

4-Year Academic Plan: Engineering - Manufacturing 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)				
EDGE	1010	Becoming an Engaged Learner	1	F/S/Su	MATH	1040	Statistics	4	F/S/Su
XXXX	XXXX	Life Science GE	3	F/S/Su	ENGR	1030	CAD & Analysis Using Solid-Works	3	F/S
MATH	2250	Linear Algebra & Differential Eq	4	F	ENGR	2030	Dynamics	3	S
PHYS	2220/25	Physics for Science & Engr II/Lab	4/1	F/S	ENGR	2140/45	Strength of Materials/Lab	3/1	S
ENGR	2010	Statics	3	F	ENGL	3150 4240	Grant & Technical Writing or Technical Writing	3	S F/S
3rd Year Fall (16 credits)					3rd Year Spring (15 credits)				
XXXX	XXXX	Fine Arts GE	3	F/S/Su	CCET	3680	CNC Design	3	S
XXXX	XXXX	American Institutions GE	3	F/S/Su	ENGR	2250/55	Electric Circuits/Lab	3/1	S
MATH	2210	Calculus III	4	F/S	ENGR	3030	Project Management	3	S
CCET	2690	Fundamentals of Manufacturing	3	F	ENGR	3050/55	Fluid Mechanics/Lab	3/1	S
ENGR	3000	Thermodynamics	3	F	EDGE	30XX	*Project Proposal & Planning	1	F/S/Su
4th Year Fall (16 credits)					4th Year Spring (10 credits)				
XXXX	XXXX	Social & Behav. Science GE	3	F/S/Su	ENGR	4060	Manufacturing	3	S
CCET	4690	CNC Software	3	F	ENGR	4085	Engr Capstone Design Lab I	3	S
ENGR	3010/05	Material Science/Lab	3/1	F	ENGR	XXXX	Engineering Elective (see list)	3	S
ENGR	4025	Engr Capstone Design Lab I	3	F	EDGE	40XX	*Project Reporting & Reflection	1	F/S/Su
ENGR	4030/35	Electronics/Lab	3/1	F					

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 2170, 4000/05, 4010, 4050, 4300,4600