# Geological Sciences: Machine Learning and Data Analytics (ML/DA) (Stackable Certificate)

The stackable graduate certificate in Geological Sciences: Machine Learning and Data Analytics (ML/DA) provides an organized framework to train students to be world leaders at the forefront of earth and data science. This stackable certificate program is designed primarily for geoscience graduate students and working geoscientists from industry, academia, and government organizations who desire additional expertise in modern tools of data analytics and machine learning. Geoscientists with their domain expertise and required training in ML/DA are better placed to make use of these advanced techniques for geoscientific problem solving.

## Additional Details

- Degree seekers
- Nondegree seekers
- Offered in person on the UT Austin campus

## Related Degree

- Geological Sciences (MA)
- Geological Sciences (MSGeoSci)
- Geological Sciences (PhD)

## Graduate Handbook

Graduate handbook information is updated and maintained by each program. Graduate handbooks are available within each program's office and online. Please contact the program with concerns or questions.

## Total Hours Required: 12

## Requirements

See the Graduate Stackable Certificate section of the catalog for additional requirements and policy related to graduate stackable certificates.

| Code | Title | Hours |
|---|---|---|
| GEO 396D.5 | Machine Learning Research | 3 |
| Hours chosen from: | | 9 |
| GEO 396D.1 | Introduction to Machine Learning and Geosciences | |
| GEO 396D.2 | Applications of Data Analysis, Visualization, and Machine Learning | |
| GEO 396D.3 | Data Analytics and Geostatistics | |
| GEO 396D.4 | Subsurface Machine Learning | |
| GEO 392P | Python for Geoscience Research | |
| GEO 393D | 3D Analysis of Volumetric Data | |
| **Total Hours** | | **12** |