

# GRADUATE CERTIFICATE IN APPLIED GLOBAL STABILITY: WATER RESOURCES

## Requirements Effective Fall 2020

Additional coursework may be required due to prerequisites.

Code	Title	Credits
Required:		3
GES 520	Issues in Global Environmental Sustainability <sup>1</sup>	
<b>Select 9 credits from the following:</b>		<b>9</b>
AREC 542	Applied Advanced Water Resource Economics	
CIVE 512	Irrigation Systems Design	
CIVE 519	Irrigation Water Management	
CIVE 520	Physical Hydrology	
CIVE 532	Wells and Pumps	
CIVE 537	Residuals Management	
CIVE 539	Water and Wastewater Analysis	
CIVE 540/CBE 540	Advanced Biological Wastewater Processing	
CIVE 544	Water Resources Planning and Management	
or WR 511	Water Resource Development	
CIVE 546	Water Resource Systems Analysis	
CIVE 547/ STAT 547	Statistics for Environmental Monitoring	
CIVE 549	Drainage and Wetland Engineering	
CIVE 571	Pipeline Engineering and Hydraulics	
CIVE 573	Urban Stormwater Management	
CIVE 574	Civil Engineering Project Management	
CIVE 575	Sustainable Water and Waste Management	
CIVE 576	Engineering Applications of GIS and GPS	
CIVE 577	GIS in Civil and Environmental Engineering	
CIVE 578	Infrastructure and Utility Management	
CIVE 645	Computer-Aided Water Management and Control	
WR 512	Water Law for Non-Lawyers	
<b>Program Total Credits:</b>		<b>12</b>

\*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.

<sup>1</sup> Or a SoGES endorsed graduate course (<https://green.colostate.edu/courses/>) chosen in consultation with certificate advisor if GES 520 has been completed.