

**Marine Environmental
Sciences Consortium**



2010 Summer Bulletin

Undergraduate and Graduate Programs

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**Information about the DISL may also be obtained on our website at:
<http://www.disl.org>**

MESC/Dauphin Island Sea Lab provides equal educational opportunities and is open and accessible to all qualified students, without regard to race, color, creed, national origin, sex or qualified handicap/disability. Disabled students will be provided "reasonable accommodations" when they have identified themselves and validated their special need(s) in detail on the Application for Admission (page 17). Complete confidentiality is maintained unless authorization for release of information has been given.

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Overview of the DISL Summer Program

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, now composed of twenty-one 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.

This brochure provides an overview of the undergraduate and graduate summer program at the DISL with information on course offerings and enrollment procedures for our 2010 Summer Program.

Course Schedule Information

During the summer, the DISL University Programs undergraduate and graduate program is divided into three sessions, the May Term, First Summer Session, and Second Summer Session.

The May Term (May 17-May 28) will take place over a period of two weeks during which 4 courses of 2 hour credit will be offered. During the May Term, students are able to take only one course. May Term courses will be held all day Monday through Friday.

During the five-week First (May 31-July 2) and Second Summer Sessions (July 5-August 6), 17 courses of varying subject matter and credit allow students to take up to two courses (6 semester hours maximum) each session. However, Introduction to Neurobiology (July 27-Aug 14) does not permit students to take other courses concurrently. **Whether taking one or two courses, students may be required to work some evening and weekends to meet course requirements (working in the laboratory, on projects, or participating in extended field exercises and/or overnight field trips.) Most courses require snorkeling and/or other water activities as well.**

Enrolling in all three sessions is not prohibited; however, students are strongly cautioned about the intensity of taking the maximum number of hours for all three sessions.

To learn more about the Summer 2010 course offerings and registration procedures for DISL courses, students of member schools should contact the DISL Liaison Officer at their school (see page 16). Students not attending a MESC member school should contact Sally Brennan, the DISL University Programs Registrar, at (251) 861-2256 or by email: sbrennan@disl.org.

Application for Admission

As you identify the course(s) that you would like to take, be sure that you meet 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 whenever possible.

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

Once students have received approval from campus liaison officers or the DISL University Registrar, they may submit their application to the DISL Registrar. **Applications will not be accepted without the signature of the campus liaison officer.** Please see pages 14 - 15 for detailed registration procedures.

Priority Registration

Because of limited class size (generally 18), classes are often filled early. It is important that applications arrive at DISL by February 12, 2010, for priority registration (to insure you get your first choice class). Enrollment will begin immediately after the priority registration deadline. Applications received **after** the priority registration deadline will be enrolled as space is available. DISL will accept applications until the first day of class; however, as noted above, courses usually fill early. Therefore, students should try to send the application before the priority registration deadline to ensure class availability.

Overview of the DISL Summer Program

The Facilities at DISL

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.

Support facilities include an apartment building for graduate students, 2 dormitories, a cafeteria, 8 three-bedroom houses for faculty, and a laundromat. Recreational facilities on campus include volleyball and basketball courts, and a swimming pool.

Teaching facilities include 4 classroom/laboratory buildings. The library, in the Administration building, is equipped with holdings that include more than 7,000 book titles and many periodicals dealing with marine sciences. Numerous electronic bibliographic databases are available. The library is also equipped with IBM compatible PCs for student use. A variety of Windows based programs are available for word-processing, database management, statistical analysis, communications and graphic presentation. Internet access is also available.

The graduate and research programs are housed in the Wiese Marine Science Hall, which contains 24,000 square feet of research labs and office space. Available instrumentation includes a carbon/nitrogen/sulfur analyzer, TOC, nutrient and lipid analyzers, several HPLCs and gas chromatographs, a scintillation counter, UV/VIS fluorometers and spectrophotometers. Support equipment includes balances, a refrigerated centrifuge, a lyophilizer, muffle furnaces/ovens, research grade deionized water, computer equipment and the usual complement of laboratory materials. Field gear includes high resolution CTD's and current meters, oxygen meters, plankton nets, corers, data buoys, transmissometers, water quality monitors, a variety of trawls and other nets for collecting, bottom grabs, photometers, refractometers, pH meters and a variety of water samplers.

Research vessels available for class and research activities include: the R/V *Alabama Discovery*, a 65-foot, diesel-powered fiberglass hull vessel; the R/V *E. O. Wilson*, a 42-foot fiberglass hull vessel; and several outboard powered boats (14 to 23 feet).

The Estuarium/public aquarium is an exciting educational facility highlighting the four key habitats of coastal Alabama. It includes a 10,000 square foot Exhibit Hall and Living Marsh Boardwalk. This facility is a showcase of plants, animals, and other natural resources found in the Estuary and surrounding marine habitats. Summer students can visit without charge using their student ID.

University Programs Faculty

Courses are taught by resident DISL faculty as well as visiting faculty from member institutions and elsewhere (see listing on pages 9 - 10). Faculty not only teach formal courses, but also provide guidance for those students interested in undertaking directed studies in marine research. These one-on-one activities provide hands-on experience in marine research and analysis.

Summer Colloquium

Summer students are expected to attend scheduled colloquiums where outstanding guest speakers provide seminars on current topics in the marine sciences. A complete list of speakers, dates and topics will be made available to students.

