



**Course:** Florida Marine Studies  
**Age Group:** 5-6<sup>th</sup> Grade  
**Min. Size:** 5 students  
**Max. Size:** 15 students  
**Instructor:** Ms. Christa Jewett  
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**Cost:** There is a cost of \$320 per student for this Course with a 20% sibling discount. Expenses associated with the field trips are additional. See detail below.

**Dates:** Fridays, September 2015 – April 2016 (see detail below)

**Time:** 10:00 AM – 2:30 PM

**Location:** Varies monthly based on topic and tide schedule.

**Materials:** Students will need their own snorkeling equipment and writing utensil. It is also recommended that students obtain copies of the Florida’s Living Beaches field guide by Blair & Dawn Witherington. It is available at Barnes and Noble for \$22.00 or for a discounted rate online at Amazon.com. All other field equipment and class materials will be provided by Saltwater Studies.

## CLASS SCHEDULE

|                     |                  |
|---------------------|------------------|
| 10:00 AM – 12:00 PM | Lecture & Lesson |
| 12:00 PM – 12:30 PM | Lunch            |
| 12:30 PM – 2:30 PM  | Field Trip       |

## LESSON SCHEDULE

Please note that this is a tentative schedule. Topics and order of presentation are subject to change.

| Class #1                  |  |
|---------------------------|--|
| <b>Date</b>               | Friday, September 25, 2015   |
| <b>Location</b>           | John U. Lloyd Beach State Park, Dania Beach  |
| <b>Topic</b>              | Rocky Shores   |
| <b>Homework</b>           | <b>Homework includes online reading, videos and questions on appropriate topics and must be completed prior to the class.</b>  |
| <b>Class Description:</b> | The class will offer a biblically-based overview of a Rocky Shore ecosystem. The field trip will include reviewing marine life present on a man-man rocky shore environment. |
| <b>Expenses:</b>          | There is a park entrance fee of \$6.00 per vehicle.  |

### Class #2

|                           |   |
|---------------------------|---|
| <b>Date</b>               | Friday, October 23, 2015  |
| <b>Location</b>           | Coral Cove Park 1600 Beach road, Tequesta, FL 33469 and Blowing Rocks Preserve  |
| <b>Topic</b>              | Rocky Shores  |
| <b>Homework</b>           | <b>Homework includes online reading, videos and questions on appropriate topics and must be completed prior to the class.</b>   |
| <b>Class Description:</b> | The class will continue a biblically-based review of the Rocky Shore ecosystem. The field trip will include reviewing marine life present on a natural rocky shore environment and comparing it to observations made of the man-made rocky shore in the previous class. |
| <b>Expenses:</b>          | There is an entrance fee of \$2.00 per person (over 12 years) at Blowing Rocks Preserve.  |

### Class #3

|                           |  |
|---------------------------|--|
| <b>Date</b>               | Friday, November 20, 2015  |
| <b>Location</b>           | Peanut Island Park, Riviera Beach  |
| <b>Topic</b>              | Reef Environments & Community Dynamics   |
| <b>Homework</b>           | <b>Homework includes online reading, videos and questions on appropriate topics and must be completed prior to the class.</b>  |
| <b>Class Description:</b> | The class will offer a biblically-based overview of coral reef community dynamics. The field trip will include snorkeling in the waters around Peanut Island and making observations of the marine life present. <i>Each student must bring his or her own snorkeling equipment.</i> |
| <b>Expenses:</b>          | There is a transportation fee of \$10.00 per person for the ferry to Peanut Island.  |

### Class #4

|                           |  |
|---------------------------|--|
| <b>Date</b>               | Friday, December 18, 2015  |
| <b>Location</b>           | Coral Cove Park 1600 Beach road, Tequesta, FL 33469 and Blowing Rocks Preserve   |
| <b>Topic</b>              | Reef Environments & Community Dynamics   |
| <b>Homework</b>           | <b>Homework includes online reading, videos and questions on appropriate topics and must be completed prior to the class.</b>  |
| <b>Class Description:</b> | The class will continue a biblically-based review of the community dynamics of a coral reef ecosystem. The field trip will include snorkeling in the waters next to Blowing Rocks Preserve, making observations of the marine life present and comparing their observations to those made in the previous class. <i>Each student must bring his or her own snorkeling equipment.</i> |
| <b>Expenses:</b>          | There is an entrance fee of \$2.00 per person (over 12 years) at Blowing Rocks Preserve.   |

