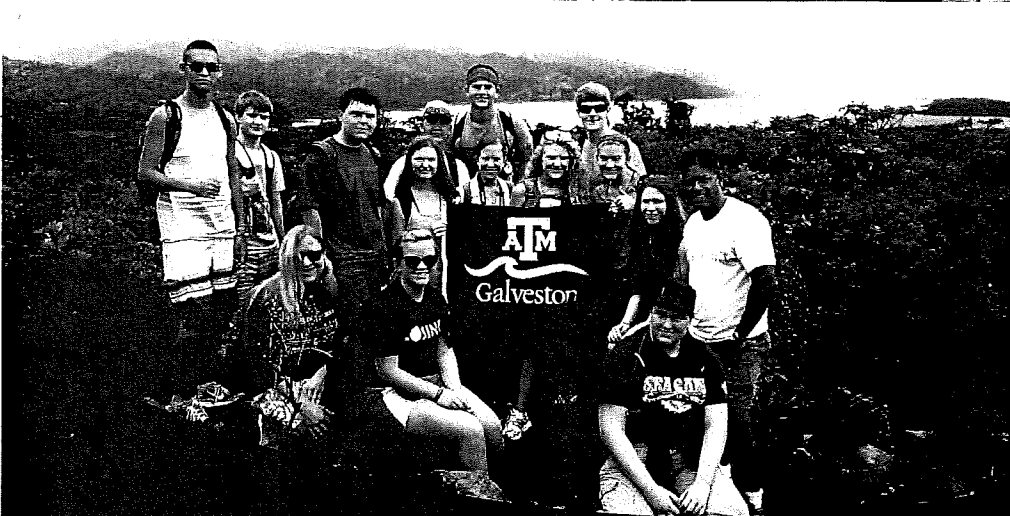
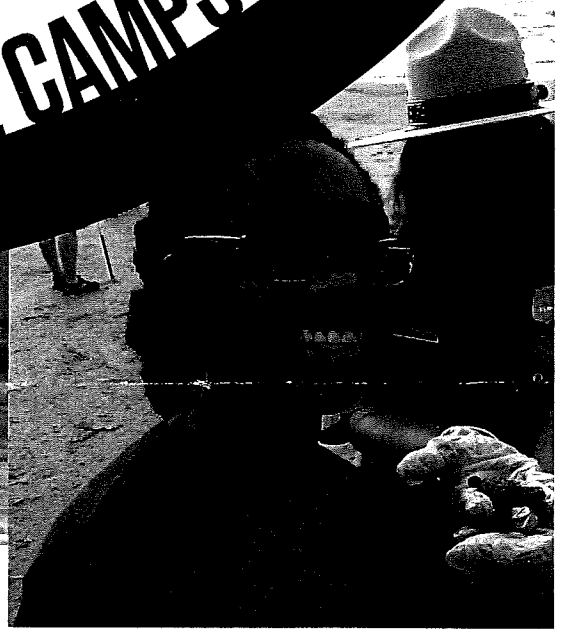


# SEA CAMP

Texas A & M (R) Galveston

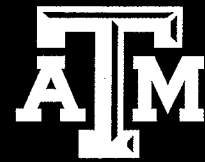
Hands-on Marine Adventures for Ages 10-18

MARINE ADVENTURE CAMPS FOR YOUTH!



2017

  #AggieSeaCamp



TEXAS A&M UNIVERSITY  
GALVESTON CAMPUS

# Sea Camp Week-long Residential Camps for Ages 10-18

## Adventures in Marine Biology (\$890)

### Ages 10-12

June 4-10     June 11-17  
June 18-24     July 9-15  
July 16-22     July 23-29

### Ages 13-14

June 25 - July 1

Explore a salt marsh by seining, digging, and sieving. Learn about biota and food chains. Dissect a fish and learn about fish printing. Collect live oysters and study them with oyster biologists. Trawl for shrimp, fish, and crabs from the research vessel Earl L. Milan or Trident. Tour a turtle facility and meet the threatened Loggerhead sea turtle. Attend a workshop on whales and dolphins and examine real dolphin bones.

## Sharks & More (\$955)

### Ages 10-12

June 11-17     July 9-15  
July 16-22

### Ages 13-14

June 25 - July 1

Have you ever wanted to learn more about sharks? What about the difference between sharks and other types of fish, or what about the truth behind shark attacks? Discover the amazing world of sharks, rays, and more. Observe live sharks at an aquarium. Learn to identify sharks based on their teeth and make your very own shark tooth necklace! Dissect a shark and compare its anatomy with that of a bony fish.