Courses for Teachers and Students

In addition to undergraduate/graduate courses available to educators through University Programs, DISL's education/outreach group, Discovery Hall Programs (DHP), offers marine science education for all ages. For pre-service/in-service teachers and informal educators, DHP offers 6 professional development workshops: *The Delta* (June 6-10), *Beaches, Birds and Barrier Islands* (June 14-18), *Beneficial Bivalves** (June 22-June 25), *Regional Issues in the Gulf* (July 6-9), *Fins, Fishes and Fisheries* (July 11-15), and *Rhizomes, Reefs and Restoration* (July 26-30). An additional workshop, *Climate Change in the Gulf of Mexico*, will be offered in Fall 2010. Continuing Education Units (CEUs) may be applied for through the participant's school system and participants may earn graduate credit through the University of West Alabama.† For K-12 students, DHP offers camps, activity days and a residential course in marine science. High school students (rising 10-12th grade) are offered an intensive month-long state-approved course in marine science (June 6-July 2). Middle school students (rising 7th-9th grade) can participate in *Gulf Island Journey*, a week-long (residential) camp and introduction to coastal ecology (4 sessions: June 27-July 2, July 11-16, July 18-23, July 25-30). For younger students, DHP offers activities lasting a day or less including *Treasure Island*, *Oceans Alive* and *Art-Sea Discovery*. Please consult our website for dates and more details (<http://dhp.disl.org/>). To register, contact DHP Registrar, Ms. Sara Johnson (251)861-7515, sejohnson@disl.org.

*Workshop has special requirements, please call.

†Courses subject to change depending on enrollment.

2010 DISL Summer Program Courses*

<u>May Term</u> (May 17 - May 28)	<u>First Session</u> (May 31 – July 2)	<u>Second Session</u> (July 5 - August 6)
<p>← **## Biology and Conservation of Marine Turtles (2 hrs) → <i>Wibbels</i></p> <p>← **Dolphins & Whales (2 hrs) → <i>Mullin</i></p> <p>← **Shark and Ray Biology (2 hrs) → <i>Carlson, Cortes, Driggers</i></p> <p>← **Vascular Flora of Dauphin Island and Coastal Alabama (2 hrs) → <i>Timme</i></p>	<p>← *Coastal Wetlands Ecology (4 hrs) → <i>Stanton</i></p> <p>← Introduction to Oceanography (4 hrs) → <i>Graham</i></p> <p>← Marine Biology (4 hrs) → <i>Mortazavi</i></p> <p>← Marine Botany (4 hrs) → <i>Cebrian</i></p> <p>← Marine Invertebrate Zoology (4 hrs) → <i>Carmichael</i></p> <p>← *Coastal Geomorphology (2 hrs) → <i>Douglass</i></p> <p>← *Coastal Zone Management (2 hrs) → <i>TBA</i></p>	<p>← Marine Biology (4 hrs) → <i>O'Brien</i></p> <p>← Marine Ecology (4 hrs) → <i>Heck</i></p> <p>← *Marine Geology (4 hrs) → <i>Gibson</i></p> <p>← *Marine Toxicology (4 hrs) → <i>Rayburn</i></p> <p>← Marine Vertebrate Zoology (4 hrs) → <i>Hernandez</i></p> <p>← *Hurricanes of the Gulf Coast (2 hrs) → <i>Blackwell</i></p> <p>← *Marine Aquaculture (2 hrs) → <i>Hammer</i></p> <p>← **Introduction to Neurobiology (4 hrs) → <i>Gamlin, Keyser, McMahon</i> [July 27 – Aug. 14]</p>

All courses are subject to change*.

You may take one of the 4-hour courses and one of the 2-hour courses concurrently unless otherwise specified.

*Based on a minimum of 11 students.

**This course's schedule does not permit you to take any other course concurrently.

##Additional course fees apply.

[] Special Schedule.

In some cases, students should expect to work some evening and weekends to meet course requirements (working in the laboratory, on projects, or participating in extended field exercises and/or overnight field trips.) Some courses may require snorkeling and other water activities.

Summer Programs 2010 Course Schedule

SUMMER 2010 - MAY TERM (MAY 17 - MAY 28)

<i>Course</i>	<i>Credit</i>	<i>Instructor(s)</i>	<i>Schedule</i>
**##Biology and Conservation of Marine Turtles	(2)UG/G	Wibbels	M-F (9A- 4P)
**Dolphins and Whales	(2)UG	Mullin	M-F (9A- 4P)
**Shark and Ray Biology	(2)UG/G	Carlson, Cortes & Driggers	M-F (9A- 4P)
**Vascular Flora of DI and Coastal Alabama	(2)UG	Timme	M-F (9A- 4P)
Directed Studies	(Variable)	(Staff)	See Course Description (Page 6)

SUMMER 2010 - FIRST SESSION (MAY 31 - JULY 2)

<i>Course</i>	<i>Credit</i>	<i>Instructor(s)</i>	<i>Schedule</i>
Coastal Wetlands Ecology	(4)UG/G	Stanton	M, Th, F (9A- 4P); Tu (9A- 12P)
Introduction to Oceanography	(4)UG/G	Graham	M, Th, F (9A- 4P); Tu (9A- 12P)
Marine Biology	(4)UG	Mortazavi	M, Th, F (9A- 4P); Tu (9A- 12P)
Marine Botany	(4)UG/G	Cebrian	M, Th, F (9A- 4P); Tu (9A- 12P)
Marine Invertebrate Zoology	(4)UG/G	Carmichael	M, Th, F (9A- 4P); Tu (9A- 12P)
*Coastal Geomorphology	(2)UG/G	Douglass	Tu (1P - 4P); W (9A- 4P)
Coastal Zone Management	(2)UG/G	TBA	Tu (1P - 4 P); W (9A- 4P)
Directed Studies	(Variable)	(Staff)	See Course Description (Page 6)

SUMMER 2010 - SECOND SESSION (JULY 5 - AUGUST 6)

<i>Course</i>	<i>Credit</i>	<i>Instructor(s)</i>	<i>Schedule</i>
Marine Biology	(4)UG	O'Brien	M, Th, F (9A - 4P); Tu (9A- 12P)
Marine Ecology	(4)UG/G	Heck	M, Th, F (9A - 4P); Tu (9A- 12P)
*Marine Geology	(4)UG	Gibson	M, Th, F (9A - 4P); Tu (9A- 12P)
*Marine Toxicology	(4)UG/G	Rayburn	M, Th, F (9A - 4P); Tu (9A- 12P)
Marine Vertebrate Zoology	(4)UG/G	Hernandez	M, Th, F (9A - 4P); Tu (9A- 12P)
*Hurricanes of the Gulf Coast	(2)UG/G	Blackwell	Tu (1P - 4P); W (9A- 4P)
*Marine Aquaculture	(2)UG/G	Hammer	Tu (1P - 4P); W (9A- 4P)
**Introduction to Neurobiology [July 27- Aug 14]	(4)Adv.UG/G	Gamlin, Keyser & McMahon	M-S
Directed Studies	(Variable)	(Staff)	See Course Description (Page 6)

All courses are subject to change.

