



Department of Civil and Architectural Engineering  
**Civil Engineering Program Curriculum**  
 Effective Fall 2019

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	ENGR	2130	MECHANICS OF MATERIALS	3
COMM	2200	SPEECH	3	ENGR	2130	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	PHYSICS II Lab	1	ENGL	2110	HUM, ELECT. (ENGL LITERAT)	3
BIOL	1110	General Biology	2	HIST	2010	AMERICAN HISTORY I	3
BIOL	1111	General Biology Lab	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	HIST	2020	AMERICAN HISTORY II	3
ENGR	4400	PROBABILITY & STATISTICS <sup>3</sup>	3			HUMANITIES ELECTIVE <sup>2</sup>	3
			17				17
<b>Senior Year</b>							
CVEN	3420	REINF. CONCRETE DESIGN	3	ENGR	4201	FE REVIEW	0
CVEN	3350	HYDROLOGY	3	CVEN	4250	WATER/WASTE WATER ENGR	3
CVEN	4320	HIGHWAY ENGINEERING	3	ENGR	4510	CAPSTONE DESIGN PROJECT I	1
CVEN	4440	FOUNDATION ENGINEERING	3	CVEN	4470	CONSTR. MANAGEMENT	3
ENGR	4500	CAPSTONE DESIGN PROJECT I	1	CVEN		DESIGN TECH. ELECTIVE <sup>4</sup>	3
ENGR	4900	PROF DEV SEMINAR	1			SOCIAL SCIENCE ELECTIVE <sup>2</sup>	3
		SOCIAL SCIENCE ELECTIVE <sup>2</sup>	3			HUMANITIES ELECTIVE <sup>2</sup>	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 COURSES**

**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 3440: STEEL DESIGN      CVEN 4520: CIVIL ENGR DESIGN + OTHERS