Dauphin Island Sea Lab
UNIVERSITY PROGRAMS

2022
The Marine Environmental Science Consortium of Alabama

www.DISL.edu
Summer Undergraduate and Graduate Courses
**Research Experience for Undergraduates**

**Marine Science Fellowships**

May 30-August 5, 2022

at Dauphin Island Sea Lab

Eight undergraduate fellowships
- Ecology of marine & estuarine invertebrates & fishes
- Marsh & seagrass ecology
- Microbial ecology
- Molecular biology & genetics
- Biogeochemistry
- Benthic ecology
- Trophic interactions
- Toxicology
- Plankton ecology
- Marine mammal ecology
- Physical oceanography

On-site housing
- Travel & food allowance
- $5,000 stipend

Research experience with a faculty mentor
- Professional development
- Field trips

Apply Today: www.disl.edu/univ-prog/nsf-reu

Underrepresented minorities, veterans, & non-traditional students encouraged to apply

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Register online

www.disl.org/univ-prog/undergrad
DISL Campus Contact Information

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<thead>
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</tr>
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</tr>
</tbody>
</table>

Dauphin Island Sea Lab
101 Bienville Blvd.
Dauphin Island, AL 36528

Phone: (251) 861-2141
Fax: (251) 861-7540

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

MESC/Dauphin Island Sea Lab (DISL) values diversity and inclusion and seeks to create a climate of mutual respect and full participation. If you feel you may encounter barriers during your studies at DISL, based on the impact of a disability or health condition, please let your instructor know immediately to determine if reasonable accommodations can be provided. You will have an opportunity to identify your need(s) in detail during the course registration process. For more information please contact the DISL University Program’s Registrar Ms. Regina Kollegger.

The Dauphin Island Sea Lab

The Marine Environmental Sciences Consortium (MESC) was formed in 1971 by the Alabama Legislature as a result of the decision by the presidents of Alabama’s largest colleges and universities to limit duplication of facilities and programs related to marine sciences. The MESC, composed of twenty-two colleges and universities, is commonly referred to as the Dauphin Island Sea Lab (DISL), and is recognized regionally and nationally as a marine sciences institution of growing academic and research distinction.

At the DISL, year-round undergraduate and graduate education and basic and applied research are carried out through the University Programs, while K-12 education, teacher-training and educational outreach activities are directed through the Discovery Hall Programs.

The Facilities

The Dauphin Island Sea Lab is located on a 36-acre campus on the east end of Dauphin Island, 35 miles south of Mobile, Alabama. The facilities accommodate over 160 persons in residence. The DISL campus is a no-smoking, no-weapons, no-pets campus.

Support facilities include an apartment building for resident graduate students, 2 dormitories, a cafeteria, 8 three-bedroom houses for faculty, and a laudromat.

Recreational facilities on campus include volleyball and basketball courts, a swimming pool, and beach access.

Teaching facilities include 8 classrooms and laboratories.

The Study Hall, in the Administration building, is equipped with PCs for student use. A variety of Windows programs are available for word-processing, data management, statistical analysis, communications and graphic presentations.

Network and wireless Internet access is also available to registered students.

Scientific titles, periodicals and books, are accessible via our website, library.disl.edu. Students can reserve titles via our website.

The graduate and research programs are housed in the Wiese Marine Science Hall, which contains 24,000 square feet of research labs with office space, and the 10,000-square-foot Shelby Center for Ecosystem-based Fisheries Management.

Available instrumentation in the shared user Analytical Facility includes a flash combustion elemental analyzer for the determination of total carbon and nitrogen (ECO 4010-A Shimadzu TOC-5000 for determination of dissolved carbon including total dissolved carbon (TC), non-purgeable organic carbon (NPOC), dissolved inorganic carbon (DIC) with the capability of determining total dissolved nitrogen simultaneously (TN); and is equipped with an autosampler. Dissolved nutrients are measured with a Skalar San++ auto analyzer which has the capability of determining the dissolved species nitrite, nitrate + nitrite, ammonium and phosphate simultaneously with a 10ml sample volume. Total dissolved nitrogen (via persulfate oxidation), particulate organic phosphorous and total dissolved phosphorous methods have also been developed for the Skalar analyzer. The analytical facility is also equipped with an Agilent 7700 inductively coupled plasma mass spectrometer with sample introduction via an autosampler for dissolved samples and an ESI laser ablation platform (NWR-213) for sampling solid materials. DISL faculty also have a wide variety of chromatography systems (gas and HPLC), fluorometers, mass spectrometers and spectrophotometers.

