PROPOSAL TO MERGE 2 SUBPLANS IN THE GEOGRAPHY MAJOR & RENAME THE MAJOR

Submitted by Nancy Ettlinger
Chair, Undergraduate Studies Committee
Department of Geography

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I. PROPOSAL TO MERGE 2 SUBPLANS IN THE GEOGRAPHY MAJOR (BA DEGREE) & RENAME THE MAJOR

The current Geography BA degree includes two subplans: Urban, Regional, & Global Studies (URGS) and Environment & Society (E&S). At the start of the 2021-2022 academic year, the faculty who teach in these subplans unanimously agreed to merge them into one. There is no other subplan in Geography at this point, and there are no plans to add another subplan to the major.

The faculty discussed whether to retain 'Geography' as the name of the major or rename the major. The decision was to rename the major 'Social & Environmental Geography (SEG)' to communicate clearly the substantive focus of the major in light of the numerous subfields in the discipline.

If approved, the proposed revisions would be implemented in Autumn 2022.

Note on language: This proposal uses OAA language ('major' refers to the Geography BA and 'subplan' refers to specialization (URGS and E&S).

II. RATIONALE FOR THE PROPOSED REVISIONS

The URGS and E&S subplans each represent principal fields of study in human geography and draw from the same broad conceptual frameworks. The merger of the two subplans effectively formalizes existing practices: all human geography courses already integrate social and environmental issues; human geography students moving through the degree already take both URGS and E&S courses by way of electives; and all human geography students enroll in two required 4000-level courses (a capstone course, 4100, and a professionalization seminar, 4101) that also are required in the SEG major. As explained in sections IV, XI, and XII, the SEG major also includes a 1 credit hour requirement for seniors (Geog 5194).

III. IMPLEMENTION STRATEGY

The SEG major presents students with choices, by level of course (2000… 5000). The exceptions are our two 4000-level courses that are required for all SEG students as they were in the URGS and E&S subplans, 4101 and 4100, as well as the 1 credit hour course (5194) for seniors.

The table below indicates the SEG curriculum by level. Courses highlighted in blue currently are in the URGS subplan; courses highlighted in yellow currently are in the E&S subplan; courses highlighted in green currently are electives in both the URGS and E&S subplans. Courses highlighted in pink, have been added to the SEG curriculum (explained in the next section (IV)). The purpose of highlighting is to visualize the *mix* of courses from URGS and E&S at each level of the SEG major.

SEG Curriculum, by Course Level

Course #	Course title	credit hours	# courses selected
INTRODUCTORY ELECTIVES			
2100	Human Geography	3	select 1
2400	Economic & Social Geography	3	
2500[1]	Cities & their Global Spaces	3	
2800	Our Global Environment	3	
INTERMEDIATE ELECTIVES			
3300	Transportation Security	3	select 3
3597.01	World Urbanization	3	
3597.03	Environmental Citizenship	3	
3600	Space, Power & Political Geography	3	
3701	The Making of the Modern World	3	
3702	Life & Death Geographies	3	
3750	Geography of North America	3	
3800	Geographical Perspectives on Environment & Society	3	
3801	Political Ecology	3	
3900	Global Climate Change: Causes & Consequences	3	
3980	Biogeography: An Introduction to Life on Earth	3	
REQUIRED COURSES			
4101	Undergraduate Research & Professionalization Seminar	3	required
4100	Geographic Inquiry	3	required
5194	Group Studies (temporary, 1st 3 yrs of assessment plan)	1	required
ADVANCED ELECTIVES (4000-5000 LEVEL)			
4191	Internship (for Geography majors only)	3-5	select 3
5300	Geography of Transportation	3	
5301	Sustainable Transportation	3	
5401	Economies, Space & Society	3	
5402	Land Use Geography	3	
5501	Urban Spaces in the Global Economy	3	
5502	The Smart Neoliberal City	3	
5503	Urban China: Space, Place, and Urban Transformation	3	
5700	Geography of Development	3	
5802	Globalization & Environment	3	
5803	Sustainable Energy Geographies	3	

[1] The SEG faculty have agreed that 2500 eventually (by 2024) will replace 2100, which will be discontinued.

The total number of credit hours for the SEG major is 34-36; in addition to the 28-30 credit hours indicated above, students also select 2 of 8 Methods courses. **See separate attachment for the SEG Advising Sheet** as well as the comparison table in section VII to view the full curriculum.

