

METALLURGICAL ENGINEERING COURSE EQUIVALENTS 2010 Edition

	University of Alberta	University of Calgary	ı		
<b>10-MET-A1</b> MAT E 204	Metallurgical Thermodynamics Materials Engineering Thermodynamics	No Equivalent Course offerred	No		
<b>10-MET-A2</b> MAT E 470	Metallurgical Rate Phenomena Process Dynamics	ENME 341 Fundamentals of Fluid Mechanics			
		OR ENCH 331 Process Fluid Dynamics OR	ENCH 331 Pr		
		ENME 495 Fluid Mechanics OR	ENME 495 FI		
		ENME 471 Heat Transfer OR	ENME 471 He		
		ENCH 403 Heat Transfer	ENCH 403 He		
<b>10-MET-A3</b> CME 472	Metal Extraction Processes Extractive Metallurgy	No Equivalent Course offerred	No		
<b>10-MET-A4</b> MAT E 211	Structure of Materials Characterization of Materials	No Equivalent Course offerred	No		
<b>10-MET-A5</b> MAT E 351	Mechanical Behaviour and Fracture of Materials Mechanical Properties	ENME 521 Materials II	ENME 521 Ma		
40 MET 40	Phase Transformation & Thermal Treatment of Metals and				
<b>10-MET-A6</b> MAT E 335	Alloys Phase Transformations I	No Equivalent Course offerred	No		
& MAT E 336	Phase Transformations II				
<b>10-MET-A7</b> MAT E 341	Corrosion and Oxidation Applied Electrochemistry and Corrosion	No Equivalent Course offerred	No		
<b>10-MET-B1</b> CME 421	Mineral Processing Mineral Processing	No Equivalent Course offerred	No		
10-MET-B2	Hydrometallurgy and Electrometallurgy No Equivalent Course offerred	No Equivalent Course offerred	No		
10-MET-B3	Ironmaking and Steelmaking No Equivalent Course offerred	No Equivalent Course offerred	No		
10-MET-B4	Non-Ferrous Extractive Metallurgy No Equivalent Course offerred	No Equivalent Course offerred	No		
<b>10-MET-B5</b> MAT E 473	Metal Fabrication Processing of Materials	ENME 417 Manufacturing and Production Proces	ENME 417 Ma	esses	
<b>10-MET-B6</b> MAT E 476	Physical Metallurgy of Iron and Steel Microalloyed Steels provides about half of the material	No Equivalent Course offerred	No		
10-MET-B7	Physical Metallurgy of Non-Ferrous Metals and Alloys No Equivalent Course offerred	No Equivalent Course offerred	Ne		

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10-MET-B8	Ceramic Materials			
MAT E 471	Ceramics		No Equivalent Course offerred	
10-MET-B9	Structure and Properties of Polymers			
MAT E 482	Introduction of Polymer Science and Engineering	ENCH 539	Polymer Engineering	
10-MET-B10	Advanced Electronic Materials			
MAT E 491	Properties and Physics of Functional Materials		No Equivalent Course offerred	
			Updated October 2025	