

# GEOGRAPHY - B.S. GISCIENCE

## REQUIREMENTS

### CORE CURRICULUM

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at [marshall.edu/gened](http://marshall.edu/gened).

#### CORE 1: CRITICAL THINKING

CODE	COURSE NAME	HRS	GRADE
FYS-100	First-Year Seminar	3	_____
STA 225	Critical Thinking Course	3	_____
GEO 100	Critical Thinking Course	3	_____

#### CORE 2:

CODE	COURSE NAME	HRS	GRADE
ENG 101	Beginning Composition	3	_____
ENG 201	Advanced Composition	3	_____
CMM 103	Fund Speech-Communication	3	_____
STA 225	Introductory Statistics (CT)	3	_____
_____	Core II Natural/Physical Science	4	_____
_____	Core II Humanities	3	_____
GEO 100	Human Geography (CT)	3	_____
_____	Core II Fine Arts	3	_____

#### Additional University Requirements

_____	Writing Intensive	3	_____
_____	Writing Intensive (300/400)	3	_____
GEO 100	Multicultural or International	3	_____
_____	Capstone	4	_____

### COLLEGE-SPECIFIC

All liberal arts majors are required to complete the following College of Liberal Arts Requirements. These classes may not be counted towards Core II requirements.

CODE	COURSE NAME	HRS	GRADE	CODE	COURSE NAME	HRS	GRADE
_____	COLA Literature	3	_____	_____	COLA Social Science	3	_____
_____	COLA Literature	3	_____	GEO 101	COLA Natural/Physical Science	4	_____
_____	COLA Humanities	3	_____	_____	COLA International Credit	3	_____
_____	COLA Social Science	3	_____	_____	COLA Multicultural Credit	3	_____
_____	COLA Social Science	3	_____				

### MAJOR-SPECIFIC

Students who wish to major in Geography B.S. with an area of emphasis in GIScience must take the following major specific courses:

CODE	COURSE NAME	HRS	GRADE	CODE	COURSE NAME	HRS	GRADE
GEO 100	Human Geography (CT)	3	_____	_____	GIS Analysis and Applications	3	_____
GEO 101	Physical Geography (CT)	4	_____	_____	GIS Analysis and Applications	3	_____
GEO 300	Methods in Geography	3	_____	_____	GIScience Elective	3	_____
GEO 423	Cartography and GIS	3	_____	_____	GIScience Elective	3	_____
GEO 426	Principles of GIS	4	_____	_____	Free Elective	3	_____
GEO 498	Senior Capstone I	2	_____	_____	Free Elective	3	_____
GEO 499	Senior Capstone II (WI)	2	_____	_____	Free Elective	3	_____
_____	Regional Geography	3	_____	_____	Free Elective	3	_____
GEO 431	Remote Sensing and Photogrammetry	4	_____	_____	Free Elective	3	_____
_____	GIS Technologies	3	_____	_____	Free Elective	3	_____
_____	GIS Technologies	3	_____				

### MAJOR INFORMATION

- The total number of free electives will depend on the amount of double and triple counting of requirements.
- See course attributes each semester for courses that meet multiple requirements.
- Questions about requirements should be directed to the College of Liberal Arts (304-696-2350). Core II and COLA requirements may not be double counted.
- Forty-eight credit hours (sixteen 3-hour courses) must be at the 300/400 level.
- Students must earn a C or better in ENG 201 and all foreign language courses.
- Minimum of 120 hours to graduate.
- The B.S. in Geography requires a minimum total of 45 credit hours of

- Geography coursework. Beyond the Geography Core Requirements, students choose a minimum of 15 credits from Physical Geography or GIScience. Remaining electives may be chosen from any GEO courses. To compensate for the increased number of hours for the B.S. in Geography (including the Meteorology and Weather Broadcasting areas of emphasis), students are exempted from the College of Liberal Arts foreign language requirement.
- Technologies: Choose at least six credits from: GEO 110, GEO 111, GEO 112, GEO 113, GEO 433, GEO 434, GEO 435.
- Analysis and Applications: Choose a minimum of six credits from: GEO 429, GEO 430, GEO 432, GEO 440, GEO 490.
- Electives: Choose additional GIScience (GEO) courses to reach a minimum of 21 credit hours beyond the Geography Core Requirements.

