GIS 2611 - Geospatial Foundations

Fall 2026 Syllabus, Section 02, CRN 43257,

Credit hours: 3

Instructor

Peter Kimosop

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Public Instructor Information

Instructor Title: Associate Professor

Instructor Professional Qualifications:
Certified Remote Pilot, Federal Aviation Administration (FAA), 2025
GIS Professional Certification (GISP), GIS Certification Institute, 2015
Ph.D., Geography, University of Cincinnati, 2011
Master's, Geography, Western Michigan University, 2005
Bachelor's, Geography, University of Nairobi, 2000

Instructor Office Location: Moser 2105

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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	978-0134758589

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	Chapter 1	Introduction and Course Overview .	No Assignment Due
8/31	Chapter 1	Introduction to Geospatial Science . HOA 1: Introduction to Geospatial Concepts and Google Earth Pro .	No Assignment Due
9/7	Chapter 2	Coordinates and Position Measurements . HOA 2: Coordinates and Position Measurements .	HOA 1 — Due Thursday, September 10 at 12:30 p.m.

9/14	Chapter 3	Map Georeferencing and Transformation . HOA 3: Georeferencing an Image .	HOA 2 — Due Thursday, September 17 at 12:30 p.m.
9/21	Chapter 4	Introduction to Global Positioning Systems (GPS) . HOA 4: GNSS Applications .	HOA 3 — Due Thursday, September 24 at 12:30 p.m. .
9/28	Chapter 5	Working with Digital Geospatial Data and GIS . HOA 5: GIS Introduction	HOA 4 — Due Thursday, October 1 at 12:30 p.m. . Exam 1 — Thursday, October 1, 12:30 - 1:45 p.m. .
10/5	Chapter 6	Using GIS for Spatial Analysis . HOA 6: GIS Spatial Analysis .	HOA 5 — Due Thursday, October 8 at 12:30 p.m.
10/12	Chapter 7	Using GIS to Make a Map . HOA 7: GIS Layouts .	HOA 6 — Due Thursday, October 15 at 12:30 p.m.
10/19	Chapter 8	Getting There More Quickly with Geospatial Technology . HOA 8: Geocoding and Shortest Path Analysis .	HOA 7 — Due Thursday, October 22 at 12:30 p.m. . Map Tour Project Proposal — Due Thursday, October 22 at 12:30 p.m. .
10/26	Chapter 9	Remotely Sensed Images from Above . HOA 9: Remotely Sensed Images from Above .	HOA 8 — Due Thursday, October 29 at 12:30 p.m.
11/2	Chapter 10	How Remote Sensing Works . HOA 10: Remotely Sensed Imagery and Color Composites .	HOA 9 — Due Thursday, November 5 at 12:30 p.m.
11/9	Chapter 11	Images from Space . HOA 11: Landsat 8 Imagery .	HOA 10 — Due Thursday, November 12 at 12:30 p.m.
11/16	Chapter 12	Studying Earth's Climate and Environment from Space . HOA 12: Earth's Climate and Environment from Space .	HOA 11 — Due Thursday, November 19 at 12:30 p.m.
11/23	Thanksgiving .		
11/30	Map Tour Project	Work on Map Tour Projects	HOA 12 — Due Thursday, December 3 at 12:30 p.m. . Map Tour Project — Due Friday, December 4 at 11:59 p.m. .

12/7	Final Exam — Tuesday, December 8, 3:15 - 5:15 p.m.

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