

## Syllabus

<u>Topic(s)</u>	<u>Text Book Chapter</u>	<u>Date</u>
COURSE OVERVIEW; REVIEW OF CHEMICAL CONCEPTS	Ch.2: Chemical Background	Weeks 1 - 2
CO <sub>2</sub> – H <sub>2</sub> O SYSTEM W/ & W/O CARBONATE MIENRALS PRESENT	Ch.3: Carbonate System and pH Control <b>Geochemical WorkBench</b>	Weeks 3 - 4
MINERAL STABILITY IN NATURAL WATERS: THERMO. VIEW	Ch.10: Stability Diagram <b>Geochemical WorkBench</b>	Weeks 5 - 6
MINERAL STABILITY IN NATURAL WATERS: KINETIC VIEW	Ch.11. Kinetics <b>Geochemical WorkBench</b>	Week 7
REDOX REACTIONS IN NATURAL WATERS	Ch.7: Redox Equilibria Ch.8. Natural Redox Conditions <b>Geochemical WorkBench</b>	Weeks 8 - 9
ADSORPTION PROCESS & ION EXCHANGE	Ch.5: Adsorption Ch.4. Ion Exchange in Clays <b>Geochemical WorkBench</b>	Weeks 10 - 11