



The Huntsman Marine Science Centre is located in the busy resort community of St. Andrews by-the-Sea, New Brunswick, Canada. We are less than half an hour's drive from Maine and about an hour from Saint John, NB.

Nearby, you'll discover the diversity of marine mammals, seabirds and invertebrates living in and around the bountiful waters of the beautiful Bay of Fundy—home of the world's highest tides.

The Huntsman is a primary science interface with ocean life. Its aim is to reduce the impact of human activity on the oceans, while optimizing ocean resources. Work at the centre includes research, education and innovation for industry.

Since 1969, the Huntsman has provided teaching and research facilities to over 30,000 summer students. The Huntsman offers students of all ages hands-on experience in field biology through excursions, lab facilities, the Aquarium, and trips on its research vessel, the *Fundy Spray*.

The Huntsman is also home to the acclaimed Atlantic Reference Centre, one of the world's largest repositories of North Atlantic invertebrates and fishes, which is accessed by researchers world-wide.

Registration deadline is one month before start date.

For more information, contact:
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2011 summer programs



for teachers, students and friends



Hands-on Marine Science by the Bay of Fundy

www.huntsmanmarine.ca

Active Researchers - open to all over 15 years old

A first hand experience collecting data for a variety of Huntsman projects

Time	Monday July 11 th	Tuesday July 12 th	Wednesday July 13 th	Thursday July 14 th	Friday July 15 th
<i>High Tide</i>	09:03 6.41m	10:10 6.47m	11:01 6.58m	11:56 6.71m	12:47 6.82m
<i>Low Tide</i>	15:24 1.11m	16:22 1.07m	17:19 0.99m	18:12 0.89m	19:02 0.82m
7:30am		<i>breakfast</i>	<i>breakfast</i>	<i>breakfast</i>	<i>breakfast</i>
8:30am	Tentative Schedule	Invasive Invertebrates make crab traps set from shore and wharf	Field Trip: Huntsman Boat Wildlife Surveys seabird islands, seals colonies, whale locations (4 hours)	Huntsman Aquaculture Projects	Field Trip: Bird Banding Seabird survey shore Wrap Up
12:00		<i>lunch</i>	<i>late lunch</i>	<i>lunch</i>	<i>lunch</i>
1:00pm	Arrive - Register Introduction Field Trip: Indian Point Intertidal Zone	Field Trip: Invasive Species Survey	Workshop: Follow-up Survey Results Lab: Plankton	Field Trip: Biodiversity Transect	Depart
5:30pm	<i>supper</i>	<i>supper</i>	<i>supper</i>	<i>supper</i>	
6:30pm	Lab: Intertidal Invertebrates	Workshop: Prep for Boat Trip	Open	Questions	
<i>overnight</i>	<i>Huntsman</i>	<i>Huntsman</i>	<i>Huntsman</i>	<i>Huntsman</i>	

All-inclusive course fee: \$590 (inquire about family rates)

A fun, yet practical hands-on introduction to current research projects. You will assist with real time baseline data collection for a number of on-going projects and have an opportunity to work alongside Huntsman scientists. The different research techniques and methods that you will learn about should be transferable to your school work. It is not always serious stuff!

You'll learn about - and work on:

- invasive species, such as tunicates & green crabs
- invertebrate biodiversity
- seabird, whale, and seal surveys
- aquaculture issues
- bird-banding mark/recapture techniques

Marine Biodiversity — first dibs to teachers

A hands-on introduction to marine life

Time	Monday July 25 th	Tuesday July 26 th	Wednesday July 27 th	Thursday July 28 th	Friday July 29 th
<i>High Tide</i>	08:05 5.67m	09:00 5.75m	09:52 5.93m	10:44 6.20m	11:33 6.52m
<i>Low Tide</i>	14:21 1.93m	15:14 1.85m	16:07 1.66m	17:00 1.37m	17:50 1.05m
7:30am		<i>breakfast</i>	<i>breakfast</i>	<i>breakfast</i>	<i>breakfast</i>
8:30am	Tentative Schedule	Lab: Our Catch Invertebrates Tour: Aquarium	Field Trip: Huntsman Boat whales, seals, seabirds and subtidal creatures (4 hours)	Lab: Our Catch Echinoderm Behaviour Presentation: Biodiversity Corridor	Tour: Atlantic Reference Centre Wrap Up
12:00		<i>lunch</i>	<i>late lunch</i>	<i>lunch</i>	<i>lunch</i>
1:00pm	Arrive - Register Introduction Field Trip: Indian Point The intertidal ecosystem	Field Trip: Pottery Creek A flat muddy seashore	Lab: Our Catch Plankton Workshop: Seabirds	Talk: Invasive Species Field Trip: Invasive Species Survey	Depart
5:30pm	<i>supper</i>	<i>supper</i>	<i>supper</i>	<i>supper</i>	
6:30pm	One Ocean	Talk: Fundy Whales	Open	Ideas	
<i>overnight</i>	<i>Huntsman</i>	<i>Huntsman</i>	<i>Huntsman</i>	<i>Huntsman</i>	

All-inclusive course fee: \$590 (inquire about spouse rates)

There is no better outdoor marine classroom than the Canada's own Bay of Fundy. Twice a day the tide at the mouth of the Bay rise and fall eight meters stirring up nutrients that have drifted to the ocean floor. Join us as we explore this unique and diversity environment. What we catch and collect is what we will study! Time is also set aside to share ideas on how to adapt our marine examples to your own classroom.

Discover:

- the intertidal zone and its inhabitants
- local seashores and the water's edge
- how to identify marine creatures
- the diversity of natural ecosystems
- how what you see ties in with the science curriculum

Fee includes: 4 night dormitory accommodation, all meals shown on schedules, boat and lab fees, admissions, taxes. **You just need to find your way to the Huntsman in St. Andrews!!**