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***GEOLOGICAL ENGINEERING  
COURSE EQUIVALENTS  
2004 Edition***

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<i>University of Alberta</i>		<i>University of Calgary</i>	
<b>04-Geol-A1</b> EAS 224 & EAS 232 & EAS 331 & EAS 332	<b>Mineralogy and Petrology</b> Mineralogy I  Mineralogy II  Igneous Petrology  Met. Petrology	GLGY 311	Minerals and Rocks
<b>04-Geol-A2</b> EAS 323	<b>Hydrogeology</b> Introduction to Hydrogeology	GLGY 401	Physical Hydrology
<b>04-Geol-A3</b> EAS 222	<b>Sedimentation and Stratigraphy</b> Stratigraphy and Sedimentation	GLGY 381	Stratigraphy and Sedimentation
<b>04-Geol-A4</b> EAS 321	<b>Structural Geology</b> Structural Geology I	GLGY 341	Structural Geology
<b>04-Geol-A5</b> MIN E 323	<b>Rock Mechanics</b> Rock Mechanics	GLGY 571 <b>OR</b> ENCI 667	Engineering Geology  Applied Rock Engineering
<b>04-Geol-A6</b> CIV E 381	<b>Soil Mechanics</b> Soil Mechanics	ENCI 423	Soil Mechanics
<b>04-Geol-B1</b> EAS 425	<b>Contaminant Hydrogeology</b> Contaminant Hydrogeology	GLGY 505	Contaminant Hydrogeology
<b>04-Geol-B2</b> EAS 324  <b>OR</b> CIVE 684	<b>Terrain Analysis</b> Analysis of Aerial Photographs and Satellite Imagery  Engineering Geology and Terrain Analysis	GEOG 333 <b>OR</b> GEOG 433	Mapping and Remote Sensing  Remote Sensing of the Environment

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<b>04-Geol-B3</b> CIVE 683	<b>Site Investigation</b> Site Investigation Practice	GLGY 441	Field Techniques on Hydrogeology
<b>04-Geol-B4</b> EAS 225	<b>Geomorphology and Pleistocene Geology</b> Earth Surface Processes and Landforms	GLGY 373 <b>OR</b> GEOG 307	Surficial Geology  Landform Processes and Morphology
<b>04-Geol-B5</b> EAS 205	<b>Environmental Geology</b> Environment Earth		No Course Equivalent
<b>04-Geol-B6</b>	<b>Resource Geology</b>  Select <b>ONE</b> FROM		
<b>B6-1</b> EAS 430	<b>Petroleum Deposits</b> Petroleum Geology I	GLGY 577	Petroleum Geology
<b>B6-2</b>	<b>Coal Deposits</b> No course equivalent		No course equivalent
<b>B6-3</b> EAS 433	<b>Metallic and Industrial Mineral Deposits</b> Ore Deposit Geology	GLGY 527	Ore Deposits
<b>04-Geol-B7</b> PET E 295  & PET E 364	<b>Petroleum Development</b> Into to Fundamental Petroleum and Engineering  Oil Well Drilling and Completion	GLGY 677	Advanced Topics in Oil and Gas Production
<b>04-Geol-B8</b> MIN E 408 <b>OR</b> PET E 484	<b>Resource Economics &amp; Valuation</b> Mining Enterprise Economics  Oil and Gas Property Evaluation		No course equivalent
<b>04-Geol-B9</b> EAS 424	<b>Exploration &amp; Mining Geology</b> Subsurface Geol Methods	GLGY 627	Advanced Topics in Ore Deposits

**04-Geol-B10 Geophysical Exploration Methods**Select **ONE** FROM

<b>B10-1</b>	<b>Gravity and Magnetic Fields</b> No course equivalent	GOPH 547	Gravity and Magnetics
<b>B10-2</b>	<b>Electrical Methods</b> No course equivalent	GOPH 653	Electromagnetic and Induced Polarization Topics
<b>B10-3</b>	<b>Exploration Seismology</b> No course equivalent	GOPH 559	Geophysical Interpretation

**Revised April 2005**