

MECHANICAL ENGINEERING COURSE EQUIVALENTS 2016 EDITION

University of Alberta		University of Calgary	
16-MEC-A1 MEC E 340 &	Applied Thermodynamics and Heat Transfer Applied Thermodynamics	ENME 471 &	Heat Transfer
MEC E 370	Heat Transfer	ENME 485	Mechanical Engineering Thermodynamics
16-MEC-A2	Kinematics and Dynamics of Machines		
MEC E 362 & MEC E 451	Mechanics of Machines Vibrations and Sound	ENME 473	Fundamentals of Kinematics and Dynamics Of Machines
16-MEC-A3	System Analysis and Control Process Control for Mechanical Engineers		
CH E 448 OR		ENME 585	Control Systems
ECE 362 OR	Fundamentals of Control Systems Engineering		
MEC E 420	Feedback Control Design of Dynamic Systems		
16-MEC-A4	Design and Manufacture of Machine Elements	;	
MEC E 260 &	Mechanical Design I	ENME 493	Machine Component Design
MEC E 360	Mechanical Design II		
16-MEC-A5 ECE 210	Electrical and Electronics Engineering Introduction to Digital Logic Design		No Course Equivalent Offerrec
& ECE 332	Electric Machines		
16-MEC-A6 MEC E 331 &	Fluid Machinery Fluid Mechanics I	ENME 597	Turbomachinery

MEC E 439 Principles of Turbomachines University of Alberta		11	University of Calgary	
	cc.city of Alborta			
16-MEC-A7 MEC E 380 &	Advanced Strength of Materials Advanced Strength of Materials I	ENME 479	Mechanics Of Materials I	
MEC E 480	Advanced Strength of Materials II			
16-MEC-B1 MEC E 360 &	Advanced Machine Design Mechanical Design II		No Course Equivalent Offerrec	
ENG M 514	Reliability for Design			
16-MEC-B2	Environmental Control in Buildings		Mechanical Systems In	
MEC E 466 OR	Building Systems Design	ENME 583	Buildings	
MEC E 463 &	Thermo-Fluids System Design			
MEC E 553 OR	Acoustics and Noise Control			
ENG M 508	Energy Auditing and Management			
16-MEC-B3 MEC E 443 &	Energy Conversion and Power Generation Energy Conversion		No Course Equivalent Offerrec	
MEC E 439	Principles of Turbomachines			
16-MEC-B4	Integrated Manufacturing Systems Manufacturing Systems and		Integrated Manufacturing	
ENG M 408 &	Engineering	ENMF 514	Systems	
ENG M 501	Production and Operations Management			
16-MEC-B5	Product Design and Development		Manufacturing &	
No Course Ed	quivalent	ENMF 417	Productuction Process	
16-MEC-B6	Advanced Fluid Mechanics□ Fluid Mechanics II			
MEC E 430	Train moonamoo n	ENME 595	Gas Dynamics	
16-MEC-B7 MEC E 537	Aeri and Space Flight Aerodynamics		No Course Equivalent Offerrec	
16-MEC-B8 MAT E 351 &	Engineering Materials Mechanical Properties	ENME 421	Materials I	
MAT E 471	Ceramics			

MAT E 491

Functional Properties

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16-MEC-B9 No Course Eq	Advanced Engineering Structures uivalent Offerred		No Course Equivalent Offerrec
16-MEC-B10 MEC E 563	Finite Element Analysis Finite Element Method for Mechanical Engineering	ENME 547	Finite Element Method
16-MEC-B11 MEC E 553	Acoustic and Noise Control Acoustics and Noise Control		No Course Equivalent Offerrec
16-MEC-B12 MEC E 551	Robotics Mechanics and Control of Robot Manipulators	ENME 505	Robotics
16-MEC-B13 MEC E 585	Biomechanics Biomechanics of Connective Tissues	BMEN 523	Biomechanics of Movement

Updated June 2019