

# SOUTH CAROLINA MARITIME FOUNDATION



## EDUCATIONAL PROGRAMMING OUTLINE

### **South Carolina Maritime Foundation Mission**

The *Spirit of South Carolina* is dedicated to offering a unique educational platform for the youth of the Palmetto State. The hands-on programs that will be offered aboard are designed to challenge and engage students while promoting responsibility, teamwork, and stewardship for both their community and their environment. Programs will also be designed around an interdisciplinary curriculum that focuses on math and science with extensions into the history and literature of South Carolina and our relationship to the sea.

### **Something for Everyone:**

#### **1. Day Programs:**

- ⇒ Available for 18 weeks a year, 9 weeks in the fall and 9 weeks in the spring
- ⇒ Grades 5-8<sup>th</sup>
- ⇒ Capacity of 35 students plus teacher and/or chaperones
- ⇒ Correlated to State Standards
- ⇒ All programs include both pre and post sail curriculum

***Sea Spray Scouts*** – a day sail program designed to address state standards for both math and science with links to understanding the history and culture of South Carolina and the sea. This program is presented in three phases:

- **Phase one** takes place in classroom. Teachers are supplied with pre-cruise curriculum to help prepare their students for a sail aboard the *Spirit of South Carolina*. Activities included in the pre-cruise curriculum use interactive online content and hands-on activities to examine the *Spirit of South Carolina* and the subject matter that will be taught aboard the vessel. The pre-cruise curriculum is designed to complement the educational material presented during a sail, but can also be used as a stand-alone unit in any classroom.
- **Phase two** is the shipboard phase. During this phase students participate in a five hour sail aboard the *SSV Spirit of South Carolina*. While aboard, the students are part of the crew and therefore participate in all operations of the vessel including setting sails, steering, navigating and maneuvering.

During the sail students will also work in small groups as they rotate through three or four topic specific stations. In each station the students participate in hands-on activities that relate to the operation of the vessel and exploration of harbor. The subject matter of each station is be predetermined

by teacher and the Foundation's Director of Education (see activity list below for station topics). This process allows each teacher to tailor the academic content of the shipboard program directly to their classroom studies.

- **Phase three** will again be in the classroom and include post-cruise curriculum. The post-cruise curriculum is intended to bring closure to the experience as well as assess the students' comprehension level. The activities provided will be designed to broaden the students' level of understanding as well as test each individual's grasp of the bigger picture. Assessments will also be made during this phase by the teachers and Foundation to ensure we are meeting our educational goals.

## **2. Custom Programs:**

- ⇒ Can vary in duration from a day to multi-week
  - ⇒ Overnight programs limited to grades 8-College
  - ⇒ Day sail capacity, 35 (**not** including teachers and chaperones)
  - ⇒ Overnight capacity 21 (including teachers and chaperones)
  - ⇒ Can be correlated to State Standards
- SCMF is interested in working with a variety of schools, youth groups, and community organizations from around the state to develop customized programs. These programs can be tailored to accommodate a particular group's educational needs and objectives. Academic focuses for extended programs will be developed between the partnering group and SCMF's Director of Education.

## **3. Spirit Ocean Adventure:**

- ⇒ two week program offered each summer
  - ⇒ 21 student capacity
  - ⇒ Teen ages 15-18 eligible
- During this program students will become completely immersed in life at sea aboard a traditional sailing vessel. Throughout their time aboard they will be challenged both physically and mentally, while they explore the marine environment around them and learn art of seamanship.

## **Day Sail Program Activity List:**

### **Life Sciences:**

1. Water Quality: An Investigation of Abiotic Factors of an Ecosystem
2. Plankton Identification and Importance
3. Food Web and Trophic Structure

### **Physical Science**

4. Navigation: Study of Motion, Speed, and Direction
5. The Theory of Gravity and Buoyancy
6. Sail Theory: An Investigation of Friction and Motion
7. Simple Machines and Mechanical Advantage

### **Earth Science**

8. Waves and Tides
9. Coastal Processes and Geologic Features
10. Human Impact and Run-Off
11. Weather

12. Hydrologic Cycle

**English Language Arts**

- 13. Maritime Dramatics
- 14. Maritime Poetry

**Social Studies**

- 15. Slave Trade
- 16. Regional Maritime History- Careers
- 17. Regional Maritime History – Robert Smalls
- 18. Regional Maritime History – Fort Sumter and the First Shots of the Civil War
- 19. Historical Trade and Navigation

