

# Bay Studies 2018

First and second year students begin with foundational learning experiences that provide direct contact with the Chesapeake Bay. Students then progress into immersive experiences with a specific curriculum focus. Third and fourth year students participate in seminar-style programs that reach beyond the Bay and connect with professional disciplines.

## Foundation Trips (First and Second Year Students)

**CBF's Fox Island**— This program, led by the Chesapeake Bay Foundation, takes students to study and stay in a restored hunting lodge, perched on the marsh. Students research and experience the Bay first hand. Day trips on Monday and Friday introduce students to the parameters by which Bay health is measured. **Away overnight Tuesday - Thursday. Difficulty: 3 Comfort: 3**

**Echo Hill**— How have boats been used to travel and fish the Bay? What is the state of the Chester River watershed? With the past as perspective, students will explore Chesapeake's natural/human history and culture during a four night overnight stay on board the Annie D. and the skipjack Elsworth. **Away overnight Monday -Friday Difficulty: 2 Comfort: 4**

**Ecology of the Bay** -- Learn and experience the Chesapeake Bay through a variety of day trips in the region. Students will sail on CBF's skipjack, paddle with Chesapeake Bay Environmental Center, and complete a service project on the Eastern Shore. Students finish the week understanding how the health of the Bay is assessed. **Day trips Monday - Friday Difficulty: 2 Comfort: 1**

**Sultana Projects**— Get excited about this mixed days and overnights kayaking trip through several scenic, undeveloped tidal tributaries of our Chesapeake region. Students finish the week understanding how the health of the Bay is assessed and experience the Bay firsthand on the two-night, three-day overnight camping trip at the end of the week. **Away overnight Wednesday-Friday Difficulty: 3 Comfort: 4/5**

**CBF's Karen Noonan** -- Led by the Chesapeake Bay Foundation, this program will take students to Bishops Head in Maryland's Blackwater National Wildlife Refuge to learn about the natural history and ecology of this remote area. Students research and experience the Bay first hand. Day trips on Wednesday and Thursday introduce students to the parameters by which Bay health is measured and the importance of forest in protecting the Bay. **Away overnight Sunday-Tuesday Difficulty: 3 Comfort: 3**

## Investigative Trips (Second and Third Year Students)

**Iron Chef, Chesapeake** - Food production and farming are critical parts of our local environment. This year's focus is on the culinary side of the farm to table trend. Be ready to tromp through fields

and carry the harvest to the kitchen! Through this experience, students will learn basic cooking skills, cook on a daily basis, and focus on local farms and restaurants around the Chesapeake. **Day trips** **Difficulty: 1/2** **Comfort: 1**

**Mission to Chesapeake Bay** -- Explore the Chesapeake Bay from above and from below. Students will design, build, and launch rockets with cameras to explore our environment from the sky. They will also have an opportunity to build ROVs (remotely operated vehicles) with sensors to explore the underwater environment. Together, these two projects introduce the students to studying the Chesapeake Bay environment using remote sensing device. **Day trips**

**Difficulty: 1** **Comfort: 1**

**Williamsburg and Jamestown** — Calling all history buffs! The Chesapeake Bay is rich in history stretching from pre-European settlements to current events. Students will travel Jamestown and Williamsburg, Virginia to explore the initial European settlements, a perfect match to US History classes. **Away overnight Tuesday - Thursday** **Difficulty: 2/3** **Comfort: 2/3**

**Fish Biology of Chesapeake Bay Tributaries** -- Head up the Bay for a week of tent camping, canoeing, and fishing. Students research and experience the Bay first hand. Students finish the week understanding the variables that affect the diversity and abundance of fish in freshwater rivers. **Away overnight Monday -Friday**

**Difficulty: 4** **Comfort: 5**

**Make/Do, the hipster artisan revival** -- The Eastern Shore is home to a thriving artisan community that is deeply connected to the Chesapeake Bay. During this week students will visit several makerspaces and have the opportunity to work with clay, metal, wood, and paper, completing an innovative portfolio. **Day trips**

**Difficulty: 1** **Comfort: 1**

## **Advanced Program Offerings (Third and Fourth Year Students)**

**Environmental Cinematography** - Calling all filmmakers and photographers who have an interest in the environment, natural history and the outdoors. Learn how to use cinematography to tell a compelling story with a strong environmental theme. You will work with professional photographers to hone your eye and produce a portfolio of work. **Day Trips**

**Difficulty: 2** **Comfort: 1**

**Islands Out of Time with CBF**— Offered in partnership with the Chesapeake Bay Foundation and based from Tangier or Smith Island, students will investigate the threat of sea level rise tied to climate change. From glacial rebound to the impact of a meteor strike millions of years ago to melting glaciers, factors affecting water levels in the Chesapeake Bay are complex and dynamic. Students will engage in hands-on investigations, real world simulations, and utilize digital mapping software to understand the impact of sea level change. **Away overnight Saturday-Monday, ends on Wednesday**

**Difficulty: 3      Comfort: 4**

**Philosophy of Nature** -- American literary greats were inspired by their time in nature and created the transcendentalist movement. Spend three days immersed in nature as you backpack along the Appalachian Trail and go spelunking in the Chesapeake watershed karst region. **Away overnight Monday-Thursday**

**Difficulty: 5      Comfort: 5**

### **Comparative Watershed Trips**

**Narragansett Bay** -- The Narragansett Bay shares our “Save the Bay” slogan but what else does it share? Students will compare and contrast the issues facing this analogous system during the weeklong trip to Rhode Island. Students will stay on Prudence Island at the Narragansett Bay National Estuarine Research Reserve and have the opportunity to visit Brown University. **Away overnight Sunday-Friday**

**Difficulty: 3      Comfort: 4**

**Everglades** -- A river of grass flows across the southern tip of Florida and creates a unique and rich ecosystem. Students will kayak and camp in the mangroves that form the boundary between land and sea before traveling to Miami to work with the Miami Riverkeeper to understand the threats to Biscayne Bay and see how Miami and Miami Beach are grappling with sea level rise. **Away overnight Sunday-Saturday.**

**Difficulty: 5      Comfort: 4/5**