

# HYDROLOGY GRADUATE ACADEMIC CERTIFICATE

This certificate is designed to provide students with greater knowledge of the processes and influences on water in the environment and a credential that could be beneficial when applying for positions after graduation in both the public and private sectors, such as environmental or geologic consulting companies. At least half of the credits completed towards the certificate must be in graduate level coursework. Note that course credit already applied toward the Water and the Environment Undergraduate Certificate may not be used toward this certificate.

All required coursework must be completed with a grade of B or better (O-10-b (<https://catalog.uidaho.edu/general-requirements-academic-procedures/o-miscellaneous/>)).

Code	Title	Hours
HYDR 5090	Quantitative Hydrogeology	3
or GEOL 3090	Ground Water Hydrology	
GEOL 5080	Groundwater Field Methods	3
or HYDR 5120	Environmental Hydrogeology	
FOR 4600	Watershed Science and Management	3
or CE 4280	Open Channel Hydraulics	
or SOIL 4500	Environmental Hydrology	
Select one of the following:		3-4
GEOL 5080	Groundwater Field Methods	
GEOL 5310	Chemical Hydrogeology	
HYDR 5090	Quantitative Hydrogeology	
HYDR 5120	Environmental Hydrogeology	
HYDR 5760	Fundamentals of Modeling Hydrogeologic Systems	
GEOG 5240	Hydrologic Applications of GIS and Remote Sensing	
BE 5530	Northwest Climate and Water Resources Change	
FOR 5600	Physical Hydrology	
SOIL 4500	Environmental Hydrology	
SOIL 5150	Soil and Environmental Physics	
SOIL 5440	Water Quality in the Pacific Northwest	
SOIL 5480	Drinking Water and Human Health	
SOIL 5520	Environmental Water Quality	
FISH 5350	Limnology	
GEOL 5840	Stable Isotopes in the Environment	
<b>Total Hours</b>		<b>12-13</b>

## Courses to total 12 credits for this certificate

- Comprehension of the hydrologic cycle with a focus on the relation of surface water and groundwater that influences water quantity and water quality.
- A broad view of the methods available to understand and manage hydrologic systems.