## Coral, Crabs, & Cephalopods (\$890)

### Ages 11-12

July 30-August 5

Submerge into the world of coral reefs, the most diverse and productive communities on Earth. Learn about types of corals & reefs, their locations, inhabitants, and how some are in danger. Additional activities include a squid dissection, research vessel trip, wetlands center excursion, crabbing, and a field trip to Moody Gardens.

## Coastal Ecology (\$955)

### Ages 12-15

June 4-10     June 11-17  
June 18-24     July 9-15  
July 16-22

Learn about the marine ecology of the Galveston Bay area. Explore the sandy beach, salt marsh, jetty, and bay ecosystems. Have fun bird watching, swimming, and dissecting sharks & turtles. Experience what it is like to be a marine biologist for a day working behind the scenes at an aquarium. Go dolphin watching on a cruise across Galveston Bay and fish for flounder, redfish, and trout.



## Fishing Camp (\$955)

### Ages 13-18

June 4-10     June 11-17  
June 18-24

Learn about the marine and estuarine environments through fishing. Catch your bait. Experiment with lures. Tie knots. Improve your cast. Enjoy daily fishing excursions to the bay, beach front (pier, wade, & surf fishing) and offshore. Compare the environments in which you fished and the catch from each location. Study the food chain through fish stomach content analyses. Visit a fish hatchery.

## Coastal Photography (\$955)

### Ages 13-18

June 11-17: Color w/ a Touch of Creative Black & White (beginner)  
June 18-24: Photo Tips & Special Effects (adv.)  
July 9-15: Digital Art  
July 16-22: Photojournalism

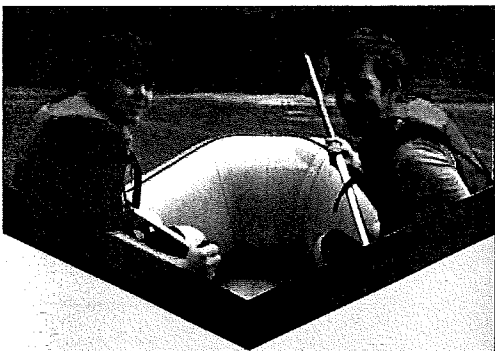
Combine science & art in your choice of 4 unique digital photo camps. In each, you will take photos at the best locations in Galveston, make postcards, visit an art gallery, produce mini-portfolios, and finish the week with an art exhibit of your best images. Visit [mihovil.com](http://mihovil.com) for instructor info.

## Advanced Coastal Ecology (\$955)

### Ages 14-16

June 25 - July 1

Learn more about marine & freshwater ecology of Texas by exploring habitats from the Gulf of Mexico to the East Texas Piney Woods. Discover what it takes to manage a successful and sustainable seafood business. Participate in a sunset kayak paddle, an offshore fishing trip, a bird-watching trip aboard a research vessel & a canoe trip of the Village Creek Paddling Trail. This camp includes one night of camping at Martin Dies State Park.



## **Biology of the Sea Turtle** (\$955)

**Ages 13-14**

June 18-24 June 25 - July 1

**Ages 15-18**

July 9-15 July 23-29

Explore sea turtle biology & ecology on the coast of Texas. 5 of the 7 species of sea turtles worldwide occur in our Gulf of Mexico. Meet & visit sea turtle biologists at NOAA Fisheries, TAMUG, Padre Island National Seashore, the Houston Zoo & the Texas State Aquarium. Observe the feeding ecology of wild green sea turtles at Port Aransas jetties & witness a Kemp's ridley hatchling release on North Padre Island (if available). Venture to the Upper Laguna Madre for water activities. Dissect a freshwater turtle & observe a sea turtle necropsy (if available). Gain a greater understanding of issues concerning endangered & threatened marine species. Includes a 2-night trip to Port Aransas/Corpus Christi area.

## **Hill Country Camping & Aquatic Science** (\$955)

**Ages 14-16**

June 4-10

A natural history & aquatic science tour of the Texas Hill Country. We will travel there & overnight in cabins at Inks Lake State Park. Our schedule includes the daily dusk emergence of Mexican freetail bats, hiking trips at Pedernales Falls State Park and Enchanted Rock State Natural Area, swimming at Barton Springs, river trip on the Guadalupe River, spelunking and a geology workshop at Longhorn Caverns, moonlight paddle to the Devil's Waterhole, & pie at the world famous Blue Bonnet Café.

