

GRADUATE CERTIFICATE IN WATER RESOURCES

The Graduate Certificate in Water Resources is designed to provide college graduates, current practitioners, and new professionals with targeted knowledge and skills to advance their understanding and career mobility related to water resources planning, management, and policy. The certificate emphasizes an understanding of the hydrologic cycle and the physical processes that drive it, how humans adapt water resources to their needs, techniques for sustainable management, the evolution of laws and policies governing water use, and basic spatial and temporal analysis of water data. These skills can be applied by a wide array of natural resource managers as water planning is essential to sound governmental policy and community management. All courses include case studies, geospatial applications, and exercises pertaining to an array of water issues in Colorado and the United States, as well as international examples.

Career opportunities may be found in forests, parks, wildlife refuges, public lands, special-purpose water districts, academia, water resources engineering and consulting firms, nonprofit organizations, and municipal, tribal, county, state, or federal agencies.

Curriculum: Three required courses total, offered through the Department of Ecosystem Science & Sustainability (<https://warnercnr.colostate.edu/ess/>) and CSU Online (<https://www.online.colostate.edu/certificates/water-resources/>), geared towards professionals across disciplines. Courses can be taken in any order.

Effective Fall 2019

Additional coursework may be required due to prerequisites.

Code	Title	Credits
WR 511	Water Resource Development	3
or CIVE 544	Water Resources Planning and Management	
WR 512	Water Law for Non-Lawyers	3
WR 514	GIS and Data Analysis in Water Resources	3
Program Total Credits:		9

*This certificate may have courses in common with other graduate certificates. A student may earn more than one certificate, but a given course may be counted only in one certificate.