

**2021-2022 Environmental Engineering Professional Electives (Total of 18 cr-hrs required)**

	Rubric	No	Cr Hrs	Title	Offered	Prerequisite
		Water Resources Elective				
At least two of these	ECIV	431	3	Open Channel Hydraulics	F	ECIV 333
	ECIV	435	3	Closed Conduit Hydraulics	S	ECIV 333
	EENV	432	3	Advanced Hydrology	F	ECIV 333
	EGEN	435	3	Fluid Dynamics	S	EGEN 335 or ECIV 337
	EENV	436	3	Storm Water Management Engr.	S	EENV 340 or EENV 341
		Environmental Engineering Elective				
At least two of these	EENV	434	3	Groundwater Remediation	S	EGEN 335 or ECIV 337
	EENV	441	3	Natural Treatment Systems	S	EENV 342
	EENV	443	3	Air Pollution Control	F even	EGEN 335 or ECIV 337 and CHMY 141
	EENV	445	3	Hazardous Waste Treatment	F odd	EENV 340 or EENV 342
	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	F,S	EGEN 205
	ECIV	401	1	Civil Engineering Practice & Ethics	F,S	
	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
	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.