

SAMPLE ACADEMIC PLAN OF STUDY

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

Semester 1 - Fall	
ENG 1010 Composing Arguments	3
Oral Communication	3
Art and Humanities (Multicultural or Global Diversity)	3
MET 1010 Manufacturing Processes (Recommended) OR IND 2830 Manufacturing Materials and Processes	3
MTH 1110 College Algebra for Calculus	4
TOTAL CREDIT HOURS	16

Semester 2 - Spring	
ENG 1020 Research and Argument Writing	3
Historical (Multicultural or Global Diversity)	3
Art and Humanities (Multicultural or Global Diversity)	3
MTH 1120 College Trigonometry	3
CHE 1100 Principles of Chemistry	4
CHE 1150 Principles of Chemistry Laboratory	1
TOTAL CREDIT HOURS	17

Semester 3 - Fall	
AMS 1010 Survey of Advanced Manufacturing & Workplace Prep	3
PHY 2010 College Physics I	4
PHY 2030 College Physics Lab	1
EET 1001 Electronics: An Introduction	3
MTH 1410 Calculus I	4
MET 1200 Technical Drawing (Recommended) OR IND 1450 Technical Drawing and CAD OR CET 1215 Engineering Graphics	3
TOTAL CREDIT HOURS	18

Semester 4 - Spring	
ECO 2020 Principles of Microeconomics (Recommended)	3
JMP 2610 Introduction to Technical Writing	3
MET 1310 Principles of Quality Assurance	3
MTH 2410 Calculus II	4
PHY 2020 College Physics II	4
TOTAL CREDIT HOURS	17

Semester 5 - Fall	
CET 3120 Engineering Economy	3
MET 3000 Manufacturing Analysis	4
EET 2000 Electric Circuits and Machines	3
MET 2010 CNC Machining and Inspection	3
Natural & Physical Sciences	3
TOTAL CREDIT HOURS	16

Semester 6 - Spring	
CSS 1751 Computing and Security for Manufacturing	3
EET 2145 Electronics	3
EET 2165 Electronics Laboratory	1
EET 3370 Digital Circuits for Advanced Manufacturing	3
EET 3730 Process Control Systems	2
TOTAL CREDIT HOURS	12

Semester 7 - Fall	
AMS 3010 Additive Manufacturing Stratasys Cert Prep	3
EET 3380 Technical Programming for Advanced Manufacturing	3
EET 3690 Fiber Optics	3
EET 3740 Programmable Logic Controllers	2
Advisor Approved Elective	3
TOTAL CREDIT HOURS	14

Semester 8 - Spring	
AMS 4950 Professional Internship	3
EET 4330 Data Communications	3
EET 4730 Robotics	3
Advisor Approved Elective	3
Advisor Approved Elective	3
TOTAL CREDIT HOURS	15

Advisor Approved Electives: (8) credit hours with a minimum of (8) upper division courses.

Metropolitan State University of Denver reserves the right to withdraw courses; revise the academic calendar; or change curriculum, graduation procedures, requirements and policies that apply to students at any time.