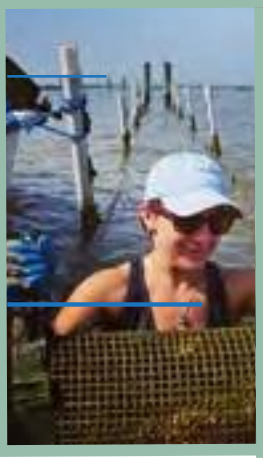
Dauphin Island Sea Lab

Summer Session

April 1st - August 16th

Priority Deadline: February12th, 2024



Dauphin Island Sea Lab
UNIVERSITY PROGRAMS

apply today: https://www.disl.edu/university-programs/undergraduate/

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Registrar: Rashard Ward
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Register Online

https://www.disl.edu/university-programs/undergraduate/

Important Dates

Priority Course Registration Deadline	February 12th , 2024
Scholarship/Work Study Application Deadline	March 10th , 2024
Late Fee Charged ($50) for Registration after March 31, 2024	Post March 31st , 2024
Payment of DISL Housing and Meal Plans Due	April 29th, 2024
Final Course Registration Deadline	April 29th, 2024

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Information about DISL may also be obtained from our website at: www.disl.edu.

Dauphin Island Sea Lab

The MESC/DISL values diversity, equity, and inclusion (DEI) and seeks to create a climate of mutual respect and full participation. Please review our DEI policy link here:
https://www.disl.edu/about/administration/marine-science-for-all/

Register online
https://www.disl.edu/university-programs/undergraduate/

Summer University Programs Course Schedule 2024

May Session: May 6th -May 17th - 2 weeks one course only may be taken in this session -Lecture/Lab: M-F (9A-4P)		
**##Biology & Conservation of Marine Turtles	(2)UG/G	Wibbels
**Dolphins and Whales	(2)UG	Lewis
**Shark and Ray Biology	(2)UG/G	Drymon
**Coastal Zone Management	(2)UG/G	Anderson
Coral Reef Session: April 1st - May 17th		
**##Coral Reef Biology and Ecology	(4)UG/G	Hoadley

1st Session : May 20th - June 21st - 5 weeks		
4-hour courses: **Lecture: M/T/W (9A - 12P); Lab: M/T (1P– 4P)**		
Marine Biology	(4)UG/G	Layton
Marine Botany	(4)UG/G	Henning
Marine Geology	(4)UG/G	Elliott
Marine Mammals	(4)UG/G	Lewis
Marine Vertebrate Zoology	(4)UG/G	Albins
2-hour courses **Lecture and Lab: M/T (9A-4p)**		
Marine Restoration Ecology	(2)UG/G	Temple
4-hour courses: **Lecture: W (1P –4P), TH/F (9A– 12P);** **Lab: TH/F (1P– 4P)**		
Coastal Wetlands	(4)UG/G	Steinmuller
Experimental Plankton Biology	(4)UG/G	Moss
Intro to Oceanography	(4)UG/G	Krause
2-hour courses **Lecture and Lab: TH/F (9A-4p)**		
Coastal Birds	(2)UG/G	Woodrey
Hurricanes of the Gulf Coast	(2)UG/G	Bregy

** Only one course per session, additional fees apply.
(Fees nonrefundable unless course is cancelled) All courses are subject to change. Listed schedule times are approximate and are to the discretion of the instructor. All courses must be approved by your advisor.

2nd Session : June 24th - July 26th - 5 weeks		
4-hour courses: **Lecture: M/T/W (9A - 12P); Lab: M/T (1P –4P)**		
Marine Biology	(4)UG/G	Titus
Marine Conservation Biology	(4)UG/G	Partyka
Marine Invertebrate Zoology	(4)UG/G	Gannon
2-hour courses: **Lecture and Lab: M/T (9A-4p)**		
Environ. App of GIS (online)	(2)UG/G	Fleming
Marine Aquaculture	(2)UG/G	Stoeckel
4-hour courses: **Lecture: W(1 –4P), TH/F(9A– 12P); Lab:** **TH/F (1P– 4P)**		
Intro to Oceanography	(4)UG/G	Smith
Marine Biology (hybrid)	(4)UG/G	Gannon
Marine Ecology	(4)UG/G	Dorgan
Marine Behavioral Ecology	(4)UG/G	Gier
Marine Vertebrate Zoology	(4)UG/G	Layton
2-hour courses **Lecture and Lab: TH/F (9A-4p)**		
Marine Mammal Health	(2)UG	TBD
Biotic Response to Sea Level Change (online)	(2)UG	Wofford

Neurobiology Session July 29th – August 16th

Lecture: M-Sat. (9A-5P)		
Intro To Neurobiology	(3)Adv. UG/G	Strang et al.

Register Online
https://www.disl.edu/university-programs/undergraduate/

Fees, Tuition, Room, and Board Costs

Course Tuition Paid to Your University

After confirmation of enrollment at DISL, students must register and pay course tuition **at their home campus**. Birmingham Southern College applicants should check with their campus liaison officer for appropriate procedures for tuition payment.

ALL Room and Meal Plans, DISL, and Travel Fees are paid directly to DISL

PAYMENT DEADLINES

1. **All DISL Fees (see DISL fees below) are due at the time of course registration.** Non-payment of fees can affect your course enrollment. Special payment arrangements must be preapproved by the DISL bursar, Ms. Daphne Wood, dwood@disl.edu, ext. 7512.

A late fee charge of $50 will be added if registering after March 31st, 2024.

DISL Fees:

Student Application Fee	$75.00 one-time fee
Student Registration Fee	$35.00 per term
Lab Fee	$20.00 per credit (except Auburn University students)
Student ID Fee	$10.00 per Summer
Student Activity Fee	$10.00 per Summer
Student Parking Fee	$15.00 per Summer if car is parked on
campus Facilities Fee	$270.00 per Summer
Printing Fee	$30.00 per Term
Late Registration Fees	$50.00 (if registering after March 31, 2024) for Summer

2. **All room and meal plan payments are due by April 29th, 2024**

All dormitory residents are required to purchase meal plans.
(Preparation of food in the dormitories is absolutely prohibited)

Meal Plans:

Unlimited meals	**$250.00/week**
15 meals/week	**$200.00/week**
10 meals/week	**$150.00/week**

Dietary needs will be respected but must be communicated clearly on the meal plan request form. You may contact the registrar Rashard Ward, rward@disl.edu, or the cafeteria manager, Savannah Griggs, sgriggs@disl.edu, to discuss concerns or necessary accommodations.

Dorm Plans:

2 week shared room	**$300.00**
2 week private room	**$500.00**
5 week shared room	**$750.00**
5 week private room	**$950.00**

Register Online
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Fees, Tuition, Room, and Board Costs

Dormitory rooms are available based on two-person occupancy per room. All rooms are air-conditioned and have wireless Internet connections. Students must supply their own twin bed linens. No pets, cooking equipment, refrigerators, coffee makers, etc., are allowed. (For info regarding Service animals, please contact the DISL Registrar.) If space is available, private rooms will be issued on a first-come basis. Please specify if you would be interested in a private room via your online application. Private rooms will be issued on a per session basis and cannot be guaranteed for all terms.

