

ENVIRONMENTAL CHEMISTRY AND TECHNOLOGY, MS

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum degree requirements (<https://guide.wisc.edu/graduate/#requirementstext>) and policies (<https://guide.wisc.edu/graduate/#policiestext>), in addition to the program requirements listed below.

MAJOR REQUIREMENTS MODE OF INSTRUCTION

Face to Face	Evening/ Weekend	Online	Hybrid	Accelerated
Yes	No	No	No	No

Mode of Instruction Definitions

Accelerated: Accelerated programs are offered at a fast pace that condenses the time to completion. Students typically take enough credits aimed at completing the program in a year or two.

Evening/Weekend: Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

Face-to-Face: Courses typically meet during weekdays on the UW–Madison Campus.

Hybrid: These programs combine face-to-face and online learning formats. Contact the program for more specific information.

Online: These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

CURRICULAR REQUIREMENTS

Requirement Detail	
Minimum Credit Requirement	30 credits
Minimum Residence Credit Requirement	16 credits
Minimum Graduate Coursework Requirement	15 credits must be graduate-level coursework. Refer to the Graduate School: Minimum Graduate Coursework (50%) Requirement policy: https://policy.wisc.edu/library/UW-1244 (https://policy.wisc.edu/library/UW-1244/).

Overall	3.00 GPA required.
Graduate GPA Requirement	Refer to the Graduate School: Grade Point Average (GPA) Requirement policy: https://policy.wisc.edu/library/UW-1203 (https://policy.wisc.edu/library/UW-1203/).
Other Grade Requirements	Students must earn a B or above in all courses counting toward degree requirements.
Assessments and Examinations	The thesis pathway requires a formal thesis.
Language Requirements	No language requirements.

REQUIRED COURSES

Students are required to develop a plan of courses with their advisor. Additional courses beyond the core courses may be included with approval of the student's academic advisor and the approval of the Environmental Chemistry and Technology Academic Planning Committee.

Note that CIV ENGR 500 Water Chemistry or an equivalent advanced Environmental Chemistry course, is a highly recommended prerequisite for many of the core Environmental Chemistry and Technology courses. If this has not been met prior to entering the program, students should consider this when planning the coursework.

Code	Title	Credits
Core Courses		
<i>Environmental Inorganic Chemistry</i>		
CIV ENGR 703 or GEOSCI 875	Environmental Geochemistry Advanced Topics in Geology	1-3
<i>Environmental Organic Chemistry</i>		
CIV ENGR/ M&ENVTOX/ SOIL SCI 631 or CIV ENGR 704	Toxicants in the Environment: Sources, Distribution, Fate, & Effects Environmental Chemical Kinetics	3
<i>Air Chemistry</i>		
CIV ENGR/ ATM OCN 701 or CHEM 629	The Chemistry of Air Pollution Atmospheric Chemical Mechanisms	2-3
<i>Environmental Technology</i>		
CIV ENGR 609 or CIV ENGR 629	Special Topics in Water Chemistry (Advanced Water Analysis topic) Special Topics in Environmental Engineering	3
Seminar		
Students must enroll in one of the following seminars each semester. MS students are required to present a seminar at least once during their master's program.		4
CIV ENGR 909 or CIV ENGR/ ATM OCN/ BOTANY/ ENVIR ST/ GEOSCI/ ZOOLOGY 911	Graduate Seminar - Environmental Chemistry & Technology Limnology and Marine Science Seminar	
Research		
Students must complete at least 4 credits with their faculty advisor. ¹		4
CIV ENGR 790	Master's Research or Thesis	

Electives

Students complete electives in an area of interest chosen in consultation with faculty advisor to satisfy the minimum credit requirement.	13
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Total Credits	30
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¹ If supported with a graduate assistantship (TA, RA, PA), students should enroll in the appropriate number of research credits each semester to achieve full-time status as required by credit-load rules.