	3
REL 131 - Comparative Religions	3
GEC 04. Aesthetic Values. SELECT 1 course from the following list.	
ART 130 – Art Appreciation	3
DAN 130 - Dance Appreciation	3
MUS 165 - The Enjoyment of Music	3
THE 100 - Theatrical Expressions	3
GEC 05. Social and Behavioral Sciences. SELECT 2 courses from the following list.	
ANT 101 - THE Human Experience	3
COH 100 - Concepts of Wellness	3
ECO 101 - Basic Economics	3
GHY 101 - World Regional Geography	3
PS 101 - American Government	3
PSY 110 - General Psychology	3
SOC 101 - Understanding Society	3
GEC 06. Mathematics Requirement. SELECT 1 of the following calculus courses. **	
MAT 114 - Calculus for Arts and Science OR	3
MAT 167 - Calculus I with Analytical Geometry	3
GEC 07. Writing-Intensive Requirement. SELECT 1 course.	
ENG 333 - Technical Writing (WI) OR any upper-level approved writing-intensive (WI) class	3
GEC 08. Oral Communication Requirement. SELECT 1 course.	
CMS 111 - Oral Communication	3
CMS 305- Interpersonal Communication	3
CMS 320 - Business and Professional Speaking	3
CMS 330 - Small Group Communication	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 also complete a minimum of three laboratory-based BSC courses at the 300-400 level. General Microbiology & Lab (DEG 01.07) may be used as one of these three upper level lab courses if taken at or above the 300 level.

01. BSC 197 - First Year Foundations	1
02. BSC 201/L - General Zoology & Lab	3/1
03. BSC 226/L - General Botany & Lab	3/1
04. BSC 340 - Introductory Ecology	3
05. BSC 360 - Cell Biology	3
06. BSC 370 - Genetics	3
07. BSC 380/L - General Microbiology & Lab	3/1

08. Physiology Elective. **SELECT one course.**

BSC 431 - Plant Physiology	3
BSC 450 - Comparative Animal Physiology	3
BSC 451 - Human Physiology	3
BSC 452 - Environmental Physiology	3
BSC 453 - Invertebrate Physiology	3
BSC 487/L - Microbial Physiology & Lab	3/1

09. BSC Electives: **SELECT an additional 6-8 hours of 300 or 400 level BSC courses.**

DEG 02. Additional Requirements (27 hours)

01. CHE 106/L - General Chemistry I & Lab	3/1
02. CHE 107/L - General Chemistry II & Lab	3/1
03. CHE 255/L - Organic Chemistry I & Lab	3/1
04. CHE 256/L - Organic Chemistry II & Lab OR CHE 420/L – Principles of Biochemistry & Lab	3/1
05. PHY 111/L - General Physics I & Lab	3/1
06. PHY 112/L - General Physics II & Lab	3/1
07. Select 1 course from the following list:	
PSY 360 - Intro to Statistics for Behavioral Sciences	3
BSC 494 - Experimental Design and Data Analysis in Biology	3

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 credit hours are needed to graduate with a B.S. in Biological Sciences. At least 50% of the hours applied to the degree at The University of Southern Mississippi must be earned in a senior college, and a minimum of 45 of these hours must be in courses numbered 300 or above. Students must earn at least 25% of the credit hours needed for their degree from the University of Southern Mississippi. Students must earn at least 21 of the last 30 hours of course work from The University of Southern Mississippi. In addition, students must earn at least 12 hours at the 300-400 course level, as well as their capstone course, in their major field of study at The University of Southern Mississippi.