

## 4-Year Academic Plan: Engineering - Civil Concentration

The following is a sample outline demonstrating 4-year completion of this bachelor's degree. Each student's reality will vary slightly, as this plan does not include transfer work, Advanced Placement (AP), or concurrent enrollment credits. Math and English placement will be based on the student's ACT/SAT scores. PLEASE NOTE: The following plan assumes students are prepared to take the Math course listed. If prerequisites are required, additional semesters may be required to complete degree.

This is a **GUIDE ONLY**. Please meet with your academic advisor and consult DegreeWorks for specifics.

1st Year Fall (16 credits)					1st Year Spring (16 credits)				
ENGL	1010	Intro. to Academic Writing	3	F/S/Su	ENGL	2010	Intermediate Writing	3	F/S/Su
MATH	1210	Calculus I	4	F/S/Su	LM	1010	Information Literacy	1	F/S/Su
CHEM	1210/15	Principles of Chemistry I/Lab	4/1	F/Su	MATH	1220	Calculus II	4	F/S
CSIS	1000	Intro to Computers & Internet	3	F/S/Su	PHYS	2210/15	Physics for Science & Engrs/Lab	4/1	F/S/Su
ENGR	1000	Engineering Success Skills	1	F/S	ENGR	1010	Engineering in 21st Century	3	F/S
2nd Year Fall (16 credits)					2nd Year Spring (17 credits)				
XXXX	XXXX	American Institutions GE	3	F/S/Su	XXXX	XXXX	Fine Arts GE	3	F/S/Su
EDGE	1010	Becoming an Engaged Learner	1	F/S/Su	MATH	1040	Statistics	4	F/S/Su
MATH	2250	Linear Algebra & Differential Eq	4	F	ENGR	2140/45	Strength of Materials/Lab	3/1	S
PHYS	2220/25	Physics for Science & Engr II/Lab	4/1	F/S	CCET	1040	Intro to Res Arch using AutoCAD	3	F/S
ENGR	2010	Statics	3	F	ENGL	3150 4240	Grant & Technical Writing or Technical Writing	3	S F/S
3rd Year Fall (15 credits)					3rd Year Spring (16 credits)				
GEOG	3550/55	Princ of Geographic Info Sys/Lab	3/2		XXXX	XXXX	Social & Behav. Science GE	3	F/S/Su
ENGR	2030	Dynamics	3	F	ENGR	3030	Project Management	3	S
ENGR	2250/55	Electric Circuits/Lab	3/1	F	ENGR	4100	Reinforced Concrete Design	3	S
ENGR	4050	Structural Analysis	3	F	ENGR	XXXX	Engineering Elective (see list)	3	S
ENGL	3150 4240	Grant & Technical Writing or Technical Writing	3	S F/S	CCET	3670	Civil Design	3	S
					EDGE	30XX	*Project Proposal & Planning	1	F/S/Su
4th Year Fall (12 credits)					4th Year Spring (14 credits)				
XXXX	XXXX	Life Science GE	3	F/S/Su	ENGR	3050/55	Fluid Mechanics/Lab	3/1	S
ENGR	3000	Thermodynamics	3	F	ENGR	4085	Engr Capstone Design Lab I	3	S
ENGR	4025	Engr Capstone Design Lab I	3	F	ENGR	XXXX	*Engineering Elective (see list)	3	S
ENGR	XXXX	*Engineering Elective (see list)	3	S	CM	XXXX	*CM Elective (see list)	3	F/s
					EDGE	40XX	*Project Reporting & Reflection	1	F/S/Su

### Color Key:

General Education Courses (green)

EDGE Program Courses (orange)

Major-required courses that also fulfill GE requirement (purple)

Major Courses (black)

Electives/minor/etc. (red)

### Must pass or attempt the FE exam twice

Engineering Electives: ENGR 3010/15, 4000/05, 4010, 4030/35, 4060, 4300, 4710, 4900

CM Electives: CM 2040, 3240, 3880, 4550