**Class #5**

|                           |  |
|---------------------------|--|
| <b>Date</b>               | Friday, January 22, 2016   |
| <b>Location</b>           | West Lake Park, Anne Kolb Nature Center, Hollywood   |
| <b>Topic</b>              | Mangrove Forests   |
| <b>Homework</b>           | <b>Homework includes online reading, videos and questions on appropriate topics and must be completed prior to the class.</b>  |
| <b>Class Description:</b> | The class will offer a biblically-based overview of a Mangrove Forest ecosystem. The field trip may include a walk through a mangrove ecosystem, a tour of the Anne Kolb Nature Center exhibit hall and possibly a kayak through the mangroves, depending on weather and kayak availability. |
| <b>Expenses:</b>          | Depending on activities, the expense will be from \$2 per person (exhibit hall entrance fee) to \$14 per person (1 hour kayak rental fee). There is no park entrance fee.  |

**Class #6**

|                           |  |
|---------------------------|--|
| <b>Date</b>               | Friday, February 19, 2016  |
| <b>Location</b>           | Hugh Taylor Birch State Park, Fort Lauderdale  |
| <b>Topic</b>              | Sandy Beaches  |
| <b>Homework</b>           | <b>Homework includes online reading, videos and questions on appropriate topics and must be completed prior to the class.</b>  |
| <b>Class Description:</b> | The class will offer a biblically-based overview of a Sandy Beach ecosystem. The field trip will include performing a survey of the beach and learning how to determine if a sandy beach is gaining (accreting) sand or losing (eroding) sand. |
| <b>Expenses:</b>          | There is a park entrance fee of \$6.00 per vehicle.  |

**Class #7**

|                           |   |
|---------------------------|---|
| <b>Date</b>               | Friday, March 18, 2016  |
| <b>Location</b>           | Loggerhead Marinelifelife Center, Loggerhead Park, Juno Beach   |
| <b>Topic</b>              | Biblical Environmentalism   |
| <b>Homework</b>           | <b>Homework includes online reading, videos and questions on appropriate topics and must be completed prior to the class.</b>   |
| <b>Class Description:</b> | The class will discuss a biblically-based view of environmental conservation of animal populations. The field trip will include touring the Loggerhead Marinelifelife Center and learning what scientists are doing to help conserve the local sea turtle population. |
| <b>Expenses:</b>          | There is an entrance fee of \$5 per person.   |

## Class #8

|                           |  |
|---------------------------|--|
| <b>Date</b>               | Friday, April 15, 2016   |
| <b>Location</b>           | John U. Lloyd Beach State Park, Dania Beach  |
| <b>Topic</b>              | Biblical Environmentalism  |
| <b>Homework</b>           | <b>Homework includes online reading, videos and questions on appropriate topics and must be completed prior to the class. Students must also prepare their notebooks for submission during the last class.</b>   |
| <b>Class Description:</b> | The class will offer a biblically-based discussion on environmental conservation of natural environments. The field trip will include utilizing various assessment techniques to determine the environmental health of local water and sediment sources. |
| <b>Expenses:</b>          | There is a park entrance fee of \$6.00 per vehicle.  |

### CLASS OVERVIEW

**Homework.** Students will have homework to complete prior to each class. This includes reading online material, taking notes and regarding each topic.

**Grading Policy.** The class will be graded based on the homework assignments and the completion of a notebook. On the last class, each student will hand in a notebook that includes their homework assignments, handouts and class notes. The notebook will be graded on neatness, organization, completion and detail. The student will earn up to 100 points for their notebook. At the completion of the session, the students will receive their notebooks, a course grade and a certificate of completion for their records.

**Parental Permission Slip.** Each student will need to provide a completed Parental Permission slip in order to participate in the field course.

**Materials.** Students will be provided with scientific field equipment and hand-outs. Students will be required to provide their own 3-ring binder with paper, writing utensil and Bible (NKJV or NIV, preferred) for the class.

**Expenses.** There are additional expenses associated with each field trip such as park entrance fee, parking or transportation and kayak rental. These expenses are included in the schedule presented above.