



**GEOLOGY**  
**COURSE EQUIVALENTS**  
**2010 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 Mount Royal University</i>
<b>2010-GFUND-1a Elementary Calculus I</b>	<b>ONE OF:</b> MATH 113 Elem Calculus I MATH 114 Elem Calculus I MATH 100 Calculus I	<b>ONE OF:</b> MATH 249 Introductory Calculus MATH 251 Calculus I MATH 281 Honours Calculus I AMAT 217 Calculus for Eng & Sci	MATH 1200 Calculus for Sci I <b>OR</b> MATH 2251 Calculus I
<b>2010-GFUND-1b Elementary Calculus II</b>	MATH 115 Elem Calculus II <b>OR</b> MATH 101 Calculus II	<b>ONE OF:</b> MATH 253 Calculus II MATH 283 Honours Calculus II	MATH 1202 Calculus for Sci II
<b>2010-GFUND-2a General Physics I</b>	PHYS 124 Particles and Waves <b>OR</b> PHYS 144 Newtonian Mechanics & Relativity	PHYS 211 Mechanics <b>OR</b> PHYS 221 Mechanics	PHYS 1201 Classical Physics I
<b>2010-GFUND-2b General Physics II</b>	PHYS 126 Fluids, Fields, Radiation <b>OR</b> PHYS 146 Fluids and Waves	PHYS 223 Intro Electromagnetism	PHYS 1202 Classical Physics II
<b>2010-GFUND-3a General Chemistry I</b>	CHEM 101 Intro Univ Chem I <b>OR</b> CHEM 103 Intro Univ Chem I	CHEM 201 General Chemistry I	CHEM 1201 General Chemistry I
<b>2010-GFUND-3b General Chemistry II</b>	CHEM 102 Intro Univ Chem II <b>OR</b> CHEM 105 Intro Univ Chem II	CHEM 203 General Chemistry II	CHEM 1202 General Chemistry II
<b>2010-GFUND-4 Differential Equations &amp; Transform Methods</b>	<b>ONE OF:</b> MATH 201 Differential Eqns MATH 214 Intermed Calculus I MATH 215 Intermed Calculus II	<b>ONE OF:</b> MATH 331 Multivariate Calculus AMAT 307 Diff Eqns. for Engineers AMAT 311 Differential Equations I AMAT 415 Mathematical Methods	MATH 3307 Differential Equations
<b>2010-GFUND-5 Linear Algebra and Vector Analysis</b>	MATH 120 Basic Linear Alg <b>OR</b> MATH 125 Linear Algebra	<b>ONE OF:</b> MATH 211 Linear Methods I MATH 349 Calculus III MATH 353 Calculus IV AMAT 309 Vector Calc for Eng	MATH 1203 Linear Algebra for Sci & Eng MATH 2211 Linear Methods I
<b>2010-GFUND-6 Computing Science</b>	<b>ONE OF:</b> CMPUT 101 Intro Computing CMPUT 114 Intro Comp. Sci CMPUT 115 Prog w/Data Struct CMPUT 201 Practical Prog Methods	<b>ONE OF:</b> CPSC 217 Intro Comp Sci I CPSC 219 Intro Comp Sci II CPSC 235 Adv Intro to Comp Sci	<b>ONE OF:</b> COMP 1001 Intro Comp-based Problem Solving COMP 2215 Intro Programming COMP 2231 Intro Comp Sci I

<b>2010-GFUND-7 Thermodynamics</b>	PHYS 261 Physics of Energy	ENGG 311 Eng Thermodynamics <b>OR</b> CHEM 371 Physical Chemistry	No Course Equivalent
<b>2010-GFUND-8 Biology</b>	BIOL 107 Intro to Cell Biology <b>OR</b> BIOL 108 Organisms in their Environ	<b>ONE OF</b> BIOL 205 The Organization and Diversity of Life BIOL 231 Intro to Biology I BIOL 233 Intro to Biology II	<b>ONE OF:</b> BIOL 1202 Intro Cell Biology BIOL 1204 Evolution Eukaryotes BIOL 1205 Organization & Diversity of Life
<b>2010-GFUND-9 Physical Chemistry</b>	CHEM 371 Energetics of Chemical Reactions	CHEM 373 Phys Chem: Quantum Mechanics	No Course Equivalent
