

GEOGRAPHY (ENVIRONMENTAL STUDIES) - BACHELOR OF SCIENCE

The Human Environment Relationships Concentration offers a solid foundation in geographic thought and geospatial analysis and provides students with advanced knowledge and skills for assessing human and environmental systems and the coupled and complex interactions between people and the environment. Preparation for advanced graduate studies is also provided.

Students must complete all University degree requirements, which include: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework. *Note: 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.*

Prefix	Title	Credits
General Education		
<i>Area I: Communications</i>		
English Composition - Level 1		
ENGL 1110G	Composition I	4
English Composition - Level 2		
ENGL 2210G	Professional and Technical Communication Honors	3
Oral Communication		
Choose one from the following:		
ACOM 1130G	Effective Leadership and Communication in Agriculture	3
COMM 1115G	Introduction to Communication	
COMM 1130G	Public Speaking	
HNRS 2175G	Introduction to Communication Honors	
<i>Area II: Mathematics</i>		
MATH 1220G	College Algebra ¹	3
<i>Area III/IV: Laboratory Sciences and Social/Behavioral Sciences</i>		
GEOG 1110G	Physical Geography (Departmental Requirement)	4
GEOG 1120G	World Regional Geography (Departmental Requirement)	3
GEOG 1130G	Human Geography (Departmental Requirement)	3
<i>Area V: Humanities</i> ²		
<i>Area VI: Creative and Fine Arts</i> ²		
<i>General Education Elective</i>		
MATH 1350G	Introduction to Statistics	3
Viewing a Wider World ⁴		
Departmental/College Requirements		
GEOG 2130	Map Use and Analysis	3
GEOG 381	Cartography and GIS	4
<i>Human Geography (HG)</i> ⁵		
GEOG 361V	Challenges of Globalization	
GEOG 363V	Cultural Geography	
GEOG 365V	The City	
<i>Human-Environment Geography (HEG)</i> ⁵		
		6

GEOG 325V	New Mexico and the American West	
GEOG 326	U.S. National Parks	
GEOG 328V	Environment and Society of Latin America	
GEOG 331V	Europe	
GEOG 483	Field Explorations in Geography	
<i>Physical Geography (PG)</i> ⁵		6-7
GEOG 351	Biogeography	
GEOG 353	Geomorphology	
GEOG 357	Climatology	
GEOG 452	Landscape Ecology	
<i>Additional HG, HEG, & PG Course</i> ⁵		6
Select 2 additional courses from either the Human Geography, Human Environment Geography or Physical Geography Courses above		
Second Language Requirement: (required - see below)		6-8
Electives, to bring the total credits to 120 ⁶		42-45
15 credits must be Upper Division		
Total Credits		120

- ¹ MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.
- ² See the General Education (<https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/>) section of the catalog for a full list of courses.
- ³ A ST 311 Statistical Applications is also an acceptable course to meet the departments Statistics course requirement, however it will not satisfy the General Education (GE) Elective requirement. If a student takes A ST 311 Statistical Applications, they will need to take an additional General Education course to complete the GE Elective requirement.
- ⁴ 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.
- ⁵ For all Human Geography, Human Environment Geography and Physical Geography course requirements, students cannot repeat the courses multiple times to fulfill the requirement. Courses that have the "V" distinction and are a Human-Environment Geography and Human Geography courses will not count towards both the Viewing a Wider World and Human-Environment Geography and Human Geography requirements.
- ⁶ Elective credit may vary based on 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.

Second Language Requirement

For the Bachelor of Science in Geography with a Concentration in Human Environment Relationships there is a one year second language requirement, the options to complete this requirement are listed below. The number of credits that a student needs to take may vary depending on what level they come in with. Please speak with an advisor for more information as to which courses you will need to take to fulfill the second language requirement for this degree.

Option 1:

Prefix	Title	Credits
Complete one of the following sequences:		
FREN 1110 & FREN 1120	French I and French II	4-8
GRMN 1110 & GRMN 1120	German I and German II	4-8
JAPN 1110 & JAPN 1120	Japanese I and Japanese II	4-8
SPAN 1110 & SPAN 1120	Spanish I and Spanish II	4-8
PORT 1110 & PORT 1120	Portuguese I and Portuguese II	3-6
<i>For Heritage Speakers:</i>		
SPAN 1210 & SPAN 1220 or SPAN 2210	Elementary Spanish for Heritage Learners I and Spanish for Heritage Learners II Spanish for Heritage Learners III	3-6

Option 2:

Prefix	Title	Credits
Complete 6 additional upper-division Geography courses (beyond major requirements)		6

Option 3:

Prefix	Title	Credits
Complete the following sequence for American Sign Language (with a C- or better):		
SIGN 1110	American Sign Language I	3
SIGN 1120	American Sign Language II	3

Option 4:

Prefix	Title	Credits
Challenge the 1120 level for the following courses:		
FREN 1120 or GRMN 1120 or JAPN 1120 or SPAN 1120	French II German II Japanese II Spanish II	4
<i>OR</i>		
Challenge the 1120/1220/2210 level for the following courses:		
PORT 1120 or SPAN 1220 or SPAN 2210	Portuguese II Spanish for Heritage Learners II Spanish for Heritage Learners III	3

Option 5:

Pass a three-credit, upper-division course (numbered 300 or above) taught in a second language by the department of Languages and Linguistics.