General Education Requirement ● College Requirement ◆ Major Requirement ● Area of Emphasis

Milestone Course: This is a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

# GEOGRAPHY - B.S. GISCIENCE

Geography is the systematic study of the spatial aspects of human activity, the natural world, and human-environment interaction. The discipline of Geography occupies a unique position as a bridge between the social sciences (Human Geography), natural sciences (Physical Geography), and STEM fields (GIScience). As a result, the Geography Department offers both a Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) degree. Both degrees offer students broad exposure to the various subfields of Geography and provide specialized career training and preparation. Geography is a rapidly expanding discipline with diverse career opportunities across the environmental sciences, social sciences, and technological fields in both the public and private sectors.

	FALL SEMESTER				SPRING SEMESTER			
	CODE	COURSE NAME	HRS	GRADE	CODE	COURSE NAME	HRS	GRADE
YEAR ONE	CMM 103	Fund Speech-Communication	● 3	_____	ENG 201	Advanced Composition	● 3	_____
	ENG 101	Beginning Composition	● 3	_____	GEO 101	COLA Nat/Phys Science: Physical Geography (CT)	■◆ 4	_____
	FYS 100	First Year Seminar Crit Thinking	● 3	_____	_____	Writing Intensive	3	_____
	GEO 100	Core II Social Science: Human Geography (CT, MC/I)	◆ 3	_____	_____	Core II Humanities	● 3	_____
	STA 225	Introductory Statistics (CT)	● 3	_____	_____	Core II Fine Arts	● 3	_____
	UNI 100	Freshman First Class	1	_____				
	<b>TOTAL HOURS</b>		<b>16</b>		<b>TOTAL HOURS</b>		<b>16</b>	
	Summer Term (optional):							

	FALL SEMESTER				SPRING SEMESTER			
	CODE	COURSE NAME	HRS	GRADE	CODE	COURSE NAME	HRS	GRADE
YEAR TWO	_____	COLA Humanities	■ 3	_____	_____	GIS Technologies	◆ 3	_____
	_____	Regional Geography	◆ 3	_____	GEO 431	Remote Sensing and Photogrammetry	◆ 4	_____
	_____	Core II: Physical/Natural Science	● 4	_____	_____	COLA Literature	■ 3	_____
	_____	COLA Literature	■ 3	_____	GEO 300	Methods in Geography	◆ 3	_____
	_____	COLA Social Science	■ 3	_____	_____	COLA Social Science	■ 3	_____
	<b>TOTAL HOURS</b>		<b>16</b>		<b>TOTAL HOURS</b>		<b>16</b>	
Summer Term (optional):								

	FALL SEMESTER				SPRING SEMESTER			
	CODE	COURSE NAME	HRS	GRADE	CODE	COURSE NAME	HRS	GRADE
YEAR THREE	_____	COLA Social Science	■ 3	_____	_____	GIS Analysis and Applications	◆ 3	_____
	_____	GIS Technologies	◆ 3	_____	_____	300/400 Writing Intensive	3	_____
	GEO 423	Cartography and GIS	◆ 3	_____	GEO 426	Principles of GIS	◆ 4	_____
	_____	COLA Multicultural	■ 3	_____	_____	COLA International	■ 3	_____
	_____	Free Elective	3	_____	_____	Free Elective	3	_____
<b>TOTAL HOURS</b>		<b>15</b>		<b>TOTAL HOURS</b>		<b>16</b>		
Summer Term (optional):								

	FALL SEMESTER				SPRING SEMESTER			
	CODE	COURSE NAME	HRS	GRADE	CODE	COURSE NAME	HRS	GRADE
YEAR FOUR	GEO 498	Senior Capstone I	◆ 2	_____	GEO 499	Senior Capstone II	◆ 2	_____
	_____	GIS Analysis and Applications	◆ 3	_____	_____	GIScience Elective	◆ 3	_____
	_____	GIScience Elective	◆ 3	_____	_____	Free Elective	3	_____
	_____	Free Elective	3	_____	_____	Free Elective	3	_____
	_____	Free Elective	3	_____				
<b>TOTAL HOURS</b>		<b>14</b>		<b>TOTAL HOURS</b>		<b>11</b>		
Summer Term (optional):								

● General Education Requirement ■ College Requirement ◆ Major Requirement ● Area of Emphasis

Milestone Course: This is a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.