<b>2010-GFUND-10 Organic Chemistry</b>	CHEM 164 Organic Chemistry I <b>OR</b> CHEM 261 Organic Chemistry I	CHEM 351 Organic Chemistry I <b>OR</b> CHEM 353 Organic Chemistry II	CHEM 2101 Organic Chemistry I <b>OR</b> CHEM 2102 Organic Chemistry II
<b>2010-GFUND-11 Inorganic Chemistry</b>	CHEM 241 Intro Organic Chem <b>OR</b> CHEM 333 Inorganic Materials Chemistry	CHEM 331 Inorganic: Group Elements <b>OR</b> CHEM 333 Inorganic: Transition Metals	No Course Equivalent
<b>2010-GFUND-12 Statistics</b>	STAT 141 Intro Statistics <b>OR</b> STAT 151 Intro Applied Statistics	<b>ONE OF:</b> STAT 211 Concepts of Statistics STAT 213 Introduction to Statistics I STAT 217 Intro Statistics II STAT 327 Environmental Statistics STAT 357 Stats for Phys Sciences	MATH 1224 Intro to Statistics <b>OR</b> MATH 2235 Stats w/Applications in Geology
<b>2010-GLGY-1 Mineralogy &amp; Crystallography</b>	EAS 224 Mineralogy I	GLGY 311 Minerals & Rocks	GEOL 2103 Minerals & Rocks
<b>2010-GLGY-2 Principles of Stratigraphy and Sedimentation</b>	EAS 222 Strat & Sedimentation	GLGY 381 Strat & Sedimentation	GEOL 2109 Strat & Sedimentation
<b>2010-GLGY-3 Igneous Petrology</b>	EAS 331 Igneous Petrology	GLGY 443 Igneous & Met Petrology	GEOL 3103 Igneous Petrology
<b>2010-GLGY-4 Sedimentary Petrology</b>	EAS 336 Sedimentary Systems	GLGY 461 Sedimentary Petrology	GEOL 3109 Sedimentary Petrol
<b>2010-GLGY-5 Metamorphic Petrology</b>	EAS 332 Metamorphic Petrology	GLGY 443 Igneous & Metamorphic Petrology	GEOL 3111 Metamorphic Petrol
<b>2010-GLGY-6 Structural Geology</b>	EAS 233 Geologic Structures and Maps	GLGY 341 Structural Geology	GEOL 2105 Structural Geology
<b>2010-GLGY-7 General Geochemistry</b>	EAS 320 Geochemistry 1	GLGY 323 Geochemical Processes	GEOL 3113 Geochemical Processes

<b>2010-GLGY-8 Global Geophysics</b>	GEOPH 210 Physics of the Earth	GOPH 359 Global Geophysics	No Course Equivalent
<b>2010-GLGY-9 Geomorphology</b>	EAS 225 Earth Surface Processes & Landforms	GLGY 373 Surficial Geology <b>OR</b> GEOG 307 Landform Processes	GEOL 3107 Geomorphology
<b>2010-GLGY-10 Glacial and Quaternary Geology</b>	EAS 458 Cold Regions Geoscience	GEOG 507 Glacial Geomorphic Systems	No Course Equivalent
<b>2005-GLGY-11 Hydrogeology</b>	EAS 323 Intro Hydrogeology	GLGY 401 Physical Hydrogeology	GEOL 4105 Hydrogeology
<b>2010-GLGY-12 Paleontology</b>	EAS 230 Intro Invertebrate Paleontology	GLGY 491 Paleobiology	GEOL 2107 Palaeontology
<b>2010-GLGY-13 Petroleum &amp; Natural Gas</b>	EAS 430 Petroleum Geology	<b>ONE HALF COURSE EQUIV OF:</b> GLGY 449 Petrophys Techniques GOPH 449 Petrophys Techniques GLGY 577 Petroleum Geology GLGY 589 Topics Petrol Geol I GLGY 593 Topics Petrol Geol II GLGY 595 Topics Petrol Geol III GLGY 596 Topics Petrol Geol IV	GEOL 4109 Petroleum Geology
<b>2010-GLGY-14 Economic Geology</b>	No Course Equivalent	No Course Equivalent	No Course Equivalent
<b>2010-GLGY-15 Metallic Mineral Deposits</b>	EAS 433 Ore Deposits Geology	GLGY 527 Ore Deposits	GEOL 4111 Ore Deposits & Economic Geology
