



SANDY BEACHES FIELD COURSE OVERVIEW

GENERAL INFORMATION

Course: Sandy Beaches & Barrier Islands

Age Group: 5th – 8th Grade

Max. Size: 12 students

Instructor: Ms. Christa Jewett

Cell: (954) 895-8579

Email: christa@saltwaterstudies.com

Dates: Thursdays, October 11, October 18, October 25 & November 1; 9:00 – 11:00 AM

Cost: \$90 per student with a 20% sibling discount. Payment is due upon registration for the Field Course. If finances are an issue for you, please contact Saltwater Studies to discuss alternative arrangements.

Duration: This is a 4-week course. Each lesson will be two hours in length. The first 30 to 45 minutes will be an introduction of the day's topic followed by 1.25 to 1.5 hours of beach walking or field activities.

Materials: Students will be required to obtain a copy of the book "Florida's Living Beaches" by Blair and Dawn Witherington. This book is available at Barnes & Noble for \$22.00. It may be available for a reduced cost online. You must purchase at least one book per family.

Permission Slip: Parents will also be required to provide a signed permission slip authorizing their child(ren) to participate in the field course. Permission slips will be available for parents to complete on the first day of the Course.

DETAILS

- Please prepare your children to spend the entire class outdoors in the Florida sun. We recommend that they wear lots of sunscreen and bring a water bottle to stay hydrated during the course. You may also want to provide them with a hat and sunglasses for further sun protection.
- It is recommended that your child(ren) wear his or her swim suit under his or her clothes as he or she may get wet. Please have them wear sturdy water shoes or sandals, not flip flops.
- Please have your child(ren) bring a backpack with them to carry their water bottle, book, field notebook, writing utensil and towel. If your child(ren) decide not to carry their backpack, please remember that it will not be supervised at the beach so please leave any valuables at home.

SYLLABUS

Please note that this is a tentative schedule. Topics and order of presentation are subject to change. **Page numbers for homework assignments are based on the 1st Edition of the Florida Living Beaches Field Guide. If you have purchased the 2nd Edition, please contact Saltwater Studies for the corresponding page numbers.**

PRIOR TO FIRST CLASS	
Students must purchase required book and read pages 1 – 17, 29, 278-279, 304 about beach minerals, beach formation, barrier islands and beach renourishment.	
Date	Lesson Description
10/11/2018	Introduction to Sandy Beaches & Barrier Islands Discussion will cover the development of barrier islands, sandy beaches and sand dunes, beach renourishment projects, and high wave energy environments. Field activities will include learning how to use basic survey equipment and scientific techniques to create a beach profile and monitor changes to the beach over the years. Homework: Read Florida's Living Beaches, p. 18-22
10/18/2018	Wind, Waves, Tides & Currents Discussion will cover how wind, waves, tides and currents influence the sandy seashore. Field activities will include learning to identify different types of waves, measuring wave heights, wave periods and tidal changes. Homework: Read Florida's Living Beaches, p. 32 & 204
10/25/2018	Biological Communities Discussion will review plant and animal life associated with a sandy beach. Field activities will include performing a biological beach survey in which students will identify and quantify various biological species observed on the beach. Homework: Read Provided Handouts.
11/1/2018	Environmental Monitoring Discussion will review environmental threats to the survival of a healthy beach ecosystem. Field activities will include using common scientific methods and equipment to monitor the health of a marine ecosystem over time. Students will be introduced to both water and sediment sampling methodology.