

UNOFFICIAL SEMESTER BY SEMESTER GUIDE  
Please use this in conjunction with the official checksheet and your DARS

**College of Natural Resources and Environment  
Department of Geography  
Bachelor of Arts (B.A.) in Geography (GEOG)  
Major in Geography**

(This guide is based on the checksheet for students graduating in the class of 2022 or with a date of entry academic year 2020-2021)

Fall Semester		Spring Semester	
<b>First Year</b>			
ENGL 1105 First-Year Writing <sup>1</sup> (Pathways Concept 1f)	3	ENGL1106 First-Year Writing <sup>1</sup> (Pathways Concept 1f)	3
GEOG 1004 Intro to Human Geography	3	GEOG 1014 World Regions	3
GEOG 2314 Maps and Mapping	3	GEOG 1084 Digital Planet	3
Pathways Concept 3: Reasoning in the Social Sciences <sup>2</sup>	3	GEOG 1104 Intro to Physical Geography	3
Pathways Concept 5f: Quantitative and Computational <sup>3</sup>	3	Pathways Concept 5f: Quantitative and Computational <sup>3</sup>	3
	<b>15</b>		<b>15</b>
<b>Sophomore Year</b>			
GEOG 2084 Principles of GIS	3	GEOG 1000/2000 (Major Requirement) <sup>4</sup>	3
GEOG 1000/2000 (Major Requirement) <sup>4</sup>	3	STAT 3604 <b>OR</b> 3615 (Pathways Concept 5a)	3
Pathways Concept 2: Critical Thinking in Humanities	3	Pathways Concept 2: Critical Thinking in Humanities	3
Pathways Concept 4: Reasoning in the Natural Sciences Lecture	3	Pathways Concept 4: Reasoning in the Natural Sciences Lecture	3
Pathways Concept 4: Reasoning in the Natural Sciences Laboratory	1	Pathways Concept 4: Reasoning in the Natural Sciences Laboratory	1
Pathways Concept 3: Reasoning in the Social Sciences <sup>2</sup>	3	Pathways Concept 7: Critical Analysis of Identity and Equity in the US <sup>6</sup>	3
	<b>16</b>		<b>16</b>
<b>Junior Year</b>			
GEOG 3314 Cartography (Pathways Concept 6d)	3	Cognate Elective <sup>4</sup>	3
GEOG 3000/4000 (Major Requirement) <sup>4</sup>	3	GEOG 3000/4000 (Major Requirement) <sup>4</sup>	3
GEOG 3000/4000 (Major Requirement) <sup>4</sup>	3	GEOG 3000/4000 (Major Requirement) <sup>4</sup>	3
Free Elective	3	Free Elective	3
Free Elective	3	Pathways Concept 6a: Critique and Practice in Arts	3
	<b>15</b>		<b>15</b>
<b>Senior Year</b>			
Pathways Concept 1a: Advanced/Applied Discourse	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
GEOG Field Experience (may occur in summer) <sup>5</sup>	3	Free Elective	3
	<b>15</b>		<b>15</b>

<sup>1</sup> Pathways 1f: Students choose ENGL 1005/1006 First-Year Writing **or** COMM 1005/1106 Communication Skills  
<sup>2</sup> GEOG majors may **not** use GEOG 1004 or GEOG 1014 in this area  
<sup>3</sup> Recommended sequences are: MATH 1014 and MATH 1025; **or** MATH 1535 and MATH 1536; **or** MATH 1014 and CS 1014; **or** MATH 1525 and MATH 1526; **or** MATH 1225 and MATH 1226; **or** MATH 1025 and MATH 1026  
<sup>4</sup> Choose from list on attached page  
<sup>5</sup> Field experience must be approved by Department. Students choose: XXXX 3954 Study Abroad **or** GEOG 4964 Field Study **or** GEOG 4994 Undergraduate Research  
<sup>6</sup> A course taken to satisfy another area of Pathways that is also listed within Concept 7 will satisfy the Concept 7 requirement simultaneously

**Pathways to General Education Requirements**

**Pathways Concept 1: Discourse (9 credits)**

Pathways 1f: Approved Foundational (6 Credits)

\_\_\_\_\_ ENGL 1105 First-Year Writing **or** COMM 1015 Communication Skills (3 credits)

\_\_\_\_\_ ENGL 1106 First-Year Writing **or** COMM 1016 Communication Skills (3 credits)

Pathway 1a: Advanced/Applied (3 Credits)

\_\_\_\_\_ Choose University Approved Concept 1a Course (3 credits)

**Pathways Concept 2: Critical Thinking in the Humanities (6 credits)**

\_\_\_\_\_ Choose University Approved Concept 2 Course (3 credits)

\_\_\_\_\_ Choose University Approved Concept 2 Course (3 credits)

**Pathways Concept 3: Reasoning in the Social Sciences 6 credits)**

\_\_\_\_\_ Choose University Approved Concept 3 Course (3 credits)

