

## SAMPLE ACADEMIC PLAN OF STUDY

The following academic plan is a *sample* pathway to completing degree requirements for this major.

<b>Semester 1 - Fall</b>	
ENG 1010 Composing Arguments	3
Oral Communication	3
Art and Humanities (Multicultural or Global Diversity)	3
MTH 1110 College Algebra for Calculus	4
AMS 1010 Survey of Advanced Manufacturing & Workplace Prep	3
<b>TOTAL CREDIT HOURS</b>	<b>16</b>

<b>Semester 2 - Spring</b>	
ENG 1020 Research and Argument Writing	3
Historical (Multicultural or Global Diversity)	3
MET 1010 Manufacturing Processes (Recommended) <i>OR</i> IND 2830 Manufacturing Materials and Processes	3
MTH 1120 College Trigonometry	3
CHE 1100 Principles of Chemistry	4
<b>TOTAL CREDIT HOURS</b>	<b>16</b>

<b>Semester 3 - Fall</b>	
Art and Humanities (Multicultural or Global Diversity)	3
Introduction to Engineering (CET 1040, EET 1040, MET 1040)	3
PHY 2010 College Physics I	4
PHY 2030 College Physics Lab	1
EET 1001 Electronics: An Introduction	3
MET 1200 Technical Drawing (Recommended) <i>OR</i> IND 1450 Technical Drawing and CAD <i>OR</i> CET 1215 Engineering Graphics	3
<b>TOTAL CREDIT HOURS</b>	<b>17</b>

<b>Semester 4 - Spring</b>	
ECO 2020 Principles of Microeconomics (Recommended)	3
JMP 2610 Introduction to Technical Writing	3
MET 1310 Principles of Quality Assurance	3
MET 1210 3D Modeling	3
MET 2200 Materials of Engineering	3
<b>TOTAL CREDIT HOURS</b>	<b>15</b>

<b>Semester 5 - Fall</b>	
CET 3120 Engineering Economy	3
AMS 3010 Additive Manufacturing Stratasys Cert Prep	3
MET 3000 Manufacturing Analysis	4
MET 3410 Geometric Dimensioning and Tolerancing	3
Advisor Approved Elective	3
<b>TOTAL CREDIT HOURS</b>	<b>16</b>

<b>Semester 6 - Spring</b>	
CSS 1751 Computing and Security for Manufacturing	3
MET 2010 CNC Machining and Inspection	3
MET 3260 Direct Digital Manufacturing	3
Advisor Approved Elective	3
Advisor Approved Elective	3
<b>TOTAL CREDIT HOURS</b>	<b>15</b>

<b>Semester 7 - Fall</b>	
MET 3215 Composites Manufacturing	3
MET 3630 Lean Manufacturing Systems Engineering	3
MET 4080 Computer Aided Manufacturing	3
Advisor Approved Elective	3
Advisor Approved Elective	3
<b>TOTAL CREDIT HOURS</b>	<b>15</b>

<b>Semester 8 - Spring</b>	
AMS 4950 Professional Internship	3
MET 4370 Advanced Composite Structures	3
Advisor Approved Elective	3
Advisor Approved Elective	3
<b>TOTAL CREDIT HOURS</b>	<b>15</b>

Advisor Approved Electives: (21) credit hours with a minimum of (9) upper-division courses.