



2024-2025 Environmental Engineering Professional Electives (Total of 18 credits required)

Revised 5/24

	Rubric	No	Cr Hrs	Title	Offered	Prerequisite
Water Resources & Environmental Engineering Elective						
At least four of these classes	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
	EENV	434	3	Groundwater Supply and Remediation	S	ECIV 337
	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	443	3	Air Pollution Control	F	ECIV 337 and CHMY 141
	EENV	445	3	Hazardous Waste Treatment	F	EENV 340 or EENV 341
Engineering Tools Elective						
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
Additional 3 credits required from the lists above or below to reach the required 18 credits. See your advisor for guidance.						
	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
	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	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	Consent of Instructor
	ECIV	492	1-4	Independent Study	F,S,Su	Consent of Instructor
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.		