The Earth Data Analytics - Foundations (https://earthlab.colorado.edu/earth-data-analytics-professional-graduate-certificate/?utm_source=course-catalog&utm_medium=website&utm_campaign=certificate-2019) professional certificate provides students with skills to launch or advance their careers in the rapidly expanding world of earth data science. The three-course program can be completed online at a student’s own pace or in person in as little as ten months. Students do not need any background in programming or science to enroll.

Data are becoming increasingly available as technology grows and improves. This data can help address some of the world’s most pressing environmental problems. As a result of this, earth and environmental scientists with data science expertise (earth data scientists) are now in high demand in the job market. All skills taught in the program are identified through market research on in-demand skills in industry and government.

Through this nine-credit program students will learn:

- Applied data science skills
- Skills needed to work with different types of data
- Interdisciplinary communication & collaboration techniques and approaches
- Skills needed to address scientific challenges using data

Students will emerge from the program with skills in:

- Scientific programming
- GIS and remote sensing
- Using APIs
- Creating automated workflows using data that anyone can use
- Open reproducible science
- And more

Visit the Earth Lab website (https://www.earthdatascience.org/) to explore lessons and tutorials related to this program.

### Distance Education Option

Students can take individual courses toward a master’s degree or graduate certificate through distance education (online). For more information, connect with the individual graduate program directly.

### Requirements

The professional graduate certificate requires three sequential courses beginning in the fall semester and ending in June, and can be completed entirely online.

#### Required Courses and Credits

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