

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*

<u>REQUIRED COURSES (18 hours)</u>		<u>Hrs</u>	<u>Semester</u>	<u>Grade</u>
EDSC 488	Science Lab Practicum in Schools ¹	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-Petrology with Lab	4	_____	_____
TOTAL HOURS		18		

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

Offered in Online Format

Notes

¹EDSC 488 is a required practicum course that requires a background check; candidates should not plan to take this course in summer sessions.