

## 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: \_\_\_\_\_

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

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

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

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

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

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

For course descriptions, see below or visit: [www.emeraldbayoutdooracademy.org/course-descriptions](http://www.emeraldbayoutdooracademy.org/course-descriptions)

<b>Core Courses</b>	
<i>Students will do all 3</i>	
Orientation	
Activity Block	
Stewardship: Every Day is Earth Day	

**Choose 6 total courses from Wet, Dry and Labs.**

<b>Wet Courses</b>	<i>Recommended 3</i>		
		Come Fly with Me (Ornithology)	What'SUP? (Stand Up Paddleboards)
		The Rainforests of the Sea (Kelp Forest Ecology)	Swim with the Fish! (Snorkeling I)
		Do You Know the Way to Emerald Bay? (Ocean Kayaking)	Get to the Point: Snorkel Around Doctor's Point (Snorkeling II) *must do Snorkel I*
<b>Dry Courses &amp; Labs</b>	<i>Recommended 3</i>		
		Island Biogeography: A Whole New World	Take a Walk on the Wild Side (Hike)
		Seeds of Life (Botany)	Team Building: Better Together
		Sanctuaries in the Sea (Marine Protected Areas)	Bones Are Overrated (Marine Invertebrates)
		Living on the Edge (Intertidal Zonation)	
		Take a Deep Breath. You Can Thank Plankton for That! (Plankton-Lab)	Let's Get SoFishticated! (Ichthyology-Lab)
		Would You Like Microplastic with That? (Microplastics-Lab)	Is It Me or Is It Warm in Here? (Climate Change-Lab)

**Choose 3 total courses from Group and Night Experiences.**

<b>Group and Night Experiences</b>	Movie Night
	Ready for S'more Fun? (Campfire and S'mores)
	Earth: An Island in The Night (Astronomy)
	Creatures of the Night (Nocturnal Wildlife)
	The Cove Has Eyes: Night Snorkel (Snorkeling II) *must do Snorkel I*

Other comments or things we should know?

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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 2022 COURSE OFFERINGS***

All Courses are 2 hours unless otherwise noted

\* Denotes a Core Course in which all groups participate

### **Core Courses (3)**

#### **\* Orientation & Arrival Day Activities (2-4 Hours)**

During orientation on Day 1, students will take a tour of camp, visit the Pennington Marine Science Center, complete their float test, learn how to put on a wetsuit, get briefed on camp safety, and meet with their Animal Groups for some team building!

#### **\* Stewardship: Every Day is Earth Day**

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 and learn ways to be proactive at home and in their communities to reduce their impact on the environment.

#### **\* Activity Block**

This afternoon session gives students the opportunity to choose their own activity. Depending on school size, we will offer between 2-4 activities including a hike, paddleboarding, arts & crafts, and archery.

### **Wet Courses (5)**

#### **Do You Know the Way to Emerald Bay? (Ocean Kayaking)**

Sit back and enjoy the view as you take up a paddle and tour the bay. We provide single person kayaks, a knowledgeable naturalist, and a PFD. The tour will cover the basics of Marine Protected Areas, Kelp Forests and Ornithology, and is a perfect option for schools visiting for a shorter amount of time and can't do each of those courses individually.

#### **Swim with the Fish! (Snorkeling I)**

You've explored all we have to offer above the water, now explore the world below the water. Students are provided with snorkels, masks, fins, and a wetsuit, for a guided adventure in Doctor's Cove. Bring your courage and curiosity to explore!

#### **Come Fly with Me (Ornithology)**

Have you ever wished you had a pair of wings? Students will kayak through the bay with a special focus on viewing our local birds such as the Pelican, Cormorant, and more to discover what makes our diverse group of avian friends so exceptional.

### **The Rainforests of the Sea (Kelp Forest Ecology)**

One of the world's most productive and diverse habitats, Giant Kelp beds are home to diverse and thriving communities of fish, invertebrates and understory algae. Students hop on a kayak or paddleboard to combine adventure and learning while exploring kelp, its life cycle, and the conditions in which it thrives.