\_\_\_\_\_ Choose University Approved Concept 3 Course (3 credits)

**Pathways Concept 4: Reasoning in the Natural Sciences (8 credits)**

\_\_\_\_\_ Choose University Approved Concept 4 Courses:

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

\_\_\_\_\_ Choose University Approved Concept 4 Courses:

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

**Pathways Concept 5f: Foundational Quantitative and Computational Thinking (8 credits)**

Recommended sequences are (Choose **ONE** sequence):

\_\_\_\_\_ MATH 1014 and MATH 1025 \_\_\_\_\_ MATH 1535 and MATH 1536

\_\_\_\_\_ MATH 1014 and CS 1014 \_\_\_\_\_ MATH 1525 and MATH 1526

\_\_\_\_\_ MATH 1225 and MATH 1226 \_\_\_\_\_ MATH 1025 and MATH 1026

**Pathways Concept 5a: Advance/Applied Quantitative/Computational Thinking (3 credits)**

\_\_\_\_\_ STAT 3604 Statistics for Social Science **or** STAT 3615 Biological Statistics

**Pathways Concept 6a and 6d: Critique and Practice in Design and the Arts (6 credits)**

\_\_\_\_\_ GEOG 3314 Cartography (Pathways 6d) (3 credits)

\_\_\_\_\_ Choose University Approved Concept 6a Course (3 credits)

**Pathways Concept 7\*: Critical Analysis of Identity and Equity in the United States – 3 credits required**

\_\_\_\_\_ Choose University Approved Concept 7 Course (3 credits) \*

\*A course taken to satisfy another area of Pathways that is also listed within Concept 7 will satisfy the Concept 7 requirement simultaneously

**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.

**NOTE: GEOG students planning to double major in Meteorology, must complete at least 12 hours of GEOG coursework that is not being used to complete either major. In addition, students must complete two distinct (3 credit) field experiences that apply to each major.**

Students do NOT need to follow this plan exactly. This is only a SUGGESTED plan.

Students have the option to take courses during the summer at VT or as approved transfer credit with a grade of C or better.

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**Major Requirements (12/18 credit hours must be 3000/4000 level)**

GEOG 1115 Seeking Sustainability (3)  
GEOG 1116 Seeking Sustainability (3) (Pre: 1115)  
GEOG 1514 Introduction to Meteorology (3)  
GEOG 1524 Introduction to Earth's Climate (3)  
GEOG 2004 Water, Environment, and Society (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 2244 Sustainable Urbanization (3)  
GEOG 2505 Weather Analysis I (3)  
GEOG 2784 Geography of Tea (3)  
GEOG 3034 CIA in Today's Geopolitical World  
GEOG 3104 Environmental Probs, Pop, and Devo (3)  
GEOG 3224 Geography of Appalachia (3)  
GEOG 3234 Geography of Virginia (3)  
GEOG 3244 The U.S. City (3)  
GEOG 3254 The Geography of East Asia (3)  
GEOG 3274 Polar Environments (3)  
GEOG 3304 Geomorphology (3) (Pre: 1104, 1004, or 2104)  
GEOG 3404 Mountain Geography (3) (Pre: 1104)  
GEOG 3464 Appalachian Communities (3)  
GEOG 4044 Biogeography (3) (Pre: 1104)  
GEOG 4054 Geography of Wine (3)  
GEOG 4074 Medical Geography (3)  
GEOG 4084 Modeling in GIS (3) (Pre: 2084)  
GEOG 4134 Issues & Ethics Water Resource (3)  
GEOG 4204 Geography of Resources (3)  
GEOG 4214 Gender, Envir, and Intl Devo (3)  
GEOG 4224 Tracking Environmental Change (3)  
GEOG 4354 Introduction to Remote Sensing (3)  
GEOG 4764 Intl. Develop. Policy and Plan. (3)

**Cognate Elective (3 credit hours)**

FREC 2114 Ecology of Appalachian Forests (3)  
FREC 2124 Forests, Society, and Climate (3)  
FREC 2214 Intro to Land and Field Meas. (3)  
FREC 2554 Nature & American Values (3)  
FREC 3104 Principles of Watershed Hydro (3) (Pre: Math 1226)  
FREC 4374 Forested Wetlands (3) (Pre: CSES 3114 or 3134)  
GEOS 1034 Earth's Natural Hazards (3)  
GEOS 3014 Environmental Geosciences (3) (Pre: Math 1226, GEOS 1004, PHYS 2305)  
GEOS 3034 Oceanography (3) (Pre: Math 1226)  
SBIO/FREC 2784 Global Forest Sustainability (3)  
SBIO 3324 Green Building Systems (3)  
STAT 3616 Biological Statistics (3) (Pre: MATH 1025 or 1225 or 1524) *(Recommended for GEOG students with GIS minor)*