You may take one of the 4-hour courses and one of the 2-hour courses concurrently unless otherwise specified.

*Based on minimum enrollment of 11 students.

** This course's schedule does not permit students to take other courses concurrently.

##Additional course fees apply.

[]Special schedule – does not span the entire session.

In some cases, students may be required to work some evenings and weekends to meet course requirements (working in the laboratory, on projects, or participating in extended field exercises and/or overnight field trips.) Some courses may require snorkeling and other water activities.

**LISTED SCHEDULE TIMES ARE APPROXIMATE AND ARE LEFT TO
THE DISCRETION OF THE INSTRUCTOR.**

Note: Classes will be held on Memorial Day.

Course Descriptions

Directed Studies

Advanced Undergraduate/Graduate (Variable 1 – 6 sem)

Students may enroll by special arrangement. All students registering for Directed Research must be accepted by a DISL faculty research supervisor who will be in residence at DISL during the research (see faculty listing on pages 9 - 10). Project topic, duration, credit and acceptance by a supervisor must be arranged prior to registration at DISL. Please contact one of the listed faculty members for suggested topics in their area of expertise. Students are expected to enroll and conduct their research over 10 weeks if no other course is taken. Directed Studies may be taken to enhance a student's research experience, but are not intended to substitute for research credit that is directly related to a student's thesis project.

May Term 2010

(May 17 – May 28)

Biology and Conservation of Marine Turtles

Undergraduate/Graduate (2 sem)

Dr. Wibbels

This introductory course will provide an overview of the biology and conservation of marine turtles. Topics to be covered include the 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; will 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 over night, 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 over night field trip will provide students with the opportunity to observe loggerhead, green, and leatherback turtles in their natural habitats. Prerequisites - introductory course in biology. Special fees apply and will be determined based on student enrollment in the course.

Dolphins and Whales

Undergraduate (2 sem)

Dr. Mullin

The course is primarily an overview of major aspects of the biology of marine mammals (e.g., whales, dolphins, porpoises, seals, sea lions, manatee, sea otter and polar bear) including evolution, systematics, zoogeography, adaptations, feeding, anatomy, and diving physiology. Methods for conducting research of marine mammals will be reviewed and the behavior of coastal bottlenose dolphins will be examined. Prerequisite - successful completion of one course in organismal biology, such as zoology, vertebrate zoology, invertebrate zoology, embryology, human biology, entomology, parasitology.

Shark and Ray Biology

Undergraduate/Graduate (2 sem)

Drs. Carlson, Cortes and Driggers

This course will provide an introduction to the biology of sharks and rays, with special emphasis on regional shark fauna and field techniques. Topics to be covered include chondrichthyan origin, systematics, sensory biology, locomotion, food consumption, osmoregulation, reproductive biology, life history, ecology, fisheries and conservation. Lectures will be supplemented with discussions of papers from the primary literature to familiarize students with current research; in addition, longline and gillnet sampling will provide students with first hand knowledge of field techniques and local shark identification. Prerequisites - one course in general/organismal biology (or equivalent).

Vascular Flora of Dauphin Island and Coastal AL

Undergraduate (2 sem)

Dr. Timme

A study of the primary characteristics of the common plants of barrier islands and the Gulf coast. The course will focus on field studies of the more common flora of the region to include laboratory and field identification, field characteristics of plant families, as well as an overview of different coast and barrier island plant communities. Prerequisites – introductory biology course.

First Summer Session 2010 (May 31 – July 2)

Coastal Wetlands Ecology *Undergraduate/Graduate (4 sem)* Dr. Stanton

This course will focus on coastal and near shore wetland areas, with an emphasis on the biogeochemical processes that occur within, as well as 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 provide protection from storm surges and floodwaters. Insight into wetland ecology requires understanding of the unique interactions between biology, chemistry and hydrology.

Introduction to Oceanography *Undergraduate/Graduate (4 sem)* Dr. Graham

This course provides a general introduction to the physics, chemistry, geology and biology of the ocean and introduces the student to the interrelationships between these factors in the world's oceans. Field trips in Mobile Bay and near-coastal Gulf of Mexico serve to introduce students to research techniques and oceanographic processes in the region. Prerequisites - basic science major.

Marine Biology *Undergraduate (4 sem)* Dr. Mortazavi

A general survey of marine plants, invertebrates and vertebrates, the communities they form, and the physical and chemical factors which influence them. Field trips to 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. Participation in overnight field trips is a part of this course. Snorkeling gear is required. Prerequisites - general biology.

Marine Botany *Undergraduate/Graduate (4 sem)* Dr. Cebrian

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. Extensive overnight field and laboratory work is involved, including the ability to wade and snorkel. Participation in overnight field trips is a part of this course. Snorkeling gear is required. Prerequisites - general biology.

Marine Invertebrate Zoology *Undergraduate/Graduate (4 sem)* 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 is required. Prerequisites - introductory biology or zoology.

Coastal Geomorphology *Undergraduate/Graduate (2 sem)* Dr. Douglass

An introduction to coastal sediment processes and applied coastal geomorphology. Waves and other coastal hydrodynamics, sediment transport, interaction between natural process and man's activities such as dredging, jetties and beachfills will be studied. The barrier island coast of Alabama will be used extensively in field trip investigations of these processes. Prerequisites - basic science major.

Coastal Zone Management *Undergraduate/Graduate (2 sem)* TBA

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. Prerequisites - none.

