ONLINE POSTBACCALAUREATE CERTIFICATE IN GEOGRAPHIC INFORMATION SCIENCE

For those seeking a shorter-term graduate studies commitment, Kent State University offers an online Postbaccalaureate Certificate in Geographic Information Science (GISc). With available specializations in Cyber GISc, Environmental GISc and General GISc, this program can help prepare you for analytical and managerial positions that utilize geospatial technologies in specific focus areas.

PROGRAM BENEFITS

- Concentrate your studies with one of three available specializations to tailor your graduate school experience to your career needs
- Study within a flexible online program structure designed for full-time working professionals
- Grow your career with an advanced credential without committing to a full master’s program
- No GRE required

WHAT YOU’LL LEARN

This program aims to expand your knowledge and skills in the geographic information science specialization of your choosing. You may explore the use and development of cyberinfrastructure, spatial programming analysis and web-enabled mapping technologies; master geospatial technologies used for planning, response, mitigation and recovery activities in the fields of emergency management, public safety and homeland security; or learn to manage large systems and big geospatial data.

PROGRAM STRUCTURE

- 100% online coursework
- 14-15 credits total
  - General GISc specialization requires completion of at least 14 credits, Cyber and Environmental GISc each require 15
  - 12 credits from the certificate can later be applied toward the online Master of Geographic Information Science (MGISc)
- 4-5 courses
  - General GISc specialization requires a minimum of 4 courses, Cyber and Environmental GISc each require a minimum of 5
- Courses last 7 weeks each
- Graduate in as little as 1 year
- 3 annual start dates: January, May, August
THE CURRICULUM

GENERAL GISC:
Students must complete the following 3 courses, plus one elective offered for the MGisc program:

- GEOG 59070 – Geographic Information Science (4 Credits)
- GEOG 59080 – Advanced Geographic Information Science (3 Credits)
- GEOG 69164 – Cartographic Design (4 Credits)

CYBER GISC:
Students must complete a minimum of 15 credits from the following courses:

- CS 61002 – Algorithms and Programming I (4 credits)
- DSCI 64210 – Data Science (3 credits)
- GEOG 59076 – Spatial Programming (3 credits)
- GEOG 69007 – Spatiotemporal Analytics (3 credits)
- GEOG 69082 – Cyber GIS (3 credits)
- GEOG 69083 – Geodatabases (3 credits)
- GEOG 69164 – Cartographic Design (4 credits)

ENVIRONMENTAL GISC:
Students must complete a minimum of 15 credits from the following courses:

- GEOG 59072 – Geographic Information Science and Health (3 credits)
- GEOG 59078 – Geographic Information Science and Environmental Hazards (3 credits)
- GEOG 69004 – Quantitative Methods in Geography (3 credits)
- GEOG 69079 – Environmental Geographic Information Science (3 credits)
- GEOG 69083 – Geodatabases (3 credits)
- GEOG 69164 – Cartographic Design (4 credits)
- GEOG 69231 – Environmental Remote Sensing (3 credits)

*NOTE: Additional course options may be available at the department’s discretion.