IV. NEW COURSES IN THE SEG PLAN
The SEG plan includes 2 courses that were not part of URGS or E&S.

One of these courses is Geog 4191, which is part of Geography's suite of professionalization courses. This course provides students with the opportunity to enhance and deepen their internship experience through reflections on their workplaces, their role in those workplaces, the relation between their coursework in Geography and their professional work experience, and the potential of their internship as a stepping-stone towards a career. Previously, this course was an elective for students in the Geography and Atmospheric Science majors but did not constitute credit towards the degree; the change permits students to take this course for credit towards the SEG major. The course is repeatable, but not for credit towards the SEG major, and students are welcome to enroll in 4191 for 1-2 credits, but not for credit towards the major. If a student enrolls in 4191 for more than 3 credits, they still need to select two other courses from the 'bucket' of advanced electives.

The other course added to the SEG curriculum is a required 1 credit-hour course in which seniors (1) select and assemble assignments from courses they have taken in the SEG major that demonstrate their performance on selected expected learning outcomes; (2) write a reflection essay on how these assignments show development regarding the selected expected learning outcomes; and (3) present their reflection in a public forum. This course is integral to the Assessment Plan (section XI). As explained in section XII on the Transition Plan for Assessment, students will take this course as a Group Study (Geog 5194) for the first 3 years of the assessment plan while the assessment plan is being monitored and revised; once revisions are finalized in the 3rd year, a course proposal will be submitted for a new, 1 credit-hour course called Portfolio and Reflection.

V. DISCONTINUED COURSE
One former elective course, GEOG 3752 (Geography of Latin America), has been 'in limbo' because it has not been taught in recent years. The course is in the process of being withdrawn.

VI. NOTE ON EMBEDDED LITERACIES
Currently, the following courses have been approved for embedded literacies in Geography: 3597.03 for advanced writing; 4103 for data analysis; and 5210 for technology. In this light, 4103 and 5210 are *in effect* required methods courses so that students can graduate with embedded literacies, and the other methods courses would *not* count for credit towards the major. To date, 5200 and 5210 are the 2 methods courses in which URGS and E&S students mostly have enrolled. Spreading embedded literacies across many courses in Methods and SEG electives offers students considerably more choice than tying embedded literacies to a small number of courses, in this case, 2 Methods courses.

The issue is timing. The SEG faculty has not yet finalized which courses will embed literacies, and will do so by Autumn 2022. Since we expect these changes to be implemented next academic year, 2022-2023, this proposal presents the intended set of electives, which includes the courses in which students must enroll until the wider set of choices is finalized; students will be advised accordingly.

VII. COMPARISON OF CURRENT URGS AND E&S CURRICULA WITH THE SEG CURRICULUM REGARDING CREDIT HOURS

As shown in the Table below, the SEG curriculum is a true merging of the URGS and E&S curricula. The courses in the SEG major in comparison to the former URGS and SEG subplans are nearly similar except that the internship course (GEOG 4191, 3-5 cr hrs) and a Group Studies course (GEOG 5194, 1 cr hr) are new, as explained in section (IV as well as XI and XII). **See separate attachments for the URGS and E&S Advising Sheets**.

With the exception of the 2 required 4000-level courses and the Group Studies course, the SEG major is structured in terms of 'buckets' of elective courses at different levels to provide students flexibility and a broader selection of courses from which to choose. This approach is similar to the URGS and E&S subplans, although the URGS and E&S subplans had slightly more requirements for 3 credit hour courses (Geog 2100 for URGS; 3800 for E&S).

Credit Hour Comparison: SEG with URGS and E&S

T0TAL HOURS
URGS subplan: 33
E&S subplan: 33-34
SEG major: 34-36

REQUIRED COURSES					
SEG - 7 hours	Hours	E&S - 9 hours	Hours	URGS - 9 hours	Hours
GEOG 4101	3	GEOG 4101 OR 4103	3	GEOG 4100	3
GEOG 4100	3	GEOG 4100	3	GEOG 4101	3
GEOG 5194	1	GEOG 3800	3	GEOG 2100	3

METHODS COURSES					
SEG - 6 hours	Hours	E&S - 6 hours	Hours	URGS - 6 hours	Hours
GEOG 4103	3	GEOG 4103	3	GEOG 4103	3
GEOG 5103	3	GEOG 5103	3	GEOG 5103	3
GEOG 5200	3	GEOG 5200	3	GEOG 5200	3
GEOG 5201	3	GEOG 5201	3	GEOG 5201	3
GEOG 5210	3	GEOG 5210	3	GEOG 5210	3
GEOG 5212	3	GEOG 5212	3	GEOG 5212	3
GEOG 5225	3	GEOG 5225	3	GEOG 5225	3
GEOG 5226	3	GEOG 5226	3	GEOG 5226	3

