

OCC: Chemical Oceanography Courses

Courses

OCC 4002 Chemical Oceanography

3 sh (may not be repeated for credit)

Prerequisite: CHM 2045/L

The chemical composition of the oceans and the physical, chemical, and biological processes governing this composition in the past and present. Topics covered include cycling of carbon, nitrogen, phosphorus, silicon, and oxygen, and processes of primary production, export production, remineralization, diagenesis, and air-sea gas exchange.

OCC 4414 Global Biogeochemical Cycles

3 sh (may not be repeated for credit)

Prerequisite: CHM 2045/L

The biogeochemical cycles of water, carbon, nitrogen, and sulfur; the atmosphere and oceans as reservoirs and reaction media; the fate of natural and artificial sources of carbon, nitrogen, and sulfur compounds; the interactions among the major biogeochemical cycles and global change; anthropogenic perturbation of the global carbon cycle and climate, greenhouse gases, acid rain and ozone depletion.