

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.

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 454.
- 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.

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
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	_____				
TOTAL HOURS		16		TOTAL HOURS		16	

Summer Term (optional):

FALL SEMESTER				SPRING SEMESTER			
CODE	COURSE NAME	HRS	GRADE	CODE	COURSE NAME	HRS	GRADE
_____	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	_____
TOTAL HOURS		16		TOTAL HOURS		16	

Summer Term (optional):

FALL SEMESTER				SPRING SEMESTER			
CODE	COURSE NAME	HRS	GRADE	CODE	COURSE NAME	HRS	GRADE
_____	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	_____
TOTAL HOURS		15		TOTAL HOURS		16	

Summer Term (optional):

FALL SEMESTER				SPRING SEMESTER			
CODE	COURSE NAME	HRS	GRADE	CODE	COURSE NAME	HRS	GRADE
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	_____				
TOTAL HOURS		14		TOTAL HOURS		11	

Summer Term (optional):

Area of Emphasis

Major Requirement

College Requirement

General Education Requirement

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.

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GEOGRAPHY - B.S. : GISCIENCE — 2022-2023

INVOLVEMENT OPPORTUNITIES

- American Anthropological Association
- Lambda Alpha National Anthropology Honor Society
- Appalachian Studies Association
- Student Government Association
- Campus Activity Board
- JMELI
- Commuter Student Advisory Board
- Club Sports
- Political Organizations
- Residence Hall Association
- Cultural Organizations
- Greek Life

RELATED MAJORS

- Environmental Science
- Geology
- Political Science
- Engineering
- Economics
- History
- International Affairs
- Sociology

GRADUATION REQUIREMENTS

- Have a minimum of 120 credit hours (some colleges or majors require more);
- Have an overall and Marshall Grade Point Average of 2.00 or higher;
- Have an overall Grade Point Average of 2.00 or higher in the major area of study;
- Have earned a grade of C or better in English 201 or 201 H;
- Have met all major(s) and college requirements;
- Have met the requirements of the Core Curriculum;
- Have met the residence requirements of Marshall University, including 12 hours of 300/400 level coursework in the student's college (see section entitled "Residence Requirements" in the undergraduate catalogue);
- Be enrolled at Marshall at least one semester of the senior year;
- Have transferred no more than 72 credit hours from an accredited West Virginia two-year institution of higher education.

Colleges and specific programs may have unique requirements that are more stringent than those noted above. Students are responsible for staying informed about and ensuring that they meet the requirements for graduation.

This academic map is to be used as a guide in planning your coursework toward a degree. Due to the complexities of degree programs, it is unfortunate but inevitable that an error may occur in the creation of this document. The official source of degree requirements at Marshall University is DegreeWorks available in your myMU portal. Always consult regularly with your advisor.

YEAR ONE



Have questions? Need to talk? You already have a Friend-At-Marshall ready to help you succeed. Find your FAM Peer Mentor here: www.marshall.edu/fam



Attend an intercultural festival or event on campus or in town.



In order to graduate on time, you need to take an average of 15 credits per semester. Are you on track? Take 15 to Finish!



Begin your foreign language sequence to meet your COLA requirements.



Stay on the Herd Path and come to class! Class attendance is more important to your success than your high school GPA, your class standing, or your ACT/SAT scores.



Take a pulse check. Know what you need to do every year to keep your grants, scholarships, or federal financial aid.



Excited about geography? Talk to a career education specialist about an exciting job shadow opportunity.

YEAR THREE



Explore peer leadership opportunities through the FAM Program, or apply to be a UNI Peer Mentor.



Join the Geography Club or the Gamma Theta Upsilon Honor Society, or start a student organization of your own.



Enhance opportunities for practical experience. Secure an internship related to your field of study.



No need to wait until graduate school. Discuss undergraduate research opportunities with faculty in your major right now.



Want to continue your education and increase your opportunities for career advancement? Talk to our Graduate Director about whether graduate school fits your career goals.



Apply for the Sam E. Clagg Scholarship, awarded to an outstanding undergraduate geography major.



Are you on track to graduate? Meet with your advisor for your Junior Eval to make sure you know what requirements you have left.

YEAR TWO



Are you completing enough credits to graduate on time? Dropping or failing a class can put you behind. Use summer terms to quickly get back on track.



Meet with a career education specialist to conduct a "gap analysis." Figure out the skills you'll need for the career you want while you still have time to build them.



Take a Community Based Learning (CBL) class that connects course content to the community. Stay engaged and make a difference.



Develop relationships with professors who can serve as future references by attending their office hours.



Have you considered adding a minor? Think about personal areas of interest you'd like to explore or how you might enhance your major with a related skill set.



College is a great time to experience the world! Consider studying abroad in the summer, during Spring Break, or for an entire semester.



Join the Geography Club or the Gamma Theta Upsilon Honor Society.

YEAR FOUR



Did you do really well in a hard course? Become a Tutor or a Supplemental Instructor.



Consider applying for a year-long service opportunity after graduation like AmeriCorps, Peace Corps, Teach for America, City Year, or Literacy Lab.



Strengthen your resume and enhance your presentation skills. Present what you've learned at an academic conference off campus.



This is it! Are you on track to graduate? Meet with your advisor for your Senior Eval to see what requirements you have left.



Join professional associations in your field such as the Association of American Geographers or the North American Cartographic Information Society.



Prepare to present at the COLA Undergraduate Research and Creativity Conference in April



Complete graduate admissions exams (GRE, MCAT, LSAT) the summer before your senior year.

TRANSFERABLE SKILLS ASSOCIATED WITH THIS MAJOR

- Technological Literacy
- Information Management
- Cultural Awareness
- Analytical Skills
- Project Planning
- Gathering, Organizing, and Interpreting Data
- Conducting Field Studies
- Interviewing Different Populations

ASSOCIATED CAREERS

- Geospatial Engineer
- GIS Specialist
- Economic Development
- Environmental Conservation
- Cartography
- International Business
- Utilities
- Regional and Urban Planning
- Assessor
- Department of Highways
- Field Technician



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