Students may check into the DISL Challenger dorms after 12:00 noon the Sunday before class begins on Monday. If an earlier check-in is required, students should notify the registrar to make accommodations. Note the café is not open during early check-in.

After courses end on Friday, students will be expected to check out of the dorms on Saturday before 9:00 a.m. unless they are enrolled in the next summer session. If a student is flying into Mobile Regional airport and requires transportation to DISL, we recommend you arrive on the Saturday before the term begins and depart on the Saturday morning after term ends.

Payment to DISL: Payment may be made online via your student Populi account www.disl.populiweb.com or mailed at least TWO WEEKS prior to your arrival. MasterCard, Visa, Discover and American Express are accepted over the phone. No cash accepted. Make check or money order payable to **DISL** and mail to **Ms. Daphne Wood**, **Bursar, 101 Bienville Blvd., Dauphin Island, AL 36528.** Call (251) 861-2141, ext. 7512 with questions to Ms. Wood. DISL fees may be paid on a session basis if arranged beforehand with the DISL Bursar.

Once a student begins class, no refunds for lab or DISL fees will be issued. Prorated room and board will be issued for student withdrawal where applicable. Travel fees are non-refundable, unless the course is cancelled.

Payment Deferrals: Payment deferrals will be made only upon receipt at DISL of written verification of loan, grant, fellowship, assistantship, VA or other forms of support. The verification must be from an authorized agent of the awarding entity and must indicate the amount awarded, anticipated date(s) of receipt and schedule of payments if not a single lump sum. It should be indicated to whom payment will be made, i.e., academic institution for tuition only or without limitation, to the student directly, etc. Students receiving deferrals must sign a promissory note to DISL in the amount of the deferral. There will be no deferrals on meal plans. All deferred charges must be paid by the end of the term in order to enroll in a subsequent term and for grades to be transmitted to the appropriate campus.

Course Registration

Submission deadline for priority registration: February 10, 2024

DISL will accept registrations until April 29, 2024; however, courses will fill early and students should try to send their registrations before the priority registration date.

Nonpayment of fees will result in **a late fee charge of $50 to be added after March 31st, 2024.**

Step #1 Complete the DISL Summer Online Forms:

ONLINE:

- Visit https://www.disl.edu/university-programs/undergraduate/ for instructions and the 2023 Form One Application Link.

- Complete online application **Form One**. A one-time $75.00 application fee. Requires ID photo upload. **(Not for returning students)**

- Complete online course registration, health, and vessel waiver **Form Two** ($35.00 registration fee) Requires signed advisor form, **notarized** vessel waiver, and **notarized** health waiver.

- Complete housing and meal plan request **Form Three**.

Step #2 Confirmation of DISL Course Enrollment

- DISL will email a confirmation of your course enrollment after the priority registration deadline of February 10, 2024. This email will include instructions to login to your DISL Student account via disl.populiweb.com, and a link to additional forms and documents.

- Once you login to your student account on **DISL.Populiweb.com**, you will be able to view a listing of your courses and the status of your enrollment (registered or wait).

- Your DISL bill is payable online (DISL fees are due by February 10, and room and board by April 29th). DISL fees may be paid on a session-by-session basis if arranged beforehand with the **DISL Bursar, Daphne Wood (dwood@disl.edu)**.

Step #3 Enrollment at Your Home Campus

- **You MUST also register at your home campus and pay your home campus tuition** (not applicable for Birmingham Southern Students).

- **You must submit proof of home campus tuition paid and a schedule of courses registered for at your home campus to the DISL Registrar**. This can be done via email or online via disl.populiweb.com.

NOTE: In cases where your home institution does not permit you to register for classes before DISL classes begin and you fail to register when campus registration begins, you will be obligated to pay DISL directly for the cost of registration and tuition.

Course Registration

Step #4 Confirmation of Cross Registration at Home Institution and Course Attendance

- You must provide the DISL UP Registrar with a receipt of course enrollment at your home institution.
- All summer faculty are required to take attendance. **If a student fails to attend the first two days of the course, the student will be withdrawn from the course.**

Frequently Asked Questions

Do I have to enroll at both my home school and at the DISL for my summer course?
Yes, to receive academic credit for your courses you MUST register for your class at your home institution and at the DISL. Be sure to get your academic advisor's approval for your course selections.

Will I receive two billing statements for my summer courses at DISL?
Yes, your home institution will invoice your tuition. The DISL will invoice academic and facility fees as well as your room and board if you decide to live on the DISL campus.

Can out-of-state students enroll in DISL Summer UP courses?
Yes, however, your home school will need to enter into an agreement with the DISL for academic credits to transfer. Please contact the DISL Registrar Rashard Ward for more info.

Do I have to be enrolled in a college to take DISL Summer UP courses?
No, you do not need to be enrolled in college to take our courses. You may audit our courses for a fee but will not receive academic credit for your enrollment.

Do you offer financial aid?
DISL does not offer a financial aid program. You will need to coordinate your financial aid through your home institution. The DISL does offer student work-study and scholarship opportunities, please see page 27 for more information.

Are there housing options on Dauphin Island other than DISL campus living?
Sometimes there are houses available for rent on Dauphin Island, however, you will need to search and coordinate these options on your own.

Advisor's Sheet 2024

May Session: May 6th -May 17th M-F (9AM -4PM)			
Course ## Additional fees apply & are approximate/non-refundable	**Credit**	**1st Choice**	**2nd Choice**
##Biology & Conservation of Marine Turtles	(2)UG/G		
Dolphins and Whales	(2)UG		
Shark and Ray Biology	(2)UG/G		
##Coastal Zone Management	(2)UG/G		
Coral Reef Session: April 1st - May 17th			
##Coral Reef Biology & Ecology	(4)UG/G		

1st Session: May 20th - June 21st - 5 weeks			
Lecture: M/T/W (9AM - 12PM); Lab: M/T (1PM– 4PM)			
Course	**Credit**	**1st Choice**	**2nd Choice**
Marine Biology	(4)UG/G		
Marine Botany	(4)UG/G		
Marine Geology	(4)UG/G		
Marine Vertebrate Zoology	(4)UG/G		
Marine Mammals	(4)UG/G		
Lecture and Lab: M/T (9AM-4PM)			
Marine Restoration Ecology	(2)UG/G		
Lecture: W (1PM–4PM), TH/F (9AM–12PM); Lab: TH/F (1PM– 4PM)			
Coastal Wetlands Ecology	(4)UG/G		
Intro to Oceanography	(4)UG/G		
Experimental Plankton Biology	(4)UG/G		
Lecture and Lab: TH/F (9AM-4PM)			
Coastal Birds	(2)UG/G		
Hurricanes of the Gulf Coast	(2)UG/G		

It is important to list both first and second choices for courses whenever possible. This advisor sheet must be signed and uploaded to your Populi course registration. All courses are subject to change.

It is important to list both first and second choices for courses whenever possible. This advisor sheet must be signed and uploaded to your Populi course registration. All courses are subject to change.

