The M.Ed. in Earth Sciences degree is conferred upon students who earn a minimum of 30 credits at the 400, 500, or 800 level while maintaining an average grade of 3.0 or better in all course work, including at least 18 transfer credits from courses that may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.

### Contact

**Campus**
World Campus

**Graduate Program Head**
Enter name

**Director of Graduate Studies (DGS) or Professor-in-Charge (PIC)**
Enter name

**Program Contact**

[noelle.fetzer.capparelle@psu.edu](mailto:noelle.fetzer.capparelle@psu.edu)
Dutton e-Education Institute
2217 EES
University Park PA 16802

(814) 867-5401

**Program Website**
[View](https://earth.e-education.psu.edu)

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### Students

#### Student Aid
World Campus students in graduate degree programs may be eligible for financial aid. Refer to the Tuition and Financial Aid section ([link](http://www.worldcampus.psu.edu/tuition-and-financial-aid)) of the World Campus website for more information.

#### Courses
Graduate courses carry numbers from 500 to 699 and 800 to 899. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.

### Earth Sciences (EARTH) Course List ([link](https://bulletins.psu.edu/university-course-descriptions/graduate/earth))

#### Learning outcomes
1. Summarize current thinking on several specific areas of current research in the Earth sciences, collect and analyze data relevant to these topics, and formulate a plan to teach appropriate content from these topics to secondary school audiences.
2. Become conversant with the historical background and personalities involved in the scientific revolution of plate tectonic theory.
3. Know how to construct a dataset appropriate for comparing with a given empirical observation.
4. Know of how human lives are impacted by natural processes, and conversely how human activities impact Earth's surface and the Critical Zone.
5. Conceptualize principles of ocean science and use them to think critically about ocean-related issues.
6. Explain the uncertainty inherent to predicting climate change.

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### Degree Requirements

**Master of Education (M.Ed.)**
Requirements listed here are in addition to Graduate Council policies listed under GCAC-700 Professional Degree Policies ([link](http://gradschool.psu.edu/graduate-education-policies)).

The M.Ed. in Earth Sciences degree is conferred upon students who earn a minimum of 30 credits at the 400, 500, or 800 level while maintaining an average grade of 3.0 or better in all course work, including at least 18 credits at the 500 or 800 level (with at least 6 credits at the 500 level), and who complete a quality culminating individual project in consultation with a graduate adviser. Students will have the opportunity to participate in face-to-face field experiences or workshops at University Park or other locations during Summer sessions.

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### Admission Requirements
Applicants apply for admission to the program via the Graduate School application for admission ([link](http://gradschool.psu.edu/prospective-students/how-to-apply)). Requirements listed here are in addition to Graduate Council policies listed under GCAC-300 Admissions Policies ([link](http://gradschool.psu.edu/graduate-education-policies)).

The language of instruction at Penn State is English. English proficiency test scores (TOEFL/IELTS) may be required for international applicants. See GCAC-305 Admission Requirements for International Students ([link](http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-300/gcac-305-admission-requirements-international-students)) for more information.

Students may initially enroll in M.Ed. in Earth Sciences classes as non-degree graduate students. Up to 15 credits earned in non-degree status may be counted toward the M.Ed. in Earth Sciences degree, subject to restrictions outlined in GCAC-309 Transfer Credit ([link](http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-300/transfer-credit)).

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### The Graduate Faculty

Eliza Marone

**Graduate Program Head**

**Program Code**
EARTH

**Campus(es)**
World Campus (M.Ed.)

**Degrees Conferred**
Master of Education (M.Ed.)

**The Graduate Faculty**

[View](https://secure.gradsch.psu.edu/gpms/index.cfm?searchType=fac&prog=EARTH)