

**College of Natural Resources and Environment**  
**Department of Geography - Bachelor of Arts in Geography**  
**Option in--GEOSPATIAL AND ENVIRONMENTAL ANALYSIS**  
**Geography Major Checksheet**  
(For students graduating in calendar year 2016)

Student \_\_\_\_\_  
Email \_\_\_\_\_

**Major Requirements**

**Fundamentals: 12 credit hours**

1. GEOG 1004: Human Geography (3) \_\_\_\_\_
2. GEOG 1014: World Regions (3) \_\_\_\_\_
3. GEOG 1104: Physical Geography (3) \_\_\_\_\_
4. GEOG 2314: Maps and Mapping (3) \_\_\_\_\_

**Geospatial and Environmental Analysis:**

**Select a total of 15 credit hours**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

**Mapping and GIS-at least 6 credits**

- FOR 4214: Forest Photogrammetry (3)  
GEOG 3314: Cartography (3)  
GEOG 4084: Introduction to GIS (3)  
GEOG 4314: Spatial Analysis in GIS (3)  
GEOG 4324: Algorithms in GIS (3)  
GEOG 4354: Introduction to Remote Sensing (3)

**Environmental Analysis-at least 6 credits**

- GEOG 2505: Weather Analysis I (3)  
GEOG 3114: Introduction to Meteorology (3)  
GEOG 3304: Geomorphology (3)  
GEOG 3404: Mountain Geography (3)  
GEOG 4044: Biogeography (3)  
GEOG 4374: Remote Sensing and Phenology (3)  
GEOG 4394: Web Mapping (3)

**Culture, Regions, and International Development:**

**Select at least 5 credits-at least 3 credits of 3000-4000 level**

1. \_\_\_\_\_
2. \_\_\_\_\_

- PSCI 1004: Nations and Nationalities (3)  
GEOG 1115: Seeking Sustainability (3)  
GEOG 1116: Seeking Sustainability (3)  
GEOG 2034: Geography of Global Conflict (3)  
GEOG 2054: Introduction to World Politics (3)  
GEOG 2064: The Global Economy and World Politics (3)  
GEOG 2214: Geography of North America (3)  
GEOG 3104: Environmental Probs, Population, and Dev. (3)  
GEOG 3214: Geography of African Development (3)  
GEOG 3224: Geography of Appalachia (3)  
GEOG 3244: The U.S. City (3)  
GEOG 3254: The Geography of East Asia (3)  
GEOG 3464: Appalachian Communities (3)  
GEOG 4054: Geography of Wine (3)  
GEOG 4074: Medical Geography (3)  
GEOG 4204: Geography of Resources (3)  
GEOG 4764: International Development Policy and Planning (3)

**Geography or Cognate Electives:**

**Select at least 6 credits-at least 3 credits of 3000-4000 level**

1. any GEOG elective (3) \_\_\_\_\_

2. any GEOG elective or cognate elective from the following (3)

\_\_\_\_\_

- CS 1064: Introduction to Python  
ENGL 3764: Technical Writing (3)  
FOR 2114: Ecology of Appalachian Forests (3)  
FOR 2124: Forests, Society, and Climate (3)  
FOR 2214: Introduction to Land and Field Measurements (3)  
FOR 2314: Forest Biology and Dendrology (2) (Pre: BIOL 1006 or BIOL 1106)  
FOR 2324: Dendrology Laboratory (1)  
FOR 2554 (LAR 2554): Nature & American Values (3)  
FOR 4114: Information Technologies for Natural Resource Management (3) (Pre: GEOG 2314)  
FOR 4374: Forested Wetlands (3) (Pre: CSES 3114 or CSES 3134)  
NR 4444 Practicing Sustainability  
SBIO/FOR 2784: Global Forest Sustainability (3)  
SBIO 3324: Green Building Systems (3)

**Statistics: 3 credit hours**

- STAT 2004: Intro to Statistics\*  
Or  
STAT 3604: Statistics for the Social Sciences \_\_\_\_\_  
(other STAT classes will be considered on a case-by-case basis)

**GEOG Field Experience:**

**Select at least 3 credit hours from \_\_\_\_\_**

1. XXXX 3954 or equivalent non-VT transfer credit from a foreign university: Study Abroad \_\_\_\_\_
2. GEOG 2964 or 4964: Field Study (Internship or Service Learning): \_\_\_\_\_
3. GEOG 2994 or 4994: Undergraduate Research \_\_\_\_\_

NOTE: The overall and in-major GPA required for graduation is 2.0. To make satisfactory progress towards the Geography degree, upon completion of 60 hours, students must have completed 15 hours in Geography. Courses for in major GPA computation include all GEOG courses, and approved cognate electives.

Required minimum hours in Geography is 44. Minimum number of hours for the degree is 120.

\*accepted via transfer or AP transfer credit only. Cannot be taken at Virginia Tech.

**Curriculum for Liberal Education (CLE) Requirements (36 hours)**

For approved Curriculum for Liberal Education course listings see: <http://www.cle.prov.vt.edu/guides/index.html>

**Area 1: Writing and Discourse (0 to 6 credit hours)**

ENGL 1105 \_\_\_\_\_  
ENGL 1106 \_\_\_\_\_  
or ENGL H1204 \_\_\_\_\_

or COMM 1015 \_\_\_\_\_  
COMM 1016 \_\_\_\_\_  
Or advanced placement

**Area 2: Ideas, Cultural Traditions, and Values (6 credit hours)**

Approved CLE courses \_\_\_\_\_

**Area 3: Society and Human Behavior (6 credit hours)**

Geography major covers this area

**Area 4: Scientific Reasoning and Discovery (8 credit hours)** (courses do not need to be in the same field)

3 credit hours of lecture \_\_\_\_\_ 1 credit lab \_\_\_\_\_

3 credit hours of lecture \_\_\_\_\_ 1 credit lab \_\_\_\_\_

**Area 5: Quantitative and Symbolic Reasoning (6 credit hours)**

Approved mathematics sequence (Approved mathematics sequence includes Math 1016/Math 2015).

\_\_\_\_\_

**Area 6: Creativity and Aesthetic Experience (1 credit hour)**

Approved CLE course \_\_\_\_\_

**Area 7: Critical Issues in a Global Context (3 credit hours)**

Geography major covers this area

**Foreign Language:** A sequence of two (2) foreign language courses is required for graduation unless two (2) high school credits of the same foreign language or six (6) transfer credit hours of foreign language have been earned. These credits do not count toward graduation. See catalog section on "Graduation Requirements."

**Free Electives:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

There are no hidden prerequisites on this checksheet

For more information about the BA in geography and geography careers contact:

Maureen Deisinger, academic adviser at 231-6886 ([mdeising@vt.edu](mailto:mdeising@vt.edu)). Another resource for information is Bill Carstensen, department head at 231-7557 ([carstens@vt.edu](mailto:carstens@vt.edu))

**NOTE:** GEOG students planning to double major in Meteorology, must complete at least 12 hours of GEOG coursework that is not used to complete their GEOG major. In addition, students must complete two distinct 3 credit field experiences for a total of 15 non-duplicative credits.