**College of Arts and Sciences**

**The Ohio State University**

**Type 1B, 2, 3A Hydrogeology Certificate (HydrGeo-CT)**

The 12-15 credit hour Hydrogeology Certificate will provide students with a competitive advantage in beginning a career in the hydrologeological 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 5665**: 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 Chanel Hydraulics (3)
* **AGSYSMT 4575**: Applied Agricultural Water Management (2)
* **GEOG 5210**: Fundamentals of GIS (3)

**Hydrogeology Certificate program guidelines**

The following guidelines govern the Hydrogeology 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, GE, or graduate program)

X193 credits: Not permitted.

Certificate Completion: If the certificate is not complete on the DAR, the student must consult with the Coordinating Advisor.

Consult with Coordinating Advisor

* For filing deadlines.
* For changes or exceptions to a certificate plan.

Undergraduate certificate program:

Coordinating Advisor: Professor Ashley Griffith, 381 Mendenhall Labs, Columbus, OH 43210; griffith.233@osu.edu

* Minimum C- for a course to be listed on the certificate.
* Minimum 2.00 cumulative point-hour ratio required for the certificate.

Graduate certificate program:

Coordinating Advisor: Professor Steve Lower, 084 Orton Hall, [lower.9@osu.edu](mailto:lower.9@osu.edu); 614-292-1571

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* Course selections must be numbered 4000+ outside the student’s home unit and 5000+ within the home unit.
* Minimum C- for a course to be listed on the certificate.
* Minimum 3.00 cumulative point-hour ratio required for the certificate.