

# GIS 2611 - Geospatial Foundations

Fall 2026 Syllabus, Section 01, CRN 43144,

Credit hours: 3

## Instructor

**Bradley Shellito**

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## Public Instructor Information

Instructor Title: Professor

Instructor Professional Qualifications:

FAA Certified Remote Pilot, 2025

YSU Distinguished Professor, 2024

Ph. D., Michigan State University, 2001

M.A., The Ohio State University, 1996

Bachelor's of Science, Youngstown State University, 1994

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## Course Description

2611. Geospatial Foundations. An overview of geospatial science and technology, including introductory concepts in spatial analysis, Geographic Information Systems, remote sensing, and GPS. The class provides a survey of theoretical geospatial topics as well as their applications. 3 s.h.

## Course Readings

| Group    | Title                                               | Author   | ISBN          |
|----------|-----------------------------------------------------|----------|---------------|
| Required | Introduction to Geospatial Technologies 6th Edition | Shellito | 9781319597115 |

You must use the 6th edition for this class.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

## Schedule of Topics and Assignments

| Week of | Reading(s)                                                | Proposed Topic                         | Due/To Prepare for Class             |
|---------|-----------------------------------------------------------|----------------------------------------|--------------------------------------|
| 8/24    | ArcGIS Account and ArcGIS Installation PDFs on Blackboard | Geospatial Technologies and You        | ArcGIS Account Due                   |
| 8/31    | Chapter 1                                                 | It's a Geospatial World Out There      | GA 1 Due                             |
| 9/7     | Chapter 2                                                 | Where in the Geospatial World Are You? | GA 2 Due                             |
| 9/14    | Chapter 3                                                 | Getting Your Data To Match The Map     | GA 3 Due                             |
| 9/21    | Chapter 4                                                 | The Global Positioning System          | GA 4 Due (extra credit GA), CT 1 Due |
| 9/28    | Chapter 5                                                 | Working With Geospatial Data and GIS   | GA 5 Due, Take Exam 1                |
| 10/5    | Chapter 6                                                 | Using GIS for Spatial Analysis         | GA 6 Due                             |

|       |                                    |                                                                                |                                               |
|-------|------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------|
| 10/12 | StoryMap Project PDF on Blackboard | Introduction to StoryMaps and Overview of<br>Guided Map Tour StoryMap Projects | CT 2 Due                                      |
| 10/19 | Chapter 7                          | Using GIS to Make a Map                                                        | GA 7 Due, Project Proposals Due               |
| 10/26 | Chapter 8                          | Getting There Quicker – Shortest Paths                                         | GA 8 Due, CT 3 Due                            |
| 11/2  | Chapter 9                          | Remotely Sensed Images From Above                                              | GA 9 Due, Take Exam 2                         |
| 11/9  | Chapter 13                         | Digital Landscaping                                                            | GA 10 Due                                     |
| 11/16 | Chapter 14                         | See the World in 3D                                                            | GA 11 Due (extra credit GA), CT 4 Due         |
| 11/23 |                                    | Completing Projects and Thanksgiving<br>Holiday                                |                                               |
| 11/30 | Chapter 15                         | Life on the Geospatial Cloud                                                   | GA 12 Due, Projects Due                       |
| 12/7  |                                    | Final Exam Week                                                                | Take Exam 3 - Closes at 5pm on December<br>10 |

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.