

OCP: Physical Oceanography Courses

Courses

OCP 4002 Physical Oceanography

3 sh (may not be repeated for credit)

Prerequisite: PHY 2048/L AND PHY 2053/L

An introduction to concepts in physical oceanography. Topics include: observation of temperature, salinity, density, and currents; wind-driven and geostrophic currents / density-driven circulation; upwelling; surface waves, tides, and internal waves; air / sea interaction; and waves and coastal processes.

OCP 4550 Global Climate Change: Oceanic/Atmospheric Interactions

3 sh (may not be repeated for credit)

Prerequisite: BSC 2311/L AND GEO 3250/L

The role of the world ocean on climate in the present, past, and future. Causes and effects (like sea level change) of natural climate variability on time scales of millions to a few years. Interaction of ocean and atmosphere (greenhouse gases, currents, and wind). Discussions of impact of human activity and of future climate scenarios. Credit may not be received in both OCP 4550 and OCE 4008.