

# ENVIRONMENTAL CHEMISTRY AND TECHNOLOGY, M.S.

## REQUIREMENTS

### MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (<http://guide.wisc.edu/graduate/#policiesandrequirements>), 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. Details can be found in the Graduate School's Minimum Graduate Coursework (50%) policy ( <a href="https://policy.wisc.edu/library/UW-1244">https://policy.wisc.edu/library/UW-1244</a> ).
Overall Graduate	3.00 GPA required. This program follows the Graduate School's GPA Requirement policy

GPA Requirement (<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 track 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 EC&T Academic Planning Committee.

All incoming EC&T students should have basic preparation in the fundamental areas of general, organic, physical and analytical chemistry. Students should also have previous coursework in the natural sciences, which can include botany, bacteriology, zoology, earth science, material science, biochemistry or engineering. Note that CIV ENGR 500 Water Chemistry, or an equivalent advanced Environmental Chemistry course, is a prerequisite for many of the core EC&T courses. If these requirements have not been met prior to entering the program, this should be considered when planning the coursework.

Code	Title	Credits
<b>Core Courses</b>		
<i>Environmental Inorganic Chemistry</i>		
CIV ENGR 703	Environmental Geochemistry	1-3
or GEOSCI 875	Advanced Topics in Geology	
<i>Environmental Organic Chemistry</i>		
CIV ENGR/ M&ENVTOX/ SOIL SCI 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3
or CIV ENGR 704	Environmental Chemical Kinetics	
<i>Air Chemistry</i>		
CIV ENGR/ ATM OCN 701	The Chemistry of Air Pollution	2-3
or CHEM 629	Atmospheric Chemical Mechanisms	
<i>Additional Coursework</i>		
CIV ENGR 909	Graduate Seminar - Environmental Chemistry & Technology <sup>1</sup>	1
or CIV ENGR/ ATM OCN/ BOTANY/ ENVIR ST/ GEOSCI/ ZOOLOGY 911	Limnology and Marine Science Seminar	
CIV ENGR 790	Master's Research or Thesis <sup>2</sup>	4

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Students must enroll in CIV ENGR 909 Graduate Seminar - Environmental Chemistry & Technology or CIV ENGR/ATM OCN/BOTANY/ENVIR ST/GEOSCI/ZOOLOGY 911 Limnology and Marine Science Seminar each semester. Ph.D. students are required to present a seminar at least once during their master's program.

**2**

Students must complete minimum of 4 research credits of CIV ENGR 790 Master's Research or Thesis with their faculty advisor. 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.