GEOG ELECTIVES					
SEG -21-23 hours		**E&S - 9 hours**		**URGS - 18 hours**	
GEOG 2100	3				
GEOG 2400	3			GEOG 2400	3
GEOG 2500	3			GEOG 2500	3
GEOG 2800	3				
GEOG 3300	3			GEOG 3300	3
GEOG 3597.01	3			GEOG 3597.01	3
GEOG 3597.03	3	GEOG 3597.03	3		
GEOG 3600	3			GEOG 3600	3
GEOG 3701	3			GEOG 3701	3
GEOG 3702	3	GEOG 3702	3	GEOG 3702	3
GEOG 3750	3			GEOG 3750	3
GEOG 3800	3				
GEOG 3801	3	GEOG 3801	3	GEOG 3801	3
GEOG 3900	3				
GEOG 3980	3				
GEOG 4191	3-5				
GEOG 5300	3			GEOG 5300	3
GEOG 5301	3			GEOG 5301	3
GEOG 5401	3			GEOG 5401	3
GEOG 5402	3	GEOG 5402	3	GEOG 5402	3
GEOG 5501	3			GEOG 5501	3
GEOG 5502	3			GEOG 5502	3
GEOG 5503	3			GEOG 5503	3
GEOG 5700	3	GEOG 5700	3	GEOG 5700	3
GEOG 5802	3	GEOG 5802	3		
GEOG 5803	3	GEOG 5803	3	GEOG 5803	3

PHYSICAL GEOG ELECTIVES					
SEG		**E&S - 9-10 hours**		**URGS**	
GEOG 2800 (in GEOG Electives section)		GEOG 2800 or 2960	3-4	N/A	
GEOG 3980 (in GEOG Electives section)		GEOG 3980	3		
GEOG 3900 (in GEOG Electives section)		GEOG 3900/3901	3		

VIII. TRANSITION PLAN FROM URGS AND E&S SUBPLANS TO THE SEG MAJOR

The major counts for both E&S and URGS are relatively small and manageable, a total of 25-30 students. Once the SEG major is approved, it will be implemented for new majors (incoming freshman, transfer students, major changers, and campus-change students). Geography's academic advisors will work with current URGS and E&S students at the time of approval on a case-by-case basis to accommodate their interests and needs; these students can continue to pursue the URGS or E&S subplans or they can change their program to take advantage of the larger selection of electives in the SEG major through departmental approved course

substitutions. The URGS and E&S subplans will be retired once the remaining current students have graduated.

IX. CHANGE IN DELIVERY OF COURSES (e.g. HYBRID, IN-PERSON, ONLINE) – none

X. LEARNING GOALS

Although the topics or content of each course differs, the Geography department has harmonized all courses in the Geography BA and BS degrees regarding the skills or proficiencies that students develop. The learning goals for the SEG major are the same as for the URGS and E&S subplans as well as for all other subplans in the Geography major. Below is the Geography department's list of Program Goals, Expected Learning Outcomes, and Proficiencies.

No one course covers all proficiencies; **see separate attachment** for the **SEG Curriculum Map**, which indicates the proficiencies covered in each course in the SEG major.
Notes on the Curriculum Map
* The column for Geog 5194 is blank because coverage of proficiencies is 'to be determined,' as explained in sections XI and XII.
* Rows that have few entries (e.g. B.3.c and B.3.d) will be re-visited in the next 3 years among SEG faculty as well as faculty teaching the methods electives to decide if we want to revise or delete proficiencies or if faculty not currently evaluating student performance on certain proficiencies will do so.
* Required courses cover and evaluate some proficiencies that most other courses do not (especially regarding Goal E).

codes for level of proficiency

(B): beginning; (I) intermediate; (A) advanced; (S) S= specialized proficiency for students engaged in independent projects (class projects, thesis)

Goal A: Human, Environmental, and Spatial Concepts
Students understand various conceptual approaches and their context to interpret patterns, processes and their relation.
Expected Learning Outcomes
1. Conceptualize human, environmental, or spatial problems
    a. Describe the spatial and historical context of a problem (B)
    b. Identify the 'ecological fallacy' (the inappropriate homogenization or aggregation of differentiated phenomena within a unit of analysis, using scale as an analytical unit) (B)
    c. Examine dynamics within a place's or system's boundaries, and implications for real-world problems (I)
    d. Examine dynamics that connect places or systems across space, and implications for real-world problems (I)
    e. Evaluate processes that operate at different scales and their effects (A)
2. Critically evaluate different approaches to describe, explain, or predict real-world experience
    a. Describe the strengths and weaknesses of various approaches for their utility in interpreting real-world experience (B, I)
    b. Explain the contexts in which various approaches were developed (A)
    c. Critically evaluate various approaches in their field of study (A)

3. Appraise the relation between concepts and real-world experience
    a. Interpret patterns (B)
    b. Critique how knowledges in their fields are used in developing solutions to real-world problems (I)
    c. Relate research findings to debates about different approaches to research (A)
    d. Relate patterns to processes to assess causal relations (A)

