

National Scholars Program

Maymester Expedition:

Dolphin Research Center, May 9-15

Sunday May 9

- 2 pm Arrive Dolphin Research Center

- 2:00 - 2:30 Dorm Check-in
- 2:30 - 3:30 Introductions and Dorm Orientation
- 3:45 - 5:00 Tour of DRC
- 5:00 - 6:00 DolphinLab Orientation
- 6:00 - 7:00 Dinner
- 7:00 - 7:30 Practice Signals

Monday May 10

- 8 - 8:45 Breakfast/Pack up Lunches
- 9 - 9:30 Boardwalk, Splash and Dolphin Etiquette
- 9:30 - 10 Observation
- 10 - 11 Training Seminar
- 11 - 12 Training Workshop
- 12 - 1 Lunch
- 1 - 2 Dolphin Intelligence
- 2 - 2:30 Watch Sessions
- 2:30 - 3 DolphinSplash (7 splashes)
- 3 - 3:30 DolphinSplash (7 splashes)
- 3:30 - 4:30 Dolphin Physiology
- 4:30 - 4:45 Goodbye to Dolphins
- 5:15 - 6 Dinner

Tuesday May 11

- 8 - 8:45 Breakfast
- 9 - 9:30 Observation Time
- 9:30 - 10 Swim Workshop
- 10:15 - 11 Dolphin Encounter (14 swimmers)
- 11- 12 Husbandry Seminar
- 12- 1 Pizza Lunch
- 1- 1:30 Training Demonstration
- 1:30 - 2:30 Coral Reef Seminar
- 2:30 - 3 Watch Sessions
- 3 - 3:15 Field Trip Briefing
- 3:15 - 3:30 Volunteer/Intern Discussion
- 3:30 - 4:30 Dolphin Maternity
- 4:30 - 4:45 Goodbye to Dolphins
- 5:15 - 6 Dinner

Wednesday May 12

- 8 - 8:45 Breakfast
- 9 - 9:30 Observation Time
- 9:30 - 10 Current Research Discussion

10 - 11 Research Activity
11:15 - 12 Lunch
12:30 - 4 Keylypso Snorkel Trip
4:45 Dinner

Thursday May 13

8 - 8:45 Breakfast
9 - 10 Dolphin Assisted Therapy
10 - 10:30 Medical Demonstration
10:30 - 11 Observation Time
11 - 12 Marine Mammal Conservation
12 - 1 Lunch
1 - 1:30 Gift Shop Time
1:30 - 2:30 Acoustics
2:30 - 3 Watch Sessions
3 - 3:30 Practice Signals
4 - 4:30 Signal Session
4:30 - 4:45 Goodbye to dolphins
5:15 - 6:00 Dinner

Friday May 14

8 - 8:45 Breakfast
9 - 9:30 Observation Time
9:30 - 10 Sea Lion Demonstration
10:15 - 11 Dolphin Encounter (14 swimmers)
11:15 - Marine Mammal Law
12:15
12:15 - 1 Lunch/Observation Time
1 - 1:15 Stay Connected
1:15 - 1:45 Preview Outreach Presentation
2 - 3 Marine Mammal Strandings
3 - 4 Dolphin ID Quiz/Group Photos
4:15 - 5:15 Closing Discussion and Awards
5:15 - 6 Pizza Party

Saturday May 15

8 - 8:45 Breakfast
9 - 9:30 Goodbye to Dolphins
9:30 - 10 Farewell to Friends
10 - 10:30 Watch Final Session
10:30 - 11 Final Gift Shop Time
11:15 - 12 Dorm Clean-up

Noon Depart for Miami
 Lunch on the way

COURSE INFORMATION & SYLLABUS

**BIOLOGICAL SCIENCES 490 - SECTION 152
Maymester 2004 – 1 Credit**

**NATIONAL SCHOLARS MARINE MAMMAL BIOLOGY SEMINAR
& TRIP TO THE DOLPHIN RESEARCH CENTER, FLORIDA**

PROFESSOR Dr. Jerry A. Waldvogel Division of Life Science Studies Clemson University
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**COURSE
DESCRIPTION**

This special seminar course is designed as an introduction to the biology and conservation of the bottlenose dolphin (*Tursiops truncatus*) and other marine mammals in advance of the May 2004 National Scholars field trip to the Dolphin Research Center in Grassy Key, Florida. Four 90-minute gatherings of the class will take place prior to the field trip to discuss this material. After a general introduction to marine mammals by Dr. Waldvogel, each student will make a 20-minute oral presentation and submit a 5-page written summary on assigned textbook chapters of relevance to the DRC field trip. These summaries will be compiled into a course notebook and made available to all participants. After the field trip is completed, each student will submit a 10-page written reflection on the activities they engaged in while at the DRC and how they related to the material discussed in the preparatory sessions.

