Construction Engineering 2014

Major: Construction Engineering

Degree Type: B.S.Cons.E.

Required Degree Credits to Graduate: 131

General Education Requirements

First Year Experience (F):

Skills For Academic Success (Students transferring in 24 or more credits do not need to take UNIV 189.)	1
College Composition I	3
College Composition II	3
Business and Professional Writing	3
Writing in the Technical Professions	
Fundamentals of Public Speaking	3
Calculus I	4
General Chemistry I and General Chemistry I Laboratory	4
General Chemistry II	3
Physical Geology	3
The Earth Through Time	
Humanities & Fine Arts (A): Select from current general education list	
Elements of Economics	3
Select from current general education list	
general education list	2
current general education list	
Elements of Economics	3
	41
	College Composition I College Composition II Business and Professional Writing Writing in the Technical Professions Fundamentals of Public Speaking Calculus I General Chemistry I and General Chemistry I Laboratory General Chemistry II Physical Geology The Earth Through Time from current general education list Elements of Economics I list general education list current general education list

major requirements

General Education Requirement	General Education Requirements		
Construction Engineering Core	Requirements		
CM&E 111	Introduction to Construction Management and Engineering	1	
CM&E 200	Construction Documents and Codes	3	
CM&E 204	Construction Surveying	3	
CM&E 212	Construction Graphic Communications	3	
CM&E 240	Financial Cost Concepts for Construction Managers	3	
CM&E 301	Construction Technology and Equipment	3	
CM&E 305	Pre-Construction Management	3	
CM&E 315	Specifications and Contracts	3	
CM&E 380	Construction Estimating: Quantities and Costs	3	
CM&E 403	Scheduling and Project Control	3	
CM&E 405	Construction Support Operations	3	
CM&E 489	Construction Design Capstone	3	
CE Courses:			
CE 303	Civil Engineering Materials	3	
& 303L	and Civil Engineering Materials Laboratory		
CE 309	Fluid Mechanics	3	
CE 316	Soil Mechanics	3	
CE 343	Structural Engineering and Analysis	4	
CE 400 Level Courses: Select 12	credits from the following:	12	
CM&E 465	Bridge Engineering and Management		
CM&E 475	Design of Site Erosion Control		
CE 404	Reinforced Concrete		
CE 408	Water Resources and Supply		
CE 411	Design of Pre-stressed Concrete		
CE 417	Slope Stability and Retaining Walls		
CE 419	Pavement Design		
CE 421	Open Channel Flow		
CE 430	Timber and Form Design		
CE 441	Finite Element Analysis		
CE 444	Structural Steel Design		
CE 461	Foundation Engineering		
CE 462	Designing with Geosynthetics		
CE 478	Water Quality Management		
ME Courses Required:			
ME 221	Engineering Mechanics I	3	
ME 222	Engineering Mechanics II	3	
ME 223	Mechanics of Materials	3	
Math Courses Required:			
MATH 128	Introduction to Linear Algebra	1	
MATH 166	Calculus II	4	
MATH 259	Multivariate Calculus	3	
MATH 266	Introduction to Differential Equations	3	
Additional Courses:			
BUSN 431	Business Law I-Contracts, Property and Torts	3	
ENGR 402	Engineering Ethics and Social Responsibility	1	
PHYS 252	University Physics II	4	
STAT 330	Introductory Statistics	3	
Total Credits		131	

Degree Requirements and Notes

- A student must complete at least 60 semester credits of professional level course work in his/her program while in residence and enrolled in the
 college. Students transferring into the college from programs with professional accreditation are exempt from this residency requirement but are
 subject to the residency requirement of NDSU.
- A 2.50 cumulative GPA is required for transfer students to be admitted to the B.S. in construction engineering program.