



**BACHELOR OF SCIENCE (#576)**  
**Major in Geography: Professional Geographic Information Systems**  
 Department of Geography and Geology  
 Ogden College of Science and Engineering  
 Western Kentucky University

The following four-year plan is an example of how to map your program in consultation with your faculty advisor. Every student will finish with a unique plan of his/her own depending on the electives selected.

**Success Markers**

**SAMPLE - 4 year plan**

FIRST YEAR	Fall Semester		Spring Semester	
	GEOG/L 103 Our Dynamic Planet & Lab (E-NS, LS)	3	GEOG 110 World Regional Geography (E-SB)	3
	ENGL 100 Introduction to College Writing (F-W1)	3	MATH 117 Trigonometry	3
	MATH 116 College Algebra (F-QR)	3	Arts & Humanities (E-AH)	3
	HIST 101 World History I OR HIST 102 World History II (F-SB)	3	World Language, if needed, OR General Elective	3
	GEOG 175 Freshman Experience	3	COMM 145 Fund of Public Speaking and Communication (F-OC)	3
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

SECOND YEAR	Fall Semester		Spring Semester	
	Natural & Physical Science (E-NS)	4	University Elective	3
	GISC 316 Fundamentals of GIS	4	GISC 317 GIS	4
	ENG 200 Intro to Literature (F-AH)	3	CS 170 Prob. Solving & Programming	3
	CE 160/161 Land Surveying/Lab	4	MATH 183 Introduction to Statistics	3
			Connections: Social & Cultural (K-SC)	3
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>16</b>

**World Language Proficiency:** All students entering in fall 2014 or later must demonstrate proficiency in a world language at the Novice High level before completing 60 credit hours. Novice high is the ability to communicate in writing and speaking on familiar topics in simple sentences. To meet this requirement, students may take college language courses or take a proficiency test. For more information go to: [World Language Proficiency](#).

**Colonnade Program:** All students entering in fall 2014 or later must complete 39 hours in 13 specific Colonnade areas. Colonnade areas are listed in parentheses marked in blue after the corresponding classes. Some areas may have specific course requirements while others can be chosen from selected lists of options. For more details and to see lists of options, go to [Colonnade Requirements](#).

<b>THIRD YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
	GEOG 391 Spatial Data Analysis	4	GEOG 300 Writing in the Geosciences (F-W2)	3
	GISC 417 GIS Analysis & Modeling	3	GISC 414 Remote Sensing	4
	Connections: Systems (K-SY)	3	GISC 419 GIS Programming	3
	CS 180 Computer Science I	4	GEOG 475 Selected Topics OR GEOG 495 Research/Internship	3
			GEOG 492 Advanced Spatial Analysis	3
	<b>TOTAL CREDIT HOURS</b>	<b>14</b>	<b>TOTAL CREDIT HOURS</b>	<b>16</b>

<b>FOURTH YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
	GISC 423 Transport GIS OR GISC 477 Special Topics in GIS	3	GEOG 418 Internet GIS	3
	GEOG 443 GIS Databases	3	GEOG or University Elective	4
	GEOG 475 Research OR GEOG 495 /Internship	3	GEOG 499 Professional Development	1
	University Elective	3	GEOG 475 Selected Topics OR GEOG 495 Research/Internship	3
	Connections: Local to Global (K-LG)	3	Independent Research	3
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>14</b>

**Total Credit Hours:120**

- 120 Hours total are required in the program, with 42 hours at the 300/400 level.
- Summer courses, including Study Abroad, Field Camps, and other independent research opportunities, can reduce the number of hours required in the regular semesters.
- Required and elective courses can be moved from semester to semester to take advantage of courses when offered.
- GISC 316 is a prerequisite for GISC 317. GISC 317 is a prerequisite for all 400-level GISC courses. GEOG 391 prerequisites are GISC 316 and MATH 183. GEOG 391 is a prerequisite for GEOG 492. CS 170 is a prerequisite for GISC 419.
- Colonnade Connections courses are restricted to Juniors/Seniors, unless 21 credit hours of Colonnade Explorations and Foundations courses have already been completed sooner.

**FOR ADDITIONAL INFORMATION, PLEASE CONTACT:**

**For more Information:** Department: **Geography and Geology**  
Website: [www.wku.edu/geoweb](http://www.wku.edu/geoweb)  
Phone: **(270) 745-4555**  
Course Descriptions: <http://www.wku.edu/undergraduatecatalog/>