



History, Mystery and Eco Systems
An Outer Banks Itinerary for a Student Field Trip
(includes Cape Hatteras National Seashore)

Day One

Afternoon arrival to the Outer Banks of North Carolina

2:30pm Wright Brothers National Memorial, See where on a cold day in December, 1903 Wilbur and Orville Wright changed the world forever as their powered airplane, the "Wright Flyer", skimmed over the sands of the Outer Banks for 12 seconds before returning to the ground. New Welcome Center with interactive exhibits recently opened in late Fall of 2018. [Click here for the student waiver form.](#)

Address: 1000 N. Croatan Hwy, MP 7.5 HWY 158, Kill Devil Hills, 27948; 252.441.7430.

Check in to an oceanfront hotel, to be determined



6:00pm Dinner at one of our locally owned student friendly restaurants



Evening activity at the North Carolina Aquarium on Roanoke Island

Visiting the aquarium after hours with your school is a great way to bring education alive. The NC Aquarium offer several opportunities for your students to learn more about marine environments after we close our doors. Programs include a self-guided tour through coastal freshwaters to see river otters, turtles, American alligators, touch tanks, the sea turtle assistance and rehab center and the 285,000 "Graveyard of the Atlantic" tank containing a one-third scale replica of the USS

Monitor. In addition, staff will present a live animal demonstration in the Neptune Theatre. This is a fee based program. Address: 374 Airport Road Manteo, 27954; 252.475.2327

Day Two (Please note this will be a long day!)

Today's journey will be a long day as you travel through the Cape Hatteras National Seashore Highlights will be the Bodie Island Lighthouse, Chicamacomico Life Saving Station, Cape Hatteras Lighthouse, Graveyard of the Atlantic Museum.

9:15am Bodie Island Lighthouse

Completed in 1872, this Lighthouse sits on the north side of Oregon Inlet near the northern border of the Cape Hatteras National Seashore. The familiar black and white horizontal striped structure was partly built of materials leftover from the construction of the newest Cape Hatteras Lighthouse. Standing 156 feet tall and equipped with a first-order Fresnel lens, it flashes its 160,000 candlepower beacon 19 miles over the ocean. Free admission to the grounds; the lighthouse is now open for climbing, minimal fee to climb. Address: 8210 Bodie Island Lighthouse Road Nags Head, 27959, 252.441.5711



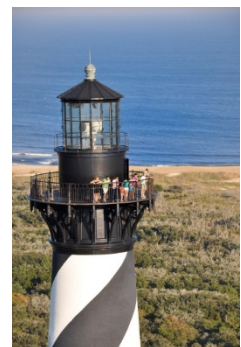
10:00 am Chicamacomico Life Saving Station (1 hour)

A predecessor to the US Coast Guard, Chicamacomico is one of the most complete US Lifesaving Station sites in the nation, see historic buildings and a boathouse that housed the service that was the predecessor to the United States Coast Guard. Hear the history of daring ocean rescues by brave men who dedicated their lives to the sea. **Activity:** Interpretive talks such as America's Forgotten Heroes, the men of the lifesaving station
Address: 23645 NC HWY 12, Rodanthe, NC 27968; 252-987-1552

11:45am Visit the Cape Hatteras Lighthouse (1 hour)

See tallest brick beacon on the American coast with its black and white stripes, it stands at 208 feet high. Learn the marvelous history, which includes its half-mile move in 2000 away from the ocean. Admission to the grounds are complementary; however there is a minimal cost to climb.

Address: 46368 Lighthouse Rd Buxton, 27920, 252.473.2111



Picnic Lunch on the grounds of the Cape Hatteras Lighthouse



1:30pm Arrive at the Hatteras-Ocracoke Ferry Terminal. Before getting in line, visit the Graveyard of the Atlantic Museum. Located at the ferry docks, a unique museum dedicated to preserving and interpreting the rich maritime history of the Outer Banks and the more than 2,000 known shipwrecks that rest of our coast. See cannons from Blackbeard's Queen Anne Revenge, an Enigma machine from the U-85, ship models and many other artifacts. Activity: Behind the scenes tour of artifacts not seen by the public. Address: 59200 Museum Drive, Hatteras, 27943; 252-986-2995

4:00pm Jockey's Ridge State Park (1½ hrs) View the tallest living sand dunes on the East Coast. Learn how these shifting sands move with the wind at the visitor's center/museum. There are three self-guided trails in the park that discuss the 3 ecosystems of Jockey's Ridge. Address: 300 Carolista Drive, Nags Head, 27959; 252.441.7132



Group Dinner at one of our student friendly restaurants.

Return to your oceanfront hotel

7:30pm Return to your hotel for a DJ and Dance or check out OBX Bowling Center.

OBX Bowling Center invites you to all the fun and excitement our Nags Head bowling alley has to offer. The recently updated arcade and cafe are stocked with goodies like everyone's favorite...Pizza! For more information on availability and pricing visit www.obxbowlingcenter.com

Day Three

9:00am Jennette's Pier, Nags Head, This state-of-the-art, LEED certified, 1,000-foot concrete pier features green technologies like wind turbines. The one-of-a-kind educational ocean pier features top-notch educational programs.

