

## Emerald Bay Outdoor Academy

### 4-Day Program Planner

At Emerald Bay we want to make sure we provide you with the best possible experience. To do this, we ask for your help in advance of your arrival. Please complete the following trip planner and sign the statement of understanding before returning it to us by email. We will contact you before your arrival to confirm all the details.

#### Group Info

School Name: \_\_\_\_\_

Grade Level: \_\_\_\_\_

Number of female youth: \_\_\_\_\_

Group Leader: \_\_\_\_\_

Number of male youth: \_\_\_\_\_

Group Leader Email: \_\_\_\_\_

Number of female adults: \_\_\_\_\_

Group Leader Cell Phone Number: \_\_\_\_\_

Number of male adults: \_\_\_\_\_

#### **See below for course descriptions**

<b>Core Courses (Students will do all 3)</b>
Island Biogeography
Environmental Stewardship
Kelp Forest Exploration Choose your Kelp Forest Exploration Activity: ___ Snorkel ___ Kayak ___ Paddleboard

<b>Choose a Lab</b>	
Ichthyology Lab (Fish Dissection)	Microplastics Lab
Plankton Lab	Climate Change Lab

<b>Choose 4 additional Daytime Courses &amp; Activities</b>	
Archery	Arrow Point Hike
Marine Invertebrates & Intertidal Zonation	Additional Water Activity: ___ Snorkel ___ Kayak ___ Paddleboard
Team Building	2-Session All-School Hike to Parson's Beach <b>(Choose one less course total)</b>
Do It Yourself Course (Chapel, School time, etc): _____	

<b>Choose 3 Night Courses &amp; Activities</b>	
Movie Night	Campfire and S'mores
Astronomy	Nocturnal Wonderland
Dance Party	

Other comments or things we should know about your group?

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Please note the following responsibilities for the Trip Coordinator:

- Follow all Chaperone Expectations listed on the Adult Waiver Form, as well as the additional items below.
  - Assign students into Cabin Groups of 8 (male/female separate) and Animal Groups of two combined cabins. Assign each Animal Group a Catalina Native Animal from the list provided [here](#).
  - Document which students passed the Float Test and ensure only those who passed the float test participate in wet courses.
  - Emerald Bay will respect and adopt the school's policy regarding use of electronic devices. However, Emerald Bay does not assume responsibility for lost, damaged, or stolen property.
  - Alcoholic beverages and/or their consumption are not permitted at any time while staying at Camp Emerald Bay.
  - Smoking is only permitted in designated areas and only by adult chaperones.
  - Taking photographs should not interfere with courses. During courses, candid photos are permitted however courses should not be interrupted for posed photographs. Posed photos can be arranged outside of course time and the staff will be happy to help facilitate.
  - Communicate any needs or potential issues to the Program Director. These may include but are not limited to: youth health or behavioral issues, youth conflicts, schedule or program issues, and staff concerns.
  - Fill out the [Special Request form](#) for dietary or medical needs.
  - Assist Naturalists with making sure students are following COVID mitigation policies.

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Signature

Date

## ***EBOA FALL 2022 COURSE OFFERINGS***

### **Core Courses**

#### **Island Biogeography**

With over 60 species of plants and animals that can only be found on the island, Catalina provides the perfect backdrop to explore the unique and isolated ecosystems of islands. Students will examine how and why species ended up on the island, how they have adapted to living in their new homes, and how disturbance from humans or foreign pests can pose a significant threat.

#### **Environmental Stewardship**

Even though we may not see it, our daily lives are increasingly taking their toll on the natural world. Students will participate in a conservation project to benefit Catalina Island, learn about the benefits of composting food waste, and brainstorm proactive ways they can reduce their impact and be environmental stewards at home and in their communities.

#### **Kelp Forest Exploration**

One of the world's most productive and diverse habitats, Giant Kelp beds are home to diverse and thriving communities of fish, invertebrates and algae. Students will visit the Pennington Marine Science Center to become familiar with local kelp forest species in the aquariums and touch tanks, learn about unique structures of kelp and the conditions in which it thrives, and will explore the kelp forests of Emerald Bay on a kayak, paddleboard, or snorkel trip.

### **Daytime Courses and Activities**

#### **Ichthyology Lab**

Globally, fish provide food for more than 1.5 billion people each year, but most people have never seen a fish in the wild. In the class, students will identify features and adaptations during a sketching and dissection session.

#### **Plankton Lab**

They may be microscopic, but phytoplankton are responsible for producing up to 50% of Earth's oxygen. Students will learn how scientists collect plankton from the ocean, will examine and identify plankton under a microscope, and will design their own plankton in a neutral buoyancy competition.

## **Microplastics Lab**

Working its way up the food chain at alarming rates, microplastics are filling the guts of fish, birds, marine mammals, and even humans. Students learn about the different types of plastic, will collect their own samples of sand from the beach to look for microplastics and explore their samples under a microscope, and brainstorm what they can do to reduce plastic waste and make a positive difference for our oceans.

## **Climate Change Lab**

Is the world really getting warmer or is the Earth just going through a natural cycle? Students will learn about heat capacity and complete a lab on greenhouse gases to determine their effect, if any, on climate.

## **Archery**

Archery is about focus and concentration. At the archery range students will exercise their growth mindset while practicing and improving skills under the supervision of the range commander.

## **Arrow Point Hike**

Enjoy incredible views of the land and sea on a 1.5 mile hike to Arrow Point. The Arrow Point hike offers students a manageable challenge while practicing growth mindset. Student curiosity is sparked as we observe wildflowers, birds, animals, and more!

## **Team Building**

In their Animal Groups, students will be challenged to communicate and collaborate with each other in increasingly difficult activities.

## **Ocean Invertebrates & Intertidal Zonation**

When land meets sea, the changing tide creates dynamic intertidal zones, one of the harshest environments. Taught on the beach in Doctor's Cove and at the Pennington Marine Science Center, students observe first-hand how ocean invertebrates have adapted to survive life on the edge.

## **Additional Water Activity (4- & 5-Day Programs Only)**

Students will apply a growth mindset as they learn a new skill of snorkeling, paddleboarding, or kayaking in and around Emerald Bay while observing local wildlife above and below the surface of our crystal-clear water.

## **2-Session All-School Hike to Parson's Beach (4- & 5-Day Programs Only)**

Longer programs offer the option to explore more of Catalina! Naturalists will lead students in a 2 ¼ mile round trip hike to Parson's Beach to learn more about the native

ecosystems of Catalina Island, enjoy a beach snack and build kelp forest ecosystem models using found materials.

## Night Courses & Activities

### **Astronomy**

Since the dawn of man, humans have been captivated by the vast unknown that fills the night sky. Students will model the phases of the moon, learn how to use a planisphere to identify constellations, and take a short hike to observe the night sky.

### **Nocturnal Wonderland**

Catalina Island leads a double life. Students will investigate why some animals wait for sundown to emerge and will go on the hunt to locate some of our nocturnal neighbors around camp while participating in activities that help them learn about nocturnal adaptations.

### **Campfire & S'mores**

Our staff will build your campfire and provide the ingredients for S'mores. From there, your campfire is your time to enjoy with your school however you would like - performing skits, singing songs, sharing stories, or reflecting on your time at Emerald Bay.

### **Dance Party**

For those schools with students that like to let loose, we will set up a dance party in the dining hall with student-appropriate music.

### **Movie Night**

After a long day of exploring Catalina Island, allow your students to kick back and enjoy a movie. We will provide a family friendly DVD or feel free to bring your own.