Metropolitan State University of Denver
Mechanical Engineering Technology, B.S.: Mechanical 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	
			TOTAL SEMESTER CREDIT HOURS:
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	
			TOTAL SEMESTER CREDIT HOURS:

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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, S)**	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)**		
			TOTAL SEMESTER CREDIT HOURS:
Spring: 17 credit hours	MET upper-division elective (3)		
	MET 3180 (3) Fluid Mechanics I **(S) (**Students can take MET 390M Fluid Mechanics 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	
			TOTAL SEMESTER CREDIT HOURS:

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Fourth Year	Suggested Course plan	Prerequisite	Alternative Course Plan
Fall: 15 credit hours	MET 3070 (3) Machine Design **(F)**	MET 2200 and CET 3130 or 3135 with grades C or better	
	MET 3125 (3) Heat Transfer with Laboratory **(F)**	PHY 2311 with a grade C or better	
	MET 3190 (3) Fluid Mechanics II **(F)** (Students can take MET 3310 Thermodynamics II until curriculum changes)	MET 3110 and 3180 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 3320 (3) Instrumentation Laboratory **(S)**	MET 3180 with grade C or better	
	MET 4070 (3) Computer Aided Design **(S)**	MET 3070 and 3210 with grades C or better, completion of general studies requirements and senior standing	
	MET 4280 (3) Advanced Energy Technology **(S)**	MET 3125, PHY 2311 & 2321 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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Semester:			
			TOTAL SEMESTER CREDIT HOURS:
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