Support equipment includes balances, a refrigerated centrifuge, a hypolisher, muffle furnaces/ovens, research grade deionized water, computer equipment and the usual complement of laboratory materials.

Field gear includes high resolution CTDs and current meters, oxygen meters, plankton nets, corers, data
Course Registration

As you identify the course(s) in which you would like to enroll, be sure that you have the prerequisites, and make sure that you do not have scheduling conflicts. It is also important to list both first and second choices for courses when registering.

Once you have designed a program of study and are ready to register, you must receive written approval from your campus liaison officer, as campus registration needs vary from institution to institution. Course numbers and course level (undergraduate/graduate) vary among the member schools. It is your responsibility to ensure that DISL courses will be accepted at your home institution.

Once you have received written approval from your campus liaison officer, you may submit your advising form from your campus liaison officer. Please see page 23 for detailed registration procedures.

Because of limited class size (generally capped at 20), classes often fill early. It is important that you register online by February 11, 2022, for priority registration, to insure you get your first choice courses.
### Summer University Programs Course Schedule 2022

#### A Courses

- **Biology & Conservation of Marine Turtles (2cr UG/G)** Wibbels
- **Dolphins and Whales (2cr UG)** Lewis
- **Ecology of the Florida Everglades (2cr UG/G)** Titus
- **Shark and Ray Biology (2cr UG)** Drymon
- **Coastal Zone Management (2cr UG)** Anderson

**Special May Session: March 1-May 22**

#### B Courses

- **Biotic Response to Sea Level Change**
  - Lecture: M-F (9A-5P)
- **Intro to Oceanography (4cr UG)** Devlin
- **Marine Biology (4cr UG)** Gannon
- **Marine Conservation Biology (4cr UG)** Robertson
- **Marine Vertebrate Zoology (4cr UG)** Carmichael

**Schedule C4: 4-hour courses**

- Lecture: M/T/W (9A-12P); Lab: M/T (1P-4P)
- Marine Biology
- Marine Botany
- Marine Mammals
- Marine Vertebrate Zoology

#### C Courses

- **Biology and Conservation of Marine Turtles (2cr UG/G)** Wibbels

This introductory course will provide an overview of the biology and conservation of marine turtles. Topics to be covered may include identification, distribution, nesting behavior, migratory behavior, feeding ecology, population biology and genetics, developmental habitats, temperature-dependent sex determination, paleontology, and conservation of marine turtles. Students will obtain a detailed knowledge of sea turtle biology; gain an understanding of why many sea turtle species have become endangered, and how proper management has allowed some populations to recover. The course will culminate with an overnight, multi-day field trip to sea turtle nesting beaches and foraging grounds in the southeastern U.S. The class will also visit sea turtle research and rehabilitation facilities. The overnight field trip will provide students with the opportunity to observe loggerhead, green, and leatherback 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, 2021, with the remaining portion due on April 29, 2021. The fee is nonrefundable unless the class is canceled. Prerequisites - introductory course in biology.

- **Dolphins and Whales (2cr UG)** Lewis
- **Shark and Ray Biology (2cr UG)** Drymon

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.**

**Special Session July 18-August 5**

**EX Course**

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

### May Term - May 9 - 20

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Instructor</th>
<th>Description</th>
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<tbody>
<tr>
<td>Ecology of the Everglades</td>
<td>2 UG/G</td>
<td>Dr. Stanton</td>
<td>This course examines the natural history and ecology of the world’s rarest and most endangered wilderness area. The course will consist of a week of lectures and discussions focusing on the history, geology, hydrology, and biota of this system, and then a week of field exploration to examine the Everglades and associated systems. The field component will consist of excursions and tent camping in several Florida State Parks. As such, participants should bring appropriate gear and be prepared to actively and cheerfully participate.</td>
</tr>
<tr>
<td>Coral Reef Biology and Ecology</td>
<td>4 UG/G</td>
<td>Dr. Hoadley</td>
<td>This course will explore the ecology and evolution of coral reef communities, with a view to understanding what is happening on reefs today. This 4 credit course will begin with online course lectures beginning on May 1st, followed by a two-week trip to the Florida Keys. The online portion of the course will be self paced (with some online discussions) and cover 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. The online portion must be completed by May 1st. Students will then spend May 7th - 22nd in the Florida Keys, carrying out short experimental projects and exploring various coral reef and mangrove systems. There is no assigned textbook and most readings will be research articles and posted prior to the lecture. <strong>Prerequisites</strong> - 2 semesters of general biology or equivalent required, general ecology course recommended.</td>
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### Special May Term - March 1 - May 22