Second Summer Session 2010 (July 5 – August 6)

Marine Biology *Undergraduate (4 sem)* Dr. O'Brien

A general survey of marine plants, invertebrates and vertebrates, the communities they form and the physical and chemical factors which influence them. Field trips to 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. Participation in overnight field trips is a part of this course. Snorkeling gear is required. Prerequisites - general biology.

Marine Ecology *Undergraduate/Graduate (4 sem)* Dr. Heck

Marine Ecology is an advanced course open to juniors, seniors and graduate students. The class will study marine organisms as they interact with each other and their environment, as well as 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 students broken into by small groups. Lecture and laboratory consists of studies of factors influencing population dynamics, community structure and energy flow in marine ecosystems. Habitats selected for emphasis include coral reefs, kelp forests, seagrass meadows, the rocky intertidal and deep-sea hydrothermal vents. Participation in overnight field trips is a part of this course. Snorkeling gear is required. Prerequisites - general biology, marine biology or graduate standing.

Marine Geology *Undergraduate (4 sem)* Dr. Gibson

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. (Emphasis on the Northeast Gulf of Mexico). Field trips will be taken to study beach processes and sediments in the 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, statistics recommended.

Marine Toxicology *Undergraduate/Graduate (4 sem)* Dr. Rayburn

This course will introduce basic topics of marine toxicology including dose-response relationships. Data analysis and experimental design of toxicological studies of marine organisms will be carried out by each student. Prerequisites - one semester of upper level biology course.

Marine Vertebrate Zoology *Undergraduate/Graduate (4 sem)* Dr. Hernandez

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.

Hurricanes of the Gulf Coast *Undergraduate/Graduate (2 sem)* Dr. Blackwell

This course 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 Nino 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). Prerequisites - none.

Marine Aquaculture *Undergraduate/Graduate (2 sem)* Dr. Hammer

This course will introduce students to techniques in live animal culture with an emphasis on basic principals 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.

Intro. to Neurobiology [July 27 - Aug 14] *Adv. Undergraduate/Graduate (4 sem)* Drs. Gamlin, Keyser, McMahon

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. Prerequisites - introductory biology. The following are recommended but not required: general chemistry and general physics; or permission of the instructor.

DISL Summer Program Faculty/Research Interests

Blackwell, Keith, Ph.D. (TX A&M Univ., 1990). Associate Professor of Meteorology, Univ. of South AL. Tropical meteorology and hurricanes; weather analysis and forecasting; synoptic and mesoscale meteorology; numerical weather prediction.

Carlson, John, Ph.D. (Univ. of MS, 1998). Research Fishery Biologist, NOAA. Ecosystem modeling; habitat selection and use; physiological ecology; predator-prey relationships; life history theory, especially bioenergetics, age and growth modeling.

Carmichael, Ruth, Ph.D. (Boston Univ., 2004). Senior Marine Scientist, DISL and Assistant Professor of Marine Science, 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.

Cebrian, Just, Ph.D. (Polytechnic Univ. of Catalonia, Spain, 1996). Senior Marine Scientist, DISL and Associate Professor of Marine Science, Univ. of South AL. Trophic interactions and carbon budgets in marine ecosystems. Nature and controls of trophic routes of primary production in marine and terrestrial ecosystems.

Cortes, Enric, Ph.D. (Univ. of Barcelona, 1991). Research Fishery Biologist, NOAA. Population dynamics; stock assessment; quantitative conservation biology with special emphasis on matrix population models; life history theory; feeding ecology.

***Crozier, George, Ph.D.** (Scripps Institute of Oceanography, 1966). Executive Director, DISL. Active on most state/regional technical planning groups, involved in translating basic research into the real world of coastal resource management.

***Dindo, John, Ph.D.** (Univ. of AL at Birmingham, 1991). Senior Marine Scientist, Director of Education and Outreach, DISL. Coastal avian ecology, marine fisheries research.

Douglass, Scott, Ph.D. (Drexel Univ., 1989). Professor of Civil Engineering, Univ. of South AL. Coastal engineering, especially man's influence on beach processes.

Driggers, William, III, Ph.D. (Univ. of South Carolina, 2001). Research Fishery Biologist, NMFS/NOAA. Interests include age and growth; biogeography; reproduction; taxonomy.

Gamlin, Paul, Ph.D. (SUNY, Stony Brook, 1984). Professor and Chair, Dept. of Physiology and Biophysics; Univ. of AL at Birmingham. Neural control of eye movements; comparative studies of vertebrate visual systems.

Gibson, Michael, Ph.D. (Univ. of TN., 1988). Professor of Geology, Univ. of TN at Martin, Associate Curator, Coon Creek Science Center. Biotic interaction paleoecology, taphonomy, and paleoenvironmental reconstruction; coastal marine geology; earth science education.

Graham, William, Ph.D. (Univ. of CA, Santa Cruz, 1994). Senior Marine Scientist, DISL and Associate Professor of Marine Science, Univ. of South AL. Physical and behavioral mechanisms that cause plankton to be distributed in patches. Also interested in processes that influence the formation and fate of detrital particles known as "marine snow."

Hammer, Hugh, Ph.D. (Univ. of AL at Birmingham, 2006). Program Manager, Instructor of Aquaculture Education and Dev. Center Science Div., Gadsden State Comm. College, AL. Marine and freshwater aquaculture, specifically the understanding of nutritional requirements, physiology, production methods for marine & freshwater aquaculture species.

Heck, Kenneth, Jr., Ph.D. (FL State Univ., 1976). Senior Marine Scientist, DISL and Professor of Marine Science, Univ. of South AL. Ecological studies of interactions between marine plants and animals.

Hernandez, Frank, Ph.D. (LA State Univ., 2001). Research Senior Marine Scientist, DISL. Fisheries oceanography; research focuses on the early life stages of fishes (eggs and larvae), their behavior and the environmental processes that affect larval dispersal and recruitment variability.

Keyser, Kent, Ph.D. (SUNY Stony Brook, 1980). Professor, Dept. of Vision Sciences, Director, Vision Science Research Center; Univ. of AL Birmingham. Communication between neurons: neurotransmitters/neurotransmitter receptors in the retina and brain.