Goal B: Research Strategies, Methods and Data
Students are able to apply appropriate methods and data, to transform data into actionable knowledges to support ethical scholarship and decision making.
Expected Learning Outcomes
1. Gather information regarding data and their context to draw conclusions
    a. Identify relevant data sources and their quality (B)
    b. Collect data from relevant sources (I)
    c. Design feasible data-collection procedures (I)
    d. Explain how context shapes conclusions drawn from data (A)
2. Evaluate research strategies and methods to engage problems
    a. Identify available research strategies and methods (B)
    b. Explain how strategies and methods may be used constructively and destructively in real-world applications (B, I)
    c. Provide empirical examples of constructive and destructive applications of methods (I)
    d. Assess the strengths and limitations of available research strategies and methods (I, A)
3. Apply strategies and methods
    a. Visualize patterns through mapping, graphing, or using GIS techniques (B)
    b. Identify sources of uncertainty or partial knowledges (B, I)
    c. Analyze how errors propagate through data processing (I)
    d. Examine the impacts of sources of uncertainty or partial knowledges on the reliability of data (I)
    e. Apply interactive and dynamic visualization techniques (I, A)
    f. Analyze patterns using appropriate methods (I, A)
    g. Apply strategies to mitigate or constructively engage the effects of uncertainty or partial knowledges (A)
    h. Interpret data and results using appropriate methods (A)

Goal C: Communication and Engagement
The successful student will be able to share and receive knowledge by engaging with diverse audiences, participants, and stakeholders.
Expected Learning Outcomes
1. Disseminate knowledges
    a. Identify modes by which knowledges can be disseminated (B)
    b. Recognize that different audiences will have different degrees of familiarity with subject being presented (B)
    c. Summarize an author's argument in their own words (B)
    d. Deliver oral presentations (B)
    e. Adjust the language and technical level of oral or written presentation relative to different audiences (B, I)
    f. Evaluate the standard modes of dissemination of knowledges for their strengths and weaknesses in a given context (I)

g. Use visual methods to enhance oral or written presentation (B, I)

h. Construct other output or products using diverse media, art, activism, or other strategies to convey messages from academic research (I)

i. Synthesize material from several sources (I)

j. Generate a document that develops an argument drawing from multiple sources (A)

2. Collaborate in learning and research

a. Demonstrate responsiveness to others (B)

b. Demonstrate ability to work with a division of labor in a collaborative project (B, I)

c. Demonstrate ability to work with people of varying cultures, backgrounds, abilities, ideas, ideals, and status (B, I)

d. Employ teamwork to achieve results (B, I, A)

Goal D: Critical Thinking and Ethical Engagement

The successful student is intellectually curious, interested in scrutinizing their assumptions, and is aware of the ethical dimensions of their professional activity regarding real-world problems to work towards justice.

Expected Learning Outcomes

1. Critically engage real-world problems

a. Identify multiple sides of a problem (B)

b. Explain multiple sides of a problem (I)

c. Explain the real-world consequences of different positions regarding a problem (A)

d. Develop a position based on an understanding of multiple sides of a problem (A)

e. Identify linkages among apparently discrete problems (A)

2. Appraise ethical issues in research

a. Explain how strategies and methods may be used constructively and destructively in real-world applications (B, I) [identical to B.2.b]

b. Perceive that everyone, including researchers, implicitly have biases and partial knowledges that can have negative effects on subjects under study (B, I)

c. Perceive that subjects under study and those encountered in the field, their values, and their privacy require respect (B, I)

d. Analyze their positionality regarding, for example, class, race/ethnicity, gender, age, citizenship, occupation, and the like relative those under study or encountered in the field (I, A)

e. Integrate ethical considerations into formulation of questions and applications of their knowledges (S)

Goal E: Professional Development

The successful student understands how to make use of the skills and knowledges developed in their undergraduate program towards securing a job and pursuing a career.

Expected Learning Outcomes

1. Make use of their values to guide their careers

a. Identify their value systems relative to career opportunities (B)

b. Describe tensions between their ideals and career realities (I)

c. Appraise the variety of options and trade-offs in career paths relative to their value systems (A)

2. Deploy their skills relative to a changing job market

a. Identify the range of their skills relative to a variety of career paths (B)

       b. Identify the strengths and limitations of their range of skills relative to various
            professional opportunities (I)

       c. Demonstrate the ability to learn new skills (A)

3. Creatively use skills to solve problems beyond those encountered in formal training

       a. Apply knowledge from formal training to examine a problem (B)

       b. Integrate diverse skills from formal training (I)

       c. Integrate knowledges from formal training with those acquired independently (A)

XI. ASSESSMENT MECHANISM FOR THE SEG MAJOR: A PORTFOLIO APPROACH[2]

The plan for assessment actively involves students through a portfolio approach. The plan serves student interests by providing (1) an opportunity for them to build a portfolio representing the trajectory of their intellectual development over the course of the major; (2) space for reflection by way of a written narrative about the contents of the portfolio; and (3) a public forum for presenting their reflections that should help solidify a sense of an SEG community. The operation of assessment is indicated below as a system we expect to crystallize in 4 years; section XII details transitional processes over the next 3 years.

