

GEOGRAPHY AND SUSTAINABLE PLANNING-BS OR BA

GEOSPATIAL TECHNOLOGY EMPHASIS

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

34 total credits	
Geography Core (12 credits)	Emphasis Required Courses (13 credits)
<ul style="list-style-type: none"> — GPY 100 Physical and Environmental Geography (3) — GPY 200 Computer Cartography (3) Prerequisite: MTH 110 — GPY 220 Cultural Geography (3) — GPY 495 Senior Thesis SWS or GPY 496 Senior Field Research Project (3) Prerequisite: Junior standing 	<ul style="list-style-type: none"> — GPY 307 Intro to Geographic Information Systems (3) — GPY 407 Advanced GIS (4) Prerequisite: GPY 307 — GPY 370 Introduction to Remote Sensing (3) — GPY 470 Digital Image Processing (3) Prerequisite: GPY 370
Geospatial Technology Emphasis Electives	
3 credits of the following	
<ul style="list-style-type: none"> — GPY/MKT/PA 365 GIS for Economic and Business Decision Making (3) Prerequisite: Junior standing 	<ul style="list-style-type: none"> — GPY/PA 385 GIS in Urban and Regional Analysis (3) Prerequisite: Junior standing
6 credits of <u>unduplicated</u> upper-level GPY courses (options below) (may require junior standing)	
<ul style="list-style-type: none"> — GPY310/PA 313 Land Use Planning (3) — GPY/PA 312 Urban and Regional Environmental Planning (3) — GPY/PA 314 Land Use and Planning Law (3) — GPY/PA 316 Intro to Transportation Planning (3) — GPY/PA 324 Urbanization (3) — GPY 335 Globalization and Development (3) — GPY 345 Geography and Land-Use Management in Michigan/Great Lakes (3) — GPY 350 Geopolitics, Energy and Environment of Russia and Central Eurasia (3) — GPY 351 Geography of Africa (3) — GPY 352 Geography of Latin America (3) — GPY 353 Geography of the United States and Canada (3) — GPY 354 Geography and Globalization of Asia (3) — GPY 355 Geography of Southwest Asia (3) 	<ul style="list-style-type: none"> — GPY 356 Geography and Land-Use Management of Europe (3) — GPY 361 People Environment and Development of the Amazon (3) — GPY 362 Farmers, Crops and our Challenging Agricultural World (3) — GPY 363 World Forests and Their Use (3) — GPY/MKT/PA 365 GIS for Economic and Business Decision Making (3) — GPY 381 Urban Planning in the Netherlands (3) — GPY/PA 385 GIS in Urban and Regional Analysis (3) — GPY 399 Independent Readings (1-3) — GPY 410 Landscape Analysis and Green Infrastructure (3) — GPY/ENS 412 Global Climate and Environmental Change(3) Prerequisite: GPY 100 or ENS 201 or GE Foundations Life Science or Physical Science — GPY 490 Internship (1-9) — GPY 499 Independent Research (1-3)
Degree requirements: choose one option (can be duplicated with major requirements)	
Bachelor of Arts	Bachelor of Science
<p>Third semester proficiency (201 level) is required for the B.A. degree. This may be fulfilled through language placement (http://www.gvsu.edu/mlf/language-placement-the-opi-108.htm) or by completing the courses listed below</p> <ul style="list-style-type: none"> — Language 101 (4) — Language 102/150 (4) (150 is a hybrid of 101 and 102 and is only recommended for students with previous language background) — Language 201 (4) 	<ul style="list-style-type: none"> — STA 215 Introductory Applied Statistics (3) Prerequisite: MTH 110 or equivalent — GPY 307 Intro to Geographic Information Systems (3) Prerequisite: STA 215 — One of the following: GPY 407 Advanced GIS (4) Prerequisite: GPY 307 GPY/PA 410 Landscape Analysis and Green Infrastructure (3) GPY/ENS 412 Global Climate and Environmental Change (3) Prerequisite: GPY 100 or ENS 201 or GE Foundations Life Science or Physical Science GPY 470 Digital Image Processing (3) Prerequisites: GPY 370

Sample Plan

Year One	
MTH 110 (4)	GPY 200 (3)
*GPY 101 (1)	WRT 150 (4)
GPY 220 (3)	GEN ED (3)
GPY 100 (3)	GEN ED (3)
GEN ED (3)	
Year Two	
STA 215 (3)	Degree option (3)
GPY 307 (3)	GPY Elective (3)
GEN ED (3)	GEN ED or minor (3)
GEN ED (3)	GEN ED or minor (3)
Elective (3)	Elective (3)

Year Three	
GPY Elective (3)	ISSUE (3)
GEN ED (3)	GPY 407 (4)
ISSUE (3)	Elective or minor (3)
Elective or minor (3)	Elective or minor (3)
Elective or minor (3)	
Year Four	
GPY 365 or 385 (3)	GPY 495 (3)
GPY 370 (3)	GPY 470 (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)

* GPY 101 is a 1 credit, recommended elective
 *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
 * 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-BA - Geospatial Technology” or “Geography-BS – Geospatial Technology” depending on your degree cognate
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 or GPY 235	Mathematical Sciences: GPY 200, STA 215 (B.S. Degree Requirement)
Global Perspectives: GPY 235, GPY 324, GPY 350, GPY 351, GPY 355, GPY 356, GPY 362	U.S. Diversity: GPY 353
Issues: GPY 324, GPY 335, GPY 350, GPY 354, GPY 361, GPY 362, GPY 363, 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>.