

# GEOGRAPHY AND SUSTAINABLE PLANNING-BS

## CLIMATE CHANGE MITIGATION, ADAPTATION, AND RESILIENCY PLANNING

THIS IS A **GENERAL** CURRICULUM GUIDE AND IS NOT APPLICABLE TO EVERY STUDENT. IT IS IMPORTANT TO MEET WITH YOUR ADVISOR.

Geography Core (12 credits)	Emphasis Required Courses (14 credits)
<ul style="list-style-type: none"> <li>— <b>GPY 100 Physical and Environmental Geography (3)</b></li> <li>— <b>GPY 200 Computer Cartography (3)</b> Prerequisite: MTH 110</li> <li>— <b>GPY 220 Cultural Geography (3)</b></li> <li>— <b>GPY 495 Senior Thesis SWS or GPY 496 Senior Field Research Project (3)</b> Prerequisite: Junior standing</li> </ul>	<ul style="list-style-type: none"> <li>— <b>GPY 101 Sustainability and Place (1 cr)</b></li> <li>— <b>GPY/PA 209 Intro to Urban and Regional Planning (3)</b></li> <li>— <b>GPY310/PA 313 Land Use Planning (3)</b></li> <li>— <b>GPY/ENS 412 Global Climate and Environmental Change (3)</b> Prerequisites: GPY 100 or ENS 201 or GE Foundations Life Science or Physical Science, Junior standing</li> <li>— <b>NRM 140 The Climatic Factor or NRM 240 Principles of Climatology (4)</b></li> </ul>
<b>At least 9 credits of the following electives: (may require junior standing)</b>	
<ul style="list-style-type: none"> <li>— <b>GPY/PA 312 Urban and Regional Environmental Planning (3)</b></li> <li>— <b>GPY/PA 314 Land-Use and Planning Law (3)</b></li> <li>— <b>GPY 316 Introduction to Transportation Planning (3)</b></li> <li>— <b>GPY 361 People, Environment, and Development in the Amazon (3)</b></li> <li>— <b>GPY 362 Farmers, Crops, and Our Challenging Agricultural World (3)</b></li> <li>— <b>GPY 363 World Forests and Their Use (3)</b></li> <li>— <b>GPY/MKT/PA 365 GIS for Economic and Business Decision Making (3)</b></li> <li>— <b>GPY 370 Introduction to Remote Sensing (3)</b></li> </ul>	<ul style="list-style-type: none"> <li>— <b>GPY 381 Urban Planning in the Netherlands (Study Abroad) (3)</b></li> <li>— <b>GPY/PA 385 GIS in Urban and Regional Analysis (3)</b></li> <li>— <b>GPY 407 Advanced GIS (4)</b> Prerequisite: GPY 307</li> <li>— <b>GPY 410 Landscape Analysis and Green Infrastructure (3)</b> Prerequisites: GPY 100 or GEO 111 or BIO 105 or GPY 309</li> <li>— <b>GPY 470 Digital Image Processing (3)</b> Prerequisites: GPY 370</li> </ul>

Bachelor of Science requirements (can be duplicated with major requirements):
<ul style="list-style-type: none"> <li>— <b>STA 215 Introductory Applied Statistics (3)</b> Prerequisite: MTH 110 or equivalent</li> <li>— <b>GPY 307 Intro to Geographic Information Systems (3)</b></li> <li>— <b>One of the following:</b> <ul style="list-style-type: none"> <li><b>GPY 407 Advanced GIS (4)</b> Prerequisite: GPY 307</li> <li><b>GPY/ENS/PA 410 Landscape Analysis and Green Infrastructure (3)</b></li> <li><b>GPY/ENS 412 Global Climate and Environmental Change (3)</b> Prerequisite: GPY 100 or ENS 201 or GE Foundations Life Science or Physical Science</li> <li><b>GPY 470 Digital Image Processing (3)</b> Prerequisites: GPY 370</li> </ul> </li> </ul>

### Sample Plan

Year One	
MTH 110 (4)	GPY 200 (3)
GPY 101 (1)	GPY Elective (3)
GPY 220 (3)	WRT 150 (4)
GPY 100 (3)	GPY 209 (3)
GEN ED (3)	GEN ED (3)
Year Two	
STA 215 (3) or Language (4)	GPY 307 (3) or Language (4)
GPY 310/PA 313 (3)	NRM 140 or NRM 240 (4)
GEN ED (3)	GEN ED or minor (3)
Elective (3)	GEN ED or minor (3)
GEN ED or minor (3)	Elective (3)

Year Three	
GPY/ENS 412 (3)	GPY Elective (3)
GPY Elective (3)	ISSUE (3)
GEN ED (3)	GPY 300 (3)
ISSUE (3)	Elective (3)
B.S. Degree option or Language (3 or 4)	Elective (3)
Year Four	
GPY 495 or 496 (3)	GPY Elective (3)
GPY Elective (3)	GPY Elective (3)
Elective or minor (3)	Elective or minor (3)
Elective or minor (3)	Elective or minor (3)
Elective or minor (3)	Elective or minor (3)

\*Students must complete a total of two courses with an SWS attribute. GPY 495 is an SWS course – one should be outside the major  
 \*GPY Elective refers to GPY elective courses that you select from the list on the front of this page  
 \* Gen. Elective refers to any course to help you earn the required 120 credits for graduation (you are encouraged to complete an average of 15 credits per semester)  
 \*The block tuition rate is for 12-15 credits. You will pay additional tuition for any credits over 15

### Guide for Declaring the Geography and Planning Major:

1. Log into myBanner from the GVSU homepage
2. Once logged in select “Student”, “Student Records”, and then, “Change Major”
3. Click on the “Change Major 1/Program” box
4. Click on the down arrow in the box next to “New Major 1/Program,” from here scroll down and choose ““Geography-BS – Climate Change Adaptation and Resiliency Planning”
5. Click “Submit” and then “Change to New Program”

### General Education Overlap

General Education Categories fulfilled by the Geography and Planning major:	
Social and Behavioral Sciences: GPY 220	Mathematical Sciences: GPY 200, STA 215 (B.S. Degree Requirement)
Global Perspectives: GPY 362	U.S. Diversity: GPY 353
Issues: GPY 361, GPY 362, GPY 365, GPY 385, GPY 410, GPY 412	

The Geography and Sustainable Planning Department offers concentrations in *Climate Change Mitigation, Adaptation and Resiliency Planning (BS)*, *Environment and Global Geography (BS and BA)*, *Geospatial Technology (BS and BA)*, and *Urban and Regional Planning (BS and BA)*, as well as a general Geography major. Students who started at GVSU prior to Fall 2017 and would like to pursue one of the Geography Emphasis areas (such as this one) will need to speak with Records Office (150 STU) to update their catalog year. **It is VERY important that you speak with your advisor in the CLAS Academic Advising Center first to be sure that updating your catalog year will not have a negative impact on your academic plan.**

There are also optional certificates in *Sustainable Urban and Regional Planning (SURP)*, *Geographic Information Science and Technology (GIS&T)*, and *Environmental Remote Sensing (ERS)* that students may elect to pursue in addition to their respective major. Minors are also available in *Sustainable Urban and Regional Planning* and *Geospatial Technology* are available for all majors. For information about certificates and minors visit the Geography and Sustainable Planning website: <http://www.gvsu.edu/geography>.