

NORTHWESTERN - MASTER OF SCIENCE: PROGRAM IN ENVIRONMENTAL ENGINEERING & SCIENCE

2025-2026

The MS in EES requires 12 course units in addition to the Environmental Seminar Series – CIV ENV 516. It is also the program followed by first-year graduate students enrolled in the PhD program. 9 Courses constitute the core and are required for all graduate students, 3 are graduate elective courses – 300 level or higher - that can be taken from other Departments/Programs after approval. The MS thesis is only an option; most MS students graduate in June after following 12 graded courses. CIV ENV 499 is graded, whereas CIV ENV 590 is not. CIV ENV 590 is only used for continuing research purposes. The optional 4th Quarter list includes courses that can be taken in the Fall of 2024 to fulfill degree requirements if needed.

	1 st Quarter/Fall	2 nd Quarter/Winter	3 rd Quarter/Spring	Optional 4 th Quarter/Summer
4 Courses/Quarter and the EES seminar series	Environmental Microbiology* (Marcelino) CIV_ENV 361-1	Environmental Laboratory* (Xiong) CIV_ENV 365	Emerging Organic* Contaminants (Hartmann) CIV_ENV 370	Environmental Law and Policy (Harley) CIV_ENV 303
	Chemical Processes in Aquatic Systems* (Gaillard) CIV_ENV 367	Environmental Particles and Surface Chemistry (Aristilde) CIV_ENV 449	Environmental Biotechnology for Resource Recovery (Wells) CIV_ENV 442	
	Env. Transport Processes (Packman) CIV_ENV 440	Ecohydrology (Packman) CIV_ENV 346	Indoor Air Quality (Hartmann) CIV_ENV 395	
	4 th Course from courses below or unrestricted electives	4 th Course from courses below or unrestricted electives	4 th Course from courses below or unrestricted electives	
	Environmental Engineering Science Seminar Series (CIV_ENV 516-1,2,3)			CIV_ENV 516-1
Technical Electives Choose 1 additional Course per Quarter	Environmental Law and Policy (Harley) CIV_ENV 303	Biogeochemistry* (Blair) CIV_ENV 317	Environmental Justice* (Harley) CIV_ENV 308-0	
		Public & Environ. Health* (Marcelino) CIV_ENV 361-2		
		Climate and Energy Law & Policy* (Harley) CIV_ENV 309-0		
		Redox & Electrochemical Processes in Water (Candal) CIV_ENV 395		
MS Thesis Option (Need an advisor/PI, 9 courses are required, and at least 3 quarters of research)	<i>Finding an advisor</i>	Research CIV_ENV 499	Research CIV_ENV 590	Research CIV_ENV 590 or TGS_512 to continue

For the students completing a BSEN – BS in Environmental Engineering – at Northwestern, some courses* count also towards the BS degree. As a result, BSEN/MS students need to follow TGS requirements for an MS degree, *i.e.*, take 9 additional courses that are not used towards their BS degree.