### University Requirements (GECs)

A **list of courses for each Objective** may be found at [http://www.arc.wvu.edu/courses/GEC.html](http://www.arc.wvu.edu/courses/GEC.html).

1. **Communication** (9hrs)
   - (English 101) ____________________________
   - (English 102) ____________________________
   - Writing (W) Course ______________________
2. **Basic Math and Science** (13-15hrs)
   - (Group A: 3hrs)___________________________
   - (Group B: 3hrs)___________________________
   - (Group B Lab Course: 4hrs) _________________
   - (Group A, B, or C: 3-4hrs)___________________
3. **The Past and Its Traditions** (3hrs)
4. **Contemporary Society** (3-4 hrs)
5. **Artistic Expression** (3hrs)
6. **The Individual in Society** (4hrs)
   - (UNIV 101: 1hr) __________________________
   - (3hrs) _________________________________
7. **American Culture** (3hrs)
8. **Western Culture** (3hrs)
9. **Non-western Culture** (3hrs)

**General Education Curriculum (GEC) Policies**

1. You must take between 41 and 43 GEC hrs.
2. To promote a breadth of study, no course may satisfy more than one Objective.
3. No more than 3 Geography courses can be taken to satisfy Objectives 2 - 9.
4. You may take 2 courses maximum in any other discipline outside of Geography to fulfill GEC.

### Geography Program Requirements

33 Geography hours are needed for the major. No more than 42 hours in Geography will count towards the 120 required for graduation. Geog 199 and Geog 491 are excluded from the 42 Geography maximum.

1. **Foundation Courses** (15 hrs)
   - GEOG 199 Orientation (1hr)________________
   - GEOG 102 World Regions (3hrs)
   - GEOG 106 & 107 Physical (4hrs)______________
   - GEOG 108 Human (3hrs)___________________
   - GEOG 149 & 150 Digital Earth (4hrs)__________
2. **Thematic / Regional Courses** (Select ONE) (3 hrs)
   - GEOG 205 Nat. Resources (3hrs)_____________
   - GEOG 207 Climate & Environment ___________
   - GEOG 209 Economic (3hrs)__________________
   - GEOG 210 Urban (3hrs)_____________________ 
   - GEOG 240 US & Canada (3hrs)_______________ 
   - GEOG 241 Europe (3hrs)____________________
   - GEOG 243 Africa (3hrs)_____________________
   - GEOG 244 Middle East (3hrs)_______________
   - GEOG 302 Political Geography (3hrs)__________
   - GEOG 307 Biogeography (3hrs)______________
3. **Methods** (3-4 hrs) (Select ONE)
   - GEOG 300 Geog Data Analysis (3hrs)_________
   - GEOG 350 GIScience (4hrs)_________________
   - GEOG 452 GIS Applications (3hrs)____________
   - GEOG 454 Environmental GIS (3hrs)_________
   - GEOG 455 Remote Sensing (3hrs)___________
   - GEOG 462 Digital Cartography (3hrs)_________
4. **General Geography Electives** (9-10 hrs)*
   - GEOG ______ (3-4hrs) ______________________
   - GEOG ______ (3-4hrs) ______________________
   - GEOG ______ (3-4hrs) ______________________
   - *We strongly recommend at least 6 hours are at the 300 or 400 level.
5. **Senior Thesis: Capstone**
   - GEOG 496 (3hrs)________________
   - Note: GEOG 496 is offered in FALL only. Senior Thesis should be taken in the student’s LAST Fall semester.

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**Eberly College Requirements**

1. Complete level 200 or 204 of a language
2. No more than 72 transfer hrs from community college
3. Complete either 90 hrs at WVU or the last 30 consecutive hrs at WVU (Residency Rule)
4. No more than 42 hrs in Geography (or any other single subject) can count toward the 128 required to graduate. Geog 199 and Geog 491 are excluded

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**Advisor signature**

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**Date**

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For further information about the Geography major contact
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jamison.conley@mail.wvu.edu

REVISED 10/20/14
Areas of Emphasis

We offer majors the option of specializing in one of four Area of Emphasis within geography. However, Geography Majors are not required to declare an Area of Emphasis.

Global Environmental Change
A rapidly expanding interest in the environment and sustainable development has put Geographers in a good position to analyze the destruction of and measures to maintain environmental systems.

**Required course:**
GEOG 207, Climate And Environment

**Elective Courses (choose nine hours):**
GEOG 110 & 111 Environmental Geoscience and Environmental Geoscience Lab
GEOG 205, Natural Resources
GEOG 300, Geographical Data Analysis
GEOG 307, Biogeography: Theory and Method
GEOG 321, Geomorphology
GEOG 411, Rural and Regional Development
GEOG 415, Global Environmental Change
GEOG 454, Environmental GIS
GEOG 455, Introduction to Remote Sensing
GEOG 491, Professional Field Experience

Geographic Information Science (GIScience)
Advances in the theory and practice of geographic data handling emphasize the use of computer systems for storing, retrieving, analyzing and displaying spatial information.

**Required Courses:**
GEOG 350, Geographic Info Systems/Science
GEOG 455, Introduction to Remote Sensing

**Electives (choose 6 hours):**
GEOG 300, Geographical Data Analysis
GEOG 452, GIS:Applications
GEOG 453, GIS:Design and Implementation
GEOG 454, Environmental GIS
GEOG 462, Digital Cartography
GEOG 463, Crime Geography

Urban and Regional Planning *
The urban and regional planning emphasis examines urban, regional and rural development in the United States, Africa, and Europe.
* No new students added after 2014. See your advisor for more information.

**Required Courses:**
GEOG 210, Urban Geography
GEOG 425, Urban/Regional Planning

**Elective courses (choose six hours):**
GEOG 209, Economic Geography
GEOG 240, United States and Canada
GEOG 241, Geography of Europe
GEOG 243, Geography of Africa
GEOG 244, Geography of the Middle East
GEOG 350, Geographic Info Systems/Science
GEOG 411, Rural and Regional Development
GEOG 412, Geography of Gender

Globalization and Development
This area of emphasis provides students with the tools to understand and critically analyze current economic, social, and cultural processes that shape our world.

**NOTE:** the requirements for this AoE were updated in October 2012.

**Required—choose any two at the 200 level:**
GEOG 209, Economic Geography
GEOG 210, Urban Geography
GEOG 241, Geography of Europe
GEOG 243, Geography of Africa
GEOG 244, Geography of the Middle East
GEOG 293, Arab World, on campus and travel

**Required—choose any two at the 300 level or higher:**
GEOG 302, Political Geography
GEOG 3xx, Food and Globalization
GEOG 411, Rural & Regional Development
GEOG 412, Geography of Gender
GEOG 425, Urban & Regional Planning
GEOG 443, African Environment and Development
GEOG 4xx, Environment and Conflict

“Students are responsible for their own academic well being, including knowing their scholastic standing as it relates to the published regulations and standards of WVU. This responsibility includes familiarity with the regulations and requirements of their academic college or school including the University College and the regulations and requirements of the department or division in which they are pursuing a degree.”

http://catalog.wvu.edu/undergraduate/enrollmentandregistration/#advisingtext