## **Oceanography & Nautical Archaeology** (\$955)

**Ages 14-18**

June 11-17 July 30 - Aug 5

Explore seafaring through the ages as you learn of shipwrecks, lost cargo, & the commerce of modern & ancient cultures. Expand your knowledge of the ocean floor even further by participating in gulf & bay sediment & water sampling. Experience first hand how geology, chemistry, & physics interact to form a variety of habitats.

## **Ocean Careers Awareness** (\$955)

**Ages 15-18**

June 18-24

Combines hands-on experience relating to careers in the marine environment with intros to professionals in a wide variety of careers. TAMUG faculty offer numerous opportunities to explore career options while assisting in the lab or field. Additional meetings are arranged with agencies such as NOAA, Moody Gardens, the UT Medical Branch, & the Coast Guard. Schedule is based on the interest of those enrolled.

## **Marine Mammal Workshop** (\$955)

**Ages 15-18**

June 25 - July 1 July 23-29

July 30 - Aug 5

Gain a broad overview of issues facing marine mammals while developing a greater appreciation for their biology. Study a wide range of marine mammal topics from behavior to physiology to conservation. With the cooperation of the Marine Mammal Research Program at TAMUG and agencies such as the Texas Marine Mammal Stranding Network, this camp offers the cutting edge of marine mammal science. Serious students only; swimming with dolphins is not included or promoted!

## **Ecotourism: Costa Rica**

(\$2500)

**Ages 15-18**

July 21-29

Passport required! Costa Rica is a tropical paradise unmatched by any other Central American country. Join us as we travel across Costa Rica from the beautiful Pacific coast to the Arenal Volcano in northern Costa Rica. We will explore the rainforest ecosystem of the famous Manuel Antonio National Park, kayak the Damas mangrove, study reef fish, & visit beautiful Pacific coast beaches. Our trip continues to Texas A&M's Soltis Center for Research & Education. Students will see the rainforest ecosystem of the Arenal Volcano, study amphibians & reptiles, & take a safari down a tropical river. This camp involves hiking & kayaking - a moderate fitness level is recommended.



## **Sea Camp Intergenerational**

(\$890/person)

June 4-10

Would you like to enjoy Sea Camp along with your children and/or grandchildren? Here is your chance! Camp activities will be similar to 'Adventures in Marine Biology'. Come join us for fun on & in the water - with your family! Best suited for adults 18+ & campers ages 8-14. Adult must accompany child.

# Career-Oriented Residential Camps for High Ability Students Ages 14 - 18

## Marine Biology Research (\$965)

June 4-10      July 23-29

Discover marine biology by exploring the diverse habitats of Galveston Island. Wade in the salt marshes of Galveston Bay & learn why this is a valuable resource. Work alongside TAMUG graduate students to collect pelagic & benthic organisms. Take a trip aboard a research vessel. Learn about endangered sea turtles & visit a sea turtle hatchery. Learn about marine mammals of the Gulf of Mexico. Participate in a marsh restoration project. Design an original research project and presentation. This course is designed for students seeking field experience in the marine environment.

## Marine Science Research (\$965)

June 25 - July 1

Marine science researchers concentrate on physical, chemical, & geological science aspects of marine, estuarine, & coastal environments. A survey of recent TAMUG marine science grads who entered a professional career shows that many of them are currently working in the offshore petroleum exploration & production industry. A tentative schedule for this course includes: careers in marine science, wetlands transects, water & sediment sampling, the pros & cons of artificial reefs, offshore petroleum exploration, remote sensing technology, density dynamics, & environmental law. Students will also design an original research project and presentation.

## Marine Engineering (\$965)

July 16-22

Much like the Marine Engineering Technology degree offered at TAMUG, this camp introduces campers to an interdisciplinary education in marine propulsion & maritime-related engineering. It explores Maritime Systems Engineering through topics such as fluid mechanics, naval architecture, structural design, & coastal engineering. Campers engage in several hands-on building activities & competitions, get exposure to marine engineering labs at TAMUG & interact with TAMUG engineering students & staff. Field trips may include: TAMUG training ship & simulator, Ocean Star Oil Rig Museum, & NASA.