2nd Session: June 24th - July 26th - 5 weeks			
Course	**Credit**	**1st Choice**	**2nd Choice**
Lecture: M/T/W (9AM - 12PM); Lab: M/T (1PM– 4PM)			
Marine Biology	(4)UG/G		
Marine Consv. Biology	(4)UG/G		
Marine Aquaculture	(2)UG/G		
Marine Invert. Zoology	(4)UG/G		
Lecture and Lab: M/T			
Environ App. of GIS (online)	(2)UG/G		
Lecture: W (1PM –4PM), TH/F (9AM–12PM); Lab: TH/F (1PM– 4PM)			
Marine Behavioral Ecology	(4)UG/G		
Intro to Oceanography	(4)UG/G		
Marine Biology (hybrid)	(4)UG/G		
Marine Ecology	(4)UG/G		
Marine Vertebrate Zoology	(4)UG/G		
Lecture and Lab: TH/F (9AM-4PM)			
Marine Mammal Health	(2)UG		
Biotic Response to Sea Level Change (online)	(2)UG		
Neurobiology Session July 29th to August 16th			
Intro. to Neurobiology	(3)UG/G		

Advisor Approval	
Total # credits registered for summer	
Priority Level (Level 1, 2, or 3)	
Date:	
Advisor's Signature	
Student's Signature	

**** Hybrid marine biology is online during the 5-week session but requires students to be at DISL July 29th – August 3rd.**

Scholarship and Work Study Opportunities

The Dauphin Island Sea Lab offers scholarships and work study positions for summer school students to defer educational related costs.

A completed online scholarship or work study application must include the following items and must be received by **March 10, 2024.**

Online Scholarship and Work Study Application Form
https://disl.populiweb.com/router/admissions/onlineapplications/index?application_form=31664

Includes:
--A cover letter (2-page max) describing background, qualifications, and financial need.

--Transcripts for all college courses taken (unofficial copies are acceptable)

--A CV or resume' describing relevant coursework, research/work experience, honors, and extracurricular activities.

--Three (3) Letters of recommendation. These letters should be from individuals that can evaluate academic potential such as professors or employers.

Scholarships
The following scholarships are available. Applicants will be considered for all scholarships.

- **The Rita George and George Crozier Scholarships** provide 12 weeks of room and board for students enrolled in DISL summer courses.

- **DISL Foundation Scholarships** waive academic fees and travel fees for summer school.

Work Study

Laboratory intern – Interns work in the lab of a DISL faculty member assisting with authentic research projects. Interns typically work 5-10 hours per week, but this is somewhat variable depending upon the nature of the work performed. Interns often work on weekends. This opportunity provides a unique experience to gain research experience. Interns earn $10 an hour.

Library Aides – Library Aides work 10 hours per week to staff the library and computer lab after hours. Library aides earn $10 per hour.

Dorm Monitors – Dorm monitors receive $125 per week, receive a private dorm room and a meal plan.

MESC Institutions & DISL Campus Liaison Officers

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Tentative Orientation Schedule

	May Session May 6th - 17th	First Session May 20th - June 21st	Second Session June 24th - July 26th
Check-in: Challenger Dorm	Sunday, May 5th after 12:00 noon	Sunday, May 19th after 12:00 noon	Sunday, June 23rd after 12:00 noon
Orientation : Shelby Auditorium Students attending multiple sessions are only required to attend one orientation session	Monday, May 6th 8:30AM	Monday, May 20th 8:30AM	Monday, June 24th 8:30AM
Classes Begin	Immediately After Orientation	Immediately After Orientation	Immediately After Orientation

Introduction to Neurobiology will have a separate schedule for Orientation.

Hurricane Procedure: In the event evacuation becomes necessary due to a hurricane, information regarding closing of DISL and alternative housing for students living in the dorms will be available through University Programs. Students may leave evacuation destination information with the University Programs Registrar. Once the emergency situation has concluded and electrical power is established, information regarding the reopening of DISL and all other necessary information will be recorded on the switchboard answering machine (251) 861-2141. If power is not immediately restored to DISL, information will be sent to local radio and television stations. The DISL website www.disl.edu will also be updated with current information.

Course Descriptions

Directed Studies **Advanced (UG/G) 1-6 credit hours**

Students enrolled in Directed Research must be accepted by a DISL faculty research supervisor. The project topic, duration, and credit must be arranged before registration. Students are expected to conduct their research over 5 weeks. Directed Studies can enhance research experience but are not intended to replace research credit related to a thesis project. Contact DISL UP Registrar for details.

May Term- May 6th – 17th M-F (9AM - 4PM) Enroll in one course only in this session.

Biology and Conservation of Marine Turtles (2cr UG/G) Dr. Wibbels

This course offers an in-depth understanding of marine turtle biology and conservation, covering topics such as identification, distribution, nesting behavior, migratory behavior, feeding ecology, population biology, genetics, developmental habitats, temperature-dependent sex determination, paleontology, and conservation. Students will gain a comprehensive understanding of sea turtle biology, understand why some species have become endangered, and learn how proper management has helped some populations recover. The course concludes with an overnight field trip to southeastern U.S. nesting beaches and research facilities, allowing students to observe turtles in their natural habitats.

*Special fees apply and will be determined based on enrollment (approximately $625.00, meals not included). A trip deposit (1/2) will be due on March 06, 2024, with the remaining portion due on April 28, 2023. The fee is nonrefundable unless the class is canceled. **Prerequisites** - Introductory course in Biology.

Dolphins and Whales (2cr UG) Dr. Lewis

This class will be an introduction to the biology of cetaceans (toothed and baleen whales). Topics covered will include evolution, taxonomy, anatomy, physiology, genetics, behavior, and conservation related to species within this Order. Lab exercises will introduce current methods used in cetacean research.

Prerequisites - General Biology.

Students may need to arrive at **7:30am for field trips, and/or work evenings and weekends to meet course needs (working in the lab, on projects, or participating in field exercises and/or overnight field trips). Some courses may have snorkeling and other water activities.

Course Descriptions

May Term- May 6th – 17th M-F (9AM-4PM) Enroll in one course only in this session.

Shark and Ray Biology (2cr UG/G) Dr. Drymon

This course focuses on the biology of sharks and rays, focusing on regional shark fauna and field techniques. Topics include chondrichthyan origin, systematics, sensory biology, locomotion, food consumption, osmoregulation, reproductive biology, life history, ecology, fisheries, and conservation. Lectures will include discussions of primary literature and field techniques through longline and gillnet sampling. As well as shark identification. **Prerequisites** - one course in general/organismal biology (or equivalent).

Coastal Zone Management (2cr UG/G) Dr. Anderson

A review of ecological features and of management policies for coastal communities with a description of relevant federal and state programs. This introductory level course examines the various aspects of coastal zone management in the United States by 1) examining the major substantive and procedural aspects of specific laws and regulations which govern activity in the coastal zone environment and processes; and 2) examining how coastal environments and processes affect specific management issues of the zone.

**Students may need to arrive at 7:30am for field trips, and/or work evenings and weekends to meet course needs (working in the lab, on projects, or participating in field exercises and/or overnight field trips). Some courses may have snorkeling and other water activities.

Coral Reef Session – April 1st -May 17th **Enroll in one course only in this session.**

Coral Reef Biology and Ecology (4cr UG/G) Dr. Hoadley

(4-credit hrs. total) 2-credit hours for self-paced online section + 2-credit hours for field course.

