



**METROPOLITAN STATE UNIVERSITY<sup>SM</sup>**  
**OF DENVER**  
**College of Professional Studies**

Advanced Manufacturing Sciences, B.S. - Electrical Engineering Technology Concentration  
 Minor (Not Required)  
 2020 - 2021 Catalog Year

First Year		
Fall: 16 Credits	ENG 1010 Composing Arguments	3
	Oral Communication	3
	MTH 1110 College Algebra	4
	PHI 1030 Introduction to Ethics (Recommended)	3
	MET 1010 (Recommended) or IND 2830	3
Spring: 17 Credits	ENG 1020 Research and Argument Writing	3
	Historical (MC or GD)	3
	AMS 1010 Survey of Adv Manuf & Workplace Prep	3
	MTH 1120 College Trigonometry	3
	CHE 1100 Principles of Chemistry	4
	CHE 1150 Principles of Chemistry Laboratory	1



Third Year		
Fall: 16 Credits	CET 3120 Engineering Economy	3
	AMS 3010 Additive Manufacturing Stratasys Cert Prep	3
	MET 3000 Manufacturing Analysis	4
	EET 2000 Electric Circuits and Machines	3
	EET 2310 Digital Circuits I*	3
Spring: 15 Credits	Art and Humanities (MC or GD)	3
	CSS 1751 Computing and Security for Manufacturing	3
	MET 2010 CNC Machining and Inspection	3
	EET 2145 Electronics	3
	EET 2165 Electronics Laboratory	1
	EET 3730 Process Control Systems	2



Second Year		
Fall: 15 Credits	PHY 2010 College Physics I	4
	PHY 2030 College Physics Laboratory	1
	EET 1001 Electronics: An Introduction	3
	MET 1200 (Recommended) or IND 1450 or CET 1215	3
	MTH 1410 Calculus I	4
Spring: 17 Credits	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

Fourth Year		
Fall: 14 Credits	EET 3370 Digital Cir for Adv Manuf or Any 3000-4000 EET	3
	EET 3380 Tech Prog for Adv Manuf or Any 3000-4000 EET	3
	EET 3690 Fiber Optics or Any 3000-4000 EET	3
	EET 3740 Programmable Logic Controllers	2
	Advisor Approved Elective (Must be 3000-4000)*	3
Spring: 14 Credits	AMS 4950 Professional Internship	3
	EET 4330 Data Communications	3
	EET 4730 Robotics or Any 3000-4000 EET	3
	Advisor Approved Elective (Must be 3000-4000)*	3
	Advisor Approved Elective (Must be 3000-4000)*	2

\*Students need to complete 8 credits of AMS advisor approved electives. A minimum of 8 credits of electives must be Upper Division (3000 or 4000 level). All students are required to complete 40 credits of Upper Division to graduate. *NOTE: If not a transfer student, may need to complete an additional 1-credit of GS Natural & Physical Sciences*

KEY:

 General Studies/AMS Required Prerequisites  
 AMS Core Courses

 Concentration Required Courses  
 AMS Advisor Approved Electives