

## **SI125 Scientific Methods and Data Analysis**

This class is an introduction to the practice of science, with a particular emphasis on Environmental Science. This course provides Environmental Technician students with an overview of the scientific methods and process, particularly within the context of observation-driven investigations. Students will examine the steps of crafting scientific questions and hypotheses, research design, experimentation and data collection, data analysis, interpretation and presentation. The course will include an introduction to the technology and methods used data collection and environmental testing. The course will also include an introduction to the tools and methods used in science writing and data collection, the presentation and statistical analysis of scientific data, and search and review of the scientific literature. Finally, students will consider the nature of the theories that arise from, and provide a framework for, the practice of science. Students with one (1) year experience in the workforce relative to data collection and report analysis can be evaluated by the Department Chair for waiving of prerequisites.