

CONSTRUCTION ENGINEERING AND MANAGEMENT PROGRAM (126 hours)

Effective for fall 2020.

The required courses are normally taught in fall or spring semesters as indicated below.

Each student is responsible for tracking future changes in this schedule.

FIRST YEAR

FALL **16 credits** **Sem. Grade**

General Chemistry*	CHEM 103/133 (4)		
Computer Science	CISC 106 (3)		
Intro. to Engineering	EGGG 101 (2)		
Analy. Geom. & Calc. A*	MATH 241 (4)		
Breadth Req. (CEM list)	(3)		

SOPHOMORE YEAR

FALL **16 credits** **Sem. Grade**

Statics (H)	CIEG 211 (3)		
Introduction to Surveying	CIEG 222 (3)		
CAD and BIM in Construct.	CIEG 291 (3)		
Prob. & Stats. for Eng	CIEG 315 (3)		
Science/Math Elective (a)	(4)		

JUNIOR YEAR

FALL **17 credits** **Sem. Grade**

Const. Est./Cost Control (H)	CIEG 391 (3)		
Structural Analysis/Design	CIEG 396 (4)		
Soils and Foundations	CIEG 397 (4)		
Constr. Means/Meth. (H)	CIEG 393 (3)		
Breadth Req. (CEM list)	(3)		

SENIOR YEAR

FALL **15 credits** **Sem. Grade**

Optim. in Design/Const.	CIEG 459 (3)		
Fluids, Hydraulics, Wtr. Res.	CIEG 398 (3)		
Co-op in Civil/Enviro Eng.	CIEG 481 (3)		
Technical Elective (c)	(3)		
Breadth Req. (CEM list)	(3)		

FIRST YEAR

SPRING **17 credits** **Sem. Grade**

Introduction to CEM	CIEG 191 (3)		
Seminar in Composition*	ENGL 110 (3)		
Analy. Geom. & Calc. B*	MATH 242 (4)		
Fundamentals of Physics I*	PHYS 207 (4)		
Breadth Req. (CEM list)	(3)		

SOPHOMORE YEAR

SPRING **16 credits** **Sem. Grade**

Solid Mechanics	CIEG 212 (3)		
Civil Eng. Materials Lab	CIEG 213 (1)		
Construction Materials*	CIEG 214 (3)		
Enviro., Health, Safety (H)	CIEG 292 (3)		
Oral Communication	COMM 212(3)		
Math Course (b)	(3)		

JUNIOR YEAR

SPRING **16 credits** **Sem. Grade**

Survey of Accounting*	ACCT 200 (4)		
Construction Plan/Sched. (H)	CIEG 392 (3)		
Construction Law/Reg. (H)	CIEG 394 (3)		
Eng. Project Mgmt. (H)	CIEG 486 (3)		
Breadth Req. (CEM list)	(3)		

SENIOR YEAR

SPRING **13 credits** **Sem. Grade**

Senior Design	CIEG 491 (4)		
Technical Elective (c)	(3)		
Free Elective	(3)		
Breadth Req. (CEM list)	(3)		

*Grade of C- or higher for degree requirement or as pre-requisite for other courses.

(H) Department of Civil and Environmental engineering offers an honors section of this course.

All breadth requirements (18 credit hours) and ENGL110 require a C- or better. See Undergraduate Catalog for more information.

Creative Arts & Humanities	Sem.	Grade	History & Cultural Change	Sem.	Grade	Social & Behavioral Sciences	Sem.	Grade
Add'l Breadth Req.			Add'l Breadth Req.			ECON 100		
ENGL 410			BUAD 100			FINC 200		

_____ two upper-level (300 and higher) courses

_____ Multicultural Requirement

- a) one course from: BISC207, GEOL105/115, GEOL107, GEOG152, MATH243, PHYS208, PLSC204/205
- b) MATH 349 (Elementary Linear Algebra) or MATH 351 (Engineering Math I). 351 requires MATH 243.
- c) two courses from: CIEG 343, CIEG 402, CIEG 492, CIEG 493, CIEG 494, CIEG 495