- A new, standing SEG Assessment Committee (into which all SEG faculty rotate) selects 5 ELOs from the list in the previous section; over several years, other ELOs may be selected depending on the deliberations of the SEG Assessment Committee and the SEG faculty.

- Seniors select completed, evaluated assignments corresponding with specific ELOs from courses they have taken at each level (2000-5000); they select assignments from 4 courses, one from each level (2000-5000) plus another assignment from a course of the student's choice at any level. The assignments show how students performed on proficiencies in an ELO.

- Students store their completed, evaluated assignments in a Carmen Repository as instructors return them.

- Students meet with a member of the Assessment Committee once a year to ensure they are on track in the organization of their portfolio.

- Seniors enroll in a 1 credit-hour course (explained in section XII below), for which they will:
  - assemble their 5 assignments corresponding to 5 different ELOs
  - write a reflection essay on the assignments as demonstration of their proficiencies and their sense of the evolution of their program
  - present their reflection in a public forum along with peers also enrolled in the bookend course. SEG faculty attend the public forums, which are open to all undergraduates and required for all new majors (and possibly for students in

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[2] The model for the proposed portfolio approach is adapted from the assessment plan in Anthropology's Food Studies Certificate.

other courses such as the professionalization seminar, GEOG 4101, at the discretion of the instructor).

In light of the small major, 25-30 students, the senior class likely will be constituted by about 5 students – very manageable both for program assessment and the details of the departmental bookend course, including the public forum.

The course serves 2 purposes: (1) a *departmental* (as opposed to university administered) bookend course that will be graded and will position students to recapitulate and reflect on their major; and (2) a vehicle for program assessment. In addition, the public forum, one component of the course, will serve to cultivate a sense of collegiality and intellectual common ground among SEG majors.

Note that selecting assignments from courses from the 2000 through the 5000 levels does not necessarily signify that students' acquired knowledges and skill sets evolve linearly from 2000 through the 5000 level because students often enroll in low-level courses late in their program. The important point is what students have learned throughout the course of their major, irrespective of the level of the course. The written and oral reflections contextualize the learning process.

- The Assessment Committee evaluates the portfolios (selected assignments and the reflection essay) and the public presentations; the Chair of the Assessment Committee, a rotating position, also serves as the instructor of the course and records the grades. Based on the portfolios and written and oral reflections, the Assessment Committee assesses the SEG program in terms of the students' performance on the selected ELOs and associated proficiencies using the categories 'developing,' 'emerging,' and 'proficient.'

XII. TRANSITION PLAN FOR ASSESSMENT

The assessment plan described above will be in effect in 4 years. Until then, the plan will be abbreviated and the full SEG faculty will be involved in addition to the Assessment Committee to monitor its operation and deliberate about possible revisions. In each of the first 3 years of the new assessment plan, the Assessment Committee and the SEG faculty will discuss the portfolios and written and oral reflections relative to the ELOs and decide what, if any revisions are required to ensure an effective program.

- ➢ In the 1st 3 years of the program, the entire SEG faculty meets following the public forum to:
  - (1) assess the SEG program by discussing the Assessment Committee's findings regarding students' performance on the selected assignments and written and oral reflections
  - (2) identify problems revealed in the portfolios and presentations, discuss and reach conclusions about strategies to deal with problems.

During the first 3 years of the new assessment plan, the 1 credit-hour course in which students assemble portfolios and reflect on them will be a temporary, Group Studies course, Geog 5194. In the 3rd year of the assessment plan, revisions to the assessment plan will be finalized in a proposal for a new, permanent course, *Portfolio and Reflection*.

1st year

The Assessment Committee will select 1 ELO and associated proficiencies and select some, high-performing students (eg those working on the theses, research posters and presentations) to participate in the assessment process. These students will select 1 completed and evaluated assignment for their portfolio. In this first year, the Assessment Committee establishes a Carmen Repository for students to store their completed, evaluated assignments.

Based on the portfolios and presentations, the Assessment Committee and the SEG faculty will discuss whether to make changes in the plan, and whether to continue to focus on a selection of high-performing students or extend the assessment plan to more or all students in the following year.