This course will explore the ecology and evolution of coral reef communities within a rapidly changing climate. This 4-credit course will begin with self-paced online course lectures and activities beginning in late spring (April). In May we will travel to Long Key in Florida and stay at the Keys Marine Lab (see above link) where we will have access to numerous coral reef and seagrass/mangrove systems to explore and conduct short experimental projects. The Florida Keys are experiencing unprecedented change in their ecosystems and contain reef systems in various states of health. This area also has significant restoration efforts in play which we will explore from ecological and conservation perspectives. Overall, this course covers energy flow across reefs, biogeochemical cycling important for continual reef development, microbial Interactions that govern the flow of carbon and nitrogen through coral reefs, and current threats from climate change.

*Special fees apply and will be determined by the number of participants in the course (approximately $1300.00 + food expenses). **To reduce travel costs**, interested students can travel with us to and from the Keys (departing from DISL via van on May 6th). A trip deposit (1/2) is due on March 15, 2024, with the remaining portion due on April 29, 2024. The fee is nonrefundable unless the class is canceled.

1st Session - May 20th - June 21st
MTW (9A-12P) LAB MT (1P-4P)

Marine Biology (4cr UG/G) Dr. Layton

This survey explores marine plants, invertebrates, and vertebrates, their communities, and their influence. Field trips will cover marsh, seagrass, and dune habitats. Students will learn about marine habitat diversity through sampling and laboratory exercises. Organisms will be identified using dichotomous keys. Overnight field trips require snorkeling gear.

Prerequisites - General Biology.

Marine Botany (4cr UG/G) Dr. Henning

This survey explores marine algae, salt marsh vegetation, mangroves, seagrasses, and maritime forest communities, with lectures on identification, distribution, structure, ecology, and physiology. Overnight field and laboratory work, including wading and snorkeling, requires snorkeling gear.

Prerequisites - General Biology

Course Descriptions

1st Session - May 20th - June 21st MTW (9A-12P) LAB MT

Marine Geology (4cr UG/G) Dr. Elliot

A study of the geology of the ocean basins, with special emphasis on the continental shelves, their sediments, and the sedimentary processes at work there with emphasis on the northeast Gulf of Mexico. Field trips will be taken to study beach processes and sediments in Mobile Bay and offshore. Students will be introduced to the following: technical writing; conducting a research project; working as a team member; data management; concepts of marine geology; critical thinking; principles of science (hypothesis testing). Participation in overnight field trips is a part of this course.

Prerequisites - introductory geology recommended.

Marine Mammals (4cr UG/G) Dr. Lewis

This course will cover the evolutionary history, taxonomy/classification, anatomy, physiology, behavior, and conservation/management issues of marine mammals (cetaceans, pinnipeds, mustelids, sirenians and the polar bear). In addition, research methods used to study marine mammals will be taught (including field and lab techniques). **Prerequisites** – General Biology.

1st Session - May 20th - June 21st M/T (9-11:30), Lab M (1-4P)

Marine Restoration Ecology (2cr UG/G) Dr. Temple

This course focuses on marine habitat restoration, scientific and technical principles, ecological concepts, and its role in science and society. Students will learn to identify structural and functional components of marine habitats, design restoration projects, and implement adaptive management strategies. They will also learn about the interdisciplinary nature of restoration science, including social, ethical, political, and economic aspects. Lectures will be supplemented by primary literature reading assignments. Field trips will allow students to see local restoration sites and learn monitoring techniques used in various habitats (e.g., salt marsh, oyster reef, seagrass bed). This course is designed for undergraduate and graduate students.
Prerequisites - One year of undergraduate introductory science (preferably an ecology course)

Hurricanes of the Gulf Coast (2cr UG/G) TH/F (9-11:30A), Lab TH (1-4p) Dr. Bregy

This is an introductory survey course on hurricanes with emphasis on hurricanes in the Gulf of Mexico. Topics include: 1) the hurricane problem along the Gulf Coast and a review of some of the infamous Gulf Coast hurricanes of the last 150 years; 2) Atlantic/Caribbean/Gulf hurricane climatology; 3) the effects of El Niño and multi-decadal changes in the Atlantic circulation on hurricane frequency; 4) favorable/unfavorable environments for hurricane development and intensification; 5) hurricane features and structure; 6) hurricane movement and steering mechanisms; 7) coastal and inland effects from landfalling Gulf Coast hurricanes; and 8) Gulf hurricane forecasting (where will the storm go and how strong will it be at landfall). A half-day boat trip along much of the length of Dauphin Island is planned (weather permitting) during the last week of class to inspect the impact of recent hurricanes on this barrier island. **Prerequisites** - None

Course Descriptions

1st Session – May 20th - June 21st
W (1P-4P) TH/F(9A-12P) LAB TH/F (1P-4P)

Coastal Wetlands Ecology (4cr UG/G) Dr. Steinmuller

This course will focus on coastal and nearshore wetland areas, with an emphasis on the biogeochemical process- es that occur within, and issues that threaten and protect these important resources. Wetlands not only provide critical habitat for many aquatic and semi-aquatic species, but they are also important for primary productivity, trans- formation of nutrients, pollutant removal, as well as providing protection from storm surges and floodwaters. Insight into wetland ecology requires understanding of the unique interactions between biology, chemistry, and hydrology**. Prerequisites** – General Biology & Botany or Zoology.

Marine Vertebrate Zoology (4cr UG/G) MTW 9-12, LAB MT1-4PM Dr. Albins

A survey of marine fishes, reptiles, and mammals, with an in-depth comprehensive treatment of their systematics, zoogeography, and ecology. Field and laboratory work will stress the vertebrate fauna of the northern Gulf of Mexico and most of the course will be devoted to fishes. Students completing this course will: 1) have a basic understanding of the biology, ecology, physiology, and systematics of the various marine. vertebrate taxa; 2) gain experience in field and lab identification of members of the various vertebrate taxa; and 3) gain experience in collecting various marine and island vertebrate taxa.

Prerequisites – Two semesters of General Biology & accompany labs.

Experimental Plankton Biology (4cr UG/G) Dr. Moss

This course examines the full diversity of microbial, phyto- and zooplankton in coastal to open ocean environments and will allow students to experimentally manipulate plankton. Students will learn the life cycles of planktonic organisms and will understand the diversity of plankton available within the Mobile Bay, Mississippi Sound, and open coastal waters in the vicinity of Dauphin Island Area. Students will identify plankton and learn how to assay plankton populations using classic filtration, microscopy, and molecular methods. Students will become familiar with the seasonal drivers of planktonic populations. Students will become proficient with their understanding of the microbial loop, anthropogenic impacts on phyto- and zooplankton and the mechanisms and implications of explosive jellyfish blooms, the concept of ‘Jelly World’, invasive species, and HABs. Students will experience diel migration in offshore day and night excursions. Students will examine 1-2 ‘hot’ new research papers each week in a brief journal club type session in which the topic will be critiqued by the group. This is an experimental course: All students will become familiar with the setup of an experiment and will work in groups of two to research an aspect of the biology of their favorite planktonic organism. Each student will keep a detailed notebook of collections (periodically reviewed) and their experiment, and additionally, will give a ten-minute classroom presentation or demonstration on their favorite planktonic organism. Students will have short quizzes each week to help students stay up to date, accumulative final test and will be graded for attendance. A textbook is required (Johnson & Allen, Zooplankton of the Atlantic and Gulf Coasts, Johns Hopkins Univ. Press) and an optional recommended highly visual text (Sardet, Plankton, Univ. Chicago Press) is suggested. Scientific papers will be provided online for no additional cost; numerous additional identification manuals/links will be made available. A prior course in Organismal Biology or equivalent is highly desirable but not required.