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Marine Biology</td>
<td>4 UG/G</td>
<td>Dr. Laiton</td>
<td>A general survey of marine plants, invertibrates 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. <strong>Prerequisites</strong> - general biology.</td>
</tr>
<tr>
<td>Marine Botany</td>
<td>4 UG/G</td>
<td>Dr. Hennig</td>
<td>A general survey of marine algae (microscopic and macroscopic), as well as salt marsh vegetation, mangroves, seagrasses and maritime forest communities. Lectures will emphasize identification, distribution, structure, ecology and physiology. Overnight field and laboratory work is involved, and may include wading and snorkeling. Snorkeling gear will be needed. <strong>Prerequisites</strong> - general biology.</td>
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**Register online**

www.disl.edu/univ-prog/undergrad
Course Descriptions

1st Session - A4 Courses
May 23- June 24
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 - A2 Courses
May 23 - June 24
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.

1st Session - A2 Courses
May 23- June 24
Hurricanes of the Gulf Coast (2cr UG/G) Dr. Bregy
This is an introductory 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.

1st Session - B4 Courses
May 23- June 24
Coastal Wetlands Ecology (4cr UG/G) Dr. Stanton
This course will focus on coastal and nearshore wetland areas, with an emphasis on the biogeochemical processes 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, they are also important for primary productivity, transformation 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 and botany or zoology.

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 first hand 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 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 spreadsheet software. Prerequisites - basic science major.

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.
**Course Descriptions**

**1st Session - B2 Courses**
**May 23- June 24**

**Marine Vertebrate Zoology (4cr UG/G)**  
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 (or equivalent) and accompanying labs.

**1st Session - B2 Courses**
**May 23- June 24**

**Marine Restoration Ecology (2cr UG/G)**  
Dr. Stanton  
This course will provide an overview of the scientific and technical principles of marine habitat  
restoration. We will discuss the role of key ecological concepts in restoration, and the role of restoration  
in science and society. Students will identify structural and functional components of marine habitats and  
learn how to design restoration projects and monitoring plans that capture these key components of  
structure and function. Students will learn to recognize when adaptive management may be needed, and  
how to formulate strategies to correct or maintain the desired trajectory of restored habitats. Students will  
also be introduced to the interdisciplinary nature of restoration science, including social, ethical, political  
and economic aspects. Lectures will be supplemented with 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 including an ecology course)  
or consent of the instructor.

**Plankton Lecture (2cr UG/G)**  
Dr. Moss

**Lecture**: This course will examine all classes of plankton: microbial; phytoplankton; and zooplankton,  
including the ‘gelatex’, copepods and planktonic larvae. Students will experience coastal and at-sea trips to  
collect plankton. The plan is to have one at-sea trip during the day; the other at night. Students will identify  
plankton, learn how to assay plankton populations using classic filtration and modern imaging  
and molecular methods. We will discuss invasive species, the microplastic, ‘Jelly World’, anthropogenic  
impact on phyto- and zooplankton and the mechanisms and implications of explosive jellyfish blooms  
and HABs. We will also cover collection and analysis methods. We will examine ‘hot’ new research  
papers each week in a journal club type session. Each student will keep a detailed notebook, give a ten-  
minute presentation on his/her favorite planktonic organism and a report and presentation on a  
research project with that organism. A text is required (Johnson/Allen) and an optional recommended  
but very helpful and beautiful visual text (Sardet) is suggested. Scientific papers will be referenced;  
additional identification manuals will be made available.  
**Prerequisites**: Principles of Biology, Organismal Biology or equivalent.

