

# WEATHER AND CLIMATE ANALYTICS GRADUATE CREDIT CERTIFICATE PROGRAM

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## Learning Outcomes

At the completion of this program, students will be able to:

1. **GATHER:** Identify and collect pertinent sources of global weather and climate data within the context of a specific weather impacted problem;
2. **ANALYZE:** Inspect, clean, transform, and analyze historical weather and climate data in a manner that best defines the characteristics key to understanding a particular weather impact;
3. **PREDICT:** Use predictive analytic techniques on historical observations in order to forecast the future behavior of the atmosphere and exposure of a stakeholder to those events.
4. **COMMUNICATE:** Effectively communicate weather and climate data analyses and the implications of the analysis results to decision-makers.
5. **PERSPECTIVE:** Develop a global perspective on the challenges and opportunities that exist when incorporating weather and climate information into the decision-making process over a wide range of business and governmental sectors.