**Sample Itineraries:**

**Day sail Program**

0900	Board Welcome/Orientation/Safety Talk
0930	Get underway Set Sails
1045 – 1120	Station 1
1130 – 1205	Station 2
1205 – 1235	Lunch
1235 – 1305	Station 3
1310 – 1400	Group Activity
1400	Closing Remarks Disembark Students

(Time frame can begin earlier or later and can be condensed to work within the schools needs)

**3 or 4 Day Program**

*Day 1*

- 0900 Board
- Welcome/Orientation/Safety Talk
- Settle into bunks and begin to explore ship
- Safety equipment and ship tour
- Basic deck seamanship
- Underway
- Safety drills
- Set sail
- Lunch
- Intro to sailing, sailing drills
- Douse, furl sails, anchor for dinner
- Dinner
- Day review, fun educational activity
- Lights out, anchor watch begins

*Day 2 and 3(if on a 4 day program)*

- Haul back the anchor
- Get underway
- Begin watch standing routine
- Breakfast/ Chores
- Classes/Activities 2-4 times through the 24 hour period
- Underway through evening, continue with watch routine

*Day 3 or 4*

Breakfast/ Chores  
Classes/Activities 1-2 times in AM  
Lunch  
Afternoon spent allowing students to take leadership in running ship in sailing maneuvers and other activities.  
Arrive in harbor, execute several maneuvers in sight of parents and onlookers.  
Douse, furl sail, tie up at dock  
1700 Closing speech, debark students.

**5 Day Program**

*Day 1*

0900 Board  
Welcome/Orientation/Safety Talk  
Settle into bunks and begin to explore ship  
Safety equipment and ship tour  
Basic deck seamanship  
Underway  
Safety drills  
Set sail  
Lunch  
Intro to sailing, sailing drills  
Douse, furl sails, anchor for dinner  
Dinner  
Day review, fun educational activity  
Lights out, anchor watch begins

*Day 2*

Haul back the anchor  
Get underway  
Begin watch standing routine  
Breakfast/Chores  
Classes/Activities 2-4 times through the 24 hour period  
Underway through evening, continue with watch routine

*Day 3*

Breakfast/Chores  
Underway/Continue with watch standing routine  
Anchor for port call  
Spend day ashore for shore based activities  
Return to ship  
Dinner  
Day review, fun educational activity  
Lights out, anchor watch begins

*Day 4*

Haul back the anchor  
Get underway  
Back into watch routine  
Breakfast/Chores  
Classes/Activities 2-4 times through the 24 hour period  
Underway through evening, continue with watch routine

*Day 5*

Breakfast/ Chores  
Classes/Activities 1-2 times in AM

Lunch  
Afternoon spent allowing students to take leadership in running ship in sailing maneuvers and other activities.  
Arrive in harbor, execute several maneuvers in sight of parents and onlookers.  
Douse, furl sail, tie up at dock  
1700 Closing speech, debark students.

Possible Port Calls On A Five Day Program:

Southport  
Georgetown  
Beaufort  
Cumberland Island

- Note- We will take suggestions for desired port calls, but can not guarantee a stop. All itinerary for all programs are weather dependent.

**Sample Class Schedule:**

Day 1 (All Part of Core Curriculum)

- Orientation/Activities  
Safety  
Deck Seamanship  
Sail Theory  
Maneuvering  
Review of Days Information

Day 2 (Core curriculum through watch standing duties and activities)

-Class/Activity Topics  
Marine Ecosystems  
Reading Assignment, excerpt from "Two Years Before the Mast"  
Discuss Reading  
Calculating Sail Area

Day 3 (Students depart after breakfast and return by dinner)

-Day Ashore on Cumberland Island – All hands on experiences  
Exploring Marine Estuaries  
Barrier Island History and Formation  
Plant and Animal life ashore  
Journal Writing of experiences of the day on each topic

Day 4 (Core curriculum continued through watch standing duties and activities)

-Class/Activity Topics  
Writing Assignment, "How are interactions between you and your shipmates different from how you relate to peers ashore?"  
Marine Organisms  
Motion of Objects (Position, Direction, & Speed)  
Piracy in the Americas

Day 5 (Return to port by 1700)

-Class/Activity Topics  
History of Charleston Harbor, How is it used today  
Discuss experiences of last few days  
Clean up ship  
Afternoon spent challenging the students sailing and navigation skills