DISL Summer Program Faculty/Research Interests

***Kiene, Ronald, Ph.D.** (SUNY, Stony Brook, 1986). Senior Marine Scientist, DISL and Professor of Marine Science, Univ. of South AL. Biogeochemical cycling of organic matter in coastal and ocean systems with emphasis on compounds containing sulfur and nitrogen. Microbial ecology and biogeochemistry in sediments.

McMahon, Lori, Ph.D. (St. Louis Univ., 1993). Professor, Dept. of Physiology and Biophysics; Univ. of AL Birmingham). Synaptic function and plasticity in hippocampus.

***MacIntyre, Hugh, Ph.D.** (Univ. of DE, 1996). Senior Marine Scientist, DISL and Assistant Professor of Marine Science, Univ. of South AL. The physiology, growth dynamics and ecology of marine microalgae.

***Miller-Way, Tina, Ph.D.** (LA State Univ., 1994). Assistant Director of Education/Outreach, DISL. Research interests include macrofaunal-sediment interactions including nutrient cycling and dissolved oxygen dynamics; instructional design and assessment strategies.

Mortazavi, Behzad, Ph.D. (FL State Univ., 1998). Assistant Professor, Univ. of AL and Director of MS program in Marine Science at Univ. of AL. Biogeochemistry, stable isotope ecology, and global change.

Mullin, Keith, Ph.D. (MS State Univ., 1988). Research Fishery Biologist, National Marine Fisheries Service. The abundance, distribution and habitat of marine mammals; marine mammal management in the North Atlantic Ocean.

O'Brien, Jack, Jr., Ph.D. (Univ. of CA, Santa Barbara, 1984). Assistant Professor of Biology, Univ. of South AL. Physiological and ecological aspects of crustacean growth, ecology and biology of parasitic castrators.

***Ortmann, Alice, Ph.D.** (Univ. of British Columbia, 2005) Senior Marine Scientist, DISL and Assistant Professor of Marine Science, Univ. of South AL. Diversity and ecological roles of marine microbes including bacteria, archaea and their viruses using both culture-based and molecular biology techniques.

***Park, Kyeong, Ph.D.** (College of William and Mary, 1993). Senior Marine Scientist, DISL and Associate Professor of Marine Science, Univ. of South AL. Physical transport processes and their effects on water quality and living resources in tidal rivers, estuaries and coastal systems, using field data, theoretical analyses and numerical models.

***Powers, Sean, Ph.D.** (TX A&M Univ., 1997). Senior Marine Scientist, DISL and Associate Professor of Marine Science, Univ. of South AL. Fisheries, experimental ecology, conservation, restoration of coastal shellfish and finfish populations.

Rayburn, James, Ph.D. (OK State Univ., 1994). Associate Professor of Biology, Jacksonville State Univ. Environmental Toxicology, Developmental Toxicology of amphibians and shrimp.

***Shipp, Robert, Ph.D.** (FL State Univ., 1970). Senior Marine Scientist, DISL and Professor/Chair, Dept. of Marine Science, Univ. of South AL. Transport of larval fishes and their association with various substrates; zoogeography of marine fish groups; and the role of artificial reefs as management tools.

Stanton, Lee, Ph.D. (LA State Univ., 2005). Assistant Professor, Univ. of West AL., Director of Black Belt Conservation and Research Institute.

Timme, Stephen, Ph.D. (MS State Univ., 1985). Professor of Botany, Director, T. M. Sperry Herbarium, Dept. of Biology, Pittsburg State Univ. Coastal plant, wetland ecology, plant/animal interactions, floristics of the southeastern coastal region.

***Valentine, John, Ph.D.** (Univ. of AL, 1989). Senior Marine Science and Chair of Univ. Programs DISL, Professor of Marine Science, Univ. of South AL. The role of biotic processes in controlling the flow of energy in seagrass communities, conservation biology and the potential for marine protected areas to restore food web function in seagrass-coral reef systems.

Wibbels, Thane, Ph.D. (TX A&M Univ., 1988). Associate Professor of Biology, Univ. of AL Birmingham. The biology of temperature-dependent sex determination in reptiles, including emphasis on its implications for the ecology, evolution and conservation of sea turtles.

**These faculty are not instructing undergraduate courses this year, but may be available for directed research by special arrangement.*

Fees, Tuition, Room and Board Costs

Tuition Fees Paid to Your University: After confirmation of enrollment at DISL, students must register and pay tuition at their home campus. Birmingham Southern College applicants should check with your liaison officer for appropriate procedures for tuition payment.

Room, Board and Other Fees Paid to DISL: Upon arrival at DISL, students will be 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 to their home campus before they will be permitted to attend classes. Proof of tuition paid should be presented to the registrar at DISL during registration. A Certificate of Registration or a receipt for tuition paid from the student's home institution is acceptable. Certificate of Registration may be obtained from www.disl.org.

DISL Fees:

Lab Fee \$40 per course

Student Activity Fee \$10 per year (Does not apply to students attending May Term only)

Once a student begins class, no refunds for these two fees will be issued. Special fees for course related travel are non-refundable unless course is cancelled. DISL fees may be paid on a session by session basis if arranged beforehand with DISL Bursar.

DISL Room and Board: Dormitory rooms are available based on two-person occupancy per room. All rooms are air-conditioned and have internet connections. Students must supply their own bed linens. **NO** pets are allowed. The cost is \$140/week. If space is available, private rooms will be issued on a first-come basis at the cost of \$190/week. 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. You will be notified as soon as enrollment is determined. Students may check into Challenger dorm after 12:00 noon the Sunday before class begins on Monday. (Directions will be posted on the Administration building door.) After the course ends on Friday, students will be expected to check out of dorms Saturday before 10:00 a.m.

All dormitory residents are required to purchase meal tickets. (Preparation of food in the dormitories is **absolutely** prohibited.) Meal tickets are available on either a 7-day plan at \$175/week or 5-day plan at \$125/week (Sunday dinner through Friday lunch). All efforts will be made to meet special dietary requirements, upon notification of the cafeteria manager (251) 861-7538.

