

# GEOGRAPHIC INFORMATION SCIENCE

## Bachelor of Science (BS)

This is a guide based on the 2024-2025 Undergraduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use Degree Works to monitor their individual progress.

### CURRICULUM CHECKLIST

#### 45 hours required – No Minor Required

- \_\_\_ AG444 Spatial Analysis (3)
- \_\_\_ CS101 Introduction to Computer Programming (3)
- \_\_\_ CS440 Database (3)
- \_\_\_ GG140 Physical Geography (3)
- \_\_\_ GG180 Cultural Geography (3)
- \_\_\_ GG230 Introduction to Cartography (3)
- \_\_\_ GO110/010 Physical Geology (3)
- \_\_\_ GT101 Introduction to Geographic Information Science I (3)
- \_\_\_ GT102 Introduction to Geographic Information Science II (3)
- \_\_\_ GT340/GO340 Remote Sensing (3)
- \_\_\_ GT445/GO445 Advanced Geographic Information Science (3)
- \_\_\_ GT520/GO520 GIS Application (3)

Choose 3 hours:

- \_\_\_ MA155 Statistical Reasoning (3)
- \_\_\_ MA223 Elementary Probability & Statistics (3)

Choose 6 hours:

- \_\_\_ AG440 Precision Agriculture (3)
- \_\_\_ CJ430 Policing in the Information Age (3)
- \_\_\_ GG563 Advanced Topics in Geography (3)
- \_\_\_ GT425 GIS Planning for Emergency Response (3)
- \_\_\_ GT498 Internship (1-3)

**General Education Requirements** – some requirements may be fulfilled by coursework in major program

- Social and Behavioral Sciences – 6 hours
- Constitution Requirement – 3 hours
- Written Communication – 6 hours
- Oral Communication – 3 hours
- Natural Sciences – 7 hours (from two disciplines, one to include a lab)
- Mathematics – 3 hours
- Humanities & Fine Arts – 9 hours (from at least two disciplines)
- Additional requirements – 5 hours (to include UI100 for native students)
- Civics examination

*This program could lead to licensure or certification. However, Southeast's program either does not meet, or we cannot determine if it meets, the licensure or certification requirement in all states. Please consult our State Authorization page, Licensure tab, to determine information specific to your state: <https://semo.edu/online/student-resources/stateauth.html>.*



### SAMPLE FOUR-YEAR PLAN

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
<b>FIRST YEAR</b>	UI100	1	CS101	3
	EN100	3	GG180	3
	GG140	3	GT102	3
	GT101	3	General Education	3
	MA155 or MA223	3	General Education	3
	<b>Total</b>	<b>13</b>	<b>Total</b>	<b>15</b>
Milestone: maintain 2.0 cumulative GPA				
<b>SECOND YEAR</b>	GG230	3	AG444	3
	GO110/010	3	GO/GT445	3
	GO/GT340	3	General Education	3
	General Education	3	General Education	3
	Elective	3	Elective	3
	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
Milestone: maintain 2.0 cumulative GPA				
<b>THIRD YEAR</b>	CS440	3	Major Elective	3
	GO/GT520	3	General Education	3
	Major Elective	3	Elective	3
	General Education	3	Elective	3
	Elective	3	Elective	3
	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
Milestone: maintain 2.0 cumulative GPA				
<b>FOURTH YEAR</b>	General Education	3	General Education	3
	Elective	3	General Education	3
	Elective	3	Elective	3
	Elective	3	Elective	3
	Elective	3	Elective	3
	Elective	1	Elective	1
	<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>
	Milestone: maintain 2.0 cumulative GPA			

A "Milestone" signifies a significant stage for a student in the completion of a degree.

**Degree requirements for all students:** a minimum of 120 credit hours, completion of the General Education program, and completion of 39 senior division hours (300-599). Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.

A minimum 2.0 GPA in the major and overall are required to graduate with a BS degree.

Revised  
2/2/2024

# 2024-2025 degree map

