

Chemical Oceanography 206-23991 – 3.25 credits

Dr. Orit Sivan

Syllabus

- 1) General introduction
- 2) Water in earth
- 3) Introduction to oceanography
- 4) Seawater composition
- 5) Dissolved gasses in seawater
- 6) Control processes
- 7) Stable and radioactive isotopes as tracers for processes in the ocean
- 8) Marine sediment

Bibliography

1. S.M. Libes (1992) An Introduction to Marine Biogeochemistry (See chapters below)
2. The Open University (OU) (1989) Seawater: Its Composition, Properties and Behavior, Pergamon press (See chapters below)
3. [Additional, recommended: W. Stumm and J.J. Morgan (1986) Aquatic Chemistry: Chemical Equilibria and Rates in Natural Waters. 3rd Ed. Wiley and Sons]

Course Requirements

Prerequisites: Introduction to Environmental Oceanography

3 hr lecture

1 day excursion

Grading

70% - final exam

10% - report on cruise with lab

20% - exercises and reading