### **Get to the Point: Snorkel Around Doctor's Point (Snorkeling II) (4-5 day trips only)**

For groups that completed Snorkeling I, take your adventure to the next level with a guided snorkel trip around Doctor's Point. You'll begin along the sandy bottom of Emerald Bay, swim along the kelp and cliffs of Doctor's Point, and finish in Doctor's Cove. Total swim distance is approximately ¼ mile and is recommended for confident snorkelers.

## **Dry Courses (7)**

### **Island Biogeography: A Whole New World**

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. **Note:** this course includes a hike and depending on the comfort level of the group, can be either 1 or 2 miles long.

### **Seeds of Life (Botany)**

Life's pretty tough when everything's out to eat you. Despite this, plants have learned to adapt and endure all over the globe. In the session, students investigate how plants have learned to adapt to dry, fire-prone conditions and how they have responded to life without pressures from grazing animals.

### **Sanctuaries in the Sea (Marine Protected Areas)**

The Marine Protection Act helps conserve biological diversity, provide a sanctuary for marine life, and enhance recreational and education opportunities. We explore how MPAs accomplish this and how they are effective through discussion, games, and views of our local MPA.

### **Living on the Edge (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 life has adapted to survive life on the edge.

### **Bones Are Overrated (Marine Invertebrates)**

Often overlooked, invertebrates, although spineless, are the backbone of marine ecosystems and food webs. In this class, students discover what makes invertebrates so important and unique in the unparalleled setting of our Marine Protected Area and the touch tanks of the Pennington Marine Science Center.

### **Take a Walk on the Wild Side (Hike)**

For those looking for an adventure off the water, our naturalists will lead a hike that sparks student curiosity as we observe wildflowers, birds, bison and more! Hikes range from easy to hard, we have it all.

### **Team Building: Better Together**

After a fun icebreaker, students will be divided into teams for various interactive team challenges. Students will be challenged to communicate and collaborate with each member of the team in order to complete the task.

## **Labs (4)**

### **Take a Deep Breath. You Can Thank Plankton for That! (Plankton)**

They may be microscopic, but phytoplankton are responsible for producing up to 50% of Earth's oxygen. Students collect their own plankton from Emerald Bay, identify and discuss the different groups, talk about their importance for life on Earth, and examine them up close in our plankton lab.

### **Let's Get SoFishticated! (Ichthyology)**

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 work closely with a marine biologist to identify features and adaptations during a dissection. Students will also observe local fish up close in the Pennington Marine Science Center.

### **Would You Like Microplastic With That? (Microplastics)**

Working its way up the food chain at alarming rates, microplastics are filling the guts of fish, birds, marine mammals, and even humans. Students run experiments to see if they can find microplastics on the beach, what they can do to reduce plastic waste, and make a positive difference for our oceans.

### **Is It Me or Is It Warm in Here? (Climate Change)**

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

# Night Courses & Group Experiences (5)

## **Earth: An Island in The Night (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, take a tour of the constellations and point telescopes up the heavens for a close look of planets, nebulas, and nearby galaxies. Course is offered round-robin style and Animal Groups can be combined.

## **Creatures of the Night (Nocturnal Wildlife)**

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. Hike is approximately 1 mile.

## **The Cove Has Eyes: Night Snorkel (Snorkeling II) (4-5 day trips only)**

For groups that have completed Snorkeling I, make a return trip to Doctor's Cove but this time - at night! In addition to the standard snorkel gear, students will also don a glow stick and a dive light for this unforgettable experience. Night Snorkel is recommended for confident snorkelers.

## **Ready for S'more Fun? (Campfire and S'mores)**

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

## **Movie Night**

We will provide a family friendly movie or feel free to bring your own. You can also bring movie snacks for your group or we'll set up a mini snack-bar with treats for sale during the movie.