THE TOTAL COSTS FOR DOUBLE OCCUPANCY ROOM AND BOARD ARE:

<u>Number of Weeks</u>	<u>dorm/5-day meal</u>	<u>dorm/7-day meal</u>
2 - weeks (e.g., May Term)	\$530	not available
5 - weeks (e.g., First & Second Sessions)	\$1,325	\$1,575
10 - weeks (e.g., First & Second Sessions)	\$2,650	\$3,150
12 - weeks (e.g., May, First & Second Sessions)	\$3,180	\$3,680

Books: Books can be purchased at DISL upon arrival. Call (251) 861-7562 or (251) 861-2256 with questions.

Payment to DISL in Advance: To avoid registration lines, payment may be mailed at least TWO WEEKS prior to your arrival. MasterCard, Visa, Discover and American Express are accepted. Make check or money order payable to DISL and mail to **Bursar**, DISL, 101 Bienville Blvd., Dauphin Island, AL 36528. Call (251) 861-7562 or 861-2256 with questions. DISL fees may be paid on a session by session basis if arranged beforehand with DISL Bursar.

DISL 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 tickets. 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.

Fellowship and Work Study Opportunities

Application forms may be obtained from the DISL website <http://www.disl.org> or from your Campus Liaison Officer.

STUDENT FELLOWSHIPS:

The Dauphin Island Sea Lab (DISL) is offering six fellowships for the 2010 Summer Program. Fellowships will be awarded on an academically competitive basis to applicants of demonstrated financial need who are enrolled at DISL member institutions. The Rita George Fellowship will be awarded to qualified students demonstrating *exceptional* financial need. The George F. Crozier Scholarship in Coastal Policy is available to students with demonstrated financial need who are interested in coastal zone policy and coastal zone management. Students awarded this fellowship will normally enroll in the Coastal Zone Management course. Fellowships are available to both undergraduate and graduate students registered for a minimum of 4 semester hours per term at DISL. Enrollment for a minimum of two summer sessions at the Sea Lab is required.

A complete fellowship application must include the following documents:

- A completed application form.
- A certified transcript.
- A written statement by the student indicating career goals, the role of the DISL summer program in the student's curriculum and the need for assistance.
- Documentation of need [A letter from the campus Financial Aid Office is preferred. However, a statement by the student indicating how the student's college expenses have been covered and the efforts by the student to support college costs may be accepted in addition to documented proof (tax returns).]
- Two letters of recommendation providing an evaluation of the student's academic performance.
- GRE scores (graduate students). ACT/SAT scores (undergraduate students).

Qualifications/Restrictions:

- Applicants must be majoring or minoring in marine science or taking a concentration in marine science, depending on the structure of the particular campus program.

Compensation:

- Each fellowship will be awarded for up to 12 weeks and compensation will consist of room and board (7-day meal ticket), lab fee and activity fee. However, the fellowship does not apply towards tuition costs, or additional expenses for the travel costs associated with courses such as Biology and Conservation of Marine Turtles. Additional fellowships are provided by some DISL member schools. Consult your Campus Liaison Officer for availability on your campus.

DEADLINE FOR APPLICATIONS: February 12, 2010

WORK/STUDY:

Several part-time positions may also be available for students enrolled in a minimum of 4 semester hours per term at DISL. Preference will be given to students who are enrolled in more than one term, but consideration will be given students enrolled in only one term.

The Work/Study positions are:

- **Dorm Monitor/Student Activities Assistant:** Must be in residence for at least two sessions and be able to be present on campus at least one-half of the weekends. Compensation is \$75 per week, plus a private room/board in the dormitory. (2 positions available).
- **Library Aides:** Library Aides are expected to: work up to 10 hours per week during evenings and weekends after normal staff hours, assist students in the library and perform clerical tasks assigned by the Librarian. Compensation is \$7.00 per hour. (3 to 4 positions available).

A complete application must include:

- A completed application form.
- A letter of request outlining any relevant experience.
- A letter of recommendation from an individual qualified to evaluate your performance of the responsibilities.

DEADLINE FOR APPLICATIONS: February 12, 2010

Teaching Assistantship Opportunities

Application forms may be obtained from DISL website <http://www.disl.org> or from your Campus Liaison Officer.

GRADUATE AND UNDERGRADUATE TEACHING ASSISTANTSHIPS:

Up to five summer teaching assistantships are available for each term (May term: May 17 - May 28, First Session: May 31 - July 2, Second Session: July 5 - August 6) on the campus of Dauphin Island Sea Lab. Assistantships are available for one or more of the terms.

Qualifications/Restrictions:

- Assistants must be in residence at DISL one week before their assignment begins for orientation and to assist with course setup. Assistants must also be able to clean and store teaching materials after classes end.
- Graduate student status is desired (junior/senior undergraduates may be considered, if qualified).
- Assistants must have academic training in at least one of the following areas: ecology, marine biology, marine botany, marine vertebrate zoology, marine invertebrate zoology or oceanography. Field experience is strongly preferred. It is also desired that the assistant has successfully completed the course for which they are assisting.
- Assistants may not be enrolled in classes due to time commitment and scheduling problems.
- Assistants may be required to work on weekends or go on overnight trips.
- Assistants must be CPR certified.
- Assistants must have a valid drivers license and be cleared to drive under DISL insurance.

A completed application must include the following documentation: 1) A letter of interest indicating the specific course(s) you can assist with and the session(s) that you are available, 2) A transcript itemizing your training and experience in the subject area(s), 3) a letter of recommendation from a faculty member who can evaluate your qualifications and previous teaching performance, and 4) a completed application form.

Responsibilities:

- Work on average 20 hours per week assisting professor in preparation and execution of field and laboratory exercises.
- Instruction of students in the laboratory and some laboratory lecturing may be required.
- Participation in field exercises and specimen identification is required.
- Keep laboratory, classroom, lab preps, storage cages and water tables supplied, organized and cleaned.

