

Department of Civil, Construction and Environmental Engineering
North Dakota State University

Technical Electives for BS in Construction Engineering Program

Course No.	Title	Credits	Prerequisites
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Highly Recommended Electives

CM&E 431	Sustainable Design and Construction	3	CM&E Program/Junior Standing
CE 404	Reinforced Concrete	3	CE 343
CE 419	Pavement Design	3	CE 303
CE 430	Timber and Form Design	3	ME 223
CE 444	Structural Steel Design	3	CE 343

Recommend Electives

CM&E 465 or CE 425	Bridge Engineering and Management or Bridge Evaluation and Rehabilitation	3 3	CM&E Program/Senior Standing CE 404 and CE 343
CM&E 475	Design of Site Erosion Control	3	CE 309
CE 408	Water Resources and Supply	3	CE 309
CE 411	Design of Pre-stressed Concrete	2	CE 404
CE 417	Slope Stability and Retaining Walls	3	CE 316
CE 421	Open Channel Flow	3	CE 309
CE 441	Finite Element Analysis	3	CE 343
CE 461	Foundation Engineering	3	CE 316
CE 462	Designing with Geosynthetics	2	CE 316

Updated: 02/16/2022