

	Syllabus: GEO304 Fall 2019		
	LECTURE	HOMEWORK (handout and review)	
3-Sep	Introduction, formation of the elements and solar system		BT
5-Sep	Structure of atoms, Periodic Table, s and p processes	Hwk#1 (Conversions, error prop)	BT
10-Sep	Atomic structure and magnetic properties, Thermodynamics (1)	HWK #2	LG
12-Sep	Thermodynamics (2)		LG
17-Sep	Structure of earth Bowens reservoirs	hwk #3	JS
19-Sep	Reservoirs, isotopes, and chronology		RM
24-Sep	Thermodynamic LAB (HEAT CAPACITY)		
26-Sep	Exam review		
1-Oct	EXAM 1		RM, JS
3-Oct	Go over exam 1		
8-Oct	Water sampling		LG
10-Oct	Stable isotopes I		RM
15-Oct	Stable isotopes II		RM
17-Oct	Stable Isotope Lab- optima/Picaro/Sr lab: team I		RM
22-Oct	Quaternary Chronology U series, C14		RM
24-Oct	Stable Isotope Lab- optima/Picaro/Sr lab: team 2		
29-Oct	Marine Geochemistry		RM
31-Oct	Marine Geochemistry	HWK 5	RM
5-Nov	review		RM
7-Nov	EXAM 2		RM
12-Nov	go over exam 2/ Neptune lab		RM (LG)
14-Nov	pH, redox; CO2		LG
19-Nov	weathering clays	HWK 6	LG
21-Nov	Aqueous Geochem Lab		LG
26-Nov	Field trip to Sterling Hill Mine		all
29-Nov	Thanksgiving		
3-Dec	examples stability fields Eh-pH,		LG
5-Dec	class presentation		
10-Dec	Last class, Presentations		
13-Dec			
Finals week	EXAM 3 (scheduled on day of final exam)		