

PRELIMINARY & BASIC STUDIES COURSE EQUIVALENTS 1998 Edition

University of Alberta		University of Calgary		Athabasca University	
98-PRELIM-1	Calculus				
MATH 100 &	Calculus I	AMAT 217	Calculus for Engineers & Scientists I	MATH 265 &	Introduction to Calculus
MATH 101 OR	Calculus II	& AMAT 219	Calculus for Engineers		Introduction to Calculus II
MATH 114 &	Elementary Calculus I	OR MATH 251	II Calculus I		
MATH 115	Elementary Calculus II	& Math 253	Calculus II		
98-PRELIM-2 ENCMP 100	Computing Computer	ENICC 222	Engineering		
LINGWIF 100	Programming for Engineers	&	Computation		
OR CMPUT 114	Introduction to		Numerical Methods in Engineering		
PLUS ONE OF	Computing Science				
CIV E 295	Civil Engineering Analysis II				
OR CMPUT 340	Introduction to Numerical Methods				
OR CH E 474	Computational Methods in Chemical Engineering				
OR MAT E 390	Introduction to Process Simulation				
OR E E 231	Electrical Engineering Design				
OR MEC E 390	Computer Aided Engineering				

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98-PRELIM-3 EN PH 131 OR PHYS 102 & PHYS 130 OR PHYS 100	Physics Mechanics Mechanics Wave Motion, Optics and Sound General Physics I	PHYS 259 & PHYS 269	Magnetism	
98-PRELIM-4 CHEM 101 & CHEM 102 OR CHEM 103 & CHEM 105	Chemistry Intro Univ Chem I Intro Univ Chem II Intro Univ. Chem I Intro Univ Chem II	&	Behaviour of Liquids, Gases and Solids General Chemistry for Engineers	CHEM 217 Chemical Principles & CHEM 218 Chemical Principles II
98-BS-1 MATH 102 & MATH 214 & MATH 215	Mathematics	AMAT 307 & AMAT 309	Differential Equations for Engineers Vector Calculus for Engineers	
98-BS-2 STAT 141 OR STAT 151	Probability and Sta Introduction to Statistics Introduction to Applied Statistics I		Probability and Statistics for Engineers	MATH 215 Introduction to Statistics
98-BS-3 EN PH 131 & ENGG 130 & MEC E 250	Statics and Dynam	ENGG 203 & ENGG 249 OR	Statics Dynamics Engineering Mechanics I	

University of Alberta		University of Calgary		
98-BS-4 EE 239	Electric Circuits an Fundamentals of Electrical Eng		Electric Circuits and Systems	
EE 305	Fundamentals of Electrical Eng	OR		
	·	ENEL 329	Circuits for Software Engineers	
98-BS-5	Advanced Mathema	atics		
MATH 300	Advanced Boundary Valve	& AMAT 407 OR	Numerical Methods in Engineering	
& EE 231	Problems Programming and Numerical Methods		Partial Differential Equations for Engineers	
OR MATH 280	for Elec Eng Numerical		Mathematical Methods	
	Methods I			
98-BS- 6 CIV E 270	Mechanics of Mate Mechanics of Deformable Bodies		Mechanics of Solids	
98-BS-7 CIV E 330	Mechanics of Fluids Introduction to Fluid Mechanics	ENCH 331 OR	Process Fluid Dynamics	
CH E 312			Fundamentals of Fluid Mechanics	
98-BS-8 EE 280	Digital Logic Circuits Intro to Digital Electronics	ENEL 353	Digital Circuit Design	
98-BS-9 EE 317	Basic Electromagnetic Electromagnetics for Comp. Engineers	s PHYS 259	Electricity and Magnetism	
OR EE 315	Engineering Electromagnetics I	& ENEL 475	Fundamentals of Electromagnetic Fields	
OR EE 316	Engineering Electromagnetics II			
98-BS-10 CH E 243	Thermodynamics Engineering Thermodynamics	ENGG 311	Engineering Thermodynamics	

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98-BS-11 MAT E 252	Properties of Materials Material Science II	ENCI 413 OR ENME 421	Introduction to Civil Eng Materials Materials I
98-BS-12 CHEM 261	Organic Chemistry Organic Chemistry	OR	Industrial Organic Chemistry for Engineers Organic Chemistry for Chemists
98-BS-13 BIOL 108	Biology Organisms in Their Environment	BIOL 231 & BIOL 233	Introduction to Biology I Introduction to Biology II
98-BS-14 EAS 210	Geology Engineering Earth Science	GLGY 471	Geology, Engineering & the Environment

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