



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 32,000 summer students. The Huntsman offers students of all ages hands-on experience in field biology through excursions, lab facilities, the Fundy Discovery 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.

**** Check for Early Bird Registration Specials****

For more information, contact:
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2012 summer programs



for teachers, students and friends



Hands-on Marine Science by the Bay of Fundy

www.huntsmanmarine.ca

Marine Biology - For young active minds

A first hand experience collecting data for a variety of Huntsman projects
Open to students 15 to 18 years old

Time	Monday July 9 th	Tuesday July 10 th	Wednesday July 11 th	Thursday July 12 th	Friday July 13 th
Low Tide	11:08 0.68m	12:00 0.99m	12:54 1.29m	13:49 1.55m	14:44 1.74m
High Tide	17:14 6.84m	18:08 6.64m	19:04 6.46m	21:00 6.31m	20:55 6.23m
7:30am		breakfast	breakfast	breakfast	breakfast
8:30am	Tentative Schedule	Lab: Invertebrate Who's who	Field Trip: Huntsman Boat	Lab: Fish Form and Function	Lab: Invertebrate Behaviour
		Presentation: Invasive Invertebrates	Scallop drag Fish trawl (3 hours)	Tour: Aquaculture	Wrap Up
12:00		lunch	lunch	lunch	lunch
1:00pm	Arrive - Register	Field Trip: Pottery Creek Invasive species survey	Field Trip: Bar Road Biodiversity Worms are winners	Tour: ARC	Depart
	Introduction			Workshop: Art / Biology connections	
	Tour: Discovery Aquarium				
5:30pm	supper	supper	supper	supper	
6:30pm	Lab: Plankton	Lab: Echinoderms	Open	T-shirts	
overnight	Huntsman	Huntsman	Huntsman	Huntsman	

All-inclusive course fee: \$610 - if you register before May 9th; Regular Fee \$670

A fun hands-on introduction biology and some local 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 -

- * invertebrate biodiversity
- * invasive species, such as green crabs and pancake tunicates
- * local coldwater fish species
- * aquaculture pros and cons
- * connections between art and biology

All Things Marine - A cross-curricula maritime institute

with connections between biology, art, history, culture, cooking + more
Open to teachers and friends

Time	Monday July 16 ^h	Tuesday July 17 ^h	Wednesday July 18 th	Thursday July 19 th	Friday July 20 th
High Tide	11:01 5.91m	11:41 6.06m	12:18 6.27m	12:57 6.51m	13:36 6.75m
Low Tide	17:10 1.74m	17:51 1.58m	18:31 1.36m	19:12 1.11m	
7:30am		breakfast	breakfast	breakfast	breakfast
8:30am	Tentative Schedule	Field Trip: Huntsman Boat	Workshop: Art - Biology Connections	Amazing History Race	Tour: Aquaculture
		The subtidal and offshore environment (3 hours)		St. Andrews Farmers Market	Wrap Up
12:00		lunch	lunch	lunch	lunch
1:00pm	Arrive Register	Lab: Our Catch Phylum	Tour: Fundy Discovery Aquarium	Talk: Invasive Species	Depart
	Introduction			Field Trip: Pottery Creek Invasive Species Survey	
	Field Trip: Indian Point The intertidal ecosystem	Workshop: Cooking 101	Field Trip: Bar Road A muddy seashore		
5:30pm	supper	supper	supper	supper	
6:30pm	One Ocean	Lab: Our Catch Plankton	On the Town	Field Trip: Bird Banding	
overnight	Huntsman	Huntsman	Huntsman	Huntsman	

All-inclusive course fee: \$610 - if you register before May 16th; Regular Fee \$670

There is no better maritime outdoor classroom than 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 environment and the diversity of life it supports. What we catch and collect is what we will study, draw, print and cook! Time is also set aside to share ideas on how to adapt our marine examples to your own classroom.

Discover:

- * the diversity of local ecosystems and their inhabitants
- * invaders new and old
- * St. Andrews by-the-sea past and present
- * ties to different levels of 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!!**