

# Geography B.A., Sustainability Concentration

Department of Earth & Atmospheric Sciences, 303-556-3143, Science 2028

College of Letters, Arts, and Sciences

Catalog 2016-17

This sheet applies to the 2016-17 catalog *only*. It does not replace the full catalog as an official statement of requirements. Students with declared majors *must* work with a faculty advisor on course selection and sequencing to ensure a timely graduation.

General Studies	33 min
Major courses	75
Unrestricted Electives	<u>12</u>
Total to graduate (min. 40 hrs. upper-division)	120 min

Students who have reached junior standing (60 hrs.) should run a Degree Progress Report and review it with a faculty advisor.

## General Studies Course Requirements Credits

**\*TO BE COMPLETED WITHIN FIRST 30 COLLEGE-LEVEL CREDIT HOURS**

**Written Communication** (minimum 6 semester hours)

___ ENG 1010 Composing Arguments*	3
___ ENG 1020 Freshman Comp: Analysis, Research, & Doc.	3

## Oral Communication\* min. 3 credits

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## Quantitative Literacy\* min. 3 credits

See Required Pre-requisites on the reverse side for recommendations\*

## Arts and Humanities min. 6 credits

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## Historical min. 3 credits

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## Natural and Physical Sciences min. 6 credits

___ MTR 1600 Global Climate Change ( <i>recommended</i> )	3
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## Social and Behavioral Sciences I min. 3 credits (*1 recommended*)

___ ECO/HON 2010 Principles of Macroeconomics	3
___ ECO 3800 Development Economics	3

## Social and Behavioral Sciences II min. 3 credits (*1 recommended*)

___ ECO/HON 2020 Principles of Microeconomics	3
___ SOC 1020 Globalization – Transform of Social Worlds	3

## Global Diversity

___ MTR 1600 Global Climate Change ( <i>recommended</i> )
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## Multicultural Requirement

___ may be satisfied within General Studies (MC code)
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## Geography Major Required Core Courses Credits

___ GEG 1000 World Regional Geography	3
___ GEG 1100 Introduction to Physical Geography	3
___ GEG 1300 Introduction to Human Geography	3
___ GEG 3360 Economic Geography ( <i>Preq. GEG 1300</i> )	3
___ ENV 1200 Introduction to Environmental Science	3
___ GIS 1220 Introduction to Geospatial Sciences	3
___ GIS 2250 Geographic Information Systems ( <i>Preq. GIS 1220</i> )	3

## Sustainability Required Courses Credits

___ GEG 3600 Urban Geography ( <i>Preq. GEG 1300</i> )	3
___ GEG 3610 Principles of Land Use Planning ( <i>Preq. GEG 3600</i> )	3
___ GEG 3700 Urban Sustainability ( <i>Preq. GEG 3610</i> )	3
___ GEG 3720 Global Sustainable Development ( <i>Preq. GEG 3360</i> )	3
___ GEG 4700 Sustainability in Resource Management ( <i>Preq. GEG 3720</i> )	3
___ ENV 4200 Environmental Policy and Planning ( <i>Preq. ENV 1200 &amp; junior standing</i> )	3

## Internship Requirement min. 3 credits Credits

___ GEG 4950 Internship in Geography ( <i>Preq. Permission of EAS Dept.</i> )	3
___ ENV 4950 Internship in Environmental Science ( <i>Preq. Permission of EAS Dept.</i> )	3

## Senior Experience Requirement min. 3 credits Credits

___ GEG 4970 Sustainability Practice Seminar ( <i>Preq. GEG 4700 &amp; 12 credits of upper division</i> )	3
___ ENV 4960 Global Environmental Challenges ( <i>Preq. 12 credits of upper division</i> )	3
___ ENV 4970 Environmental Field Studies ( <i>Preq. 12 credits of upper division</i> )	3

<b>Add'l Sustainability Courses min. of 18 credits/6 in GEG</b>	<b>Credits</b>
___ <b>GEG 3300 Land Use, Culture, and Conflict</b> (Preq. ENV 1200)	3
___ <b>GEG 3920 Directed Study in Geography</b> (Preq. Permission of EAS Dept.)	2-6
___ <b>GEG 4720 Sustainability in Mitigation Planning</b> (Preq. GEG 1100 & GEG 3610)	3
___ <b>ENV 3100 Air Pollution</b> (Preq. ENV 1200 or MTR 1400)	3
___ <b>ENV 3250 Colorado Water Law and Water Rights Admin.</b> (Preq. Completion of General Studies)	3
___ <b>ENV 3400 Water Resources</b> (Preq. ENV 1200 or GEG 1910)	3
___ <b>ENV 3540 Adv. Gel. and Env. Hazards-Denver</b> (Preq. 9 credits of Geography or Geology)	3
___ <b>ENV 3620 Population, Resources, and Land Use</b> (Preq. GEG 1000 or GEG 1300)	3
___ <b>ENV 3700 Mountain Environments</b> (Preq. ENV 1200 & junior standing)	3
___ <b>ENV 3730 Environmental Risk Assessment</b> (Preq. ENV 1200)	3
___ <b>ENV 4010 Environmental Hazards and GIS</b> (Preq. ENV 4000)	3
___ <b>ENV 4400 Landscape Ecology</b> (Preq. ENV 1200, GIS 2250, and ENV 4430)	3
___ <b>ENV 4410 Water Law</b> (Preq. ENV 1200 or ENV 1400 or ENV 3400)	3
___ <b>ENV 4420 Wetlands</b> (Preq. ENV 1200)	3
___ <b>ENV 4430 Habitat Planning</b> (Preq. ENV 1200 & completion of General Studies)	3
___ <b>ENV 491X Global Environmental Field Problems</b> (Preq. ENV 1200)	3
___ <b>ENV 492X Topics in Environmental Science</b> (Preq. ENV 1200 & junior standing)	3
___ <b>ENV 4960 Global Environmental Challenges</b> (Preq. 12 credits of upper division & senior)	3
___ <b>GIS 3250 Cartography</b> (Preq. GIS 2250 & MTH 1210)	3
___ <b>GIS 4840 Remote Sensing</b> (Preq. GIS 1220 & MTH 1110)	3
___ <b>HTE 2860 Sustainable Tourism</b>	3
___ <b>HTE 4211 Ecotourism Planning</b> (Preq. HTE 2860)	3
___ <b>MKT 3180 Green Marketing</b> (Preq. MKT 3000)	3
___ <b>CET 3320 Environmental Impact Statements</b> (Preq. At least junior standing)	3
___ <b>ECO 3450 Environmental Economics</b> (Preq. ECO 2020 or ECO 1040)	3

<b>Required Pre-requisites*</b>	<b>Credits</b>
___ <b>MTH 1110 College Algebra OR</b>	
___ <b>MTH 1112 College Algebra Through Modeling</b>	4
___ <b>MTH 1210 Introduction to Statistics</b>	4

**Unrestricted Electives\* – to total the min. of 120 credits for an undergraduate degree**

\*Students must have 40-credits of upper division course work (3000 & 4000 level)

Geographers study Earth and its land, features, and inhabitants, ranging in scale from local to global. Geography is unique in bridging the social sciences and the natural sciences. Geographers pursue rewarding careers in education, business, government agencies, and nonprofit organizations.

The mission of the geography program is to provide a multidisciplinary education that integrates physical and social science with spatial analysis. This provides a foundation for understanding problems and implementing solutions to improve the quality of human-environment dynamics. The geography curriculum combines general courses in the natural and social systems of the landscapes of the Earth. The vital thread of human relationships to the environment links concentrations in Physical Geography and Sustainability.

Updated 12/19/16