

Metropolitan State University of Denver
Mechanical Engineering Technology, B.S.: Manufacturing Concentration
Minor (not required):
Fall 2013 Catalog

First Year	Suggested Course plan	Prerequisites	Alternative Course Plan
Fall: 16 credit hours	MET 1000 (3) Introduction to Mechanical Engineering Technology (F, S)		
	MET 1010 (3) Manufacturing Processes (F, S)		
	MET 1200 (3) Technical Drawing I (F, S)		
	MTH 1400 (4) Pre-Calculus (F, S, Su)	Appropriate placement test scores or prerequisite courses	
	ENG 1010 (3) Freshman Composition: The Essay (F, S, Su)	Appropriate placement test score	
Spring: 17 credit hours	MET 1210 (3) 3D Modeling (F, S)	MET 1200 with a grade C or better or permission of instructor	
	MET 1310 (3) Principles of Quality Assurance (F, S)	Intermediate Algebra or equivalent with a grade C or better	
	SPE 1010 (3) Public Speaking (F, S, Su)		
	CHE 1800 (4) General Chemistry I (F, S, Su)	MTH 1110 minimum performance scores on reading and writing placement tests	
	MTH 1410 (4) Calculus I (F, S, Su)	Appropriate placement test scores or prerequisite courses	

Second Year	Suggested Course plan	Prerequisite	Alternative Course Plan
Fall: 15 credit hours	MET 2200 (3) Materials of Engineering (F, S)	MTH 1110 or 1400 with grades C or better	
	ENG 1020 (3) Freshman Composition: Analysis, Research, & Documentation (F, S, Su)	ENG 1010	
	MTH 2410 (4) Calculus II (F, S, Su)	MTH 2410 with a grade of C or better or permission of instructor	
	PHY 2311 (4) General Physics I AND PHY 2321 (1) General Physics I Laboratory (F, S, Su)	MTH 1410, ENG 1010, Oral Communication	
			TOTAL SEMESTER CREDIT HOURS:
Spring: 17 credit hours	CET 2150 (3) Mechanics I-Statics (F, S)	MTH 1410 with grade C or better or permission of instructor	
	COM 2610 (3) Introduction to Technical Writing (F, S, Su)	ENG 1010	
	ECO 2010 (3) Principles of Macroeconomics (F, S, Su)	ENG 1010 or ENG 1020 and any 1000-level MTH course	
	PHY 2331 (4) General Physics II AND PHY 2341 (1) General Physics II Laboratory (F, S, Su)	MTH 2410, PHY 2311 or equivalent and completion of either ENG 1010 or oral communication	
	PHI 1030 (3) Introduction to Ethics (F, S, Su)		
			TOTAL SEMESTER CREDIT HOURS:

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Third Year	Suggested Course plan	Prerequisite	Alternative Course Plan
Fall: 16 credit hours	CET 3135 (4) Mechanics of Materials with Laboratory (F, S)	CET 2150 and COM 2610 with grades C or higher	
	MET 3110 (3) Thermodynamics (F)	MTH 1410 and PHY 2311 with grades C or better, or permission of instructor	
	MET 3160 (3) Mechanics II-Dynamics (F)	CET 2150 and MTH 2410 with grades C or better or permission of instructor	
	EET 2000 (3) Electric Circuits and Machines (F)	MTH 1120 or MTH 1400, PHY 2020 or 2331, with grades C or better	
	Historical (3) HIS 1920, 3090, or 3590 are recommended (multicultural) (F, S, Su)		
Spring: 17 credit hours	MET 3100 (3) N/C Computer Programming (S)	MET 1010, 1210, and MTH 1120 with grades C or better	
	MET 3180 (3) Fluid Mechanics I (S) (Students can take MET 390M until curriculum changes)	MET 3160 with grade C or better or permission of instructor	
	MET 3210 (4) Introduction to Computer Aided Engineering (S)	MTH 1120 or 1400, either MET 1000 or CET 1100, all with grades C or better	
	MET 3410 (3) Geometric Dimensioning & Tolerancing (F, S)	MET 1210 and 1310 with grades C or better	
	EET 3010 (4) Industrial Electronics (S)	EET 1150 or 2000 with grades C or better	

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Fourth Year	Suggested Course plan	Prerequisite	Alternative Course Plan
Fall: 16 credit hours	MET 3000 (4) Manufacturing Analysis (F)	MET 1010, 1310, and MTH 1100 or 1400 with grades C or better	
	MET 3250 (3) Tool Design & Production Tooling (F)	MET 2200 & MTH 1120 with grades C or better	
	MET 3330 (3) Robotics for Manufacturing (F)	MET 3100 and EET 2000 with grades C or better	
	MET 4000 (3) Project Engineering (F)	Senior standing	
	Arts and Humanities (3) ARTH 1600 is recommended (global diversity) (F, S, Su)	ENG 1010 or permission of department	
			TOTAL SEMESTER CREDIT HOURS:
Spring: 15 credit hours	MET 3300 (3) Statistical Process Control (S)	MET 1310 and 3000 with grades C or better	
	MET 4010 (3) Advanced Manufacturing Technology (S)	MET 3000, 3300, and EET 2000 with grades C or better; completion of general studies requirements and senior standing	
	MET 4080 (3) Computer Aided Manufacturing (S)	MET 3000, 3100, and 3210 with grades C or better	
	MET upper-division elective (3)		
	Social and Behavioral Science II (3) (F, S, Su)		
			TOTAL SEMESTER CREDIT HOURS:

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	Suggested Course plan	Prerequisite	Alternative Course Plan
Semester:			

Semester:			

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