2nd year

The Assessment Committee will select 2 ELOs and all or a selection of seniors will select 2 assignments for their portfolio. The Assessment Committee and the SEG Faculty will discuss what, if any, aspects of the plan require revision, and whether the grade for the permanent course, to be proposed in the following academic year, should be a letter grade or Satisfactory/Unsatisfactory.

3rd year

The Assessment Committee will select 3 ELOs and all seniors will select 3 assignments for their portfolio. The Assessment Committee and the SEG Faculty will finalize revisions and deliberation about the nature of the grades, and the Undergraduate Studies Chair will submit a proposal for a new, permanent course, Portfolio and Reflection.

4th year

The assessment plan will be fully in effect in the 4th year of the assessment plan and the Assessment Committee (rotating positions) will assess the SEG program based on the portfolios and public presentations. The Chair of the Assessment Committee (rotating position) will continue to serve as instructor of the new course and record the grades for the new course.

Geography: Social & Environmental Geography (Bachelor of Arts)

Geography: Social & Environmental Geography Major
34-36 Major Credit Hours

GENERAL EDUCATION
College of Arts & Sciences Bachelor of Arts general education requirements apply.
Please visit https://artsandsciences.osu.edu/academics/current-students/advising/ge

MAJOR REQUIREMENTS

REQUIRED COURSES (3 courses/7 hours)

Course	Title	Hours	Required Prerequisite
GEOG 4101	Undergraduate Research & Professionalization Seminar *AU Only*	3	3 credit hours in Geography
GEOG 4100	Geographic Inquiry *(capstone course)* *SP Only*	3	*Taken in final year of study*
GEOG 5194	Group Studies in Geography	1	*Taken in final year of study*

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ELECTIVE COURSES* (9 courses/27-29 hours)
(2 methods courses; 1 introductory course; 3 intermediate courses; 3 advanced courses)

Methods Courses (select 2 courses/6 hours)

Course	Title	Hours	Required Prerequisite
GEOG 4103	Introductory Spatial Data Analysis	3	Math 1116 or above
GEOG 5103	Intermediate Spatial Data Analysis	3	GEOG 4103 *Not open to students w/GEOG 5100*
GEOG 5200	Cartography & Map Design	3	None
GEOG 5201	GeoVisualization	3	GEOG 5200
GEOG 5210	Fundamentals of Geographic Information Systems	3	None
GEOG 5212	Geospatial Databases for GIS	3	GEOG 5210
GEOG 5225	Geographic Applications of Remote Sensing	3	None
GEOG 5226	Spatial Simulation & Modeling in GIS	3	None

Introductory Courses (select 1 course/3 hours)

Course	Title	Hours	Required Prerequisite
GEOG 2100	Human Geography	3	None
GEOG 2400	Economic & Social Geography	3	None
GEOG 2500	Cities & Their Global Spaces	3	None
GEOG 2800	Our Global Environment	3	None

Intermediate Courses (select 3 courses/9 hours)

Course	Title	Hours	Required Prerequisites
GEOG 3300	Geography of Transportation	3	None
GEOG 3597.01	World Urbanization	3	None
GEOG 3597.03	Environmental Citizenship	3	None
GEOG 3600	Space, Power & Political Geography	3	None
GEOG 3701	The Making of the Modern World	3	None
GEOG 3702	Life & Death Geographies	3	None
GEOG 3750	Geography of North America	3	None
GEOG 3800	Geographical Perspectives on Environment & Society	3	None
GEOG 3801	Political Ecology	3	None
GEOG 3900	Global Climate Change: Causes & Consequences	3	None
GEOG 3980	Biogeography: An Introduction to Life on Earth	3	None

Advanced Courses (select 3 courses/9-11 hours)

Course	Title	Hours	Required Prerequisites
GEOG 4191	Internship in Geography	3-5	None
GEOG 5300	Geography of Transportation	3	None
GEOG 5301	Sustainable Transportation	3	None
GEOG 5401	Economies, Space and Society	3	None
GEOG 5402	Land Use Geography	3	None
GEOG 5501	Urban Spaces in the Global Economy	3	None
GEOG 5502	The Smart Neoliberal City	3	None
GEOG 5503	Urban China: Space, Place and Urban Transportation	3	None
GEOG 5700	Geography of Development	3	None
GEOG 5802	Globalization and Environment	3	None
GEOG 5803	Sustainable Energy Geographies	3	None

* Some elective courses may be taught only one semester. Students should work with their advisors to construct their schedules.

