

# Marine Studies Enrichment Program

July 13 - July 18, 2014

## Sunday, July 13, 2014

### Evening

- 7:00 Arrival- Dorothy P. Flint Nassau County 4-H Camp Cliff House
- 7:00-8:30 Orientation to facilities and site  
Sleeping quarters assigned  
Introduction to Marine Studies Enrichment Program
- 8:30-9:30 Explore Long Island Sound Shoreline
- 9:30-10:00 Relocate to sleeping quarters
- 10:00-10:30 Journal entries in sleeping quarters

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## Monday, July 14, 2014

### Morning - Low Tide 3:31 pm

- 8:00-8:30 Breakfast – Cliff House
- 8:30-9:00 Transportation to SUNY Stony Brook Southampton Marine Sciences Field Station
- 9:00-12:00 Shinnecock Bay Investigation aboard the research vessel *Peconic*

### Afternoon

- 12:00-12:15 Transportation to Cooper's Beach, Southampton
- 12:15-2:15 Recreational Swim – Cooper's Beach  
Lunch – Cooper's Beach
- 2:15-2:30 Transportation to Shinnecock Inlet, Eastern Jetty
- 2:30-4:30 Seining for aquatic organisms, identification of species  
Rocky Intertidal Investigation – Shinnecock Inlet  
Zonation transect/quadrat study
- 4:30-5:15 Transportation to Cliff House

### Evening

- 5:15-6:15 Prep Time
- 6:15-7:00 Dinner – Cliff House
- 7:00-8:00 Getting to Know You! – Ice Breakers
- 8:00-9:00 Identify and examine Shinnecock Inlet specimens  
Shinnecock Inlet Data: Discussion and Graphing
- 9:00-9:30 Edible Algae
- 9:30-10:00 Journal entries in sleeping quarters

## Tuesday, July 15, 2014

### Morning

8:00-8:30	Breakfast- Cliff House
8:30-10:45	Transportation to East Hampton Town Shellfish Hatchery
10:45-11:45	Hatchery Talk and Tour

### Afternoon

11:45-12:30	Transportation to Gosman's Dock
12:30-1:30	Lunch
1:30-2:00	Transportation to Montauk Point Lighthouse
2:00-3:30	Tour Montauk Point Lighthouse
3:30-4:00	Transportation to Napeague Beach, Hither Hills State Park
4:00-5:30	Napeague Beach, Hither Hills State Park - Recreational swim

### Evening

5:30-7:00	Transportation to Cliff House
7:00-7:30	Dinner- Cliff House
7:30-8:00	Prep time
8:00-9:00	Ocean Acidification: A chemical investigation on the impacts of ocean acidification on shellfish
9:00-9:30	Journal entries in sleeping quarters

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## Wednesday, July 16, 2014

### Morning - Low tide 9:02 am

7:30-8:00	Early Breakfast – Cliff House
8:00-9:00	Transportation to DEC Salt Marsh, Mattituck Inlet
9:00-10:30	Salt Marsh Investigation Transect/quadrat study to investigate the relationship between elevation and the flora and fauna of a salt marsh
10:30-12:00	Invasive Species Study – <i>Hemigrapsus sanguineus</i> population (Asian Shore Crab), plankton collection and seining for fish for fish and shrimp

### Afternoon

12:00-2:00	Lunch at Breakwater Beach District Park Recreational Swim – Breakwater Beach
2:00-3:00	Transportation to Cliff House
3:00-3:45	Prep Time
3:45-4:15	Presentation, "Plankton"
4:15-5:00	Microscopic examination of plankton samples
5:00-5:30	Begin constructing plankton for plankton races
5:30-6:00	Prep Time

### Evening

6:00-7:00	Dinner – Cliff House
7:00-8:00	Plankton Races – Explore form and function as you compete in groups to design a plankton organism best adapted for life in the water column
8:00-9:00	Identify and examine salt marsh specimens Salt Marsh data: Discussion and cooperative graphing
9:00-9:30	Journal entries in sleeping quarters

## Thursday, July 17, 2014

### Morning

7:45-8:15	Early Breakfast- Cliff House
8:15-9:15	Transportation to Shinnecock Park Pier Fishing Site
9:15-10:15	Fishing – Shinnecock Park Pier Fishing Site
10:15-10:30	Transportation to Meschutt County Park
10:30-12:15	Recreational Swim – Meschutt County Park Lunch Meschutt County Park

### Afternoon

12:15-1:00	Transportation to the Long Island Aquarium and The Riverhead Foundation for Marine Research & Preservation
1:00-3:00	Visit Atlantis Marine World
3:00-5:00	Necropsy: Seal anatomy and physiology at The Riverhead Foundation rehabilitation facility Or Behind the Scenes Tours of Atlantis Marine World Aquarium and The Riverhead Foundation

### Evening

5:00-6:00	Prep Time – Cliff House
6:00-6:45	Dinner – Cliff House
6:45-8:00	Fish Dissection: Anatomy, physiology and gut analysis
8:00-9:00	Gyotaku fish printing
9:00-9:30	Journal entries in sleeping quarters

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## Friday, July 18, 2014

### Morning

7:30-8:00	Early Breakfast- Cliff House
8:00-8:30	Prep for departure
8:30-9:00	Program evaluation
9:00	Departure from Cliff House