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
MTH 1110 College Algebra for Calculus	4
Art and Humanities (Multicultural or Global Diversity)	3
AMS 1010 Survey of Advanced Manufacturing & Workplace Prep	3
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
MET 1010 Manufacturing Processes (Recommended) *OR* IND 2830 Manufacturing Materials and Processes	3
MTH 1120 College Trigonometry	3
TOTAL CREDIT HOURS	**15**

Semester 3 - Fall	
Introduction to Engineering (CET 1040, EET 1040, MET 1040)	3
EET 1001 Electronics: An Introduction	3
MET 1200 Technical Drawing (Recommended) *OR* IND 1450 Technical Drawing and CAD *OR* CET 1215 Engineering Graphics	3
CIS 2010 Foundations of Information Systems	3
ECO 2020 Principles of Microeconomics (Recommended)	3
TOTAL CREDIT HOURS	**15**

Semester 4 - Spring	
JMP 2610 Introduction to Technical Writing	3
MET 1310 Principles of Quality Assurance	3
MET 2010 CNC Machining and Inspection	3
PHY 2010 College Physics I	4
PHY 2030 College Physics Laboratory	1
CIS 2110 Structured Problem Solving in Information Systems	3
TOTAL CREDIT HOURS	**17**

Semester 5 - Fall	
CET 3120 Engineering Economy	3
AMS 3010 Additive Manufacturing Stratasys Cert Prep	3
MET 3000 Manufacturing Analysis	4
CIS 3050 Fundamentals of Systems Analysis and Design	3
CIS 3060 Database Management Systems	3
TOTAL CREDIT HOURS	**16**

Semester 6 - Spring	
CSS 1751 Computing and Security for Manufacturing	3
CIS 3230 Telecommunication Systems and Networking	3
Advisor Approved Elective	3
Advisor Approved Elective	3
Advisor Approved Elective	3
TOTAL CREDIT HOURS	**15**

Semester 7 - Fall	
CIS 3490 Managing Business Info with Enterprise Systems	3
CIS 3500 Information Systems Security	3
CIS 4260 Database Administration	3
MGT 3000 Org Management *OR* Advisor Approved Elective	3
Advisor Approved Elective	3
TOTAL CREDIT HOURS	**15**

Semester 8 - Spring	
AMS 4950 Professional Internship	3
CIS 4410 Management Information Systems	3
Advisor Approved Elective	3
Advisor Approved Elective	3
Advisor Approved Elective	3
TOTAL CREDIT HOURS	**15**

Advisor Approved Electives: (22) credit hours with a minimum of (6) 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.