## Veterinary Medicine (\$965)

July 23-29  
July 30 - Aug 5

Would you like to practice veterinary medicine some day? Why not get a head start this summer? Vet-med camp is the perfect camp for you if you are interested in helping animals. Spend a week touring large and small animal vet practices to help you decide which you like best. Also visit laboratory animal medicine facilities, learn about zoo medicine, and explore animal welfare facilities. Discuss your future with vets, technicians, trainers, rehabilitators, and behaviorists who share your passion for helping our furry, fluffy, and feathered friends!

## Pre-Med (\$965)

**Ages 16-18 only**  
July 9-15      July 16-22

This week-long session is designed to expose serious students to different aspects of medical sciences. Gain appreciation for a pathologist's perspective by participating in a virtual autopsy! Discover the difference that doctors & therapists make in a child's life at Shriners Hospital for Children, an innovative free hospital that provides highly specialized (orthopedic & burn) pediatric care. A very privileged tour of the Human Genome Project at Baylor College of Medicine helps students realize the impact of genetic research in finding cures for many diseases. This camp is created for students with a serious passion for helping others & a high interest in pursuing a medical career. The camp consists of lectures and private tours of real labs, treatment centers, & working clinics. All field trips tentative pending doctor/facility availability.



## Additional Summer Outreach Programs

Sea Campus Kids is a day camp for ages 4-11, with exciting workshop topics like 'Sharks, Stingrays, and Crabs' and 'Marine Mammals'...Sea Campus Kids is very popular with our young marine biologists in training! Visit the Sea Camp website for more info: [tamug.edu/seacamp](http://tamug.edu/seacamp)



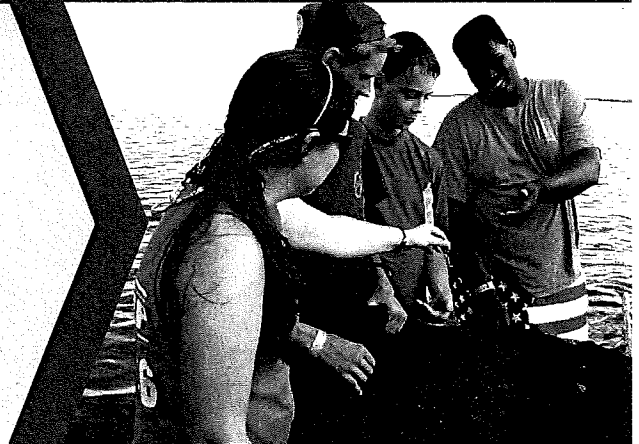
## Camp Registration

Registration is available online at: [www.tamug.edu/seacamp](http://www.tamug.edu/seacamp) or you can call the Sea Camp office at (409) 740-4525. A deposit of \$150 is required to reserve a camp session (\$700 for Sea Camp Costa Rica). Camp changes or cancellations must be submitted to the Sea Camp office in writing at least 3 weeks prior to the scheduled camp session or the deposit is non-refundable. After you register, you will receive a detailed camper packet. Camper packets begin mailing out in March 2017. Camper packets include a form for roommate request, travel information, packing list, waivers, and more.



## Housing, Supervision, & Instruction

Sea Campers will reside in dormitories at the Texas A&M University at Galveston (TAMUG) Mitchell campus on Pelican Island. Campers are roomed two to a room and four to a suite. Roommate requests are available on forms sent after registration. A resident manager, dorm mom, recreation director, camp assistant and counselors (counselors are K-12 educators) are present 24 hours a day. Sea Camp instructors are experienced faculty members from the Department of Marine Biology at TAMUG, TAMUG undergraduates, TAMUG and TAMU graduate students. Please visit our website for more information: [tamug.edu/seacamp](http://tamug.edu/seacamp)



## History of Sea Camp

Summer 2017 marks the 32nd season of our Sea Camp program at Texas A&M University at Galveston!

In the spring of 1986, Dr. Sammy Ray announced his plan to offer a marine-oriented summer camp for children. This amazing journey we know as 'Sea Camp' still continues today & has touched the lives of over 24,000 campers.

The Sea Camp Staff is very grateful that our marine environment has provided such a wonderful outdoor classroom. An abundance and variety of marine life close at hand has helped explain the connectivity of all life and the importance of protecting our oceans. We are also very grateful to each and every Sea Camper and parent that joins our adventure each year...without you, Sea Camp simply would cease to exist.