

# WETLANDS SCIENCE AND MANAGEMENT CERTIFICATE

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The Certificate in Wetlands Science and Management provides EWU students with a focused training in the field of Wetland Science. The curriculum encompasses both the physical science that defines wetlands and the social context of wetlands in terms of their functions and value to society. Successful completion of the Wetlands Certificate requires 23 credits of required class work and 8 to 10 credits of electives for a total of 31 to 33 credits. Coursework is interdisciplinary, blending together classes from biology, geography and planning. This certificate program is open to all majors.

## Required Certificate Courses

BIOL 411	FIELD BOTANY	5
GEOG 312	FUNDAMENTALS OF SOIL SCIENCE	4
GEOG 325	WETLAND SCIENCE I	4
GEOG 490	THE GEOGRAPHER'S CAPSTONE	5
PLAN 430	ENVIRONMENTAL PLANNING	5

**Electives-choose two courses from the following** 8-10

Other courses can be substituted as electives if selected in consultation with and approved by the Wetlands Certificate coordinator.

BIOL 405	LIMNOLOGY
GEOG 315	SURFACE HYDROLOGY
GEOG 328	GEOGRAPHIC INFO SYSTEMS I
GEOG 410	GEOMORPHOLOGY
GEOL 470	HYDROGEOLOGY
PLAN 431	ENVIRONMENTAL IMPACT STATEMENTS
PLAN 440	LAND USE PLANNING

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Total Credits 31-33

## Student Learning Outcomes—students will

- demonstrate mastery of the foundational concepts of wetlands science;
- demonstrate mastery of the foundational concepts of the social context of wetlands;
- be able to identify and analyze wetlands landscapes in a field work setting;
- be able to communicate information about wetlands in written, oral, and mapped forms;
- be able to work in teams.