Course Descriptions

1st Session - May 20th - June 21st
W (1P-4P) TH/F (9A-12P) LAB TH/F (1P-4P)

Intro to Oceanography (4cr UG/G) Dr. Krause

This hands-on course provides students an opportunity to learn about the physics, chemistry, geology, and biology of the ocean. Students will apply this knowledge firsthand by implementing sample collection strategies on board a research vessel during cruises on Mobile Bay and the Gulf of Mexico. Through class discussion of recent oceanographic discoveries and core concepts and learning user-friendly ocean data and visualization software, this course will enable students to then interpret oceanographic data collected during their cruises and to create clear and concise presentations. Typical data collected on board the research vessel will include hydrographic (temperature, pH, salinity, inorganic nutrients, light intensity) and biological (phytoplankton, zooplankton) variables that are.

collectively processed and visualized. Students should have a laptop equipped with word processing and spread- sheet software. **Prerequisites** – Introductory science course

1st Session - May 20th - June 21st
TH/F (9A-4P)

Coastal Birds of Alabama (2cr UG/G) Dr. Woodrey

This course highlights the diverse coastal birdlife of northern Gulf of Mexico. With a focus on the study of avian ecology in the field, this class will include a significant emphasis on the use of both sight and sound as means of field identification. A variety of habitats will be explored, including barrier island nesting grounds, the Mobile-Tensaw River basin, local marshes, and other unique coastal habitats. Students will also be introduced to a variety of field ornithology techniques including bird-banding, survey techniques, and monitoring methodologies. Email questions to Mark.Woodrey@msstate.edu.

Prerequisites – Undergraduate Biology or Zoology course

**Students may need to arrive at 7:30am for field trips, and/or work evenings and weekends to meet course needs (working in the lab, on projects, or participating in field exercises and/or overnight field trips). Some courses may have snorkeling and other water activities.

Course Descriptions

2nd Session - June 24th - July 26th
MTW(9A-12P) LAB MT (1P-4P)

Marine Biology (4cr UG/G) Dr. Titus

A general survey of marine plants, invertebrates and vertebrates, the communities they form and the physical and chemical factors that influence them. Field trips include marsh, seagrass, and dune habitats. Sampling from research vessels and laboratory exercises will serve to introduce students to the diversity of marine habitats and organisms. Organisms will be identified using dichotomous keys. There will be overnight field trips. Snorkeling gear will be needed. **Prerequisites** - General Biology.

Marine Conservation Biology (4cr UG/G) Dr. Henning

This advanced course, suitable for juniors, seniors, and graduate students, aims to explore marine biodiversity threats and potential solutions. Students will participate in class discussions, critically evaluate primary literature, and explore various entities' perspectives on marine conservation issues. Field trips will support lectures and demonstrate the application of current principles in marine conservation.
Prerequisites - Introductory class in marine science or general biology.

Marine Invertebrate Zoology (4cr UG/G) Dr. Carmichael

This course surveys the morphology, natural history, and evolutionary relationships of marine invertebrates. The course includes lectures, laboratory exercises and extended field trips. Participation in overnight field trips is a part of this course. Snorkeling gear will be needed.

Prerequisites - Introductory Biology or Zoology.

Course Descriptions

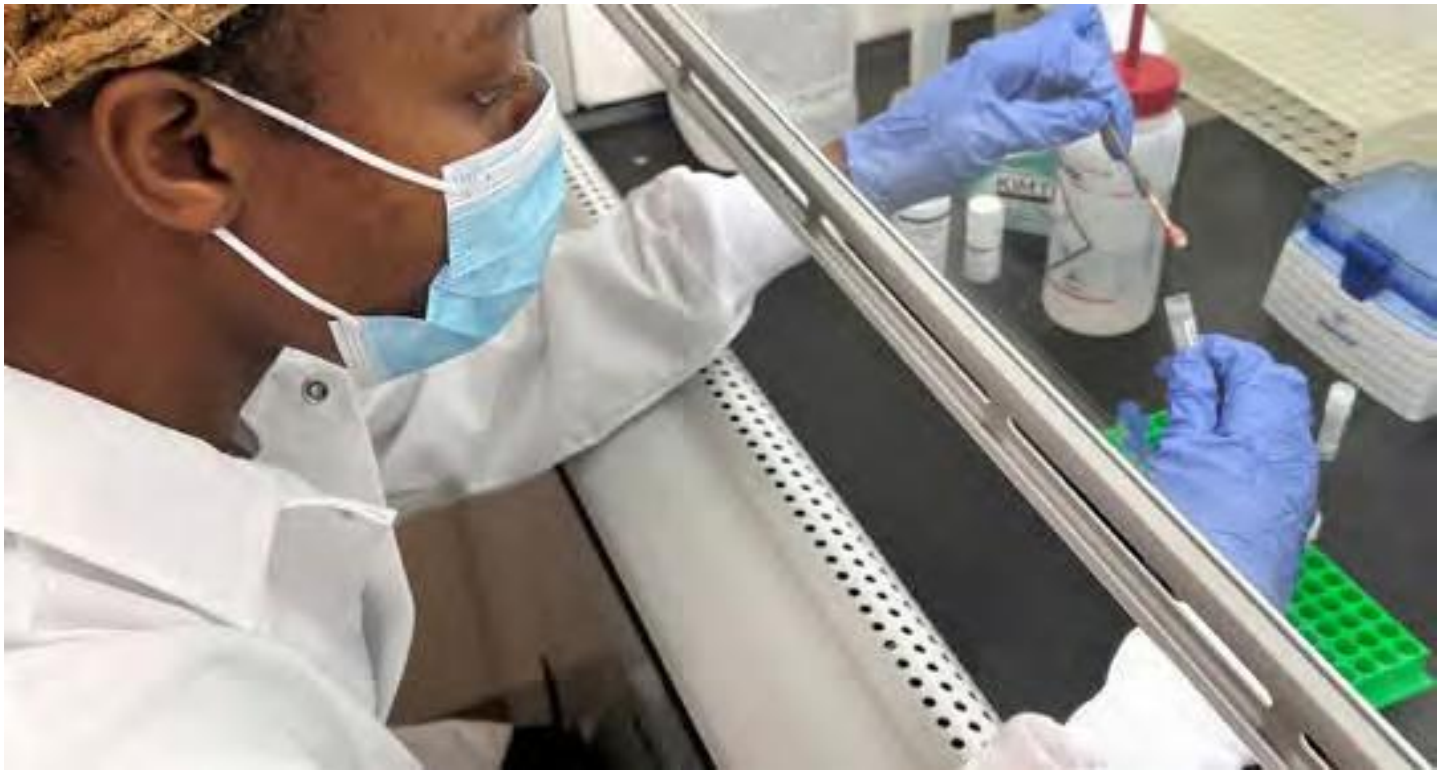
2nd Session - June 24th - July 26th
M/T (9A-4P)

