



2022 Environmental Engineering Professional Electives (Total of 15 credits required)

Revised 3/24

	Rubric	No	Cr Hrs	Title	Offered	Prerequisite	
At least 6 credits of these	Water Resources Elective						
		ECIV	431	3	Open Channel Hydraulics	F	ECIV 333
		ECIV	435	3	Closed Conduit Hydraulics	S	ECIV 333
		EENV	432	3	Advanced Hydrology	S	ECIV 333
		EENV	434	3	Groundwater Remediation (cannot double count)	S	ECIV 337
	EENV	436	3	Storm Water Management Engr. (cannot double count)	F	ECIV 333 and EENV 341	
At least 6 credits of these	Environmental Engineering Elective						
		EENV	434	3	Groundwater Remediation (cannot double count)	S	ECIV 337
		EENV	436	3	Storm Water Management Engr. (cannot double count)	F	ECIV 333 and EENV 341
		EENV	441	3	Natural Treatment Systems	S	EENV 342
		EENV	443	3	Air Pollution Control	F	ECIV 337 and CHMY 141
	EENV	445	3	Hazardous Waste Treatment	F	EENV 342	
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	BIOM 360	
	BIOM	452	3	Soil and Environmental Microbiology	S	CHMY 143, ENSC 245	
	DDSN	245	3	Civil Drafting	F,S	DDSN 131	
	ECIV	320	3	Geotechnical Engineering (if not taken for ENSC 245)(cannot double count)	F,S	EGEN 205	
	ECIV	401	1	Civil Engineering Practice & Ethics	F,S		
	ECIV	406	3	Sustainability Issues in Construction	S	ECIV 308	
	ECHM	405	3	Sustainable Energy	F	EMAT 251 and ECHM 307 or EMEC 320	
	EENV	440	3	Water Chemistry	F	EENV 340 or EENV 341	
	EGEN	420	3	Ice & Snow Mechanics	S		
	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		
	ECIV	498	3 max	Career Internship	Su		
Maximum						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.	