Major Requirements

Students must earn at least a C- in a course for the course to be applied to the major. However, students must receive a 2.0 cumulative grade point average (GPA) for all major course work. If a D+, D, or an E is earned in a course needed for the major, the course cannot be counted on the major. The major advisor will decide if the course should be repeated or if another course should be substituted. Courses taken on a pass/non-pass basis cannot be used on the major.

If a student transferred from another institution, no more than half of the credit hours on the major program may consist of transfer credit. The academic advisor, the chairperson of the department, and the appropriate assistant dean must approve any request for a variation in this policy.

For Honors students, the GE curriculum and major must be approved by the ASC Honors Faculty Committee. Information about the honors curriculum and requirements and how to schedule an appointment with an honors advisor is available on the College of Arts and Sciences Honors Program website: http://aschonors.osu.edu/advising. Students will also be assigned a faculty advisor in the department of study to help the student choose courses and co-curricular opportunities that align with academic and professional goals.

THE OHIO STATE UNIVERSITY
COLLEGE OF ARTS AND SCIENCES

GEOGRAPHY DEPARTMENT

Geography: Urban, Regional and Global Studies (Bachelor of Arts)

Geography: Urban, Regional and Global Studies Major
Requires 121 Total Credit Hours; 33 Major Credit Hours

GENERAL EDUCATION
College of Arts & Sciences Bachelor of Arts general education requirements apply.
Please visit https://artsandsciences.osu.edu/academics/current-students/advising/ge

MAJOR REQUIREMENTS

Required Courses (3 courses/9 hours)

Course	Title	Hours	Required Prerequisite
GEOG 2100	Human Geography	3	None
GEOG 4101 *	Undergraduate Research & Professionalization Seminar	3	3 credit hours in Geography
GEOG 4100 *	Geographic Inquiry *(capstone course)*	3	*taken in last year of study*

* Indicates course is only offered one term per year.

Elective Courses (8 courses/24 hours)
(2 methods courses; 3 introductory/intermediate courses; and 3 advanced courses)

Methods Courses (select 2 courses/6 hours)

Course	Title	Hours	Required Prerequisite
GEOG 4103	Introductory Spatial Data Analysis *(previously GEOG 5100)*	3	Math 1116 or above
GEOG 5103	Intermediate Spatial Data Analysis	3	GEOG 4103 *Not open to students w/GEOG 5100*
GEOG 5200	Cartography & Map Design	3	None
GEOG 5201	GeoVisualization	3	GEOG 5200
GEOG 5210	Fundamentals of Geographic Information Systems	3	None
GEOG 5212	Geospatial Databases for GIS	3	GEOG 5210 and CSE 1114
GEOG 5225	Geographic Applications of Remote Sensing	3	None
GEOG 5226 *	Spatial Simulation & Modeling in GIS	3	None

* Indicates course is only offered one term per year.

Introductory/Intermediate Courses (select 3 courses/9 hours)

Course	Title	Hours	Course	Title	Hours
GEOG 2400(H)	Economic & Social Geography	3	GEOG 3702 **	Life & Death Geographies: Global Population Dynamics	3
GEOG 2500 *	Cities & Their Global Spaces	3	GEOG 3750 *	Geography of North America	3
GEOG 3300 *	Transportation Security	3	GEOG 3751 **	Geography of Ohio	3
GEOG 3597.01 *	World Urbanization	3	GEOG 3752 **	Geography of Latin America	3
GEOG 3600(H)**	Space, Power, & Political Geography	3	GEOG 3753.02 *	Geography of the European Union	3
GEOG 3601 **	Modern Geopolitical Imagination	3	GEOG 3801 *	Political Ecology	3
GEOG 3701	The Making of the Modern World	3	EARTHSC 3411 *	Water Security for the 21st Century	3

* Indicates course is only offered one term per year.
** Indicates course is only offered alternate years or less often.

Advanced Courses (select 3 courses/9 hours)

Course	Title	Hours
GEOG 5300 *	Geography of Transportation	3
GEOG 5301 *	Sustainable Transportation	3
GEOG 5401 **	Economies, Space & Society	3
GEOG 5402 *	Land Use Geography	3
GEOG 5501 *	Urban Spaces in the Global Economy	3
GEOG 5502 *	The Neoliberal City	3

Course	Title	Hours
GEOG 5503 *	Urban China: Space, Place & Urban Transformation	3
GEOG 5601 **	Foucault, Power, Governance	3
GEOG 5602 **	Conflict, Power & Politics in the City	3
GEOG 5700 *	Geography of Development	3
GEOG 5803 *	Sustainable Energy Geographies	3

* Indicates course is only offered one term per year.

** Indicates course is only offered alternate years or less often.

Major Requirements

The following requirements for the major apply to all Arts and Sciences degrees.

