

**The Sound School 2019 - 2020**  
**Site based SAE Program Description Guide**

<b>Program name and Term(s)</b>	<b>Day(s)</b>	<b>Location</b>
<i>Waterfront Maintenance (Winter)</i>	<i>Tues, Weds, Thurs</i>	<i>Foote Boat Shop</i>
<p>Help maintain our boats and waterfront facilities while learning valuable skills such as project planning and scheduling; workmanship pride; safe use of chop saw, electric drills and hand tools; and teamwork. There is also a planned trip to the lumberyard!</p>		
<i>Island Rover Crew Training (April-June)</i>	<i>TBD</i>	<i>Foote 728, Sound Pier, Island Rover</i>
<p>This program will help train students who wish to learn the skills necessary to crew aboard Island Rover . Student participants receive instruction that emphasizes safety while handling lines, piloting, using equipment, safety drills and procedures, pre and post departure preparations and other activities related to the operation of M/V Island Rover , a 52ft, twin diesel powered fiberglass vessel that is USCG certified and inspected annually.</p>		
<i>Ag Science Fair (all year)</i>	<i>Wed</i>	<i>Foote 765</i>
<p>Not your ordinary science fair! Join us in investigating your favorite topic concerning Agriculture, Aquaculture, environmental and social systems questions and issues. Design and conduct an experiment with the support of Sound School Science faculty and get ready to participate in the State Ag Science Fair in May. Fall sophomore projects are often used for this after school program, but this program is available to freshmen through seniors. A number of students have had the opportunity to participate at the National Ag Science fair as well, so if science is your thing...</p>		
<i>Vet Science (all year)</i>	<i>Tues</i>	<i>Foote 765</i>
<p>Do you have an interest in all things animal?? Think outside the aquarium in this after school program that focuses on all sorts of land animals. Learn how to care for common pets, hear from speakers on a range of topics and explore possible careers! This program is led by two junior students who are passionate about animals and want to share their knowledge.</p>		
<i>Eco- Adventure (fall and spring)</i>	<i>TBD</i>	<i>Foote 765</i>
<p>Students enjoy a diverse group of adventures outdoors every Thursday in the fall and spring. From geocaching hikes to exploring various ecosystems and their inhabitants, our agenda includes visits to nature centers, gardens, eco-friendly sustainable farms as well as working with the US Fish and Wildlife service to restore nesting habitats of endangered birds. Student interest is considered and plans are made!!!!</p>		

*Dive Club (all year)*

*Tues/Weds/Thurs/Weekends*

*761/Conte Pool*

Ready to experience life underwater? Learn how to scuba dive! Through our partnership with the nonprofit CT Scuba Academy we are able to provide our students with professional training for both recreational and industry scuba diving certifications from Scuba Diving International (SDI). We offer students the opportunity to earn their open-water diver and advanced diver certifications as well as swimming and snorkeling training. All certifications are internationally recognized and generate opportunities for career exposure and development. Once certified dive club members can: explore underwater habitats; conduct underwater research on our student built artificial oyster reef; learn about diving careers and opportunities; and compete in underwater pumpkin carving! We offer dive trips throughout the school year and summer to a variety of fresh and salt water dive sites including: Lake George NY, Dutch Springs PA, Fort Wetherill RI, Key Largo FL, and Bermuda!

*Marine Resources (Fall and Spring)*

*Thursdays*

*Foot 715*

Do you like exploring the local Long Island Sound ecosystem? Join us to learn marine biological field study techniques such as beach seining, otter trawling, horseshoe crab tagging and hatch and release of Atlantic salmon. You will also learn about leadership, data collection, problem solving and teamwork while learning about marine organisms and their roles in the ecosystem.

*Sailing and Seamanship - Sharpies (Fall and Spring)*

*T, W, Th*

*Thomas 425/Shop*

This goal of this program is to develop sailing and seamanship skills by sailing in Sharpies. No experience necessary. Those with more experience will be expected to work with those with less. Students will be taught to set up a Sharpie, proper adjustment of the sails, and how to steer through all points of sail. Each participant will be required to steer a Sharpie around a set course. In order to earn credit, participants must attend at least two time a week.

*Sailing and Seamanship - FJs (Fall, Spring)*  
*(winter 1 day/week)*

*T, W,Th*

*Anderson 604*

This is the Sound School Sailing Team. This program is for those students who would like to sail high performance dinghies (FJs) in a competitive environment. As this program requires a higher level of commitment, members are expected to attend all three days per week if at all possible. No experience is necessary. Those that commit to the team will learn boat handling, sail trim, racing rules and tactics. There will be a schedule of races against other schools and all members are expected to take part. Race days will involve time outside the regular extended day hours. There is also a two week summer program associated with developing skills for the team.