Environmental Applications of GIS (online only) Dr. Fleming
(2cr UG/G)

This course consists of learning applied mapping and analysis with GIS and will leverage other geospatial techniques including remote sensing, geovisualization, and spatial analysis with particular emphasis on environmental applications. Students will use knowledge acquired from readings, guided activities, and instructor demonstrations to apply GIS data including vector and raster spatial data, imagery, maps, and surface models in examinations of contemporary coastal and marine science issues. Students will be exposed to working with spatial information regarding human and natural hazards and disasters, land use and land cover, coastal monitoring, and other relevant data types. Some lectures are required, but this course will emphasize a "hands-on" approach to learning GIS through practical assignments and projects in a computer lab and in the field. Industry leading ArcGIS software will be used along with exposure to online and open-source technology. Prerequisites - statistics or equivalent course in math. This course is **asynchronous**

Marine Aquaculture (2cr UG/G) Dr. Stoeckel

This course will introduce students to techniques in live animal culture with an emphasis on basic principles that can be applied to the culture of any organism for research, display, or commercial profit. Topics discussed will include water chemistry, filtration, production techniques, reproduction, and nutrition. This course is also designed to assist students with problem solving and communication skills. **Prerequisites** - General Biology required; ichthyology, limnology, and invertebrate zoology suggested, **but not required.**



Course Descriptions

Special Session – July 29th – August 2nd

Marine Biology Hybrid Dr. Gannon

This is a six-week asynchronous Marine Biology course (see course description above) with an additional week in person at the Dauphin Island Sea Lab for field and lab activities (July 29th through August 2nd). **The online portion of the course is asynchronous and does not have specific meeting times, however assignments and activities are due on a weekly basis**. Students are expected to complete work within the specific week it is assigned. **Students must attend the in person field and lab portion of the course, which starts July 31st and ends August 4th.**

**** Hybrid marine biology is online during the 5-week session but requires students to be at DISL July 29th – August 3rd.**

Course Descriptions

2nd Session - June 24th - July 26th
W (1P-4P) TH/F (9A-12P) LAB TH/F (1P-4P)

Marine Ecology (4cr UG/G) Dr. Dorgan

This advanced course is open to juniors, seniors and graduate students. The class will study marine organisms as they interact with each other and their environment and examine ecological theories and the experimental basis of our current knowledge. The laboratory will consist of field trips to a wide variety of marine habitats and field problems which will be examined by student teams in small groups. Habitats selected for emphasis include coral reefs, kelp forests, seagrass meadows, rocky intertidal and deep-sea hydrothermal vents. Snorkeling gear will be needed. **Prerequisites** - General Biology.

Marine Behavioral Ecology (4cr UG/G) Dr. Gier

The course examines how animal behavior is influenced by and interacts with its environment, and the ecological and evolutionary significance of these behaviors in a marine setting. Students will learn principles of behavioral ecology as they relate to marine animals, become familiar with techniques for observing animal behavior and conducting behavioral experiments, and be introduced to methods for collecting and analyzing behavioral data. Snorkeling gear will be needed. **Prerequisites** - introductory course that covers zoology (vertebrate or invertebrate).

Marine Vertebrate Zoology (4cr UG/G) Dr. Baker

A survey of marine fishes, reptiles and mammals, with an in-depth comprehensive treatment of their systematics, zoogeography and ecology. Field and laboratory work will stress the vertebrate fauna of the northern Gulf of Mexico and most of the course will be devoted to fishes. Students completing this course will: 1) have a basic understanding of the biology, ecology, physiology and systematics of the various marine vertebrate taxa; 2) gain experience in field and lab identification of members of the various vertebrate taxa; and 3) gain experience in collecting various marine and island vertebrate taxa. **Prerequisites** - two semesters of general biology (or equivalent) and accompanying labs.

**Students may need to arrive at 7:30am for field trips, and/or work evenings and weekends to meet course needs (working in the lab, on projects, or participating in field exercises or overnight field trips). Some courses have snorkeling & other water activities.

Course Descriptions

2nd Session - June 24th - July 26th TH/F (9A-4P)

Biotic Response to Sea Level Change (2cr UG) Dr. Wofford

This course is an overview of sea level change over geologic time with emphasis on mechanisms of change, evidence of past sea level changes, and the impact of expected sea level changes on the marine biosphere. Topics include: global climate change and eustasy, tectonically-forced sea level change, epeiric seas, transgression and regression sedimentology, coastal geomorphology, and marine and coastal habitat change. Field studies emphasize local evidence for sea level change, habitat shift and reorganization, and human response to changing sea level, such as community displacement, shoreline stabilization, and beach-fill nourishment. This course is designed for undergraduate and graduate students in the physical and biological marine sciences. T**his course is online and asynchronous with optional field trips (days TBA).**

Marine Mammal Health (2cr UG/G) TBD

The course will provide an overview of marine mammal stranding response, health assessments and common diseases of bottlenose dolphins, manatees and sea lions. Lectures will be focused on how marine mammals act as sentinels for ocean health, including the effects of oils spills, harmful algal blooms and marine debris on marine mammals. This course requires participation in marine mammal necropsies, which includes hands-on dissection of carcasses, internal organs, blood, and can have foul smells. Due to potential risk of zoonotic disease, you may not want to participate in necropsies if you are pregnant or immune compromised. Personal protective equipment will be available and is required. A fieldtrip to an aquarium will provide the opportunity to see medical examinations of dolphins and sea lions, and participation in live and dead marine mammal stranding response will be available on a volunteer basis as opportunities present throughout the course. **Prerequisites -** 3rd or 4th year undergraduate- completion of Dolphins and Whales or Marine Mammals course; graduate student; or consent of the instructor.

Neurobiology Session
July 29th – August 16th M-S (9A-5P)

Intro. to Neurobiology (3cr Adv.UG/G) Dr. Strang et al

Students will be introduced to the neuroanatomy and neurophysiology of marine invertebrates and vertebrates. The following aspects of neurobiology will be covered in lectures and laboratory exercises: neurons and glia; passive properties of neurons; resting potentials; action potentials; synaptic transmission; neurotransmitters and receptors; sensory transduction; muscle innervation and contraction; sensorimotor integration; and neurophysiological bases of behavior. In addition, students will use computer simulations that allow a more in-depth exploration of cellular neurobiology than is possible in standard laboratory classes. Students will be introduced to aspects of molecular biology and its applications to neuroscience. This class will include evening and Saturday sessions. The following are recommended but not required: general chemistry and general physics; or permission of the instructor. **Prerequisites** - Introductory Biology.

DISL Summer Program Faculty/Research Interest

Albins, Mark A., Ph.D. Research Associate, University of South Alabama. The ecology of reef-associated marine fishes, including effects of invasive species and fishing on populations and communities. malbins@disl.edu.

