

Construction Engineering and Management (CEM) Track Within the BS in Civil Engineering

The Department of Civil & Environmental Engineering, in partnership with the Construction Management Program, is offering students interested in construction engineering and management (CEM), the ability to pursue a CEM track within the BS in civil engineering. Pursuing this track requires CEM courses to be taken as electives. Enrollment for CEM courses will require a CEM prerequisite override. It is not mandatory that all recommended courses be taken. There also will be no special annotation on student transcripts specifying the CEM track.

The following courses are recommended for the CEM track.

Course Code and Name	Credits	Semester	Eligibility
CE271 Introduction to Civil Engineering	4	Fall & Spring	MTH132 concurrently or LBS118 concurrently
CMP210 Commercial Construction Methods	3	Fall	Sophomore
CMP385 Construction Documents and Contracts	3	Spring	Junior or Senior
STT351 Probability & Statistics for Engineering	3	Fall & Spring	MTH234 or concurrently or MTH254H or concurrently or LBS220 or concurrently
CMP411 Construction Project Scheduling	3	Fall and Spring	CMP385 and Junior or Senior
CMP415 Construction Estimating and Analysis	3	Fall	CMP385 and Junior or Senior
CMP423 Construction Project Management	3	Fall & Spring	CMP411 or concurrently and CMP415 or concurrently and Senior
CE471 Construction Engineering-Equipment, Methods and Planning	3	Spring	CE305 and CE312 and CE 337 OR CMP 305 and CMP322

If desired, students may also take any of the following courses:

Course Code and Name	Credits	Semester	Eligibility
CMP230 Utility Systems	4	Spring	Sophomore
CMP325 Real Estate Principles and Construction Finance	4	Fall	Junior or Senior
CMP353 Land Development	3	Spring	CMP305 or CE471 and Junior or Senior
CMP401 Construction Safety Management	3	Spring	CMP385 and Junior or Senior

A sample program for timely completion of the CEM track is shown on the back.

Following is a sample program for completion of the CEM Track (128 total credits are required for successful completion of a BS in Civil Engineering).

Sample Program

FRESHMAN YEAR				SOPHOMORE YEAR			
FALL	CRS	SPRING	CRS	FALL	CRS	SPRING	CRS
Bioscience(AT)	3/4	ATL 110-150	4	CMP210	3	IAH 200-210	4
CEM141 OR 151	4	CSE 131	3	ME221	3	ME222	4
CEM161	1	MTH133	4	MTH234	4	MTH235	3
CE 271	4	PHY183	4	PHY184	4	CE280	3
MTH132	3	Elective		Elective	VA	Elective	VA
Total	15/16	Total	15/VA	Total	14/VA	Total	14/VA

JUNIOR YEAR				SENIOR YEAR			
FALL	CRS	SPRING	CRS	FALL	CRS	SPRING	CRS
CE305	4	CE321	4	CE4xx Elective	3	IAH2XX	4
CE312	4	CE337	4	CMP411	3	CE4XX Elective	3
CE341	3	CMP385	3	CMP415	3	CE 495	3
ISS2XX	4	ISS3XX	4	STT351	3	CMP423	3
BE351, ECE345, ME201 OR MSE250	3	ME 361	3	CE4XX 3	Elective	CE471	3
Total	18	Total	18	Total	15	Total	16