*Debate Team (Fall and Winter through April)*

*Tuesdays*

*Anderson 604*

The Sound School Debate team is run by coaches from Yale as part of the Urban Debate League. Team members are expected to attend practices in which they will learn how to construct an

argument, public speaking and the rules of Parliamentary Debate. No experience is necessary or assumed. The Urban Debate League organizes a series of tournaments at Yale involving New Haven and area schools. The tournaments always have a “novice” division so new debaters will only debate others with little experience. In order to receive SAE credit, a student must participate in at least one tournament. New members should sign up in the Fall.

*Programming / Robotics (Fall, Winter, Spring)*

*Thursdays*

*Emerson 203*

Make stuff go, with no outside control! The purpose of this directed lab is to expose students to introductory programming through a process which builds from fundamental logic and planning to the final programming and execution of an independent set of tasks by a working autonomous robot. Students develop the necessary skills and facility with the programming language for successful completion of a project which satisfies the requirements of a set of tasks. Although students will work in groups of two or three, this lab will require independent work on the various aspects of the project. Students will use Scratch software and the LEGO Mindstorms curriculum to learn basic programming, as well as being exposed to various aspects of the construction process in the completion of their vehicle.

*Underwater Technology / ROV (Fall, Winter, Spring)*

*Fridays*

*Emerson 203*

The purpose of this group is to expose students to the engineering process by involving them in the design, construction and testing of a Remotely-Operated underwater Vehicle(ROV) for competition in the Ranger Class of the Marine Advanced Technology Education (MATE) Center’s International ROV Competition. The goal is the completion of a working vehicle by the end of April for entry in the New England Regional ROV Competition, which is the qualifier for the International event. Meetings involve some instruction in basic ROV components and their function, team management, planning and organizational skills/strategies, task delegation and independent work on the various aspects of the project. This activity is open to all interested freshmen, sophomores and juniors.

*Rowing and Seamanship Directed Lab (all year)*

*Tues, Weds, Thurs*

*Foote 756*

Students will demonstrate critical thinking and problem solving abilities through group challenges including rowing in a variety of weather conditions and working with a variety of different skill level rowers. Captains and experienced rowers will collaborate and lead other rowers in daily activities, both on land and on the water. Students will learn to quickly evaluate situations and learn to act in the face of changing rowing conditions and challenges. Students trained as coxswain will become fluent in the oral commands associated with being in charge of a rowing vessel and all rowers will become familiar with the parts of the rowing equipment, both Concept 2 rowing machines and boats. Performance measures will be used to track the growth of each rower and their progression in skill development students will keep their own record and include this information in their portfolio.

*Fly Tying Directed Lab (Winter)*

*Tuesdays*

*Foote 718*

The Program will involve increasing levels of training and participation student directed group of officers. Through fishing and fly tying, the program is designed to train student's lifelong skills and expose students to various associated careers. The program will involve maintenance and use of equipment, boats, tackle, fish identification, harvesting, dissection, food prep, and conservation, with particular emphasis in this unit on Fly Tying. Learn to tie basic freshwater and saltwater flies with a variety of tying materials. Flies tied include variations of the Goldie, Lefty's Deceiver, Hares Ear Nymph, Muddler Minnow, Poppers, Woolly Bugger.

*Fishing Directed Lab (Fall and Spring)*

*Tuesday or Thursday*

*Foote 718*

The Program will involve increasing levels of training and participation student directed group of officers. Through fishing, the program is designed to train student's lifelong skills and expose students to various associated careers. The program will involve maintenance and use of equipment, boats, tackle, fish identification, harvesting, dissection, food prep, and conservation.

*Beekeeping (Fall, Winter and Spring)*

*Tuesdays*

*Anderson 610*

Beekeeping club exposes students to the wonderful world of honey bees. In the fall and spring students will put on beekeeping veils and gloves and work the hives. We learn to identify the different types of bees by sight, identify the stages of bee development and learn about bee management. In the winter beekeeping club builds frames and bee boxes, learns more about bee management and makes bee related products.

*Aquarium Maintenance Directed Lab (Winter)*

*Tuesday*

*Foote 718*

The Program will involve increasing levels of training and participation student directed group of officers. Through maintaining the school's aquarium, the program is designed to train student's lifelong skills and expose students to various associated careers. The Directed Lab is designed to allow student's hands on time learning the skills required to successfully set up, maintain, and enjoy the art of working with hobby fish and Aquariums. The Directed Lab will support student, teacher, and school aquariums. The program will involve maintenance and use of equipment, fish, food, fish identification, harvesting, dissection, , and conservation.

*Project Planning /Boat maintenance Winter  
and implementation*

*Tuesdays*

*Thomas Boat Shop*

This program is designed for students currently enrolled in the Aquaculture Technology 1 course.. Participating students will be analyzing the needs of The Sound School's sharpie and dory fleet and planning maintenance projects as needed. Construction of a new dory will be considered. This program is intended to be an extension of the Aquaculture Technology I program.

