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 supervised by Penn State faculty. Students will have the opportunity to participate in face-to-face field experiences or workshops at University Park or other locations during Summer sessions.

**Student Aid**
World Campus students in graduate degree programs may be eligible for financial aid. Refer to the Tuition and Financial Aid section (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 (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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