

## Geography, Geospatial Analysis and Technology, B.S., Comprehensive Major

The following is a hypothetical schedule, based on the 2018-2019 catalog. It assumes no transferred credits, no requirements waived by placement tests, and no courses taken in the summer. UW-Eau Claire cannot guarantee all courses will be offered as shown, but will provide a range of courses that will enable prepared students to fulfill their requirements in a timely period. This is just a guide. Please consult your advisor, the catalog, and your degree audit for specific requirements.

### FIRST YEAR

FIRST SEMESTER			SECOND SEMESTER		
Subj/Area/Course	Title	Crs	Subj/Area/Course	Title	Crs
GEOG 135	Introduction to Geospatial Analysis (S3, I1)	3	GEOG 104	Physical Environment K1 + lab)	4
WRIT 114/116	Blugold Seminar (S1)	5	GEOG 111	Human Geography (K2, R2)	3
LE Core Elective	Humanities (K3)	3	LE Core Elective	Social Science (K2)	3
LE Core Elective	Communications (S1)	3	MATH 111/112/113	Calculus/Trigonometry (S2)	4
<b>TOTAL</b>		<b>14</b>	<b>TOTAL</b>		<b>14</b>

### SECOND YEAR

FIRST SEMESTER			SECOND SEMESTER		
Subj/Area/Course	Title	Crs	Subj/Area/Course	Title	Crs
GEOG 200	Foundations of Geography	3	LE Core Elective	Equity, Diversity, & Inclusivity (R1)	3
IS 240	Information Systems	3	GEOG 335	Introduction to GIS	3
LE Core Elective	Equity, Diversity, & Inclusivity (R1)	3	LE Core Elective	Humanities (K3)	3
LE Core Elective	(K1)	3	LE Core Elective	Civic, Social, Environmental Responsibility (R3)	3
LE Core Elective	Fine Arts (K4)	3	CS 170	Computing for Science	3
LE Core Elective	Integrative (I1)	2			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>15</b>

### THIRD YEAR

FIRST SEMESTER – Apply for Admission to Major			SECOND SEMESTER		
Subj/Area/Course	Title	Crs	Subj/Area/Course	Title	Crs
GEOG 336	Field Methods	3	GEOG 337	GIS II	3
LE Core Elective	Communications, language (S1)	3	GEOG 338	Remote Sensing	3
GEOG 370	Quantitative Methods	3	GEOG Elective		3
Geospatial Elective		3	Elective		3
Geospatial Elective <sup>c</sup>		3	Geospatial Elective <sup>c</sup>		3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

### FOURTH YEAR

FIRST SEMESTER			SECOND SEMESTER		
Subj/Area/Course	Title	Crs	Subj/Area/Course	Title	Crs
GEOG 498	Internship	3	GEOG 435	GIS 3	3
Geospatial Elective		3	Geospatial Elective		3
Geospatial Elective		3	Geospatial Elective		3
Elective		3	Elective		3
Elective		3	Elective		3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>

**RECOMMENDATIONS FOR OPTIONAL HIGH IMPACT PRACTICES (HIPs)**

The University of Wisconsin-Eau Claire encourages all students to participate in High Impact Practices. The following information identifies any specific recommendations that faculty in this major have concerning which HIPs might be most beneficial to students, and any recommendations about when those HIPs best fit into the degree plan. Students should also consult their faculty advisor for information on HIPs.

**NOTES**

**Liberal Education Core (LE Core)**

The LE Core comprises 17 learning experiences across 11 learning outcomes. Students must complete a minimum of 36 credits in courses approved for the LE Core.

- K1 – Natural Sciences; two experiences (one lab science experience is required in K1 or K2).
- K2 – Social Sciences; two experiences (one lab science experience is required in K1 or K2).
- K3 – Humanities; two experiences.
- K4 – Fine Arts; one experience.
- S1 – Written and Oral Communication; two experiences (one experience must satisfy the University writing requirement).
- S2 – Mathematics; one experience (must satisfy the University math competency requirement).
- S3 – Creativity; one experience (can be fulfilled in a student’s major).
- R1 – Equity, Diversity, and Inclusivity; two experiences (one experience must meet the UW System Design for Diversity (DD) requirement).
- R2 – Global Perspectives; one experience.
- R3 – Civic and Environmental Issues; one experience.
- I1 – Integration; two experiences (one experience can be fulfilled in a student’s major).