Option 6:

Obtain college certification of completion of three years of a second language at the high school level with a grade of C- or higher in the second-year level.

Option 7:

By obtaining certification of a working knowledge of a Native American language from the American Indian program director.

Option 8:

By obtaining, from the head of the Department of Languages and Linguistics, certification of a working knowledge of a second language if such language is not taught at NMSU.

Option 9:

In the case of a foreign student who is required to take the TOEFL exam admission, the dean will automatically waive the second language requirement.

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1220G College Algebra 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 V: Humanities Course ¹		3
GEOG 1110G	Physical Geography (C- or better)	4
Elective Course(s) or FYEX 1112 ²		7
MATH 1220G	College Algebra (C- or better) ³	3
Area VI: Creative and Fine Arts Course ¹		3
GEOG 1120G	World Regional Geography (C- or better)	3
GEOG 1130G	Human Geography (C- or better)	3
Credits		30

Second Year		Credits
ENGL 2210G	Professional and Technical Communication Honors (C- or better)	3
Choose one from the following:		3
MATH 1350G	Introduction to Statistics (Recommended Gen. Ed & C- or better)	
A ST 311	Statistical Applications (C- or better) ⁴	
GEOG 2130	Map Use and Analysis (C- or better)	3
Choose one from the following:		3
ACOM 1130G	Effective Leadership and Communication in Agriculture	
COMM 1115G	Introduction to Communication	
COMM 1130G	Public Speaking	
HNRS 2175G	Introduction to Communication Honors	
Second Language: either 1110-level or Upper Division GEOG course (C- or better) ⁵		3-4
Choose one from the following Human Geography Courses: ⁶		3
GEOG 361V	Challenges of Globalization (C- or better)	
GEOG 363V	Cultural Geography (C- or better)	
GEOG 365V	The City (C- or better)	
GEOG 381	Cartography and GIS (C- or better)	4
Elective Course ²		9
Credits		31-32

Third Year		Credits
VWW - Viewing a Wider World Course(s) ⁷		6
Second Language: either 1120-level or Upper Division GEOG course (C- or better) ⁵		3-4
Choose one from the following Human Environment Geography Courses: ^{8,9}		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 Human Geography Courses: ^{8,9}		3
GEOG 361V	Challenges of Globalization (C- or better)	
GEOG 363V	Cultural Geography (C- or better)	
GEOG 365V	The City (C- or better)	
Choose one from the following Human Environment Geography Courses: ^{8,9}		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 Physical Geography Courses: ⁹		3-4
GEOG 351	Biogeography (C- or better)	
GEOG 353	Geomorphology (C- or better)	
GEOG 357	Climatology (C- or better)	
GEOG 452	Landscape Ecology (C- or better)	
Elective Course(s) ²		9
Credits		30-32
Fourth Year		
Choose one from the following Physical Geography Courses: ⁹		3-4
GEOG 351	Biogeography (C- or better)	
GEOG 353	Geomorphology (C- or better)	
GEOG 357	Climatology (C- or better)	
GEOG 452	Landscape Ecology (C- or better)	
Choose two courses from the following areas:		6
Human Geography ^{6,8}		
Human Environment Geography ^{6,8}		
Physical eography ⁹		
Elective Course(s) - Upper Division ²		15
Elective Courses(s) ²		5
GEOG GIS&T Area Course (Optional) ⁷		
Credits		29-30
Total Credits		120-124

arts-sciences/geography/geography-gis-tech-bachelor-science/#requirements) for this degree, the Second Language section)

- 6 **Human Geography:** GEOG 361V Challenges of Globalization, GEOG 363V Cultural Geography, GEOG 365V The City
- Human Environment Geography:** GEOG 325V New Mexico and the American West, GEOG 326 U.S. National Parks, GEOG 328V Environment and Society of Latin America, GEOG 331V Europe, GEOG 483 Field Explorations in Geography
- Physical Geography:** GEOG 351 Biogeography, GEOG 353 Geomorphology, GEOG 357 Climatology, GEOG 452 Landscape Ecology
- 7 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.
- 8 Courses that have the "V" distinction and are a Human-Environment Geography and Human Geography courses will not count towards both the Viewing a Wider World and Human-Environment Geography and Human Geography requirements.
- 9 For all Human Geography, Human Environment Geography and Physical Geography course requirements, students cannot repeat the courses multiple times to fulfill the requirement.
- 10 **GEOG GIS&T Area Course:**
 - GEOG 373 Introduction to Remote Sensing
 - GEOG 441 GIS Design
 - GEOG 481 Fundamentals of GIS
 - GEOG 488 GIS and Water Resources

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⁴ A ST 311 Statistical Applications is also an acceptable course to meet the departments Statistics course requirement, however it will not satisfy the General Education (GE) Elective requirement. If a student takes A ST 311 Statistical Applications, they will need to take an additional General Education course to complete the GE Elective requirement.

⁵ Students should take courses to either complete the two semester Second Language Requirements with either Option 1 or Option 2 (see the requirements tab (<https://catalogs.nmsu.edu/nmsu/>