

CERTIFICATE IN EARTH SCIENCE

Earth, Environmental and Geospatial Sciences



The Certificate in Earth Science (30 credits) is structured to provide a strong foundation in Earth science content. Earth Science is currently the science subject area with the greatest shortage of qualified, certified teachers in New York State and the New York City metropolitan region. The program is intended for certified teachers of other science areas who plan to obtain a second certification in Earth Science as well as holders BA or BS degrees who seek a foundation in Earth science before applying to a Masters of Education program.

The certificate content aligns with the conceptual framework for Teachers of Earth Science and with the Core Curriculum for middle and high school. It is a great way to attain the professional development required by the New York State Education Department to maintain teacher certification.

For more information and an application please contact:

Dr. Heather Sloan, Associate Professor

Program Director for Earth Science

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CERTIFICATE IN EARTH SCIENCE (30 Credits)

26 Credits in Required Courses

GEO 167 Earth Evolution (3 credits)
GEO 168 Earth Evolution Lab (1 credits)
GEO 228 Weather and Climate (3 credits)
GEO 229 Weather and Climate Lab (1 credit)
GEO 245 Earth Materials (4 credits)
GEO 301 Earth Science for Educators (4 credits)
GEO 345 Environmental Hydrology (4 credits)
GEO 4500 Topics in Earth Science (2 credits)
AST 117 Astronomy of Stellar Systems (4 credits)

4 Credits to be chosen from the following:

GEO 236 Environmental Geology (4 credits)
GEO 340 Natural Hazards/Disasters (3 credits)
and GEO 341 Natural Hazards/Disasters Lab (1 credit)
GEO 370 Regional Field Geology and Mapping Techniques (4 credits)
GEO 448 Plate Tectonics (4 credits)
GEO 490 Honors Geology (4 credits)

(Other courses may be substituted with department permission.)