

<i>University of Alberta</i>		<i>University of Calgary</i>	
18-Geol-A1	Mineralogy and Petrology		
EAS 224	Mineralogy I	GLGY 313	Minerals and Rocks
&		OR	
EAS 232	Mineralogy II	ERTH 310	Minerals and Rocks
&		&	
EAS 331	Igneous Petrology	GLGY 333	Igneous, Metamorphic Rocks & Processes
&			
EAS 332	Met. Petrology		
18-Geol-A2	Hydrogeology		
EAS 323	Introduction to Hydrogeology	GLGY 401	Physical Hydrology
18-Geol-A3	Sedimentation and Stratigraphy		
EAS 222	Stratigraphy and Sedimentation	GLGY 381	Sedimentary Rocks & Processes
18-Geol-A4	Structural Geology		
EAS 233	Geologic Structures	GLGY 343	3D Geologic Structures & Methods
		OR	
		GLGY 445	Structural Geology
		OR	
		ERTH 340	Rock Deformatn & Structures
18-Geol-A5	Rock Mechanics		
MIN E 323	Rock Mechanics	GLGY 571	Engineering Geology
		OR	
		GOPH 457	Physical Properties of Rocks
18-Geol-A6	Soil Mechanics		
CIV E 381	Soil Mechanics	ENCI 423	Geotechnical Engineering I
18-Geol-A7	Applied Geophysics		
GEOPH 210	Structure, Dynamics & Evolution of Earth	GOPH 351	Introduction to Geophysics
		OR	
		ERTH 360	Global Geophysics
18-Geol-B1	Contaminant Hydrogeology		
EAS 425	Contaminant Hydrogeology	GLGY 505	Contaminant Hydrogeology
18-Geol-B2	Terrain Analysis		
	Quaternary Geoscience & Terrain	GEOG 380	Intro to GIS & Remote Sensing
EAS 324	Analysis	OR	
		GEOG 484	Remote Sensing Essentials
		OR	
		GEOG 584	Advanced Remote Sensing
18-Geol-B3	Site Investigation		
CIV E 683	Site Investigation Practice	GLGY 639	Field Lab in Groundwater Hydrogeology

University of Alberta		University of Calgary	
18-Geol-B4 EAS 225	Geomorphology and Pleistocene Geology Earth Surface Processes and Landforms	GLGY 353 OR ERTH 320	Surficial Systems Earth Surface Processes
18-Geol-B5 EAS 205	Environmental Geology Environment Earth		<i>No Course Equivalent Offered</i>
18-Geol-B6 Select ONE FROM	Resource Geology		
B6-1 EAS 364	Petroleum Deposits Basin Resources & Subsurface Methods	GLGY 577	Introduction to Petroleum Geology
B6-2	Coal Deposits <i>No Course Equivalent Offered</i>		<i>No Course Equivalent Offered</i>
B6-3 EAS 368	Metallic and Industrial Mineral Deposits Ore Deposits Geology	GLGY 527	Ore Deposits
18-Geol-B7 PET E 364 & PET E 373	Petroleum Development Drilling Engineering Fundamental Petroleum Engineering	GLGY 655 OR GLGY 698	Unconventional Reservoirs Reservoir Characterization & Field Development
18-Geol-B8 MIN E 408 OR PET E 484	Resource Economics & Valuation Mining Enterprise Economics Oil and Gas Property Evaluation	ENCH 687	Petroleum Economics
18-Geol-B9	Exploration & Mining Geology <i>No Course Equivalent Offered</i>		<i>No Course Equivalent Offered</i>
18-Geol-B10 Select ONE FROM	Geophysical Exploration Methods		
B10-1 GEOPH 325	Gravity and Magnetic Fields Geophysical Imaging of Earth's Interior	GOPH 547	Global & Mineral Applications of Geophysics
B10-2 GEOPH 524	Electrical Methods Electromagnetic Methods in Geoph	GOPH 565	Environmental Applications of Geoph
B10-3 GEOPH 326	Exploration Seismology Seismic Imaging of Earth's Interior	GOPH 559	Geophysical Interpretation

Updated October 2025