

# 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.

Year One			
<sup>1</sup> WRT 150 or WRT 120 Strategies in Writing Stretch I GPY 100 Physical Geography	3/4 3	<sup>1</sup> WRT 130 Strategies in Writing Stretch II or WRT 150 Grade of C or better required for	3/4
<sup>3</sup> Foreign Language 101 or gen ed GPY 101 or 112 MTH 110 Prerequisite: MTH 097 or assignment through math placement exam	3/4 1 4	GPY 220 Cultural Geography <sup>3</sup> Foreign Language 102 or gen ed GPY 200 Computer Cartography Prerequisite: MTH 110 Gen Ed	3 3/4 3
<i>Total</i>	<i>14/15</i>	<i>Total</i>	<i>15/16*</i>
Year Two			
GPY 307 Intro to Geographic Information Systems Minor course Gen ed	3 3 3	GPY 407 Advanced GIS Prerequisite: GPY 307 <sup>4</sup> GPY elective Minor course Gen ed Gen ed	4 3 3 3 3
<sup>3</sup> Foreign Language 201 or STA 215 Prerequisite: MTH 110 for STA	3/4 3	<sup>4</sup> Environmental Sustainability Elective	3
<i>Total</i>	<i>15/16</i>	<i>Total</i>	<i>15</i>
Year Three			
<sup>3</sup> GPY 370 Introduction to Remote Sensing Gen ed Minor course	3 3 3	GPY 470 Digital Image Processing Prerequisite: GPY 370 Gen ed Minor course <sup>2</sup> Issues with SWS Minor course	3 3 3 3 3
<sup>4</sup> Upper-Level Geography Elective Gen ed	3 3		3 3
<i>Total</i>	<i>15</i>	<i>Total</i>	<i>15</i>
Year Four			
<sup>4</sup> GPY 365 or 385 Minor course Issues Minor course Minor course	3 3 3 3 3	<sup>2,5</sup> GPY 495 Senior Thesis <sup>4</sup> Upper-Level Geography Elective Gen ed Minor course Minor course	3 3 3 3 3
<i>Total</i>	<i>15</i>	<i>Total</i>	<i>15</i>

\* The block tuition rate is 12-15 credits. You will pay additional tuition for any credits over 15. You MUST obtain at least 120 credits total.

<sup>1</sup> Students who self-place into WRT120 should take this course in the fall semester and then take WRT 130 in the winter semester of the first year. Geography students who self-place into WRT 150 can take this course in either semester. A grade of C or higher is required to fulfill these requirements. Students will not need to take WRT 150 (or 120 & 130) if they have earned credit for the course through AP/Dual Enrollment. A grade of C or better is required.

<sup>2</sup> Students must complete a total of two courses with an SWS attribute. GPY 495 regularly has the SWS attribute.

<sup>3</sup> Geography students have the option of a Bachelor of Science (BS) or Bachelor of Arts (BA) degree. The BS degree requirements are STA 215, GPY 307, and one of the following: GPY 407, GPY 410, GPY/ENS 412, or GPY 470. The BA degree requirements are three semesters of a foreign language (Lang 101, Lang 102, Lang 201).

<sup>4</sup> See reverse for options.

<sup>5</sup> Geography students can choose GPY 495 or GPY 496 for their capstone route—GPY 496 is typically a study abroad and is NOT an SWS course.

### 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 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)*, 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>.

### Geospatial Technology Emphasis Courses

(13 credits)

- |   |  |
|---|--|
| — <b>GPY 307</b> Introduction to Geographic Information Systems (3) | — <b>GPY 407</b> Advanced GIS (4)<br>Prerequisite: GPY 307             |
| — <b>GPY 370</b> Introduction to Remote Sensing (3)                 | — <b>GPY 470</b> Digital Image Processing (3)<br>Prerequisite: GPY 370 |

### Geospatial Technology Emphasis Electives

3 credits of the following

- |  |   |
|--|---|
| — <b>GPY/MKT/PA 365</b> GIS for Economic and Business Decision Making (3)<br>Prerequisite: Junior standing | — <b>GPY/PA 385</b> GIS in Urban and Regional Analysis (3)<br>Prerequisite: Junior standing |
|--|---|

6 credits of unduplicated upper-level GPY courses (options below)  
(may require junior standing)

- |  |  |
|--|--|
| — <b>GPY 414</b> Land Use Planning (3)   | — <b>GPY 356</b> Geography and Land-Use Management of Europe (3)   |
| — <b>GPY/PA 312</b> Urban and Regional Environmental Planning (3)                      | — <b>GPY 361</b> People Environment and Development of the Amazon (3)  |
| — <b>GPY/PA 314</b> Land Use and Planning Law (3)                                      | — <b>GPY 362</b> Farmers, Crops and our Challenging Agricultural World (3)   |
| — <b>GPY/PA 316</b> Intro to Transportation Planning (3)                               | — <b>GPY 363</b> World Forests and Their Use (3)   |
| — <b>GPY/PA 324</b> Urbanization (3)   | — <b>GPY/MKT/PA 365</b> GIS for Economic and Business Decision Making (3)  |
| — <b>GPY 335</b> Globalization and Development (3)                                     | — <b>GPY 381</b> Urban Planning in the Netherlands (3)   |
| — <b>GPY 345</b> Geography and Land-Use Management in Michigan/Great Lakes (3)         | — <b>GPY/PA 385</b> GIS in Urban and Regional Analysis (3)   |
| — <b>GPY 350</b> Geopolitics, Energy and Environment of Russia and Central Eurasia (3) | — <b>GPY 399</b> Independent Readings (1-3)  |
| — <b>GPY 351</b> Geography of Africa (3)   | — <b>GPY 410</b> Landscape Analysis and Green Infrastructure (3)   |
| — <b>GPY 352</b> Geography of Latin America (3)  | — <b>GPY/ENS 412</b> Global Climate and Environmental Change(3)<br>Prerequisite: GPY 100 or ENS 201 or GE Foundations Life Science or Physical Science |
| — <b>GPY 353</b> Geography of the United States and Canada (3)                         | — <b>GPY 490</b> Internship (1-9)  |
| — <b>GPY 354</b> Geography and Globalization of Asia (3)                               | — <b>GPY 499</b> Independent Research (1-3)  |
| — <b>GPY 355</b> Geography of Southwest Asia (3)                                       |  |

### Degree requirements: choose one option (can be duplicated with major requirements)

#### Bachelor of Arts

Third semester proficiency (201 level) is required for the B.A. degree. This may be fulfilled through language placement (<http://www.gvsu.edu/ml/language-placement-the-opi-108.htm>) or by completing the courses listed below

- **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)

#### Bachelor of Science

- **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

It is imperative to meet with your faculty advisor and an advisor in the CLAS Academic Advising Center regularly. The CLAS Academic Advising Center is located in C-1-140 MAK, 616-331-8585. Online at: <http://www.gvsu.edu/clasadvising>

Your Academic Advisors in the CLAS Academic Advising Center are Khalaya Daniels [daniekha@gvsu.edu](mailto:daniekha@gvsu.edu), and Bridget Baehl [baehlbr@gvsu.edu](mailto:baehlbr@gvsu.edu).