

**NORTH DAKOTA STATE UNIVERSITY
ENVIRONMENTAL ENGINEERING TECHNICAL ELECTIVES OFFERED**

The BSENV E has nine technical elective credits. A minimum of 6 of the 9 credits must come from courses in Category One of the Technical Elective Course list.

Category One (*Students must take at least 6 of the 9 credits from this category*)

Course No.	Title	Credits	Prerequisites
CE 417	Slope Stability and Retaining Walls	3	CE 316; only offered in Spring
CE 421	Open Channel Flow	3	CE 309; only offered in Spring
CE 462	Designing with Geosynthetics	2	CE 316; only offered in Spring
CE 471	Environmental Nanotechnology	3	ENVE 360 or CE 370
CE 474	Groundwater Sustainability Design	3	CE 309
CE 476	Watershed Modeling	3	CE 408
CE 478	Water Quality Management	3	ENVE 360 or CE 370
CE 491	Seminar (Small Comm Water Supply and Sanitation)	3	
CE 494	Individual Study (Environmental Engineering Design)	3	
ENVE 468	Plastics Pollution to Solution	3	ENVE 360 or CE 370

Category Two (*Students may take at most 3 credits from this category*)

Course No.	Title	Credits	Prerequisites
BIOL 470	Freshwater Ecology and Limnology	3	BIOL 150 and 151
BIOL 480	Ecotoxicology	3	BIOL 151 and BIOL 151L
BIOL 481	Wetland Science	3	BIOL 151 and BIOL 151L
CE 486	Nanotechnology and Nanomaterials	3	Only Seniors
GEOG 455	Introduction to Geographic Information Systems	4	
GEOG 456	Advanced Geographic Information Systems	3	GEOG 455
GEOG 465	Remote Sensing of the Environment	3	
NRM 452	Managing Natural and Rangeland Resources using GIS	3	
NRM 454	Wetland Resources Management*	3	SOIL 210; only in the Fall semester of even years

*Denotes courses that require prior approval from NRM Program before registering.

Updated: 03/20/2023