

OC101: Introduction to Ocean Science - Shoreside and Shipboard Versions of the proposed updated course Lab Content

Week (ashore)	Lab	Status	Notes
1	Maps and Charts	C	Worksheet assignment
2	World Oceans Bathymetry and Tectonics	C	Google Earth
3	Use and Interpretation of Tide Tables	C	Global tidal range comparison; tide table calculations
4	Ocean Drifters (Deployment)	C	Field lab: river outflow +/- tidal stage in the Bagaduce estuary
5	Physiology and Taxonomy	C	Macroinvertebrate identification; MMA dock or in wetlab
6	Sound and Light in the Ocean	C	Secchi disk and light meter - MMA dock
7	Storms and Storm Tracking	P	Hurricane Prediction Center - Interpreting Weather Data/Models
8	Storms and Coastal Impacts	P	Wave amplification modeling - Tides + Coastal Storm Surge
9	System Science Perspectives	P	Weather Systems and Major Ocean Currents
10	Ships and the Environment	P	Social Vulnerability Index (SVI) and port air quality (ArcGIS on-line)
11	Ships and the Environment	P	Chlorine Residuals Testing in Drinking Water
12	Ships and the Environment	P	Ballast Water - digital microscopy lab (pre v. post treatment)
13	Ships and the Environment	P	Galvanic Corrosion (12 wk experiment - set up Week 1)
14	DIY Instrumentation	C	ROVs (Campus pool)

Week (at sea)	Lab	Status	Notes
1	Maps and Charts	C	Worksheet assignment
	World Oceans Bathymetry and Tectonics	C	Google Earth
2	System Science Perspectives	P	Weather Systems and Major Ocean Currents
	Use and Interpretation of Tide Tables	C	Global tidal range comparison; tide table calculations
3	Physiology and Taxonomy	C	Phytoplankton and zooplankton identification (neuston tows)
	Ships and the Environment	P	Ballast Water - digital microscopy lab (pre v. post treatment)
4	Sound and Light in the Ocean	C	Secchi disk and light meter - Port stop harbor water quality
5	DIY Instrumentation	P	Spectrophotometer - Port stop harbor water quality
6-7	Ocean Drifters	P	Ocean drifter dataset
	Storms and Storm Tracking	P	Hurricane Prediction Center - Interpreting Weather Data/Models
	Storms and Coastal Impacts	P	Wave amplification modeling - Tides + Coastal Storm Surge
8	Ships and the Environment	P	Social Vulnerability Index (SVI) and port air quality (ArcGIS on-line)
	Ships and the Environment	P	Chlorine Residuals Testing in Drinking Water
9	Ships and the Environment	P	Galvanic Corrosion (9 wk experiment - set up Week 1)

C = Current lab
P = Proposed new lab