**Additional LE Core Information**

- Most LE Core learning experiences are course based, and many courses meet more than one learning outcome (e.g., K3 and R2 or K1 and R3).
- Some learning experiences can also be met outside of a traditional course (e.g., undergraduate research (S3), study abroad (I1)).
- S1 – An English placement score that fulfills the University writing requirement fulfills one S1 experience.
- S1 – A foreign Language placement score that qualifies the student to enter the 102 level satisfies one S1 experience.
- S1, R2 – A foreign language placement score that qualifies the student to enter the 202 level satisfies one experience in S1 and the R2 experience.
- S2 – A math placement score that qualifies the student to enter Math 111, 112, 113 or 114 fulfills the S2 experience.
- S3 – Completion of two credits from any approved music ensemble fulfills the S3 experience.
- I1 – Any semester long study abroad program can fulfill one I1 experience.

**Course Suggestions (if applicable)**

**Application to Major (if applicable)**

SUMMARY					
Courses in the Liberal Education Core <sup>a</sup>			Courses Toward Geospatial Analysis and Tech. Major		
LE	Course	Crs	LE	Title	Crs
K1	GEOG 104	3		GEOG 104	4
K1		3		GEOG 135	3
K2	GEOG 111	3		GEOG 111	3
K2		3		CS 170	3
Lab	GEOG 104 (concurrent with GEOG 104)	1		GEOG 200	3
K3		3		IS 240	3
K3		3		GEOG 335	3
K4		3		GEOG 336	3
S1	WRIT 114/116	4		GEOG 338	3
S1		3		GEOG 370	3
S2	MATH 111	4		GEOG Adv Approach (435 or 438)	3
S3	GEOG 135	3		GEOG 401 or 498	3
R1		3		Geog Upper Level Elective	3
R1		3		Geospatial Elective	3
R2	GEOG 111	3		Geospatial Elective	3
R3		3		Geospatial Elective	3
I1	GEOG 135	3		Geospatial Elective	3
I1		2		Outside Geo Spatial Elective	3
				Outside Geo Spatial Elective	3
				Outside Geo Spatial Elective	3
<b>TOTAL CREDITS</b>		<b>55</b>	<b>TOTAL CREDITS</b>		<b>61</b>

<sup>a</sup>Geography majors must take 5 courses from any 3 of the 5 advanced geography approaches. Environmental Geography comprehensive majors must take an upper level course in Physical Geography and in Human-Environment Geography. See catalog.

<sup>b</sup>Electives need to be carefully selected to ensure that a student’s degree comprises at least 39 credits of upper division courses (300-400 level). While students are encouraged to take additional courses in geography, these can be selected from any discipline provided student meets course prerequisites. Required Geography courses plus Geography electives (and environmental electives from other departments) must equal at least 60 credits.

<sup>c</sup>Environmental Geography comprehensive majors are required to take 12 credits of environmental course work outside of the major with consent of their advisor.

<sup>d</sup>While a single course can meet more than one LE Core outcome, credits cannot be double counted. Therefore, in the summary above, if a course appears a second time, it has zero credits that can be applied to the total number of LE credits. A minimum of 36 credits of LE coursework must be completed by graduation

- GEOG 200 is recommended prior to enrollment in GEOG 335 and 370.
- GEOG 335 is a prerequisite for GEOG 370.
- Student must complete one upper level GEOG course (300/400).
- Student must choose either GEOG 435 or GEOG 438 and will be advised to follow similar courses for additional Geospatial Elective (i.e. GEOG 438 would lead into GEOG 358 LiDAR)
- Student can take either GEOG 401 Capstone or GEOG 498 Internship.
- With consent of advisor, a minimum of 12 credits must be taken outside of Geography. Six outside credits are earned by the requirement of CS 170 and IS 240.
- Required Geography courses plus CS 170 and IS 240 plus Geography electives (and Geospatial Electives and electives from other departments) must equal at least 60 credits.
- A minimum of 120 credits is required to graduate; 39 credits must be from upper division courses (300 or higher)
- Students must take courses to satisfy the Liberal Education Core Requirements:

**Knowledge Goal (K)**

- Knowledge Outcome 1.....Two (2) learning outcomes
- Knowledge Outcome 2.....Two (2) learning outcomes
- Knowledge Outcome 3.....Two (2) learning outcomes
- Knowledge Outcome 4.....One (1) learning outcome

**Skills Goal (S)**

- Skills Outcome 1.....Two (2) learning outcomes
- Skills Outcome 2.....One (1) learning outcomes
- Skills Outcome 3.....One (1) learning experience, which could be satisfied within a major

**Responsibility Goal (R)**

- Skills Outcome 1.....Two (2) learning outcomes
- Skills Outcome 2.....One (1) learning outcome
- Skills Outcome 3.....One (1) learning outcome

**Integration Goal (I)**

- Integration Outcome 1.....Two (2) earning experiences, one of which could be satisfied within a major

- Students must complete 30 hours of Service-Learning
- Students must complete one lab associated with K1 or K2.
- A minimum of 36 credits of Liberal Education coursework must be completed by graduation