

# EARTH SCIENCE EDUCATION CERTIFICATE - ONLINE

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**Important:** This certificate plan is effective for those starting in the fall 2023 through summer 2024. This certificate plan will remain in effect for students who do not break enrollment or who do not change certificates.

The **earth science endorsement** is an option for Teachers who desire a dual science endorsement to teach earth science courses in grades 6-12

- Teachers who are already licensed in another science discipline
- Teacher candidates who are enrolled in a teacher preparation program that leads to initial licensure in another science discipline. This certificate provides eligibility for a dual science endorsement, certifying them to teach earth science courses in grades 6-12.

\*Endorsement for teacher candidates with a science education major in another discipline

Code	Title	Hours
EDSC 488	Science Lab Practicum in Schools <sup>1</sup>	0
PHSC 121	Introduction to Astronomy	3
PHSC 122	Elements of Astronomy Lab	1
PHSC 210	Elements of Earth Science	3
PHSC 211	Elements of Earth Science Lab	1
PHSC 311	Oceanography	3
PHSC 312	Meteorology	3
PHSC 313	Mineralogy and Petrology	4
<b>Total Hours</b>		<b>18</b>

<sup>1</sup> EDSC 488 Science Lab Practicum in Schools (0 c.h.) is a required practicum course that requires a background check; candidates should not plan to take this course in summer sessions.

## Completion Requirements

- 18 total hours
- A minimum of 25% of hours must be completed through Liberty University
- 2.0 GPA
- No grade of "D" may be applied to the certificate
- Submission of Certificate Completion Application at beginning of final semester