Syllabus
Barrier Island Ecology  May 12-23, 2014  USM/GCRL

Monday - May 12

8:00 - Orientation – Caylor auditorium
9:30 - Visit Gunter library [Hurricane Balls exhibit – Joyce Shaw]
10:00 - Scope of Course - Introduction and definitions [Karels]

1:00 - Geology and sedimentology [Otvos]
3:00 - Barrier island evolution and geomorphology [Otvos]

Tuesday - May 13

8:00 - Field trip to Horn and Ship Islands [R/V Tom McIlwain]
Island geology and evolution [Otvos]
[Alternate: Dauphin Island, AL]

Wednesday - May 14

8:00 - Abiotic Factors and Ecological Principles [Karels]
10:00 - Nearshore seagrass communities [Karels/Caldwell]

1:00 - Seagrass and marsh restoration [Caldwell]
2:00 - Seagrass monitoring [Linh Pham]
3:00 - Barrier Island dunes and maritime forest communities [Caldwell]
4:00 - Tour of GCRL greenhouse [Caldwell]

Thursday - May 15

8:00 - Field trip to Horn Island [R/V Tom McIlwain]
Dune and forest communities [Caldwell]
Inland pond communities [Karels]
High energy beach communities [Karels]
[Alternate: Dauphin Island, AL – Audubon Nature Trail]

Friday - May 16

6:30 - Field trip to Santa Rosa Island, Florida – Ft. Pickens area
Island geology and evolution [Otvos]
Seagrass communities and salt marsh zonation [Karels/Caldwell]
High energy beach communities [Karels]
Visit to GINS headquarters – Naval Live Oak exhibit
**Monday - May 19**

8:00 - Nearshore Communities: subtidal, intertidal and supratidal zones [Karels/McLelland]
10:00 - Sand beach Communities [Karels/McLelland]

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1:00 - Salt marsh and Inland Pond Communities [Karels/McLelland]
3:00 - Insects of Barrier Islands [Lockley]

**Tuesday - May 20**

8:00 - **Field trip** to Horn Island [R/V Tom McIlwain]
Seagrass communities, nearshore and intertidal benthic communities, supratidal biotic communities, island lagoon communities [McLelland/Karels]

[Alternate: Dauphin Island, AL – public beaches]

**Wednesday - May 21**

8:00 - Barrier Island parasite systems [Heard/TJ Fayton]
10:00 - Coastal bird topics [Karels]

1:00 - Barrier Island amphibians and reptiles [Mohrman/Karels]

3:00 - **Road trip to GINS office, Ocean Springs** - History and management of the Gulf Islands National Seashore [Hopkins - GINS]

**Thursday - May 22**

8:00 - **Field trip** to Deer Island [GCRL boat]
Marsh Restoration [Caldwell]
Bird observations [Karels/Woodrey]

1:00 - Anthropogenic effects and current issues
4:00 - Review

**Friday - May 23**

9:00 - Final exam and field notebook due

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Unless noted, all meetings will be held in the new Field Studies building
ADA Syllabus Statement

If a student has a disability that qualifies under the Americans with Disabilities Act (ADA) and requires accommodations, he/she should contact the Office for Disability Accommodations (ODA) for information on appropriate policies and procedures. Disabilities covered by ADA may include learning, psychiatric, physical disabilities, or chronic health disorders. Students can contact ODA if they are not certain whether a medical condition/disability qualifies.

Address:

The University of Southern Mississippi
Office for Disability Accommodations
118 College Drive # 8586
Hattiesburg, MS 39406-0001

Voice Telephone: 601.266.5024 or 228.214.3232  Fax: 601.266.6035

Individuals with hearing impairments can contact ODA using the Mississippi Relay Service at 1.800.582.2233 (TTY) or email Suzy Hebert at Suzanne.Hebert@usm.edu.