

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

Revised 5/23

	Rubric	No	Cr	Hrs	Title	Offered	Prerequisite
Water Resources Elective							
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
Environmental Engineering Elective							
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 odd	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 12 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
		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.		