

# ENVIRONMENTAL GEOLOGY, MS

for the degree of Master of Science in Environmental Geology (online)

The fully-online Environmental Geology M.S. degree program requires 32 credit hours (thesis not required), 12 of which must be at the 500-level (8 in GEOL). Students must work with their program advisor to individualize their program and the required capstone research project. Students must complete a minimum of 24 hours of coursework, 12 of which must be from within the unit. All students must maintain a minimum grade point average (GPA) of 3.0 (A = 4.0). If the GPA falls below this minimum after 12 graduate hours of graded coursework, it must be raised to 3.0 or above after the completion of 12 additional graduate hours of graded coursework and must be maintained at or above the minimum thereafter.

For additional details and requirements refer to the department's Graduate Degree Programs and the Graduate College Handbook.

## Admission

The admission requirements of the Graduate College apply. In addition, at least one year each of study in college-level calculus, chemistry, and physics is required for admission to graduate work in geology. At least three letters of recommendation, preferably from academic recommenders. For more information, write to Dr. Cory Pettijohn, Online Programs Faculty Coordinator. Application deadlines: Fall semester - June 15; Spring semester - November 15; Summer term - March 15.

## Financial Aid

This online program is self-supporting and DOES NOT accept the following tuition and fee waivers (TFWs): Non-Academic waivers (including Illinois employees and employees of other state institutions), Academic waivers from Illinois, UIC and UIS employees, Related Agency waivers, waivers granted through fellowships/assistantships as governed by the Graduate College at Illinois, or Retiree waivers. Students in these programs are not eligible to hold a waiver generating graduate appointment (Assistantship or Fellowship). Full time employees may be admitted to these programs, but their employee waiver is not eligible for use towards this program. This program accepts statutory waivers (veteran grants, etc.)

for the degree of Master of Science in Environmental Geology (online)

The fully-online Environmental Geology M.S. degree program requires 32 credit hours (thesis not required), 12 of which must be at the 500-level (8 in GEOL). Students must work with their program advisor to individualize their program and the required capstone research project. Students must complete a minimum of 24 hours of coursework, 12 of which must be from within the unit. All students must maintain a minimum grade point average (GPA) of 3.0 (A = 4.0). If the GPA falls below this minimum after 12 graduate hours of graded coursework, it must be raised to 3.0 or above after the completion of 12 additional graduate hours of graded coursework and must be maintained at or above the minimum thereafter. See approved elective course list (<https://geology.illinois.edu/environmental-geology-online-ms-approved-courses/>).

For additional details and requirements refer to the department's Graduate Degree Programs ([https://esec.illinois.edu/academics/graduate-program/?\\_gl=1\\*bkbr8f\\*\\_ga\\*Mjk0NjM4MTYuMTcwMjY2ODU3MQ.\\*\\_ga\\_E1LFESM7DF\\*MTcwN...](https://esec.illinois.edu/academics/graduate-program/?_gl=1*bkbr8f*_ga*Mjk0NjM4MTYuMTcwMjY2ODU3MQ.*_ga_E1LFESM7DF*MTcwN...)) the Graduate College Handbook (<https://grad.illinois.edu/handbooks-policies/>).

Code	Title	Hours
<b>Complete 2 of the following core courses focusing on geodata science and analysis:</b>		<b>7-8</b>
GGIS/GEOL 407	Foundations of CyberGIS & Geospatial Data Science	4
ATMS 421	Earth Systems Modeling (crosslist with GEOL 481)	
ATMS 404	Risk Analysis in Earth Science (crosslist with GEOL 485)	
ESE 486	Environmental Consulting (crosslist with GEOL 486)	
GEOL 507	GIS for Geology	
ATMS 517	Data Science for the Geosciences	
<b>Complete 3 of the following courses focusing on advanced topics:</b>		<b>10-12</b>
GEOL 450	Investigating the Earth's Interior	
GEOL 451	Environmental Geophysics	
GEOL 470	Introduction to Hydrogeology	
ESE 482	Challenges of Sustainability (crosslist with GEOL 483)	
GEOL 565	Water Chemistry & Bioremediation	
GEOL 572	Hydrogeology with Python	
<b>Additional 400-500 level courses as needed to meet or exceed the minimum credit hour requirement of the program. Selected in consultation with the program advisor; chosen from courses in the Core and Advanced Topics lists (if not taken to meet those requirements) or from a list of electives maintained by the department.</b>		<b>4-11</b>
GEOL 598	Capstone Research Project	4 or 8
<b>Total Hours</b>		<b>32</b>

## Other Requirements

Code	Title	Hours
<b>Proposed Requirement</b>		
Other requirements may overlap.		
Successful completion of the program requires a written capstone report.		
At least 12 of the 32 required hours must be in GEOL (8 at the 500-level).		
At least 12 of the 32 required hours must be in 500-level courses.		
Course substitutions are permitted with the consent of the departmental advisor.		
A maximum of 2 elective courses may be taken CR/NC.		
All students must maintain a minimum grade point average (GPA) of 3.0 (A = 4.0). If the GPA falls below this minimum after 12 or more graduate hours of graded coursework, it must be raised to 3.0 or above after the completion of 12 additional graduate hours of graded coursework and must be maintained at or above the minimum thereafter.		

*for the degree of Master of Science in Environmental Geology (online)*

---

## Graduate Degree Programs in Geology

- Geology, MS (<http://catalog.illinois.edu/graduate/las/geology-ms/>)
- Environmental Geology, MS (online) (p. 1)
- Geology, PhD (<http://catalog.illinois.edu/graduate/las/geology-phd/>)

The Department of Geology offers programs leading to the Master of Science in Geology and the Doctor of Philosophy in Geology. Students have a wide variety of choices in their courses and research programs. Departmental research programs include many aspects of geology, geochemistry, and geophysics.

*for the degree of Master of Science in Environmental Geology (online)*

---

## Department of Geology

Head of Department: Craig Lundstrom

Online Programs Faculty Coordinator: Cory Pettijohn

Geology Department website

Geology Online Programs website

## College of Liberal Arts & Sciences

College of Liberal Arts & Sciences website (<https://las.illinois.edu/>)

## Admissions

Graduate College Admissions & Requirements (<https://grad.illinois.edu/admissions/apply/>)

Program Contact: Cory Pettijohn, Online Programs Faculty Coordinator  
(217) 244-9867

Geology Online email: [jcpettij@illinois.edu](mailto:jcpettij@illinois.edu)