

## GIS 5820 - Directed Research in GIS

Fall 2026 Syllabus, Section 01, CRN 43318,

Credit hours: 3

### Instructor

**Peter Kimosop**

Email: [pkimosop@ysu.edu](mailto:pkimosop@ysu.edu)

### 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

Instructor Office Phone: (330) 941-3052

### Course Description

5820. Directed Research in GIS. An in-depth study of a specific problem in GIS. The problem is dependent upon the student's interest and competence, availability of faculty supervision and department equipment. May be repeated up to 3 semester hours. Prereq.: 20 semester hours of GIS. 1-3 s.h.

### Course Readings

| Group    | Title | Author | ISBN |
|----------|-------|--------|------|
| Optional |       |        |      |

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 | Proposed Topic                                    | Due/To Prepare for Class                                       |
|---------|---------------------------------------------------|----------------------------------------------------------------|
| 8/24    | Identify a Research Topic and a Research Question | No Assignments Due                                             |
| 8/31    | Perform a Literature Review                       | Progress Meeting: Meet with the Instructor for a Status Update |
| 9/7     | Identify the Geospatial Data Needed               |                                                                |
| 9/14    | Develop Research Methodology                      |                                                                |
| 9/21    | Research Proposal                                 | Research Proposal — Due Friday, September 25 at 11:59 p.m.     |
| 9/28    | Acquire, Organize, and Prepare Data               |                                                                |
| 10/5    | Acquire, Organize, and Prepare Data               | Progress Meeting: Meet with the Instructor for a Status Update |

---

|       |                                   |                                                                |
|-------|-----------------------------------|----------------------------------------------------------------|
| 10/12 | Conduct GIS Analysis              | .                                                              |
| 10/19 | Conduct GIS Analysis              | .                                                              |
| 10/26 | Evaluate Preliminary Results      | Progress Meeting: Meet with the Instructor for a Status Update |
| 11/2  | Refine Analysis                   | .                                                              |
| 11/9  | Develop Maps, Figures, and Tables | Progress Meeting: Meet with the Instructor for a Status Update |
| 11/16 | Draft Final Research Report       | .                                                              |
| 11/23 | Thanksgiving                      | .                                                              |
| 11/30 | Complete Final Report             | Final Report Submission — Due Friday, December 4 at 11:59 p.m. |

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.