Compensation:

- Teaching assistants will be provided with a stipend of \$261 - \$327 per week, depending on graduate status. If undergraduate, rate will be different.

DEADLINE FOR APPLICATIONS: March 15, 2010

Registration Procedures

DISL Application for Admission

1. Application deadline for **priority** registration: February 12, 2010. DISL will accept applications until the first day of class; however, courses will fill early and students should try to send their application before the priority registration date. To complete the application:

- Fill out the DISL application for admission in the back of this booklet.
- Take the application to your Campus Liaison Officer (listed on page 17 of this brochure) for approval and signature.
- Mail the signed application form and \$75 application fee* (checks should be made payable to DISL) to:

Dauphin Island Sea Lab
Sally Brennan, University Programs Registrar
101 Bienville Blvd., Dauphin Island, AL 36528

NOTE: Applications will not be accepted without the signature of your campus liaison officer and the \$75 application fee.
*Application fee is 50% refundable if written cancellation is received by the Registrar before April 1, 2010.

Confirmation of Enrollment at DISL

2. DISL will mail a package to you confirming your enrollment at DISL (after the priority registration deadline) which will include:

- A confirmation card [must be returned to DISL to guarantee your place in the class(es)].
- An acceptance letter listing the course(s) that you have selected and the status of your enrollment at DISL in the course(s) (i.e. register, wait, drop).
- Your DISL bill (amount due upon arrival at DISL for lab fees, activity fee, room and board) if payment has not been paid by mail beforehand. Fees may be paid on a session by session basis if arranged beforehand with DISL Bursar.
- Forms: A medical release form and a vessel release form (mandatory for participation in field and laboratory exercises) along with a computer/internet access form (mandatory) and a media liability release form. All forms can be notarized at DISL Registration.

Enrollment at Your Home Campus

3. Once you have received notice that you are enrolled in classes at DISL, you **must** also register at your home campus and pay their campus tuition (not applicable for Birmingham Southern Students: see Fees, Tuition, Room and Board Costs section on page 11) and registration fees. You may mail DISL fees at this time (e.g., room, board, activities, lab, etc.) or pay them upon your arrival at DISL. DISL fees may be paid on a session by session basis if arranged beforehand with DISL Bursar.

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.

Registration Procedures

Registration at DISL

4. In order for you to attend any course at DISL, you must attend an on-campus registration session at DISL before your course(s) begin(s). Students staying in dorms will register according to schedule below; commuters may register on Monday at 7:30 a.m. before Orientation and before the first class begins. At registration you must:
- Pay DISL fees (i.e., laboratory fees, room, board and activity fee) if you did not pay them by mail.
 - Provide the Registrar with a Certificate of Registration or receipt for tuition-paid at your home campus, a completed medical release form, a completed vessel release form, a completed computer and internet access form and a completed media liability release form. (See Section 2, above.) All forms may be downloaded from website: www.disl.org.

May Term – Monday, May 17, 7:15 - 9:15 a.m.

First Session Summer – Sunday, May 30, 2:00 p.m. - 4:00 p.m.

Second Session Summer – Monday, July 5, 7:15 a.m. - 9:15 a.m.

Post term – Introduction to Neurobiology will have individual schedule for Registration.

All registrations will be held in the DISL Administration building.

(Notice will be placed on the door of Administration building if time changes.)

If registration is on a Monday, students may check into dorms on Sunday (after 12:00 noon) and attend registration Monday a.m. Directions will be posted on the door of Administration Building.

Commuters may register on the first day of class beginning at 8:00 a.m.

5. All students must attend **one** DISL orientation session [before attending any class(es)] on the first day of the term in which your course is offered:

May Term – Monday, May 17, 9:30 a.m.

First Session Summer – Monday, May 31, 9:30 a.m.

Second Session Summer – Monday, July 5, 9:30 a.m.

Post Term – Introduction to Neurobiology will have individual schedule for Orientation.

All Orientations will be held in Galathea Hall

(Students attending multiple sessions are only required to attend one orientation session.)

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 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.org will also be updated with current information.

DISL hurricane toll free phone number: 1-800/652-9660.

In some cases, students may be required to work some evening and weekends to meet course requirements (working in the laboratory, on projects, or participating in extended field exercises and/or overnight field trips.) Some courses may require snorkeling and other water activities.

MESC Institutions and Campus Liaison Officers

*Alabama State University

Dr. B.K. Robertson
Dept. of Biological Sciences
915 S. Jackson Street
Montgomery, AL 36104
Ph: (334) 229-4423
Fax: (334) 229-1007
brobertson@asunet.alasu.edu

Athens State University

Dr. Christopher J. Otto
Dept. of Biology
Athens, AL 35611
Ph: (256) 233-8255
Fax: (256) 233-8164
ottoj@athens.edu

*Auburn University

Dr. Ken Halanych
Dept. of Biological Sciences
101 Rouse Building
Auburn, AL 36849
Ph: (334) 844-3222
Fax: (334) 844-2333
ken@auburn.edu

Auburn Univ. Montgomery

Dr. John Aho
Dept. of Biology
Post Office Box 244023
Montgomery, AL 36124
Ph: (334) 244-3787
Fax: (334) 244-3826
jaho@mail.aum.edu

Birmingham Southern College

Dr. Andrew Gannon
Dept. of Biology
Box 549022
Birmingham, AL 35254
Ph: (205) 226-4899
Fax: (205) 226-3078
agannon@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
pgier@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

Judson College

Dr. Thomas Wilson
Dept. of Biology
Bibb Street
Marion, AL 36756
Ph: (334) 683-5179
Fax: (334) 683-5282
twilson@judson.edu

Samford University

Dr. Lawrence Davenport
Dept. of Biological & Env. Sciences
800 Lakeshore Drive
Birmingham, AL 35229
Ph: (205) 726-2584
Fax: (205) 726-2479
ljdavnp@samford.edu

Spring Hill College

Dr. Charles Chester
Dept. of Biology
Mobile, AL 36608
Ph: (251) 380-3071
Fax: (251) 460-2198
cchester@shc.edu

