

CIVIL ENGINEERING: CONSTRUCTION ENGINEERING AND MANAGEMENT

REQUIREMENTS

CIVIL ENGINEERING DESIGN REQUIREMENT FOR CEM OPTION

Code	Title	Credits
Choose one:		3
CIV ENGR 445	Steel Structures I	
CIV ENGR 447	Concrete Structures I	
Must take:		
CIV ENGR 578	Senior Capstone Design ¹	4
Select one of the following:		3
CIV ENGR 392	Building Information Modeling (BIM) ²	
CIV ENGR 414	Hydrologic Design	
CIV ENGR 426	Design of Wastewater Treatment Plants	
CIV ENGR 427	Solid and Hazardous Wastes Engineering	
CIV ENGR 428	Water Treatment Plant Design	
CIV ENGR 522	Hazardous Waste Management	
CIV ENGR/ G L E 530	Seepage and Slopes	
CIV ENGR/ G L E 532	Foundations	
CIV ENGR 573	Geometric Design of Transport Facilities	
CIV ENGR 574	Traffic Control	
CIV ENGR 576	Advanced Pavement Design	
Total Credits		10

1

Must complete either CIV ENGR 445 Steel Structures I or CIV ENGR 447 Concrete Structures I before taking.

2

This course is only available as a design course for CEM option students.

CONSTRUCTION ENGINEERING AND MANAGEMENT DEPTH REQUIREMENT

Code	Title	Credits
CIV ENGR 491	Legal Aspects of Engineering	3
CIV ENGR 492	Integrated Project Estimating and Scheduling	3
CIV ENGR 1	Cooperative Education Program ¹	1
Total Credits		8

1

Students must take two credits of CIV ENGR 1 Cooperative Education Program total. A summer internship equals 1 credit; a co-op equals 1 credit.

ENGINEERING ELECTIVES REQUIREMENT FOR CEM OPTION

Code	Title	Credits
Select one of the following:		3
CIV ENGR 496	Electrical Systems for Construction	
CIV ENGR 497	Mechanical Systems for Construction	
Select two of the following:		6
ACCT I S 300	Accounting Principles	
FINANCE/ ECON 300	Introduction to Finance	
INTEREGR 303	Applied Leadership Competencies in Engineering	
M H R 300	Managing Organizations	
REAL EST/ A A E/ECON/ URB R PL 306	The Real Estate Process	
REAL EST 611	Residential Property Development	
Total Credits		9