GEOSPATIAL PROGRAMMING AND WEB MAP DEVELOPMENT GRADUATE CREDIT CERTIFICATE PROGRAM

Learning Outcomes

1. Application - Apply contemporary programming principles to automate geospatial analysis and mapping processes.
2. Communication - Communicate the nuances of complex spatial relationships with text, voice, and visual products to broadly inform professional and non-technical audiences in a range of contexts.
3. Creation - Create interactive web-based mapping applications that support spatial data exploration and analysis.
4. Critical Thinking - Objectively analyze and evaluate a situation in the context of available geospatial programming techniques and technologies in support of problem solving and decision making.
5. Cultural Competence - Demonstrate knowledge of cultural norms that are respectful of diversity and inclusion to establish a positive and professional work environment.
6. Ethics - Demonstrate ethical conduct by producing quality work, contributing to the community, managing professional relationships by establishing honest and respectful interactions among individuals and organizations.
7. Knowledge - Apply knowledge of programming technologies to design and implement custom user interfaces in support of mapping and spatial analysis to educate, solve problems and make decisions.
8. Professional - Demonstrate conduct in alignment with professional standards in interpersonal communication, mediation, and respect for diversity while recognizing appropriate team roles in professional, community and education-based activities.
9. Research - Combine accepted programming techniques and geospatial technologies to create new solutions for previously unencountered situations.