**2nd Session - C4 Courses**
**June 27 - July 29**

**Marine Biology (4cr UG/G)**  
Dr. Gannon  
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. Robertson  
This advanced course is open to juniors, seniors and graduate students. This course will explore the major  
threats to marine biodiversity as well as the pros and cons of the potential solutions to these threats. Students  
will participate in class discussions on current topics in marine conservation biology and will critically  
evaluate marine conservation primary literature as well as the viewpoints of the various entities involved in  
marine conservation issues. In addition, students will participate in field trips that support topics covered in  
lectures and will demonstrate the application of current principles in marine conservation.  
**Prerequisites** - an introductory class in either marine or general ecology.

**Marine Invertebrate Zoology (4cr UG/G)**  
Dr. Carmichael  
This course surveys the morphology, natural history and evolutionary relationships of the 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.

**Intro to Oceanography (4cr UG/G)**  
Dr. Devlin  
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 first hand by implementing sample collection  
strategies on board a research vessel during cruises on Mobile Bay and the Gulf of Mexico. Through class  
discussions of recent oceanographic discoveries and core concepts, and learning user-friendly ocean data  
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 spreadsheet software.  
**Prerequisites** - basic science major.
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. This course is online and asynchronous with optional field trips (days TBA).

**Marine Mammal Health**

Dr. Bloodgood

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 oil 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.

**Tropical Marine Biodiversity**

Dr. Titus

Interactions between species profoundly impact the behavior, formation, and distribution of marine biodiversity. Symbiotic relationships, (think Finding Nemo and the clownfish-sea anemone mutualism), represent a special type of interaction that has formed over evolutionary timescales and are especially prevalent in tropical marine ecosystems. Over 25% of all marine biodiversity is found in shallow tropical seas, although these habitats account for only 0.1% of the seafloor. Symbiotic relationships are critical to this success and biodiversity, and no ecosystem on the planet is more conspicuously reliant on symbioses than coral reefs. This course will explore the behavior, diversity, ecology, and evolution of tropical marine species interactions, with a particular focus on symbiotic relationships (mutualism, commensalism, and parasitism). This hybrid in-person/online course will serve as a precursor to a 12-day field-based course that will travel to the island of Utila, part of the Bay Islands, Honduras from 7/29/22-8/10/22 to study the tropical marine biodiversity and behavior of symbiotic interactions in the Caribbean Sea.

We will be staying at Coral View Beach & Dive Resort, which is uniquely situated next to a variety of diverse tropical marine habitats (coral reef, seagrass, mangrove, etc.). Coral View will provide all food and lodging, as well as snorkel equipment (if needed) and boat use for any offshore day trips. An additional course fee of $1500 will cover all transportation (airfare & ferry), food, lodging, and boat use for the 12-day course.
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, the rocky intertidal and deep-sea hydrothermal vents. Snorkeling gear will be needed. 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.**
DISL Summer Program Faculty/Research Interest

Albins, Mark A., Ph.D. (Oregon State University, 2011). 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. (Ohio State Univ., 2005). 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. (James Cook Univ., 2006). 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; seascrape use of fishery species. rbaker@disl.edu.

Bloodgood, Jennifer, DVM, PhD (University of Georgia 2016). Veterinarian and Postdoctoral Researcher, DISL, Marinal Mammal Research Center and Alabama Marine Mammal Stranding Network. Free-ranging wildlife health; One Health; infectious and zoonotic disease; forensic pathology; marine mammal stranding response and necropsy. jbloodgood@disl.edu.

Bregy, Joshua, Ph.D. (Indiana University, 2021). Postdoctoral Researcher in Paleotempestology and Paleoclimatology, Department of Geography, Indiana University. Multiproxy paleotempestology/prehistoric hurricane reconstructions; hurricane-climate interactions; coastal hazards and floods; paleoclimatology/ hydrogen-isotope dating; developing multiproxy techniques; coastal geology/geomorphology; and dendrochronology. jfbregy@disl.edu.

Carmichael, Ruth, Ph.D. (Boston Univ., 2004). Senior Marine Scientist III DISL, Professor, Dept. of Marine Sciences, Univ. of South AL. Marine ecosystem and organismal responses; understanding biological and physiological responses to environmental change such as nutrient enrichment, climate change and other perturbations. Application of methods in stable isotope and population ecology. rcarmichael@disl.edu.