Current Programs offered at Pier:

- **Wonders of Wind:** In this program students learn how to harness energy from the wind, advantages and disadvantages of wind energy, the importance of clean wind and ideal locations to install wind turbines to maximize energy output. Through construction of their own "turbine" and discussions about alternative energy, participants in this program gain an understanding of how this technology works and its importance for future energy generation.
- **Solar Science:** Discover and discuss solar power as an energy resource. Students design, build and evaluate a solar device and discover how solar panels maximize efficiency.
- **Intertidal Explorations:** Students discover all the various types of animals that call the intertidal zone home.
- **Plankton Investigations:** Students learn how to use scientific instruments and discover the microscopic organisms that are vital to the marine food chain.
- **Ocean Currents and Upwellings:** Students discover how convection currents work and why they are important in a marine ecosystem.
- **Pier Fishing 101:** Learn the basic skills necessary to catch a fish.



Pier Address: 7223 S. Virginia Dare Trail, MP 16.5 Beach Road, Nags Head, 27959;
Jennette's Pier Education Coordinator: Christin Brown, 252.255.1501

Picnic lunch at Jennette's Pier.



12:45pm Roanoke Island Festival Park Downtown Historic Manteo
 Here you will see the *Elizabeth II*, a 69-foot sailing vessel representative of those sailed to the New World in 1585. Also we will visit the Roanoke Island Adventure Museum and Settlement Site where you can see what life was like for those early explorers as they arrived on Roanoke Island.
 Address: 1 Festival Park, Manteo, 27954; 252.475.1500

2:15pm North Carolina Aquarium on Roanoke Island, Journey through coastal freshwaters to see river otters, turtles, and American alligators. Explore saltwater habitats from grass flats to Gulf Stream waters. Gently stroke a stingray or touch a hermit crab at the touch tanks. Watch fish and sharks cruise by the 35-foot long viewing window of the 285,000-gallon "Graveyard of the Atlantic" tank containing a one-third scale replica of the USS Monitor. Make sure to check out the new interactive exhibit called "Operation Sea Turtle Rescue."

Address: 374 Airport Road Manteo, 27954; 252.473.3494



Depart the Outer Banks for your homeport!

The below additional activities and attractions can also be added to the above itineraries:

Kitty Hawk Kites, offers a wide array of group activities and group receptive services. From Hang Glide over sand dunes, wild horse safari's, dolphin tours, photo booth rental, rock wall climbing, free stunt kite lessons, kite making workshops, kite boarding, kayak eco-tours and rentals, jet ski rentals and tours, parasailing, dolphin jet boat tours, surfing lessons and more. Kitty Hawk Kites, Bypass, across from Jockey's Ridge Nags Head, 27959 252.441.4124, 877.359.8447; group_sales@kittyhawk.com

Alligator River National Wildlife Refuge, 150,000 acres of wetland habitats and a wide variety of wildlife, ranging from wood ducks and alligators to black bears and red wolves. Plant species, including Atlantic white cedar, bald cypress, wildflowers and shrubs, are abundant. Visitors will find hiking and wildlife trails, observation platforms, fishing areas and kayaking and canoeing routes. Activity: Red Wolf Howlings (only offered on certain days),

Guided Tram Tours through the refuge, guide canoe trips

Address: Milltail Road Manns Harbor, 27953, 252.473.1131

Island Farm, living history site interpreting daily life on Roanoke Island in the mid-1800s. Living on the bounty of the surrounding waters while working the land to feed their families, islanders were independent and enterprising. Activity: Children's 19th-Century Toys and Games, Blacksmithing

Address: Highway 64 Manteo, 27954, 252.473.6500

UNC Coastal Studies Institute, offers a variety of engaging K-12 programs that align with the NC Essential Standards, and also relate to the research of scientists at UNC-CSI. These programs are available for any school, and can be scheduled throughout the year. Program contact: David Sybert dmsybert@csi.northcarolina.edu;
 Address: 850 NC 345, Wanchese, NC 27981, 252.475.5400



Pea Island National Wildlife Refuge, located on the north end of Hatteras Island, the nearly 6,000 acre refuge has a welcome center located seven miles south of Oregon Inlet. Hundreds of species of migrating birds have been spotted within the 13 mile span. From the spring to autumn, a large variety of wading, shore and upland birds can be seen. **Activity:** Bird Walks, Pea Island Canoe Tour, Birds and Their Adaptations at Pea Island National Wildlife Refuge, Turtle Talk, what's the difference between land and sea turtles
Phone: 252. 987.2394; 252.987.1118

Nor'Banks Sailing Center, located just north of Duck, offers group options for stand up paddleboards, kayaking, waverunners, parasailing, sailing competitions. Can also set up friendly competitions as well. Nor'Banks Sailing Center, Address: 1314 Duck Road, Duck, NC 27949, 252.261.2900; <http://www.norbanks.com>

Currituck Beach Lighthouse at Currituck Heritage Park Visit the only lighthouse in North Carolina that is still housed in its original structure. Built in 1874 this lighthouse stands 158 feet tall.
Address: 1101 Corolla Village Road Corolla, 27927, 252.453.8152

Capt. Johnny's Dolphin Watch, See the most respected aquatic mammal in its natural habitat. Breathtaking views are all around you on this tour. Our large viewing areas offer everyone a good spot. Each vessel is covered for sun protection with a restroom on board and Coast Guard inspected.
Address: Queen Elizabeth Street Manteo, 27954, 252.480.9151, 252.473.1475, 866.473.1475

Corolla Outback Adventures: On our Outer Banks wild horse tours, ride into our "Outback" area past the road's end, traversing several refuge areas and sanctuary sites like the Wild Horse Estates Conservation easement. Along the way we often see a variety of shore birds and other wildlife and of course our Colonial Spanish Mustangs! Learn the history and local lore discovering what makes this wild part of the Outer Banks unlike any other place on earth, interpreted by Corolla's most experienced guide service.
Contact: Jay Bender; 252-453-4484, info@corollaoutback.com

