



## 4-Year Academic Plan: Engineering with Manufacturing Engineering Emphasis

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.

*While every effort has been made to align this sample with departmental offerings and recommendations, **this is a GUIDE ONLY.** Please meet with your academic advisor and consult DegreeWorks for specifics.*

<p><b>1<sup>st</sup> Year Fall (15 credits)</b></p> <p>MATH 1210 Calculus I (4)            ENGR 1010 Engineering in the 21<sup>st</sup> Century (3)            ENGR 1000 Engineering Success (1)            ENGL 1010 Intro to Academic Writing (3)            LM 1010 Information Literacy (1)            CSIS 1000 Intro Computer Apps &amp; Internet (3)</p>	<p><b>1<sup>st</sup> Year Spring (16 credits)</b></p> <p>MATH 1220 Calculus II (4)            ENGR 1030 Computer Assigned Design (3)            PHYS 2210/2215 Phys. For Sci. &amp; Eng. I/Lab (5)            ENGL 2010 Intermediate Writing (3)            EDGE 1010 Becoming an Engaged Learner (1)</p>
<p><b>2<sup>nd</sup> Year Fall (15 credits)</b></p> <p>MATH 1040 Statistics (4)            ENGR 2010 Statics (3)            PHYS 2220/2225 Phys. for Sci. &amp; Eng. II/Lab (5)            American Institutions Requirement (3)</p>	<p><b>2<sup>nd</sup> Year Spring (16 credits)</b></p> <p>MATH 2210 Calculus III (4)            ENGR 2030 Dynamics (3)            ENGR 2140/2145 Strength of Materials/Lab (4)            CHEM 1210/15 Principles of Chemistry I/Lab (5)</p>
<p><b>3<sup>rd</sup> Year Fall (16 credits)</b></p> <p>MATH 2250 Linear Algebra &amp; Diff. Equations (4)            ENGR 3000 Thermodynamics (3)            CCET 2690 Fundamentals of Manufacturing (3)            Fine Arts Knowledge Area (3)            Life Science Knowledge Area (3)</p>	<p><b>3<sup>rd</sup> Year Spring (17 credits)</b></p> <p>ENGR 2250/55 Electrical Circuits/Lab (4)            ENGR 3030 Technical Project Management (3)            ENGR 3050/3055 Fluid Mechanics/Lab (4)            CCET 3680 CNC Design (3)            ENGL 3120 Writing in the Sciences (3)</p>
<p><b>4<sup>th</sup> Year Fall (15 credits)</b></p> <p>ENGR 3010/3015 Material Science and Eng./Lab (4)            ENGR 4025 Engineering Capstone Design I (3)            ENGR 4030/35 Electronics/Lab (4)            CCET 4690 CNC Software (3)            EDGE 30XX Project Proposal &amp; Planning* (1)</p>	<p><b>4<sup>th</sup> Year Spring (13-14 credits)</b></p> <p>ENGR 4060 Manufacturing (3)            ENGR 4085 Engineering Capstone Design II (3)            ENGR Elective* (3-4)            Social/Behavioral Science Knowledge Area (3)            EDGE 40XX Project Reporting &amp; Reflection* (1)</p>

Color Key:

General Education Courses (green)

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

Major Courses (black)

Electives/minor/etc. (red)

EDGE Program Course (orange)

Other Notes:

➤ (\*) See catalog for available options