Anderson, Christopher, Ph.D. Professor of Wetland Ecology, School of Forestry and Wildlife Sciences, Auburn Univ. Wetlands; coastal ecology; land use change and watershed management. andercj@auburn.edu

Baker, Ronald, Ph.D. Assistant Professor, University of South Alabama, and Senior Marine Scientist, Dauphin Island Sea Lab. Coastal and estuarine fisheries ecology; nursery ground ecology; predation and food-web ecology; seascape use of fishery species. rbaker@disl.edu.

Bregy, Joshua, Ph.D. Postdoctoral Researcher in Paleotempestology and Paleoclimatology, Department of Geography, Indiana University. Multiproxy paleotempestology/prehistoric hurricane reconstructions; hurricane-climate interactions; coastal hazards and floods; paleoclimatology/hydro climatology; developing multiproxy techniques; coastal geology/geomorphology; and dendrochronology. jbregy@indiana.edu

Carmichael, Ruth, Ph.D. Senior Marine Scientist III DISL, Professor, School of Marine and Environmental Sciences, Univ. of South AL. Research combines traditional ecological techniques with elemental and telemetry methods to understand how organisms, from shellfish to marine mammals, respond to environmental perturbations including physiological responses, changes in growth and survival, or movement patterns. rcarmichael@disl.edu.

Dorgan, Kelly M., Ph.D. Senior Marine Scientist I DISL, Assistant Professor, Dept. of Marine Sciences, Univ. of South AL. Sediment ecology, focused primarily on organism-environment interactions; biomechanics and energetics of burrowing; biological-physical interactions; functional morphology of invertebrates. kdorgan@disl.edu.

Drymon, J. Marcus, Ph.D. Assistant Extension Professor, MSU Coastal Research and Extension Center. Research interests include marine fisheries ecology, specifically trophic interactions/food web dynamics of upper trophic-level predators and ecosystem-based fishery management. marcus.drymon@msstate.edu.

Elliott, Emily A. (Timmons), Ph.D. Postdoctoral Researcher/ Adjunct Faculty, Univ. of Alabama. Coastal geology and geomorphology, paleo- and geochronology, sedimentology and paleotempestology, focusing on understanding the climatic drivers of coastal change. emily.elliott@ua.edu.

Fleming, Jonathan P., Ph.D. Associate Professor, Department of Geography and Sociology, Howard College of Arts and Sciences, Samford University. Current research topics include identifying mechanisms and patterns of species invasions, aquatic and wetland plants, and spatial ecology projects using applied GIS to understand contemporary environmental change. j.fleming@samford.edu

DISL Summer Program Faculty/Research Interest

Gannon, Andy, Ph.D. Professor of Biology, Birmingham Southern College. Wetlands ecology, coral reef ecology, comparative physiology of Crustaceans. agannon@bsc.edu

Gier, Paul J., Ph.D. Professor of Biology, Huntingdon College, Montgomery, AL. Zoology, ecology, and evolution. Conservation biology of insects, sexual selection, and the evolution of vertebrate mating systems. pgier@hawks.huntingdon.edu.

Henning, Jeremiah A. Ph.D. Assistant Professor, University of South Alabama. Coastal plant community ecology, biodiversity-ecosystem function linkages, mycorrhizal fungi, plant-microbe interactions, global change ecology. henning@southalabama.edu.

Hoadley, Kenneth, Ph. D Senior Marine Scientist I DISL, Assist. Professor, Dept of Biological Sciences, University of Alabama. Current research topics include coral reef biology and marine algal photobiology and primary production. khoadley@disl.edu

***Keyser, Kent, Ph.D.** Professor, Dept. of Vision Sciences, Assistant Vice President for Research, Univ. of AL Birmingham. Communication between neurons: neurotransmitters, neurotransmitter receptors in the retina and brain. ktkeyser@uab.edu.

Krause, Jeffrey, Ph.D. Senior Marine Scientist III DISL, Professor, School of Marine & Environmental Sciences, University of South Alabama. The biogeochemical cycle of silicon in the water column, sediments, and cryosphere and the fate of diatom organic matter in aquatic ecosystems. jkrause@disl.edu.

Layton, Jenny, Ph.D. Assistant Professor Biology & Environmental Science, Samford University. Vertebrate biologist with experience in Marine biology and sea turtles. jlayton@samford.edu

Lewis, Jennifer, Ph.D. Director, Tropical Dolphin Research Foundation. Animal movement and the benefits of group formation; foraging ecology; behavioral ecology of tropical dolphin species; marine ecological conservation with focus on non-lethal effects of vessel traffic on marine species. jlewi006@fiu.edu.

Moss, Anthony G., Ph.D. Associate Professor of Biological Sciences, Marine Biology Program Coordinator, Auburn Univ. Ctenophores and jellyfish, salps, marine microbial biology, cilia & flagella. mossant@auburn.edu.

***Smee, Lee, Ph.D.** Chair DISL University Programs, Senior Marine Scientist II DISL, Associate Professor, Dept. of Marine Sciences, Univ. of South AL. Current research topics include oyster reef ecology, mangrove encroachment, pesticide effects on blue crabs, and biogeography of seagrass communities in the Gulf of Mexico. lsmee@disl.edu

***Sprinkle, Amy, Ph.D.** Marine Science Instructor, Univ. South AL. Oceanography, chemical & biological oceanography, marine biology, biological sciences, terrestrial and aquatic ecology, and trophic dynamics. sprinkle@southalabama.edu

Steinmuller, Haveland, Ph.D. Senior Marine Scientist, DISL; Assis- tant Professor, School of Marine and Environmental Sciences, University of South Alabama. Research focuses on how biogeochemical cycling of carbon, nitrogen and phosphorus within coastal systems (mangroves, tidal marshes, intertidal oyster reefs) responds to disturbance, including sea-level rise, eutrophication, and extreme events. hsteinmuller@disl.edu

Stoeckel, Jim, Ph.D. Associate Professor, Auburn Univ., School of Fisheries, Aquaculture, and Aquatic Sciences. Crustacean and molluscan ecology and aquaculture; physiological ecology; ecotoxicology; special focus on burrowing crayfish and mussels. jas0018@auburn.edu.

Strang, Christianne, Ph.D. Assistant Professor, Dept. of Psychology, University of Alabama Birmingham Visual processing in health and disease. cstrang@uab.edu.

Temple, Nigel A., Ph.D. Assistant Professor, Department of Civil, Coastal, and Environmental Engineering, University of South Alabama. Coastal Restoration Ecology, Wet- lands, Waves, Low-cost Environmental Sensing. natemple@southalabma.edu

Titus, Benjamin, Ph.D. Assistant Professor of Marine Biology, Dept. of Biological Sciences, Univ. of Alabama. Evolution and ecology of tropical marine symbiosis; phylogenetics; biogeography; sea anemones; clownfish; cleaning mutualisms; coral reefs. btitus@disl.edu

***Valentine, John, Ph.D.** Executive Director and Senior Marine Scientist III DISL, Professor, Dept. of Marine Sciences, Univ. of South AL. jvalentine@disl.edu.

