



Department of Civil and Architectural Engineering  
**Civil Engineering Program Curriculum**  
 Effective Fall 2018

Fall				Spring
<b>Freshman Year</b>				
ENGL	1010	FRESHMAN ENGLISH I	3	ENGL 1020 FRESHMAN ENGLISH II 3
MATH	1910	CALCULUS I	4	MATH 1920 CALCULUS II 4
CHEM	1110	GEN CHEMISTRY I	3	PHYS 2110 PHYSICS I 3
CHEM	1111	GEN CHEMISTRY I LAB	1	PHYS 2111 PHYSICS I LAB 1
ENGR	1020	FRESHMAN ENGR SEMINAR	1	ENGR 2230 ENGINEERING COMP PROG 3
ENGR	1151	COMPUTER ENGR GRAPHICS	1	
UNIV	1000	ORIENTATION	1	
			14	14
<b>Sophomore Year</b>				
MATH	2110	CALCULUS III	4	CVEN 3120 MECHANICS OF MATERIALS 3
COMM	2200	SPEECH	3	CVEN 3121 MECHANICS OF MATERIALS LAB 1
ENGR	2110	STATICS	3	ENGR 2120 DYNAMICS 3
PHYS	2120	PHYSICS II	3	MATH 3120 APPLIED MATH 3
PHYS	2121	<i>PHYSICS II Lab</i>	1	ENGL 2110 HUM, ELECT. (ENGL LITERAT) 3
BIOL	1110	<i>General Biology</i>	2	HIST 2010 AMERICAN HISTORY I 3
BIOL	1111	<i>General Biology Lab</i>	1	
			17	16
<b>SEE NOTE 1</b>				
<b>Junior Year</b>				
CVEN	3000	INTRO TO ENVIRON ENGR	3	CVEN 3130 SOIL MECHANICS 3
CVEN	3100	FLUID MECHANICS	3	CVEN 3131 SOIL MECHANICS LAB 1
CVEN	3101	FLUID LAB	1	CVEN 3200 TRANSPORTATION 3
CVEN	3400	MATERIALS TESTING LAB	1	CVEN 3250 HYDRAULIC ENGINEERING 3
ENGR	3400	NUMERICAL ANALYSIS	3	CVEN 4361 ENVIRON ENGR LAB 1
CVEN	3410	STRUCTURAL ANALYSIS	3	CVEN 3440 STEEL DESIGN 3
ENGR	4400	PROBABILITY & STATISTICS (3)	3	HIST 2020 AMERICAN HISTORY II 3
			17	17
<b>Senior Year</b>				
CVEN	3420	REINF. CONCRETE DESIGN	3	ENGR 4201 EIT REVIEW 0
CVEN	4250	WATER/WASTE WATER ENGR	3	CVEN 3350 HYDROLOGY 3
CVEN	4320	HIGHWAY ENGINEERING	3	ENGR 4510 CAPSTONE DESIGN PROJECT I 1
CVEN		DESIGN TECH. ELECTIVE (4)	3	CVEN 4470 CONSTR. MANAGEMENT 3
ENGR	4500	CAPSTONE DESIGN PROJECT I	1	HUMANITIES ELECTIVE (2) 3
ENGR	4900	PROF DEV SEMINAR	1	SOCIAL SCIENCE ELECTIVE (2) 3
		SOCIAL SCIENCE ELECTIVE (2)	3	HUMANITIES ELECTIVE (2) 3
			17	16

**NOTE1: ALL STUDENTS ARE REQUIRED TO PASS THE ENGINEERING ENTRANCE EXAMINATION PRIOR TO ENROLLING IN ENGINEERING UPPER (300-400) LEVEL COURSES**

**NOTE 2: THIS ELECTIVE MUST BE CHOSEN FROM AN APPROVED LIST OF GENERAL EDUCATION CORE COURSE**

**NOTE 3: COMMUNITY COLLEGE TRANSFER PATH ALLOWS LINEAR ALGEBRA INSTEAD OF THIS COURSE**

**NOTE 4: THIS ELECTIVE MUST BE CHOSEN FROM AN APPROVED LIST OF DESIGN COURSES:**

CVEN 4440: FOUNDATION ENGR      CVEN 4520: CIVIL ENGR DESIGN + OTHERS