Devlin, Donna, Ph.D. (Univ. of Louisiana Lafayette, 2004). Research Professor, Dept. of Life Sciences, Texas A&M Univ. Corpus Christi. Estuarine ecosystem ecologist. Research focus is climate change, specifically on consequences of sea level rise and storm events on outcomes of species interactions (mangrove/salt marsh habitat, insect/plant, burrowing crab/plant), benthic invertebrate community diversity and ultimately on the provision of ecosystem services. Donna.Devlin@tamuc.edu.

Dorgan, Kelly M., Ph.D. (Univ. of Maine, 2007). Senior Marine Scientist I DISL, Assistant Professor, Dept. of Marine Sciences, Univ. of South AL. Sediment ecology, focused primarily on organism-environment interactions; biomeschanics and energetics of burrowing; biological-physical interactions; functional morphology of invertebrates. kldorgan@disl.edu.

Drymon, J. Marcus, Ph.D. (Univ. of South AL, 2010). Assistant Extension Professor, MSU Coastal Research and Extension Center. Research interests include marine fisheries ecology, specifically trophic interactions/foodweb dynamics of upper trophic-level predators and ecosystem based fishery management. mardrymon@msstate.edu.

Elliott, Emily A. (Timmons), Ph.D. (Univ. of North Carolina at Chapel Hill, 2017). 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. (Mississippi State University, 2012) 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. jfleming@samford.edu.


Henning, Jeremiah A. Ph.D. (University of Tennessee, 2017). Assistant Professor, University of South Alabama. Coastal plant community ecology, biodiversity-ecosystem function linkages, mycorrhizal fungi, plant-microbe interactions, global change ecology. jhenning@southalabama.edu.

Hoadley, Kenneth, Ph.D (University of Delaware, 2016) 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. khowley@disl.edu.

Keyser, Kent, Ph.D. (SUNY Stony Brook, 1980). Professor, Dept. of Vision Sciences, Assistant Vice President for Research, Univ. of AL B'ham. Communication between neurons: neurotransmitters, neurotransmitter receptors in the retina and brain. kkeyser@uab.edu.

Krause, Jeffrey, Ph.D. (Oregon St. Univ., 2008). Senior Marine Scientist I DISL, Assistant Professor, Dept. of Marine Sciences, Univ. of South AL. Marine diatom and cyanobacteria ecology and understanding the coupling between the marine biogeochemical cycle of silicon with those for carbon and nitrogen. jkrause@disl.edu.

Lewis, Jennifer, Ph.D. (Fla. Int. Univ., 2010). 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. (Boston Univ., 1986). Associate Professor of Biological Sciences, Marine Biology Program Coordinator, Auburn Univ. Ctenophores and jellyfish, salps, marine microbial biology, cilia & flagella. mosant@auburn.edu.

Robertson, B.K., Ph.D. (Cornell University, 1993). Professor of Microbiology and Environmental Toxicology with an emphasis in marine ecology, and Executive Director, Graduate Programs in Biological Sciences, Alabama State University. Research focus: the fate of toxic chemicals in soils, sediments, and the marine environment. brobertson@alasu.edu.
DISL Summer Program Faculty/Research Interest

*Smee, Lee, Ph.D. (Georgia Tech, 2006) Chair DISL University Programs, Senior Marine Scientist II DISL, Assoc. 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. (Univ. of Del., 2009). Marine Science Instructor, Univ. South AL. Oceanography, chemical & biological oceanography, marine biology, biological sciences, terrestrial and aquatic ecology, and trophic dynamics. sprinkle@southalabama.edu

Stanton, Lee, Ph.D. (LA State Univ., 2005). Associate Professor, Univ. of West AL., Director of Black Belt Conservation and Research Institute. lstanton@uwa.edu;

Stoeckel, Jim, Ph.D. (Miami University, 2007). 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. (Univ. of Ala. at B’ham., 2004). Assistant Professor, Dept. of Psychology, Univ. of Al B’ham. Visual processing in health and disease. estrang@uab.edu.

Titus, Benjamin, Ph.D. (Ohio State Univ., 2017). 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. (Univ. of Ala., 1989). Executive Director and Senior Marine Scientist III DISL, Professor, Dept. of Marine Sciences, Univ. of South AL. jvalentine@disl.edu;

Wibbels, Thane, Ph.D. (Texas A&M Univ., 1988). Associate Professor of Biology, Univ. of Al B’ham. 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. (Bowling Green State University, 2017) 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. swwofford@jsums.edu

Woodrey, Mark, Ph.D. (Univ. of Southern Miss., 1995). 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.

