

GEOGRAPHY (GEOGRAPHIC INFORMATION SCIENCE AND TECHNOLOGY) - BACHELOR OF SCIENCE

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1220G College Algebra (or an alternative "Area II: Mathematics" course listed under the Requirements tab in the catalog) and in ENGL 1110G Composition I (or in an alternative "English Composition - Level I" course listed under the Requirements tab in the catalog). The contents and order of this roadmap may vary depending on initial student placement in Mathematics and English. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change. A grade of "C-" or better is required for all courses taken for the major. Students may not take any of these courses S/U.

First Year		Credits
GEOG 1110G	Physical Geography	4
GEOG 1120G or GEOG 1130G	World Regional Geography or Human Geography	3
GEOG 2130	Map Analysis & Interpretation	3
ENGL 1110G or ENGL 1110H	Composition I or Composition I Honors	4
MATH 1220G or MATH 1250G or MATH 1350G or MATH 2350G	College Algebra or Trigonometry & Pre-Calculus or Introduction to Statistics or Statistical Methods	3
Area VI: Creative and Fine Arts Course ¹		3
Area V: Humanities Course ¹		3
Elective Course(s) or FYEX 1112 ²		6
Credits		29

Second Year		Credits
GEOG 381	Cartography and GIS	4
GEOG 481	Fundamentals of GIS	4
ENGL 2210G or ENGL 2210H or ENGL 2215G or ENGL 2221G	Professional and Technical Communication or Professional and Technical Communication or Advanced Technical and Professional Communication or Writing in the Humanities and Social Science	3
COMM 1115G or COMM 1130G or HNRS 2175G	Introduction to Communication or Public Speaking or Introduction to Communication Honors	3
MATH 1350G or MATH 2350G	Introduction to Statistics or Statistical Methods	3
Area III: Laboratory Science or Area IV: Social/Behavioral Science Course ¹		3-4
Second Language ³		3-4
Second Language ³		3-4
Elective Courses(s) ²		6
Credits		32-35

Third Year		Credits
GEOG 373	Introduction to Remote Sensing	4

GEOG 442	Programming for GIS	3
Select one of the following Physical Geography courses		3-4
GEOG 351	Biogeography	
GEOG 353	Geomorphology	
GEOG 357	Weather & Climate: Earth's Dynamic Atmosphere	
GEOG 452	Landscape Ecology	
Select one of the following Human Geography courses		3
GEOG 361V	Challenges and Opportunities of Globalization	
GEOG 363V	Culture, Nature, and the Environment	
GEOG 365V	The City	
Select one of the following Environmental Studies courses		3
GEOG 325V	New Mexico and the American West (C- or better)	
GEOG 326	U.S. National Parks (C- or better)	
GEOG 328V	Environment and Society of Latin America (C- or better)	
GEOG 331V	Environment and Society of Europe (C- or better)	
GEOG 435	Planning a Sustainable World	
GEOG 483	Field Explorations in Geography (C- or better)	
VWW- Viewing a Wider World Course ⁴		6
Elective Course(s) ²		9

Credits		31-32
Fourth Year		
GEOG 473	Advanced Remote Sensing (C- or better)	4
GEOG 485	Spatial Analysis and Modeling	3
Select a Human Geography, Physical Geography, or Environmental Studies course ⁵		3-4
Elective Course - Upper Division ²		6
Consider taking more of Physical Geography, Human Geography, and Environmental Studies courses ⁵		
Elective Course(s) ²		12
Credits		28-29
Total Credits		120-125

¹ See the General Education (<https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/>) section of the catalog for a full list of courses.

² Elective credits may vary depending on factors such as General Education course selection, second language requirements, prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount listed in the requirements is what's needed to reach the total of 120 credits but may vary based on the specific degree. However, students may need to complete more or fewer credits on a case-by-case basis, so it's important to discuss elective requirements with an advisor.

³ The Second Language requirement can be fulfilled using one of nine available options detailed under the Requirements tab in the catalog. The Department of Geography and Environmental Studies recommends Option 1 (language courses numbered 1110 and 1120) or Option 2 (two upper-division GEOG courses totaling 6-8 credits). Additionally, immersion courses abroad, available through Study Abroad, may substitute for courses in the Second Language sequence.

⁴ See the Viewing a Wider World (<https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#viewingawiderworldtext>) (VWW) section of the catalog for a full list of courses. Geography students are required to complete two VWW courses, totaling 6 credits. One VWW course must be selected from

outside the College of Arts and Sciences, and the other must be from outside the Department of Geography and Environmental Studies. Students may substitute three credits earned through a Study Abroad Experience for one of the VWW course requirements.

- ⁵ Physical Geography course options: GEOG 351 Biogeography, GEOG 353 Geomorphology, GEOG 357 Weather & Climate: Earth's Dynamic Atmosphere, GEOG 452 Landscape Ecology
Human Geography course options: GEOG 361V Challenges and Opportunities of Globalization, GEOG 363V Culture, Nature, and the Environment, GEOG 365V The City
Environmental Studies course options: GEOG 325V New Mexico and the American West, GEOG 326 U.S. National Parks, GEOG 328V Environment and Society of Latin America, GEOG 331V Environment and Society of Europe, GEOG 435 Planning a Sustainable World, GEOG 455 Southwest Environments, GEOG 483 Field Explorations in Geography