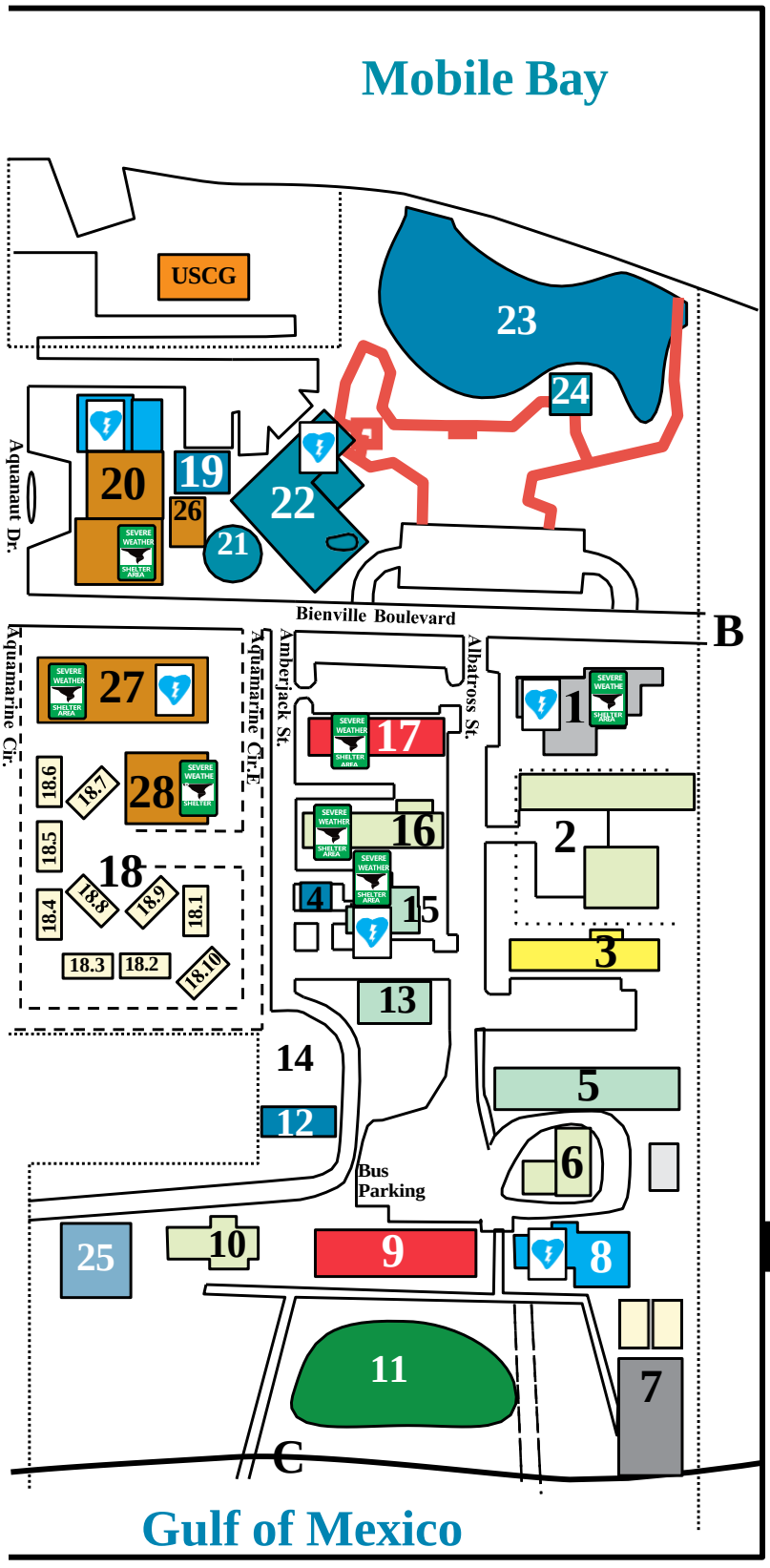
Wibbels, Thane, Ph.D. Associate Professor of Biology, University of Alabama Birmingham. The biology of temperature-dependent sex determination in reptiles, including emphasis on its implications for the ecology, evolution and conservation of sea turtles. twibbels@uab.edu.

Wofford, Sarah, Ph.D. Assist. Professor, Dept. of Biology, Jacksonville State Univ. Current research topics include the aggressive behaviors of aquatic invertebrates, the chemical ecology of social interactions, and the effects of environmental change on resource acquisition and agonistic behaviors**.** swofford@jsu.edu

Woodrey, Mark, Ph.D. Avian Ecologist/Coastal Ecologist at MS State Univ., Research Coordinator at Grand Bay National Estuarine Research Reserve. Marsh bird ecology and conservation; monitoring programs for biological resources; tidal marsh ecology; ecological effects of sea level rise on coastal ecosystems. msw103@ra.msstate.edu.

*These faculty are not instructing undergraduate courses this year.

Dauphin Island Sea Lab Facilities Map



* 1. Administrative Offices, Registration, Classroom and Study Hall
2. Maintenance/Vehicle-Boat Yard
3. Albatross Hall (Closed)
4. Laundromat
5. DHP Computer Lab/Classroom 5
6. Endeavor Hall (Classrooms)
7. Basketball, Volleyball Courts
8. Discovery Hall (Classrooms/Offices)
9. Horizon Hall (Classrooms/Offices)
10. Galathea Hall (Class/Meeting Room)
11. Sea Pines
12. Swimming Pool
13. Mesocosm Facility
14. Future Aquatic Center
15. May's Cafe
16. Challenger Hall (Dormitory)
17. Beagle Hall (Dormitory)
18. (#1-10), Faculty Housing
19. Multistressor Lab Building
20. Wiese Marine Science Hall
21. Husbandry Building
* 22. Alabama Aquarium, Gift Shop
23. Living Marsh and Boardwalk
* 24. Ladner Pavilion
25. Auburn Univ. Shellfish Lab
26. Wet Lab
27. Shelby Fisheries Management Center
28. Marine Mammal Research Center

* A. To the Water Tower and Audubon Sanctuary
* B. To Fort Gaines
C. To Gulf Of Mexico Beach
D. To DISL Research Vessels

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at Dauphin Island Sea Lab

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- Benthic ecology
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- Toxicology
- Plankton ecology
- Marine mammal ecology
- Physical oceanography

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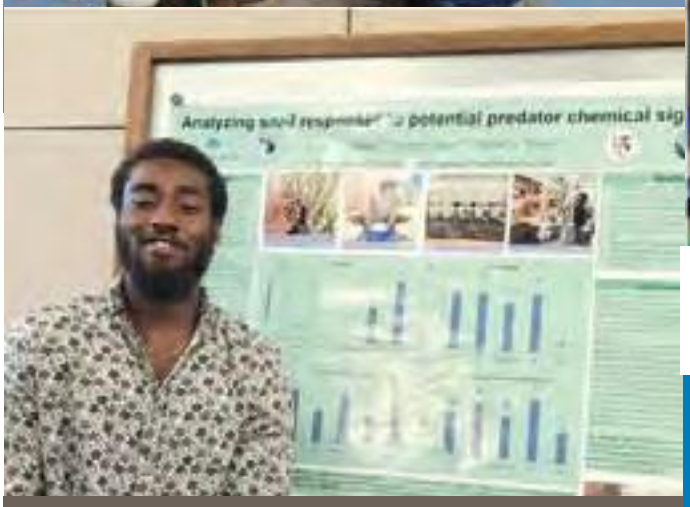
Professional development
Field trips



Dauphin Island Sea Lab
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