

**GIS- Environmental Science Biology Double Major 2018**  
**Geographic Information Systems (GIS) and ENBI**

Name: \_\_\_\_\_ S#: \_\_\_\_\_ Date: \_\_\_\_\_

Email: \_\_\_\_\_ PIN: \_\_\_\_\_ Date Enrolled: \_\_\_\_\_

<b>Area I - Written Composition</b>	<b>Hrs</b>	<b>Grade</b>	<b>Sem</b>	<b>Notes</b>
English Composition I: ENGL 1010 or ENGL 1017	3			
English Composition II: ENGL 1020 or ENGL 1027	3			
<b>Area II - Humanities and Fine Arts</b>				
Literature: ENGL 2530, 2540, 2570, 2580, 2600, 2610 (Minimum 3 hrs)	3			
Fine Arts: MUSI 2110, THEA 2040, VISU 1000, 2030, 2040 (Minimum 3 hrs)	3			
Public Speaking : COMM 2212	3			
Elective: Foreign Language suggested	3			
<b>Area III - Natural Science and Mathematics</b>				
Biology I with Lab: BIOL 1010/1011, BIOL 1017/1018	4			
Biology II with Lab: BIOL 1020/1021, BIOL 1027/1028	4			
Math Core: 1050, 1100, 1120, 1150, 1610, or 1620	3/4			
<b>Area IV - History, Social Sciences and Behavioral Sciences</b>				
History: HIST 1010, 1020, 1060, 1070, 2010, 2020	3			
Geography: GEOG 2050 or 2150	3			
Cultural Anthropology: ANTH 2110	3			
Elective: History: HIST 1010, 1020, 1060, 1070, 2010, 2020 suggested	3			
<b>University Success: UNIV 1000</b>	<b>3</b>			
<b>Area V- Required Courses for Environmental Science majors</b>				
Introduction to Environmental Science: ENSC 1000	1			
Environmental Science Seminar: ENSC 2952	1			
General Chemistry I with lab: CHEM 1100/1101	4			
General Chemistry II with lab: CHEM 1200/1201	4			
Organic Chem I or Survey Organic Chem: CHEM 3100/3101 or 2300/2301	4			
Introduction to GIS: GEOG 3950	4			
Biostatistics: BIOL 2200	3			
Introduction to Earth Science: PSCI 1300/1301	4			
Ecology (WI): BIOL 4200/4201	4			
Environmental Pollution and Control: BIOL 4230/4231	4			
Applied Research (WI): GEOG 4990 or Capstone (WI): ENSC 4952	4			
<b>Area V- Required Courses for EGIS and GIS</b>				
Botany: BIOL 2023 or 2020/2021	4			
Zoology: BIOL 2033 or 2030/2031	4			
Genetics: BIOL 3300/3301	4			
Ecosystems: BIOL 4240	3			
Microbiology: BIOL 3010/3011	4			
Spatial Statistics: GEOG 4965	4			

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Cartography: GEOG 3940	4			
Advanced GIS: GEOG 4950	4			
Remote Sensing – GPS: GEOG 4960	4			
3D and Raster GIS: GEOG 4970	4			
Python Scripting: GEOG 4930	4			
GIS and Environmental Management: GEOG 4985	3			
Landscape Ecology: ENSC 4013	4			
Technology in GIS: GEOG 4980	3			

Only 4 hours of Directed Research (BIOL/ENSC 4932) can count as an elective.

**Total Hours: 134-135**

Core GPA = \_\_\_\_\_ BIOL/ENSC/GEOG GPA = \_\_\_\_\_ AUM GPA = \_\_\_\_\_ Overall GPA+ \_\_\_\_\_

**NOTES:**

**Additional Information:** <http://sciences.aum.edu/departments/biology>

Freshman and sophomores should make an appointment with Sciences Central Advising 244-3592, Room 125, Taylor Center. Juniors and seniors should make an appointment with their biology advisor: <http://sciences.aum.edu/departments/biology/advising>

1000 level courses are freshman level, 2000 are sophomore level, 3000 are junior level, and 4000 are senior level. Each undergraduate student will be classified according to the number of semester credit hours earned at Auburn University Montgomery and other institutions as follows: freshman, 27 or fewer; sophomore, 28 to 57; junior, 58 to 87 senior, 88 or more.

In planning the sequence of your courses, you should be aware of the required prerequisite or co-requisites. These are listed with the course descriptions in the catalog. It is the responsibility of the student to know these requirements and to comply with them when registering. Any waiver of these requirements must be approved by the instructor of the course and/or the head of the department in which the course is taught.

The Department of Biology and Environmental Science requires that students complete two writing intensive courses. One of these is GEOG 4990, Research in GIS, and the other is an elective in ENSC, BIOL or GEOG which also may be required for your concentration. Writing intensive courses are designated “WI” on the schedule and have a required number of writing assignments in the class.

**UNIVERSITY CORE CURRICULUM (Areas I, II, III, and IV)**

See the current AUM Undergraduate Catalog for approved university (Areas I, II, III, and IV) core courses and the hours required in each of the four areas. Students must make a C or better in English Composition.