<b>2010-GLGY-16 Strat of Western NA</b>	No Course Equivalent	GLGY 563 Geol History WCSB	GEOL 4107 Geologic History of Western Canada
<b>2010-GLGY-17 Geotect &amp; Global Glogy</b>	No Course Equivalent	GLGY 555 Global Geology	No Course Equivalent
<b>2010-GLGY-18 Exploration Geophysics</b>	GEOPH 223 Env Monitoring & Mining <b>OR</b> GEOPH 224 Geophys Exploration	GOPH 355 Exploration Geophysics <b>OR</b> GOPH 453 Mining Geophysics	GEOP 3101 Exploration Geophysics
<b>2010-GLGY-19 Optical/Adv Mineralogy</b>	EAS 232 Mineralogy II	GLGY 423 Mineralogy	GEOL 2111 Crystallography & Optical Mineralogy
<b>2010-GLGY-20 Advanced Sedimentology</b>	EAS 336 Sedimentary Systems	<b>ONE OF:</b> GLGY 561 Sequence Stratigraphy GEOG 411 Fluvial Geomorphology	GEOL 4101 Adv Topics in Sedimentary Geology

<b>2010-GLGY-21 Advanced Igneous and/or Metamorphic Petrology</b>	EAS 466 Petrogenesis	<b>ONE OF:</b> GLGY 531 Adv Igneous Petrology GLGY 533 Met & Lithosphere Evol GLGY 543 Adv Ign & Met Petrology GLGY 633 Adv Ign & Met Petrology GLGY 733 Analytic Methods Petrol	GEOL 4103 Adv Topics in Ign/Met Geology
<b>2010-GLGY-22 Advanced Geochemistry</b>	EAS 468 Geochemical Processes	<b>ONE OF:</b> GLGY 503 Aqueous Geochemistry GLGY 603 Adv Aqueous Geochem GLGY 679 Petr & Env Org Geoch GLGY 729 Sed Geochemistry	No Course Equivalent
<b>2010-GLGY-23 Principles of Geotechnics</b>	CIV E 381 Intro to Soil Mechanics <b>OR</b> MIN E 323 Rock Mechanics	GLGY 571 Engineering Geology	No Course Equivalent
<b>2010-GLGY-24 Advanced Paleontology</b>	<b>ONE OF:</b> PALEO 414 Paleontology PALEO 418 Paleo Bio of Lower Vertebrates PALEO 419 Paleo Bio of Higher Vertebrates	GLGY 585 Biostratigraphy	No Course Equivalent
<b>2010-GLGY-25 Adv Structural Geology</b>	EAS 421 Structural Geology & Tectonics	GLGY 541 Adv Structural Geology <b>OR:</b> GLGY 641 Adv Structural Methods	No Course Equivalent
<b>2010-GLGY-26 Geostatistics</b>	<b>ONE OF:</b> STAT 151 Intro Applied Stats I STAT 222 Applied Statistics STAT 252 Intro Applied Stats II	<b>ONE OF:</b> GLGY 597 Num Models & Geostats STAT 213 Introduction to Statistics I STAT 217 Intro Statistics II STAT 357 Stats for Phys Sciences	MATH 1224 Intro to Statistics <b>OR</b> MATH 2235 Stats w/Applications in Geology
<b>2010-GLGY-27 Advanced Hydrogeology</b>	EAS 425 Contaminant Hydrology	<b>ONE OF:</b> GLGY 601 Adv Phys Hydrogeology GLGY 505 Contaminant Hydrogeol GLGY 605 Subsurf Flow/Transport	No Course Equivalent
<b>2010-GLGY-28 Reservoir Geology</b>	No Course Equivalent	GLGY 677 Adv Topics Oil/Gas Prod	No Course Equivalent
<b>2010-GLGY-29 Advanced Ore Deposits</b>	No Course Equivalent	GLGY 627 Adv Ore Deposits	No Course Equivalent
<b>2010-GLGY-30 Photogeology and Remote Sensing</b>	<b>ONE OF:</b> EAS 324 Quat Geoscience & Terrain Analysis EAS 451 Digital Remote Sensing	GEOG 333 Remote Sensing I <b>OR</b> GEOG 433 Remote Sensing II	GEOG 2555 Intro to Remote Sensing
<b>2010-GLGY-31 Precambrian Geology</b>	EAS 432 Precambrian Geology	GLGY 533 Metamorphism & Lithosphere Evolution	No Course Equivalent