

Stable and Radioactive Isotopes in Water Systems 206-23951 – 3 credits

Dr. Orit Sivan

Syllabus

Introduction to isotope geochemistry, the use of stable isotopes as tracers for sources and processes in contaminant and non-contaminant natural water systems, and the use of radioactive isotopes for dating water ages and flow rates.

Bibliography

Sharp, Z. (2007) Principles of Stable Isotope Geochemistry

Faure, G. (1986) Principles of Isotope Geology

Faure, G. and Mensing, T.M. (2006) Isotopes: Principles and Applications

Selected papers

Course Requirements

3 hr lecture / tutorial

Grading

70% - final exam

30% - exercises, reading and presentations