**COURSE
OBJECTIVES**

This course will provide students with a basic understanding of the scientific research associated with the biology and conservation of marine mammals. In addition to the factual knowledge gained about dolphins, manatees and their relatives, students will be asked to critically evaluate the political, economic and social implications of marine mammal science/conservation. The course will also provide students with the opportunity to develop their writing and presentation skills through assignments both before and after the DRC field trip.

**REQUIRED
TEXTBOOKS**

We will read and discuss excerpts from the following two books:

John E. Reynolds III and Sentiel A. Rommel, editors (1999). *Biology of Marine Mammals*. Smithsonian Institution, Washington, DC.

John R. Travis and Randall R. Reeves, editors (1999). *Conservation and Management of Marine Mammals*. Smithsonian Institution, Washington, DC.

You will be provided with photocopies of the excerpts to be considered, so there is no requirement to purchase either book.

ATTENDANCE

Attendance is mandatory at all class meetings and during the DRC field trip.

**EVALUATION
& GRADING**

Your grade in this course will be based on the following criteria:

Attendance	20%
Completion of pre-trip assignments	40%

Completion of post-trip assignment 40%

The following is Clemson University's official statement on plus/minus grading:

Clemson University is committed to all aspects of academic excellence, including the exploration of possible improvements to grading policies. Accordingly, beginning with the 2003-2004 academic year, a trial period for the plus/minus grading system will be in effect for two years. Although the trial will be ongoing, only non-plus/minus grades will be used to calculate GPRs. There will be no effect on transcripts or grade reports, and the data will be used solely for research purposes. If at the end of the trial period the plus/minus system is implemented, its implementation will affect all current students at once; i.e., the change will be announced in the Undergraduate Announcements for the year in which it is to take effect. This should ensure that a smooth transition is made. For more information on this grading system, see the Registrar's web site at www.registrar.clemson.edu.

The following table shows how final course averages will relate to plus/minus letter grades and grade points for BioSci 490 (section 152):

<u>Final Average (%)</u>	<u>Letter Grade</u>	<u>Grade Points</u>
97-100	A+	4.0
94-96.5	A	4.0
90-93.5	A-	3.7
87-89.5	B+	3.3
84-86.5	B	3.0
80-83.5	B-	2.7
77-79.5	C+	2.3
74-76.5	C	2.0
70-73.5	C-	1.7
67-69.5	D+	1.3
64-66.5	D	1.0
60-63.5	D-	0.7
<59.5	F	0.0

ACADEMIC INTEGRITY & DISHONESTY

The following is Clemson University's official statement on academic integrity:

As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a "high seminary of learning". Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form.

Academic dishonesty includes giving, receiving, or using unauthorized aid on any academic work. It also includes plagiarism; the copying of language, structure, or ideas of another and passing them off as one's own work. All academic work attempted contains an implicit pledge by the student that no unauthorized aid has been received. The official procedures for handling academic dishonesty are described in the current edition of your student handbook. You should read and become familiar with this information.

A student guilty of first-offense academic dishonesty will receive a grade of zero for the work attempted. Second offenses will result in a grade of "F" for the course, and will raise the possibility of suspension or permanent dismissal from the University.

COURSE OUTLINE

<u>Meeting #</u>	<u>Date</u>	<u>Topic</u>
1	18 February	Personal introductions & course mechanics. A general introduction to marine mammals. Assignment of pre-trip readings & presentations.
2	TBA	Student presentations on the anatomy & physiology of marine mammals.
3	TBA	Student presentations on the behavioral ecology of marine mammals, as well as human attitudes towards these animals.
4	TBA	Student presentations on the interactions between humans and marine mammals.
--	9-15 May	Field trip to Dolphin Research Center, Grassy Key, Florida.
--	1 June	Final reflection paper due.
