Construction Engineering COURSE MATRIX 2024-2025 Catalog		Undecided Option 128 Credits SAMPLE				Prerequisites in Red Co-requisites in Blue	
1 Fall	**1 Spring**	**2 Fall**	**2 Spring**	**3 Fall**	**3 Spring**	**4 Fall**	**4 Spring**
CONE 1210 (1) Learning Community: Academic Life	CONE 1220 (1) Learning Community: Professional Life	CONE 2220 (3) Contractor Org & Mgmt of Construction Completion of Basic Program	CONE 2410 (3) Construction Materials & Methods Completion of Basic Program		**See specific options (Building, Infrastructure, Mechanical, or Electrical) for additional required coursework.**		
CE 1600 (3) Engineering Problems w/ Computational Lab MATH 1650	CE 1700 (2) Graphics for Civil Engineering MATH 1430	CE 1110 (3) Geomatics CE 1600, CE 1700, MATH 1650	CONE 2510 (1) M/E Materials & Methods CONE 2410				
MATH 1650 (4) Calculus I C- or higher in MATH 1430 or placement on ALEKS	MATH 1660 (4) Calculus II C- or higher in MATH 1650	MATH or STAT (3) Elective MATH 2650 (4) C- in MATH 1660 MATH 2070 (3) MATH 1660 STAT 5870 (4) STAT course	MATH 2670 (4) Elem Differential Equations w/ Laplace C- or higher in MATH 1660				
CHEM 1670 (4) Gen Chem for Engineers 1 yr HS CHEM and MATH 1400 or HS equivalent	PHYS 2310/2310L (5) Intro to Classical Physics I MATH 1650 MATH 1660	PHYS 2320/2320L (5) Intro to Classical Physics II PHYS 2310/2310L, MATH 1660	CE 2740 (3) Engineering Statics PHYS 2310/2310L MATH 1660	EM 3240 (3) Mechanics of Materials CE 2740			
ENGL 1500 (3) Critial Thinking & Communication	ENGL 2500 (3) Written, Oral, Visual, and Electronic Comm ENGL 150 or exemption LIB 1600	ECON 1010 or (3) ECON 1020	IE 3050 (3) Engineering Economic Analysis MATH 1660	Engineering (3) Statistics STAT 2310 (4) Math 2650 STAT 3050 (3) Math 1650			
ENGR 1010 (R) Engineering Orientation	LIB 1600 (1) Intro to College Level Research			SSH Elective (3)			
(15)	**(16)**	**(17)**	**(14)**	**(18)**			

Core Courses

Core classes require a MINIMUM cumulative 2.0 GPA

CONE 2410	(3)
CE 2740	(3)
EM 3240	(3)
CE 3320	(3)
ABE 3780	(3)
CONE 4220	(3)
CONE 4410	(3)
CONE 4870	(3)
CONE 4880	(3)

SSH Electives

Recommended by CONE Program

ANTHR 2100	(3)	PHIL 2300	(3)
ANTHR 2200	(3)	PHIL 2350	(3)
ANTHR 2300	(3)	PHIL 3340	(3)
HIST 2800	(3)	PHIL 3430	(3)
HIST 2840	(3)	PSYCH 1010	(3)
INTST 2350	(3)	PSYCH 2300	(3)
LDST 3220	(3)	PSYCH 2800	(3)
MGMT 3700	(3)	SOC 1340	(3)
MGMT 3710	(3)		

For more options, refer to the LAS SSH lists

Engineering Topics Electives

The CONE Program has recommended Engineering Topics Electives for each option (Building, Infrastructure, Mechanical, or Electrical).

Other approved courses:

Any CE 3000-, 4000-, and 5000-level course (except CE 5940A and CE 5990)

Notes

1. ENGL courses require a minimum grade of C
2. The university requires a grade of C or better for any transfer credit course that is applied to the degree program
3. Courses may appear on multiple elective lists but may only be applied for ONE elective.

Basic Program Courses