

GEOGRAPHY (GEOGRAPHIC INFORMATION SCIENCE & TECH) - BACHELOR OF SCIENCE

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1430G Applications of Calculus I or MATH 1511G Calculus and Analytic Geometry I and ENGL 1110G Composition I. 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.

First Year		Credits
ENGL 1110G	Composition I (C- or better)	4
Area VI: Creative and Fine Arts Course ¹		3
Elective Course(s) in FYEX 1112 ²		7
GEOG 1110G	Physical Geography (C- or better)	4
MATH 1430G	Applications of Calculus I ³	3-4
or MATH 1250G	or Trigonometry & Pre-Calculus	
Area V: Humanities Course ¹		3
GEOG 1120G	World Regional Geography (C- or better in either)	3
or GEOG 1130G	or Human Geography	
GEOG 2130	Map Use and Analysis (C- or better)	3
Credits		30-31
Second Year		Credits
ENGL 2210G	Professional and Technical Communication Honors (C- or better)	3
Area III: Laboratory Science or Area IV: Social/Behavioral Science Course ¹		3-4
Choose one from the following:		3
MATH 1350G	Introduction to Statistics (C- or better)	
A ST 311	Statistical Applications (C- or better)	
Second Language: either 1110-level or Upper Division GEOG course (C- or better) ⁴		3-4
GEOG 381	Cartography and GIS (C- or better)	4
Choose one from the following:		3
ACOM 1130G	Effective Leadership and Communication in Agriculture (C- or better)	
COMM 1115G	Introduction to Communication (C- or better)	
COMM 1130G	Public Speaking	
HNRS 2175G	Introduction to Communication Honors	
Second Language: either 1120-level or Upper Division GEOG course (C- or better) ⁴		3-4
GEOG 481	Fundamentals of GIS (C- or better)	4
Elective Courses(s) ²		6
Credits		32-35
Third Year		Credits
VWW- Viewing a Wider World Course ⁵		6
Select either a Human Geography or Physical Geography Course (C- or better) ^{6,7}		3
GEOG 373	Introduction to Remote Sensing (C- or better)	4

Select either a Human Geography or Physical Geography Course (C- or better) ^{6,7}		3-4
Choose one from the following Human Environment Geography Courses: ⁷		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	Europe (C- or better)	
GEOG 483	Field Explorations in Geography (C- or better)	
Choose one from the following GIS&T Area Courses:		3-4
GEOG 441	GIS Design (C- or better)	
GEOG 473	Advanced Remote Sensing (C- or better)	
Elective Course(s) ²		9
Credits		31-33

Fourth Year		Credits
Select either a Human Geography or Physical Geography Course (C- or better) ^{6,7}		3-4
Choose one from the following GIS&T Area Courses:		3-4
GEOG 441	GIS Design (C- or better)	
GEOG 473	Advanced Remote Sensing (C- or better)	
Elective Course - Upper Division ²		6
GEOG 482	Geodatabase Design (C- or better)	3
Elective Course(s) ²		12
GEOG 488	GIS and Water Resources (optional)	
Credits		27-29
Total Credits		120-128

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 credit may vary based on General Education course selection, second language requirements, prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 120 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

³ Math Placement: MATH 1220G College Algebra or MATH 1350G Introduction to Statistics or MATH 2350G Statistical Methods is the starting Math course for the degree, however, students may need to complete any prerequisites prior to enrolling into one of these courses.

⁴ Students should take courses to either complete the two semester Second Language Requirements with either Option 1 or Option 2 (see the requirements tab (p.) for this degree, the Second Language section)

⁵ See the Viewing a Wider World (<https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#viewingawiderworldtext>) section of the catalog for a full list of courses.

⁶ Students must have 9 credits total between Human Geography and Physical Geography courses. The requirement must be completed with either two Human Geography and one Physical Geography course(s) OR with one Human Geography and two Physical Geography course(s). *students cannot take all nine credits in one area.

Human Geography Courses: GEOG 361V Challenges of Globalization, GEOG 363V Cultural Geography, GEOG 365V The City

Physical Geography Courses: GEOG 351 Biogeography, GEOG 353 Geomorphology, GEOG 357 Climatology, GEOG 452 Landscape Ecology

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⁷ Courses that have the "V" distinction and are a Human Geography or Human-Environment Geography course will not count towards both the Viewing a Wider World and Human Geography or Human-Environment Geography requirements.