Online Master of Geographic Information Science

The online Master of Geographic Information Science (GISc) program at Kent State University offers you the skills and knowledge needed to delve into exciting and evolving areas within the field of geographic information science.

With the increasing demand for geographic information science expertise, graduates of the Master of Geographic Information Science program can drive innovation and apply modern technologies in their careers in nonprofit, government or business sectors.¹

Program at a Glance

Kent State’s online Master of Geographic Information Science program is designed for busy working professionals and students seeking a graduate education with the following features:

- 32 credits: 4 core courses, 3 concentration courses and 2 elective courses
- Courses last 7 weeks, with 2 courses taken sequentially each semester
- Complete in as few as 5 semesters or 2 years

Why choose Kent State’s online Master of GISc?

- Choose from three concentrations: Cyber GISc, Environmental GISc and Health & GISc
- Learn from dedicated faculty genuinely invested in seeing their students succeed
- Submit your application with no GRE requirement for admission into the program
- Multiple sections of each course are offered per semester to ensure small class sizes

Faculty

Kent State University’s geographic information science faculty in the Department of Geography have diverse backgrounds and professional experiences that include public health mapping, geospatial analysis, cyber GIS, crime analysis, remote sensing and geomorphology. Our highly trained faculty members are here to ensure you receive the best quality of educational experience.

What You’ll Learn

The Master of Geographic Information Science program is offered online and will prepare graduates for and analytical managerial positions that utilize geospatial technologies. Students will choose from three concentration areas: Cyber GISc, Environmental GISc and Health & GISc.

WHAT YOU’LL LEARN (continued)

**Cyber GISc Concentration**
In a time when massive amounts of information and data are readily available at our fingertips, geographic information systems (GIS) technology continues to evolve and adapt to meet the needs of a rapidly changing field. Cyber GISc has emerged in recent years as a dynamic interdisciplinary field with an immense impact on numerous scientific domains and research areas. Many scientific problems require the aggregation of large and varied spatial data, creating a growing interest in the field of cyber GISc. In this concentration, students will navigate the challenges of managing, analyzing, filtering and visualizing large quantities of spatiotemporal data from mobile devices, supercomputers and web-based services. Graduates of this concentration are prepared to work in local, state and federal government agencies, logistics-focused businesses, marketing, engineering and more.

**Environmental GISc Concentration**
Understanding the complexities of the earth’s ecosystems and our impact on the environment can be a daunting task that requires extensive amounts of information and subsequent analysis. In the Environmental GISc concentration, students will learn how GIS technology is used to understand the various resources, hazards and changes in our environment. Experts in the fields of emergency management, public safety and homeland security depend on this technology every day as they work to address environmental challenges across the world. Upon graduation, students are prepared to work in various levels of government and private sector consulting.

**Health & GISc Concentration**
Where someone resides determines what healthcare options are open to them and what health-related concerns they may face. Public health, as a result, is a field that turns to geographic information science more and more frequently for analyzing trends in health across time and space. In the Health & GISc concentration, students will focus on medical or health geography as an area of research that uses geographic techniques and systems to study the impact of a person’s surroundings on their health. Students will learn to utilize mapping techniques to chart outbreaks and prevent the spread of epidemics around the world by identifying incidences and measuring their prevalence. Various levels of health-related government agencies, private industries and nonprofits turn to experts in health geographic information science to locate ideal sites for healthcare organizations or businesses and to improve health outcomes in communities.