

# Schedule - GEOL 5806 - Modular Course in Exploration Geochemistry

Mineral Exploration Research Centre and Department of Earth Sciences

All Lectures and Labs in the Executive Learning Centre, 3rd Floor, Fraser Auditorium Building, Laurentian University, Sudbury, Ontario

				SPEAKER	
1	Wed 05 Dec 2018 <i>ioGAS Tutorial</i>	0845	0900	Course introduction	
		0900	1030	Introduction to ioGAS	Michael Leshler (HES/MERC)
		1030	1100	Coffee	Michael Leshler (HES/MERC)
		1100	1200	Working with ioGAS	Michael Leshler (HES/MERC)
		1200	1300	Lunch	
		1300	1430	Practical Exercise: Analysis of a Silicate Litho geochemistry Database	Michael Leshler (HES/MERC)
		1430	1530	Coffee	Michael Leshler (HES/MERC)
1530	1700	Practical Exercise: Analysis of a Sulfide Geochemistry Database	Michael Leshler (HES/MERC)		
2	Thu 06 Dec 2018	0900	1030	Introduction, Analytical methods	Marcus Burnham (Geo Labs)
		1030	1100	Coffee	
		1100	1230	QCQA (Standards, Reference Materials, Precision/Accuracy, Failure Monitoring)	Jennifer Hargreaves (Geo Labs)
		1230	1330	Lunch	
		1330	1500	Lab 1 - QAQC	Marcus Burnham and Jennifer Hargreaves (Geo Labs)
		1500	1530	Coffee	
		1530	1700	Lab 1 - QAQC	Marcus Burnham and Jennifer Hargreaves (Geo Labs)
3	Fri 07 Dec 2018	0900	1030	Basic geostatistics, Exploratory data analysis, Data transformations	Cliff Stanley (Acadia)
		1030	1100	Coffee	
		1100	1230	Closure (major and trace elements), PER/GER analysis, Change of basis	Cliff Stanley (Acadia)
		1230	1330	Lunch	
		1330	1500	Lab 2 - Pearce element ratio analysis and general element ratio analysis	Cliff Stanley (Acadia)
		1500	1530	Coffee	
		1530	1700	Lab 2 - Pearce element ratio analysis and general element ratio analysis	Cliff Stanley (Acadia)
4	Sat 08 Dec 2018	0900	1030	Data processing, major element litho geochemistry	Cliff Stanley (Acadia)
		1030	1100	Coffee	
		1100	1230	Trace element geochemistry	Cliff Stanley (Acadia)
		1230	1330	Lunch	
		1330	1500	Multi-element normalized diagrams, discrimination plots	Cliff Stanley (Acadia)
		1500	1530	Coffee	
		1530	1700	Lab 3 - Litho geochemistry	Cliff Stanley (Acadia)
5	Sun 09 Dec 2018	0900	1030	Alteration mass balance	Michael Leshler (HES/MERC)
		1030	1100	Coffee	
		1100	1230	Lab 4 - Alteration mass balance	Michael Leshler (HES/MERC)
		1230	1330	Lunch	
		1330	1500	Stable isotopes	Michael Leshler (HES/MERC)
		1500	1530	Lunch	
		1530	1700	Lab 5 - Stable isotopes	Michael Leshler (HES/MERC)
6	Mon 10 Dec 2018	0900	1030	Radiogenic isotopes	Michael Leshler (HES/MERC)
		1030	1100	Coffee	
		1100	1230	Lab 6 - Radiogenic isotopes	Michael Leshler (HES/MERC)
		1230	1330	Lunch	
		1330	1500	Exploration geochemistry of SEDEX deposits	Jan Peter (GSC)
		1500	1530	Coffee	
		1530	1700	Hydrothermal sediments and applications in exploration	Jan Peter (GSC)
7	Tue 11 Dec 2018	0900	1030	Field portable techniques	Jan Peter (GSC)
		1030	1100	Coffee	
		1100	1230	Lab 7 - Exhalites	Jan Peter (GSC)
		1230	1330	Lunch	
		1330	1500	Exploration geochemistry of lode Au deposits	Stephane Perrouty (HES/MERC)
		1500	1530	Coffee	
		1530	1700	Lab 8 - Gold	Stephane Perrouty (HES/MERC)
8	Wed 12 Dec 2018	0900	1030	Gold exploration case histories	Tom Morris (Northern Superior Resources)
		1030	1100	Coffee	
		1100	1230	Design and Implementation of effective geochemical exploration programs	Ross Sherlock (HES/MERC)
		1230	1330	Lunch	
		1330	1500	Exploration geochemistry of U deposits	Steve Beyer (Queen's)
		1500	1530	Coffee	
		1530	1700	Lab 9 - Uranium	Steve Beyer (Queen's)
9	Thu 13 Dec 2018	0900	1030	Till geochemistry & indicator minerals	Beth McClenaghan (GSC)
		1030	1100	Coffee	
		1100	1230	Lab 10 - Indicator minerals	Beth McClenaghan (GSC)
		1230	1330	Lunch	
		1330	1500	Metal migration through cover	Matt Leybourne (HES/MERC)
		1500	1530	Coffee	
		1530	1700	Lake sediment geochemistry	Matt Leybourne (HES/MERC)
10	Fri 14 Dec 2018	0900	1030	Stream sediments	Matt Leybourne (HES/MERC)
		1030	1100	Coffee	
		1100	1230	Aqueous geochemistry	Matt Leybourne (HES/MERC)
		1230	1330	Lunch	
		1330	1500	Lab 11 - Surficial geochemistry	Matt Leybourne (HES/MERC)
		1500	1530	Coffee	
		1530	1700	Sediment chemistry	Michael Leshler (HES/MERC)
11	Sat 15 Dec 2018	0900	1030	Diamond exploration geochemistry	Dave Crabtree (Geo Labs) and Bruce Jago (GSM/HE/MERC)
		1030	1100	Coffee	
		1100	1230	Fertile vs barren kimberlites in the Arctic	Bruce Jago (GSM/HE/MERC)