Talladega College

Dr. Lawrence Drummond
Div. of Natural & Comp. Science
627 West Battle Street
Talladega, AL 35160
Ph: (256) 761-6307
Fax: (256) 761-6437
ldrummond@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. Douglas Hileman
Dept. of Biology
Tuskegee, AL 36088
Ph: (334) 727-8828
Fax: (334) 724-3919
hilemand@tuskegee.edu

*University of Alabama

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

*Univ. of Alabama at Birmingham

Dr. Ken Marion
Dept. of Biology
University Station
Birmingham, AL 35294
Ph: (205) 934-8309
Fax: (205) 975-6097
km Marion@uab.edu

*Univ. of Alabama at Huntsville

Dr. Bruce Stallsmith
Dept. of Biological Sciences
Huntsville, AL 35899
Ph: (256) 824-6992
Fax: (256) 824-6305
stallsb@uah.edu

University of Mobile

Dr. Sarah Noble
Dept. of Natural Sciences
5735 College Parkway
Mobile, AL 36613
Ph: (251) 442-2408
Fax: (251) 442-2523
snoble@umobile.edu

University of Montevallo

Dr. Jill Wicknick
Dept. of Biology, Station 6480
Montevallo, AL 35115
Ph: (205) 665-6458
Fax: (205) 665-6477
Wicknickja@montevallo.edu

University of North Alabama

Dr. Terry Richardson
Dept. of Biology
Box 5048
Florence, AL 35632
Ph: (256) 765-4429
Fax: (256) 765-4430
tdrichardson@una.edu

*University of South Alabama

Dr. Jack O'Brien
Dept. of Biological Sciences
Mobile, AL 36688
Ph: (251) 460-7525
Fax: (251) 414-8220
jobrien@jaguar1.usouthal.edu

University of West Alabama

Dr. John McCall
Dept. of Biology
Livingston, AL 35470
Ph: (205) 652-3724
Fax: (205) 652-3831
jmccall@uwa.edu

***Schools with
Graduate Programs**

Summer Program 2010 Application for Admission*
 Dauphin Island Sea Lab (Deadline for priority registration: February 12, 2010)

Name (print) _____

Date of Birth _____ Sex (M/F) _____ SSN# _____

MESC School Registering Through _____

Other Institutions Attended, Degrees, Dates _____

Are you paying out-of-state tuition? Yes No Check one: Graduate Undergraduate

Student # _____ Level (Fresh, Soph. . .) _____

Your Address at School _____

City _____ State _____ Zip _____ Phone # () _____

Cell Phone # () _____ Email Address _____

Do we have your permission to share your email address with DISL faculty and staff? Yes No

Home Address _____

City _____ County _____ State _____ Zip _____ Phone # () _____

All correspondence will be mailed to your home address or your email address.

Name of Parent or Guardian _____ Phone # () _____

Do you have any allergies, particularly to drugs or medication? Yes No

If yes, please list: _____

Please list prescribed medication you are required to take regularly: _____

Are you susceptible to motion sickness (seasickness)? Yes No

If yes, how serious? _____

Will you need dormitory accommodations? Yes No (If yes, you **MUST** purchase a meal plan)

If space is available in dorms, would you like a private room at additional cost? Yes No

If you are staying in the dorm and would like to room with a particular person who will also be attending the program, please provide his/her name: _____

Would you like a meal plan? Yes No If yes, which plan? 5 day 7 day

Do you have any special dietary needs? If yes, please list: _____

Please list (in detail) special needs due to medical conditions and/or disabilities requiring special accommodations. _____

(Please furnish all documentation to support disability when returning application.)

Please complete reverse side

***Application will not be accepted without \$75 application fee and signature of campus liaison officer.** (Fee is 50% refundable if written cancellation is received by the University Programs Registrar before April 1, 2010.)

In some cases, students may be required to work some evening and weekends to meet course requirements (working in the laboratory, on projects, or participating in extended field exercises and/or overnight field trips.) Some courses may require snorkeling and other water activities.

Courses

May Term Courses (May 17 – May 28)	1 st choice	2 nd choice
Biology and Conservation of Marine Turtles (2 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Dolphins and Whales (2 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Shark and Ray Biology (2 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Vascular Flora of DI and Coastal Alabama (2 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Directed Studies (1 – 6 hrs)	<input type="checkbox"/>	<input type="checkbox"/>

First Summer Session (May 31 – July 2)	1 st choice	2 nd choice
Introduction to Oceanography (4 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Marine Biology (4 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Marine Botany (4 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Marine Invertebrate Zoology (4 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Wetlands Ecology (4 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Geomorphology (2 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Zone Management (2 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Directed Studies (1 – 6 hrs)	<input type="checkbox"/>	<input type="checkbox"/>

Second Summer Session (July 5 – August 6)	1 st choice	2 nd choice
Marine Biology (4 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Marine Ecology (4 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Marine Geology (4 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Marine Toxicology (4 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Marine Vertebrate Zoology (4 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Hurricanes of the Gulf Coast (2 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Marine Aquaculture (2 hrs)	<input type="checkbox"/>	<input type="checkbox"/>
Introduction to Neurobiology (4 hrs) [Jul 27 - Aug 14]	<input type="checkbox"/>	<input type="checkbox"/>
Directed Studies (1 – 6 hrs)	<input type="checkbox"/>	<input type="checkbox"/>

Student Signature: _____

(For Campus Liaison to complete and sign. Application will not be processed if incomplete.)

Approved by (Campus Liaison Officer's signature) _____

Priority designation ____ I, ____ II, ____ III, ____ IV **DATE:** _____

It is important to list both first and second choices for courses whenever possible.

Once you have received notice that you are enrolled in classes at DISL, you **must** also register at your home campus and pay their campus tuition (not applicable for Birmingham Southern Students). **Send completed application and check to: DISL, Sally Brennan, University Programs Registrar, 101 Bienville Blvd., Dauphin Island, AL 36528.**

