

Barrier Island Ecology May 16-27, 2011

Monday - May 16

- 8:00 - Orientation – Caylor auditorium
- 9:30 - visit Gunter library [hurricane balls exhibit – Joyce Shaw]
- 10:00 - Scope of Course - Introduction and definitions [McLelland, et al.]
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- 1:00 - Geology and sedimentology [Otvos]
- 3:00 - Barrier island evolution and geomorphology [Otvos]

Tuesday - May 17

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

Wednesday - May 18

- 8:00 - Abiotic Factors and Ecological Principles [McLelland]
- 10:00 - Nearshore seagrass communities [McLelland/Caldwell]
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- 1:00 - Seagrass and marsh restoration [Caldwell/Feagin]
- 2:00 - Barrier Island dunes and maritime forest communities [Caldwell]
- 3:00 - Ecophysiological adaptation in barrier island plant species [Smith]
- 4:00 - Tour of GCRL greenhouse and nature trail [Caldwell]

Thursday - May 19

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

Friday - May 20

- 7:30 - **Field trip** to Santa Rosa Island, Florida – Ft. Pickens area
Island geology and evolution [Otvos]
Seagrass communities and salt marsh zonation [McLelland/Caldwell]
High energy beach communities [McLelland]
Visit to GINS headquarters – Naval Live Oak exhibit

Monday - May 23

- 1:00 - Nearshore Communities: subtidal, intertidal and supratidal zones [McLelland]
- 2:00 - Sand beach Communities [McLelland]
- 3:00 - Salt marsh and Inland Pond Communities [McLelland]
- 4:00 - Insects of Barrier Islands [Lockley]

Tuesday - May 24

- 8:00 - **Field trip** to Horn Island [R/V Hermes]
Seagrass communities, nearshore and intertidal benthic communities, supratidal biotic communities [McLelland]
[**Alternate:** Dauphin Island, AL – public beaches]

Wednesday - May 25

- 8:00 - Barrier Island parasite systems [Heard]
- 10:00 - Coastal bird conservation issues [Woodrey]
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- 1:00 - Barrier Island amphibians and reptiles [Mohrman]
- 3:00 - History of the local islands – road trip to GINS office [Hopkins]

Thursday - May 26

- 8:00 - **Field trip** to Deer Island [MEC pontoon boat]
Marsh Restoration [Caldwell]
Bird observations [Woodrey]
- 1:00 - Anthropogenic effects and current issues
 1. Predicting future impacts of sea level rise on barrier systems and storm intensity due to climate change [Feagin]
 2. Coastal Barrier Island Network (CBIN) developing management strategies for sustaining barrier island ecosystems under continued development pressure [Smith].
 3. Current issues [Carter]
- 3:00 - Review

Friday - May 27

- 9:00 - Final exam and field notebook due

unless noted, all meetings will be held in Hopkins teaching lab C