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, Board, Lab and Activity Fees are paid directly to DISL:

Upon arrival at DISL, students are responsible for any unpaid DISL lab fees, activity fees, and room and board fees. Students will also be required to furnish proof of tuition paid and schedule of courses registered for at their home campus before they will be permitted to attend class(es).

Proof of tuition paid and schedule of courses registered for at your home university should be presented to the Registrar at DISL prior to registration. The schedule of courses registered for and a receipt for tuition paid from the student’s home institution is acceptable.

DISL Fees:

- Lab Fee: $20.00 per credit (except Auburn University students)
- Student ID Fee: $10.00 per summer
- Student Activity Fee: $10.00 per summer (does not apply to students attending May Term only)
- Student Parking Fee: $15.00 per summer if car is parked on campus
- Student Registration Fee: $35.00 per summer
- Facilities Fee: $100.00 per summer

Once a student begins class, no refunds for lab or student fees will be issued. Prorated room and board will be issued for students withdrawing where applicable.

Special fees for related travel are non-refundable unless course is cancelled. DISL fees may be paid on a session-by-session basis if arranged beforehand with the DISL Bursar.

DISL Room and Board:

$140/week double occupancy; $190/week private, if available

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 bed linens. No pets, cooking equipment, refrigerators, coffee makers, etc., are allowed. (For info regarding Service and ESA animals, please contact the DISL UP 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. Private rooms will be issued on a per session basis and cannot be guaranteed for all terms.

Students may check into the Challenger dorms after 12:00 noon the Saturday before class begins on Monday.

After the course ends on Friday, students will be expected to check out of the dorms on Saturday before 9:00 a.m. 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.
### Fees, Tuition, Room and Board Costs

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

**Meal plan:**
- 7-day plan $185.50/week
- 5-day plan $132.50/week (Sunday dinner through Friday lunch)

All efforts will be made to meet special dietary needs, upon notification during registration to the Registrar and/or to the cafeteria manager (251) 861-2141, ext. 7538.

**TOTAL COSTS FOR DOUBLE OCCUPANCY ROOM AND BOARD ARE:**

<table>
<thead>
<tr>
<th>Number of Weeks</th>
<th>$545.00</th>
<th>$651.00</th>
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</thead>
<tbody>
<tr>
<td>2 - weeks (e.g., May Term)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 - weeks (e.g., First Session)</td>
<td>$1,362.50</td>
<td>$1,627.50</td>
</tr>
<tr>
<td>7 - weeks (e.g., May &amp; First Session)</td>
<td>$1,907.50</td>
<td>$2,278.50</td>
</tr>
<tr>
<td>10 - weeks (e.g., First &amp; Second Sessions)</td>
<td>$2,725.00</td>
<td>$3,255.00</td>
</tr>
<tr>
<td>12 - weeks (e.g., May, First &amp; Second Sessions)</td>
<td>$3,270.00</td>
<td>$3,906.00</td>
</tr>
</tbody>
</table>

**Books** can be purchased at the DISL Estuarium upon arrival. Call (251)861-2141, ext.7545 with questions.

### Payment to DISL in Advance

To avoid registration lines, 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-by-session basis if arranged beforehand with the DISL Bursar, Daphne Wood (dwood@disl.edu).

### 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 11, 2022

DISL will accept registrations until the first day of class; however, courses will fill early and students should try to send their registrations before the priority registration date.

**Step #1 Complete the DISL Summer Online Registration Form:**

- Visit [https://www.disl.edu/univ-prog/undergrad](https://www.disl.edu/univ-prog/undergrad) for instructions for logging into our student portal. www.disl.populiweb.com
- Once your student account is created on disl.populiweb.com, upload/submit a digital image, photo or scan of your signed advisor’s sheet (last page of this bulletin).
- Complete online registration with course choices.
- You will be billed the $75.00 pre-registration fee via your online student account disl.populiweb.com.

**Step #2 Confirmation of DISL Enrollment**

- DISL will email a confirmation of your course enrollment at DISL after the priority registration deadline of February 11, 2022. This email will include instructions to login to your DISL Student account via disl.populiweb.com, and a link to additional 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 (amount due upon arrival at DISL for fees, room and board). 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 UP Registrar. This can be done via email, online via disl.populiweb.com, or in person during on-campus orientation.

