

**COLLEGE OF ARTS AND SCIENCES  
THE OHIO STATE UNIVERSITY**

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

Student: \_\_\_\_\_

Other degree programs (Majors, minors, certificate): \_\_\_\_\_

Course	Credit Hours	Semester Completed	Overlap with other major, minor, other certificate program or GE?
<i>One groundwater class</i>			
EARTHSC 5651	4		
<i>One surface water course</i>			
	3		
<i>Electives (minimum 5 credit hours)</i>			

Total Credit hours: \_\_\_\_\_ (minimum 12)

Credits double counted with major, minor, other certificate program, or GE:  
\_\_\_\_\_ (maximum 50%)

Advisor's signature \_\_\_\_\_

**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)