Major requirements comprise at least 30 semester hours and can be substantially higher. Major courses must be at the 2000 level or above. At least 20 hours of the major must be in courses offered by the department of the major. Note: Some interdisciplinary majors are excluded from the 20-hour rule.

Students must earn at least a C- in a course for the course to be applied to the major. However, students must receive a 2.0 cumulative grade point average (GPA) for all major course work. If a D+, D, or an E is earned in a course needed for the major, the course cannot be counted on the major. The major advisor will decide if the course should be repeated or if another course should be substituted. Courses taken on a pass/non-pass basis cannot be used on the major.

The department must approve all courses in the major. Some departments require a "major program form," a document that must be signed by the academic advisor and submitted with the graduation application. Some departments do not require such a form because the academic advisors use an automated version on the degree audit report. Some departments require both. In any case, students should meet with the academic advisor early to plan the major; during your meeting, it can be determined whether the department requires a paper major program form. Any changes or adjustments to the major should be made in consultation with the academic advisor.

If a student transferred from another institution, no more than half of the credit hours on the major program may consist of transfer credit. The academic advisor, the chairperson of the department, and the appropriate assistant dean must approve any request for a variation in this policy.

For Honors students, the GE curriculum and major must be approved by the assigned Honors advisor. Information about the honors curriculum and requirements and how to schedule an appointment with an honors advisor is available on the College of Arts and Sciences Honors Program website: http://aschonors.osu.edu/advising. Students will also be assigned a faculty advisor in the department of study to help the student choose courses and co-curricular opportunities that align with academic and professional goals.

For more information about internship and career opportunities, **visit the College of Arts and Sciences Career Services Office.** Their website is http://asccareerservices.osu.edu/ .

THE OHIO STATE UNIVERSITY
COLLEGE OF ARTS AND SCIENCES

GEOGRAPHY DEPARTMENT

Geography: Environment and Society (Bachelor of Arts)

Geography: Environment and Society Major
Requires 121 Total Credit Hours; 33-34 Major Credit Hours

GENERAL EDUCATION
College of Arts & Sciences Bachelor of Arts general education requirements apply.
Please visit https://artsandsciences.osu.edu/academics/current-students/advising/ge

MAJOR REQUIREMENTS
NOTE: Several major courses are offered only one term per year. Careful schedule planning is required to complete course sequences in a timely manner.

Required Courses (3 courses/9 hours)

Course	Title	Hours	Required Prerequisite
GEOG 3800 *	Geographical Perspectives on Environment & Society	3	None
GEOG 4101 *	Undergraduate Research & Professionalization Seminar	3	3 credit hours in Geography
GEOG 4100 * OR GEOG 4103	Geographic Inquiry *(capstone course)* OR Introductory Spatial Data Analysis *(previously GEOG 5100)*	3 3	*taken in last year of study* Math 1116 or higher

* Indicates course is only offered one term per year.

Physical Geography Courses (3 courses/9-10 hours)

Course	Title	Hours
GEOG 2800 * OR GEOG 2960 *	Our Global Environment OR Introduction to Physical Geography	3 4
GEOG 3980 *	Biogeography: An Introduction to Life on Earth	3
GEOG 3900 OR GEOG 3901H *	Global Climate Change: Causes & Consequences OR Global Climate & Environmental Change	3 3

* Indicates course is only offered one term per year.

Elective Courses (5 courses/15 hours)
(2 methods courses and 3 human geography courses)

Methods Courses (select 2 courses/6 hours)

Course	Title	Hours	Required Prerequisite
GEOG 4103	Introductory Spatial Data Analysis *(if not taken as required course)* *(previously GEOG 5100)*	3	Math 1116 or above
GEOG 5103	Intermediate Spatial Data Analysis	3	GEOG 4103 *Not open to students w/GEOG 5100*
GEOG 5200	Cartography & Map Design	3	None
GEOG 5201	GeoVisualization	3	GEOG 5200
GEOG 5210	Fundamentals of Geographic Information Systems	3	None
GEOG 5212	Geospatial Databases for GIS	3	GEOG 5210 and CSE 1114
GEOG 5225	Geographic Applications of Remote Sensing	3	None
GEOG 5226 *	Spatial Simulation & Modeling in GIS	3	None

* Indicates course is only offered one term per year.

Human Geography Courses (select 3 courses/9 hours)

Course	Title	Hours
GEOG 3597.03 *	Environmental Citizenship	3
GEOG 3702 **	Life & Death Geographies: Global Population Dynamics	3
GEOG 3801*	Political Ecology	3
GEOG 5402 *	Land Use Geography	3
GEOG 5700 *	Geography of Development	3
GEOG 5801 **	Environmental Conservation	3
GEOG 5802 *	Globalization & Environment	3
GEOG 5803*	Sustainable Energy Geographies	3

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