**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 On-Campus Registration & Orientation at DISL**

In order for you to attend any course at DISL, you must attend an on-campus registration and orientation event at DISL before your session begins. At registration and orientation you will:

- Pay DISL charges (e.g., fees, room, board) if you did not pay them online via your Disl.Populiweb.com account.
- Provide the UP Registrar with a receipt of tuition paid at your home institution and a schedule of courses registered for at your home institution if you did not upload them online via your Disl.populiweb.com account (you must register at your home campus to receive this proof of tuition paid and schedule of courses registered for).
- Turn in all required forms/waivers, if you did not complete and upload these online via your Disl.populiweb.com account. All waivers can be notarized at DISL Registration. All forms/waivers may be downloaded from our website: https://www.disl.edu/univ-prog/undergrad

**Frequently Asked Questions**

Do I have to enroll at both my home school and at the DISL for my summer course?
Yes, in order 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 an agreement with the DISL for academic credits to transfer. Please contact the UP Registrar Regina Kollegger 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.

**Tentative Registration and Orientation Schedule**

<table>
<thead>
<tr>
<th>May Session</th>
<th>First Session</th>
<th>Second Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 09 – 20</td>
<td>May 23 - June 24</td>
<td>June 27 - July 29</td>
</tr>
</tbody>
</table>

**Check-in:**
- Challenger Dorm: Saturday, May 07 after 12:00 noon
- May 21 after 12:00 noon
- June 25 after 12:00 noon

**Orientation:**
- Shelby Auditorium: Monday, May 09 8:30A
- Monday, May 23 8:30A
- Monday, June 27 8:30A

**Classes Begin**
- 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.

DISL hurricane toll free phone number: (800) 652-9660.
MESC Institutions and DISL Campus Liaison Officers

**Alabama A & M University**
Dr. Elica Moss
Research Assistant Professor
Department of Biological and Environmental Sciences
212 Carver Complex South-Thomas Wing
Alabama A&M University
Normal, AL 35762
(256) 372-8219
elica.moss@aamu.edu

**Alabama State University**
Dr. Sabita Saldanha
Department of Biological Sciences
915 S. Jackson Street
Montgomery, AL 36104
Ph: (334) 229-1007
Fax: (334) 229-1007
ssaldanha@alasu.edu

**Athens State University**
Dr. Shannon Pittman
College of Arts & Sciences
S303A Waters Hall, 300 N. Beaty Street
Athens, AL 35611
Ph: (256) 233-6507
Shannon.Pittman@athens.edu

**Auburn University**
Dr. Anthony G. Moss
Dept. of Biological Sciences
331 Funchess Hall
Auburn, AL 36849
Ph: (334) 844-9234
Fax: (334) 844-9219
mossant@auburn.edu

**Birmingham Southern College**
Dr. Andrew Gannon
Dept. of Biology
PO Box 549022
Birmingham, AL 35254
Ph: (205) 226-4899/Fax: (205)226-3078
gannon@bsc.edu

**Huntingdon College**
Dr. Paul Gier
Dept. of Biology
1500 E. Fairview Ave.
Montgomery, AL 36106
Ph: (334) 833-4510/Fax: (334)833-4486
gier@huntingdon.edu

**Jacksonville State University**
Dr. George Cline
Dept. of Biology
700 Pelham Rd., N.
Jacksonville, AL 36265-1602
Ph: (256) 782-5798/Fax: (256)782-5587
gcline@jsu.edu

**Samford University**
Dr. Anthony S. Overton
Dept. of Biological & Environmental Sciences
Howard College of Arts and Sciences
800 Lakeshore Drive
Birmingham, AL 35229
Ph: (205)726-2944/Fax: (205)726-2479
overall@samford.edu

**Spring Hill College**
Dr. Charles Chester
Dept. of Biology
Mobile, AL 36608
Ph: (251) 340-3071/Fax: (251)340-2398
chester@shc.edu

**Stillman College**
Dr. Moses Darpolar
School of Arts & Sciences
3601 Stillman Blvd
Tuscaloosa, AL 35401
Ph: (205) 366-8929
mdarpolar@stillman.edu

