

WETLANDS SCIENCE AND MANAGEMENT CERTIFICATE, UNDERGRADUATE

This certificate program is open to all majors.

The Certificate in Wetlands Science and Management provides EWU students with 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 8–10 credits of electives for a total of 31–33 credits. Coursework is interdisciplinary, blending together classes from biology, geoscience, and planning.

Required Certificate Courses

BIOL 411	FIELD BOTANY	5
GEOS 203	FUNDAMENTALS OF SURFACE HYDROLOGY	5
GEOS/BIOL 312	FUNDAMENTALS OF SOIL SCIENCE	4
GEOS 325	WETLAND SCIENCE I	4
PLAN 430	ENVIRONMENTAL PLANNING	5

Electives—choose two courses from the following 8-10

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

BIOL 405	LIMNOLOGY
BIOL 445	STREAM ECOLOGY
BIOL 446	RIPARIAN ECOLOGY
GEOS 315	WATER RESOURCES
GEOS 410	GEOMORPHOLOGY
GEOS 413	RIVERS AND FLOODS
GEOS 470	GROUNDWATER HYDROLOGY
PLAN 431	ENVIRONMENTAL IMPACT STATEMENTS
PLAN 440	LAND USE PLANNING

Total Credits 31-33

Students who successfully earn a Wetlands Science and Management Certificate from EWU should be able to do the following:

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