

# ENVE 2023-24 Catalog (v2 starts F'24)

## Environmental Engineering

### Math Level 5: M 171Q Start

128 total credits required to graduate (42 of those 128 must be 300 level and above)

WRIT 101W exempt? Substitute WRIT 201 or WRIT 221 or HONR 202

PROFESSIONAL ELECTIVE COURSES – SEE BACK OF FLOWCHART

Pre-Professional Block Courses (Complete w/ C- or better before taking Prof. Block Courses)

Choose one course from the following CORE 2.0 topics:  
 A = IA/RA (Inquiry Arts/Research Arts)  
 H = IH (Inquiry Humanities)  
 S = IS (Inquiry Social Sciences)  
 D = D (Diversity)

Mechanics Courses

Math Courses

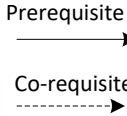
Science Content

**2023-24**  
**For planning purposes:** The MSU catalog displays official degree and prerequisite requirements. Some courses from prior catalogs have been discontinued or replaced. It is recommended that students on 2012-2022 catalogs follow this flowchart to complete their degree requirements.)

Communication Content

"Cultural" Core

**Must Complete:**  
 EENV 341 or 342, and ECIV 333, and EGEN 310R Prior to taking ECIV 499R (Design)



Name \_\_\_\_\_

MSU GID \_\_\_\_\_

2023-2024 Environmental Engineering Professional Electives (Total of 12 credits required)

Revised 2/24

	Rubric	No	Cr	Hrs	Title	Offered	Prerequisite
<b>Water Resources Elective</b>							
At least one of these	}	ECIV	431	3	Open Channel Hydraulics	F	ECIV 333
		ECIV	435	3	Closed Conduit Hydraulics	S	ECIV 333
		EENV	432	3	Advanced Engineering Hydrology	S	ECIV 333
<b>Environmental Engineering Elective</b>							
At least one of these	}	EENV	436	3	Storm Water Management Engr.	F	ECIV 333 & EENV 340 or EENV 341
		EENV	441	3	Natural Treatment Systems	S	EENV 340 or EENV 342
		EENV	445	3	Hazardous Waste Treatment	F	EENV 340 or EENV 341
<b>Engineering Tools Elective</b>							
At least one of these	}	DDSN	245	3	Civil Drafting	F,S	DDSN 131
		EENV	498	3	Career Internship	F,S,Su	
		GPHY	284	3	Intro to GIS Sci and Cartography	F,S,Su	
		SRVY	230	3	Intro to Surveying for Engineers	F,S	M 171
<b>Additional 3 credits required from the lists above or below to reach the required 12 credits. See your advisor for guidance.</b>							
		BIOE	370	3	General Ecology	F,S	BIOB 170
		BIOE	428	3	Freshwater Ecology	F	BIOE 370
		BIOM	430	4	Applied and Environmental Microbiology	S odd	BIOM 360
		BIOM	452	3	Soil and Environmental Microbiology	S odd	CHMY 143, ENSC 245
		ECIV	320	3	Geotechnical Engineering (if not taken for ENSC 245; cannot double count)	F,S	EGEN 205
		ECHM	405	3	Sustainable Energy	F	EMAT 251 and ECHM 307 or EMEC 320
		EGEN	325	3	Engineering Economic Analysis	S	M 171
		EIND	425	3	Technology Entrepreneurship	F	EGEN 325 or EGEN 330
		EIND	434	3	Project Management for Engineers	F	Jr Standing
		EIND	477	3	Quality Management Systems	S	EIND 354 or EGEN 350
		ENSC	353	3	Environmental Biogeochemistry	F	CHMY 143, ENSC 245
		ENSC	407	3	Environmental Risk Assessment	F even	BIOB 170
		ENSC	448	3	Stream Restoration Ecology	F	BIOB 170, BIOE 370
		ENSC	460	3	Soil Remediation	S	ENSC 245
		ENSC	461	3	Restoration Ecology	F	BIOB 170, BIOB 370
		GPHY	384	3	Advanced GIS and Spatial Analysis	F,S	GPHY 284
		EENV	490	1-4	Undergraduate Research	F,S,Su	
		ECIV	492	1-4	Independent Study	F,S,Su	
Maximum 3 cr total	}				A petitioned course.		
					A course from a completed minor.		
					A course from a prior/concurrent BS/BA degree.		
					A course from a completed Honors program.		