

Geochemistry of Water 206-24191 – 2 credits

Prof. Jiwchar Ganor

Syllabus

Introduction: Concentration units and unit conversions; chemistry of rainwater - sources and mixing relationships; gases in rainwater - nitrogen and sulphur cycles; weathering processes in soils and the subsurface - weathering reactions, thermodynamics of rock-water reactions; spring water composition - activity diagrams, mass balance, kinetics of solution reactions and weathering processes; carbon dioxide cycling in nature and the greenhouse effect; sources of salts in the ocean; evaporation processes and production of brines.

Bibliography

Course reading materials are placed by the instructor on the course Web page during term time.

Course Requirements

2 hr lecture / tutorial

Grading

100% final exam