

***PRELIMINARY & BASIC STUDIES
COURSE EQUIVALENTS
2004 Edition***

<i>APEGGA Exam</i>	<i>Equivalent courses at the University of Alberta</i>	<i>Equivalent courses at the University of Calgary</i>	<i>Equivalent courses at Athabasca University</i>
04-PRELIM-1 Calculus	MATH 100 Calculus I and MATH 101 Calculus II OR MATH 114 Elementary Calculus I and MATH 115 Elementary Calculus II	AMAT 217 Calculus for Engineers & Scientists I and AMAT 219 Calculus for Engineers & Scientists II OR MATH 251 Calculus I and MATH 253 Calculus II	MATH 265 Introduction to Calculus and MATH 266 Introduction to Calculus II
04-PRELIM-2 Computing	ONE OF: ENCMP 100 Comp. Prog. for Engineers CMPUT 114 Intro to Computing Science PLUS ONE OF: CIV E 295 Civil Engineering Analysis II CMPUT 340 Intro to Numerical Methods CH E 474 Computational Mthds in Chem Eng MAT E 390 Intro to Process Simulation E E 231 Electrical Engineering Design MEC E 390 Computer Aided Engineering	ENGG 233 Engineering Computation and ENGG 407 Numerical Methods in Engineering	
04-PRELIM-3 Physics	ENPH 131 Mechanics PHYS 102 Mechanics PLUS ONE OF: PHYS 130 Wave Motion, Optics and Sound PHYS 100 General Physics I	PHYS 259 Electricity and Magnetism and PHYS 269 Acoustics, Optics and Radiation	



<p>04-PRELIM-4 Chemistry</p>	<p>CHEM 101 Intro to Univ Chem I and CHEM 102 Intro to Univ Chem II</p> <p>OR</p> <p>CHEM 103 Intro to Univ. Chem I and CHEM 105 Intro to Univ Chem II</p>	<p>ENGG 201 Behav. of Liquids, Gases and Solids and CHEM 209 General Chemistry for Engineers</p>	<p>CHEM 217 Chemical Principles I and CHEM 218 Chemical Principles II</p>
<p>04-BS-1 Mathematics</p>	<p>MATH 102 Applied Linear Algebra and MATH 214 Intermediate Calculus I and MATH 215 Intermediate Calc. II</p>	<p>AMAT 307 Differential Equations for Engineers and AMAT 309 Vector Calculus for Engineers</p>	
<p>04-BS-2 Probability and Statistics</p>	<p>STAT 141 Introduction to Statistics OR STAT 151 Introduction to Applied Statistics</p>	<p>ENGG 319 Prob. and Statistics for Engineers</p>	<p>MATH 215 Introduction to Statistics</p>
<p>04-BS-3 Statics and Dynamics</p>	<p>EN PH 131 Mechanics and ENGG 130 Engineering Mechanics and MEC E 250 Engineering Mechanics II</p>	<p>ENGG 203 Statics and ENGG 249 Dynamics</p> <p>OR</p> <p>ENGG 205 Engineering Mechanics I and ENGG 349 Engineering Mechanics II</p>	
<p>04-BS-4 Electric Circuits and Power</p>	<p>EE 239 Fundamentals of Electrical Eng OR EE 305 Fundamentals of Electrical Eng</p>	<p>ENGG 325 Electric Circuits and Systems OR ENEL 329 Circuits for Software Engineers</p>	
<p>04-BS-5 Advanced Mathematics</p>	<p>MATH 300 Adv Boundary Value Problems</p> <p>PLUS ONE OF: EE 231 Prog. & Num Mthds for Elec Eng MATH 280 Numerical Methods I</p>	<p>AMAT 415 Mathematical Methods</p> <p>OR</p> <p>ENGG 407 Numerical Methods in Engineering and AMAT 407 Partial Diff. Equations for Engineers</p>	

04-BS-6 Mechanics of Materials	CIV E 270 Mech. of Deformable Bodies	ENGG 317 Mechanics of Solids	
04-BS-7 Mechanics of Fluids	CIV E 330 Introduction to Fluid Mechanics OR CH E 312 Fluid Mechanics	ENCH 331 Process Fluid Dynamics OR ENME 341 Fundamentals of Fluid Mechanics	
04-BS-8 Digital Logic Circuits	EE 280 Intro to Digital Electronics	ENEL 353 Digital Circuit Design	
04-BS-9 Basic Electromagnetics	ONE OF: EE 317 Electromag for Comp. Engineers EE 315 Engineering Electromagnetics I EE 316 Engineering Electromagnetics II	PHYS 259 Electricity and Magnetism and ENEL 475 Fund. of Electromagnetic Fields	
04-BS-10 Thermodynamics	CH E 243 Engineering Thermodynamics	ENGG 311 Engineering Thermodynamics	
04-BS-11 Properties of Materials	MAT E 252 Material Science II	ENCI 413 Introduction to Civil Eng Materials OR ENME 421 Materials I	
04-BS-12 Organic Chemistry	CHEM 261 Organic Chemistry	CHEM 357 Industrial Org. Chem. for Engineers OR CHEM 354 Organic Chemistry for Chemists	
04-BS-13 Biology	BIOL 108 Organisms in Their Environment	BIOL 231 Introduction to Biology I and BIOL 233 Introduction to Biology II	
04-BS-14 Geology	EAS 210 Engineering Earth Science	GLGY 471 Glg, Engg & the Environment	
04-BS-15 Engineering Graphics	No course equivalents at this time	No course equivalents at this time	
04-BS-16 Discrete Mathematics	No course equivalents at this time	No course equivalents at this time	