

# SPATIAL DATA SCIENCE GRADUATE CREDIT CERTIFICATE PROGRAM

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## Learning Outcomes

1. **KNOW:** Graduates will be able to characterize the state of the art in spatial data science methodologies and technologies.
2. **APPLY/CREATE:** Graduates will be able to create new analytical and visualization solutions to complex spatial data science problems that intersect people and the environment.
3. **COMMUNICATE:** Graduates will demonstrate effective scientific writing, presentation, and cartographic communication skills.
4. **THINK:** Graduates will be able to explain and contextualize the distinguishing characteristics of spatial data sources, spatial analysis methods, and geographic visualizations.
5. **PROFESSIONAL PRACTICE:** Graduates will be able to evaluate spatial data science problems to address ethical and professional challenges.