

## **UBC - GEOLOGICAL ENGINEERING PROGRAM**

### **POSSIBLE TECHNICAL ELECTIVES \***

#### **1. Courses recently used as Technical Electives**

GEOG	308	Quaternary and Applied Geomorphology
	370	Introduction to Geographic Information and its Analysis
	373	Introductory Remote Sensing
	405	Fluvial Geomorphology
	406	Hillslope Geomorphology
	408	Snow and Ice Processes
	470	Advanced Geographic Information Systems
	497	Geography of the Canadian Arctic
CIVL	405	Environmental Impact Studies
	315	Fluid Mechanics II
	316	Open Channel Hydraulics
	406	Water Treatment and Waste Management
	408	Geo-Environmental Engineering
FOPR	463	Forest Roads and Bridges
FRST	387	Forest Hydrology and Fish-Foresty Interactions
	442	Photo-Interpretation of Forest Lands
	462	Industrial Forest Management
MINE (formerly MMPE)	410	Surface Mining and Design
SOIL	435	Soil Contamination and Remediation

#### **2. 3rd and 4th year level core courses in one option can generally be used as technical electives in another option. \***

#### **3. Most 3rd and 4th year courses in Applied Science \***

CIVL	413	Earth Dams
	415	Water Resources Engineering
	417	Coastal Engineering
	418	Engineering Hydrology
	546	Sediment Transport
	572	Environmental Geotechnique
MINE	303	Rock Mechanics Fundamentals
	304	Drilling and Blasting
	331	Unit Operations
	397	Mine Economics
	401	Mine Feasibility Study
	403	Rock Mechanics Design

#### **4. Various 3rd and 4th year courses in geology, oceanography and geophysics \***

EOSC	325	Analytical Geochemistry
	370	Introduction to Physical and Chemical Oceanography
	371	Introduction to Biological and Geological Oceanography
	421	Advanced Sedimentology
	424	Advanced Mineral Deposits
	471	Introduction to Dynamical Oceanography

**Approval required by Director, Geological Engineering**