

ADVANCED EDUCATOR DEVELOPMENT GRADUATE CERTIFICATE

Banner Code: E1-CERG-ADED

Academic Advising

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Certificate with Concentration

Concentration in Geographic & Environmental Science Education (Non-Licensure)

The certificate with this 15-16 credit non-licensure concentration is designed to provide students who have a background in the sciences with greater content knowledge in the geographic and environmental sciences as well as effective methods in teaching science. For those with an undergraduate degree in teaching, the certificate focuses on the principles and fundamental topics of geography, environment, pedagogy, and instruction of these sciences as well as hands-on experience and current tools and methods in science education research. This certificate and concentration are designed for teachers, scientists, public officials, field naturalists, environmental interpreters, and others having responsibility for educating or informing people about the environment and its geography.

Code	Title	Credits
Select a minimum of three courses from the following: 9-10		
Science Electives:		
CSI 500	Computational Science Tools	
EVPP 521	Marine Conservation	
EVPP 543	Tropical Ecosystems	
EVPP 607	Fundamentals of Ecology	
or BIOL 607	Fundamentals of Ecology	
GGS 553	Geographic Information Systems	
GGS 656	The Hydrosphere	
or EVPP 652	The Hydrosphere	
Science Education Electives:		
EDCI 671	Innovations in Science Teaching	
EDCI 810	Foundations of Science Education Research	
EDUC 547	Scientific Inquiry and the Nature of Science	
Total Credits		9-10

Admissions & Policies

Policies

For policies governing all graduate certificates, see AP.6.8 Requirements for Graduate Certificates.

Requirements

Certificate Requirements

Total credits: 15-16

This certificate may be pursued on a full-or part-time basis.

Concentration in Geographic & Environmental Science Education (Non-Licensure)(GESE)

Coursework

Code	Title	Credits
EDCI 670	Advanced Methods in Science Teaching	3
GGS 550	Geospatial Science Fundamentals	3
Total Credits		6

Electives

Students with an undergraduate degree in pedagogy must take at least two science electives, and students with an undergraduate degree in science must take at least two science education electives.