**Talladega College**
Dr. Andrew Coleman
Silby Science Hall Rm B2
627 West Battle Street
Talladega, AL 35160
Ph: (256) 761-6307/Fax: (256)761-6437
acoleman@talladega.edu

**Troy University**
Dr. Stephen Landers
Dept. of Biological & Env. Sciences
Troy, AL 36082
Ph: (334) 670-3661/Fax: (334)670-3662
slanders@troy.edu

**Tuskegee University**
Dr. Richard Whittington
Dept. of Biology
Tuskegee, AL 36088
Ph: (334) 724-4218/Fax: (334)724-3919
rwhittington1@tuskegee.edu

**University of Alabama**
Dr. Julie Olson
Dept. of Biological Sciences
PO Box 870344
Tuscaloosa, AL 35487-0344
Ph: (205) 348-2633/Fax: (205)348-1786
jolson@bama.ua.edu

**University of Alabama at Huntsville**
Dr. Bruce Stallsmith
Dept. of Biological Sciences
Huntsville, AL 35899
Ph: (256) 824-6992/Fax: (256)824-6305
stallbs@uah.edu

**University of Mobile**
Dr. Lesley Baggett
Dept. of Natural Sciences
5735 College Parkway
Mobile, AL 36616
Ph: (251) 442-1908/Fax: (251)442-2523
lbaggett@umobile.edu

**University of Montevallo**
Dr. Jill Wicknick
Dept of Biology, Station 6480
Montevallo, AL 35115
Ph: (205) 665-6478/Fax: (205)665-6477
wicknickj@montevallo.edu

**University of North Alabama**
Dr. Emily Kasl
Dept of Biology
PO Box 5048
Florence, AL 35632
Ph: (205) 795-4703/Fax: (205)443-9165
ekasl@una.edu

**University of South Alabama**
Dr. Amy Sprinkle
Dept. of Biology
Mobile, AL 36688
Ph: (251) 460-7525/Fax: (251)414-8220
sprinkle@southalabama.edu

**University of West Alabama**
Dr. Lee Stanton
Dept. of Biology
Livingston, AL 35470
Ph: (205) 652-3415/Fax: (205)652-3831
lstanton@uwa.edu

*Schools with Graduate Programs*
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 1, 2022.

Online Scholarship and Workstudy 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.

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

2. DISL Foundation Scholarships waive academic fees for summer school

3. McCall Family Foundation Scholarships cover field trip fees for summer school courses.

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 aids earn $10 per hour.

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

Dauphin Island Sea Lab  Marine Science Summer 2022

Advisor’s Sheet 2022

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
<th>1st Choice</th>
<th>2nd Choice</th>
</tr>
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<tbody>
<tr>
<td>Coastal Wetlands Ecology</td>
<td>(4)UG/G</td>
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<tr>
<td>Intro to Oceanography</td>
<td>(4)UG/G</td>
<td></td>
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<tr>
<td>Marine Geology</td>
<td>(4)UG/G</td>
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<tr>
<td>Marine Vertebrate Zoology</td>
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Special May Session: March 1-21 MX

<table>
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<th>Course</th>
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<th>2nd Choice</th>
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</thead>
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<tr>
<td>Coral Reef Biology &amp; Ecology</td>
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2nd Session: June 20-July 29 - 5 weeks

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<th>Course</th>
<th>Credit</th>
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<th>2nd Choice</th>
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<tr>
<td>Intro to Oceanography</td>
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<tr>
<td>Marine Biology</td>
<td>(4)UG/G</td>
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<tr>
<td>Marine Conv. Biology</td>
<td>(4)UG/G</td>
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<tr>
<td>Marine Invert. Zoology</td>
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2nd Session: July 24-August 2 - 5 weeks

<table>
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<th>Course</th>
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<th>2nd Choice</th>
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<tr>
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<tr>
<td>Marine Biology</td>
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<tr>
<td>Marine Consv. Biology</td>
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<tr>
<td>Marine Invert. Zoology</td>
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Schedule EX Special Courses

Advisor Approval

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<tr>
<th>Course Combinations</th>
<th>Compatible</th>
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<tr>
<td>C2 and C4</td>
<td>C2 and D2</td>
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<tr>
<td>C4 and D4</td>
<td>D2 and D4</td>
<td></td>
</tr>
</tbody>
</table>

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 web regisration. All courses are subject to change.

Advisor’s Signature

Student’s Signature