

COLLEGE OF ARTS AND SCIENCES
THE OHIO STATE UNIVERSITY

TYPE 1B, 2, 3 HYDROGEOLOGY CERTIFICATE (HYDRGEO-CT)

Coordinating Advisor: Professor Matthew Saltzman,
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The 12-15 credit hour Hydrogeology Certificate will provide students with a competitive advantage in beginning a career in the hydrogeological fields or pursuing entrance into a graduate degree program in fields related to hydrogeology. The certificate is designed to enhance both critical thinking and the technical skills for practicing hydrogeology.

One groundwater course (4 credits):

- **EARTHSC 5651:** Hydrogeology (4)

One surface water course (3 credits):

- **EARTHSC 5655:** Land surface hydrology (3)
- **ENR 4285:** Watershed hydrology (3)
- **CIVILEN 5130:** Applied Hydrology (3)

Electives (at least 5 credit hours):

- **EARTHSC 5751:** Quantitative Reservoir Modeling (4)
- **EARTHSC 4450:** Water, Ice and Energy in the Earth System (3)
- **EARTHSC 5203:** Geo-environment and Human Health (3)
- **EARTHSC 5621:** Introduction to Geochemistry (3)
- **EARTHSC 5550:** Geomorphology (4)
- **ENR 5268:** Soils and Climate Change (2)
- **ENR 5261:** Environmental Soil Physics (3)
- **ENR 5273:** Environmental Fate and Impact of Contaminants in Soil and Water (3)
- **CIVILEN 5220:** Open Channel Hydraulics (3)
- **AGSYSMT 4575:** Applied Agricultural Water Management (2)
- **GEOG 5210:** Fundamentals of GIS (3)

- Minimum 2.00 cumulative point-hour ratio required for the certificate.

X193 credits: Not permitted.

Certificate Completion: If the certificate is not complete on the DAR, the student must consult with the College of Arts and Sciences Coordinating Advisor.

Filing the certificate program form: The certificate program form must be filed at least by the time the graduation application is submitted to a college/school counselor.

Changing the certificate: Once the certificate program is filed in the college office, any changes must be approved by the College of Arts and Sciences Coordinating Advisor.

School of Earth Sciences undergraduate advisor:
Dr. Karen Royce, royce.6@osu.edu

School of Earth Sciences graduate advisor:
Professor Michael Durand, durand.8@osu.edu

Hydrogeology Certificate program guidelines

The following guidelines govern the Hydrogeology Certificate. Required for certificate:

Credit hours required: 12-15 credit hours.

Overlap with a major

- The certificate must be in a different subject than the major.
- Max 50% overlap with degree program (i.e. major, minor, other certificate, or GE)

Grades required

- Minimum C- for a course to be listed on the certificate.