

MARINELAB PROGRAMS CURRICULUM MATRIX

	5th	6th	7th	8th	9th	10th	11th	12th	college	Notes
Field Trips										
Seagrass Ecology Program	•	•	•	•	•	•	•	•	•	3 hours; Level 1 (grade 5-8) and Level 2 (grades 9 and above)
Seagrass Survey Program					•	•	•	•	•	3 hours; this program must include an additional 30 minute data analysis class (if they are scheduled for Summary, they don't need additional data analysis class); APES
Mangrove Ecology Program	•	•	•	•	•	•	•	•	•	3 hours
Mangrove Ecology Program with Sediment Analysis Lab					•	•	•	•	•	3 hours; cant be done on IV boats; APES
Coral Reef Ecology Program	•	•	•	•	•	•	•	•	•	Level 1 (grade 5-8) and Level 2 (grade 9 and above) options available
Coral Reef BleachWatch Program					•	•	•	•	•	3-4 hours
CRE II: A closer look (previously second year CRE)					•	•	•	•	•	3-4 hours; must have previously participated in Marinelab's CRE Program
Fish ID Program	•	•	•	•	•	•	•	•	•	3-4 hours; Level 1 (grade 5-8) and Level 2 (Grade 9 and above) options available
Fish ID with Parrotfish Feeding Surveys					•	•	•	•	•	3-4 hrs
REEF Fish Survey Program			•	•	•	•	•	•	•	3-4 hrs
Florida Bay Survey Program	•	•	•	•	•	•	•	•	•	flexible timing; must have previously participated in seagrass ecology and mangrove ecology
Seagrass AND Mangrove Ecology Program	•	•	•	•	•	•	•	•	•	3 hrs
Hardbottom Field Trip	•	•	•	•	•	•	•	•	•	3 hrs
Keys Survey Field Trip			•	•	•	•	•	•	•	3.5 hrs; involves getting on and off the boat multiple times for several snorkel opportunities and if weather is not ideal, young snorkelers will not be safe—can be physically too much for many younger students and/or new snorkelers
Marine Debris Program			•	•	•	•	•	•	•	2-3 hr program. Bring shoes! Can be boat trip or land based. Boat trip can be snorkelling (summer!) or climbing through mangroves (winter!). If land based, need to notify Pennekamp beforehand
Algae Investigation	•	•	•	•	•	•	•	•	•	2-3 hrs; need to have participated in Mangrove Ecology
Nest Key Field Trip	•	•	•	•	•	•	•	•	•	3 hrs; bring shoes!; avoid during hottest months
Reef Restoration Program			see notes	see notes	•	•	•	•	•	2-4 hrs; Any group can do the field trip without the talk. 7th and 8th should only do field trip, need to notify CRF beforehand
Advanced Reef Restoration (Citizen Science)			see notes	see notes	•	•	•	•	•	2-4 hrs; Any group can do the field trip without the talk. 7th and 8th should only do field trip. this program includes going to nursery (snorkelers observe, divers clean trees) and then collecting data for CRF at outplanting site; need to notify CRF beforehand
Rodriguez Key Field Trip	•	•	•	•	•	•	•	•	•	3 hrs
Rodriguez Key Field Trip with Diversity Indexing Lab					•	•	•	•	•	3 hrs; these students must have participated in Marinelab's diversity indexing lab
Labs										
Zooplankton Lab	•	•	•	•	•	•	•	•	•	1 hr; stereoscopes
Invertebrate Diversity Lab	•	•	•	•	•	•	•	•	•	1 hr
Evening Lagoon Snorkel	•	•	•	•	•	•	•	•	•	1 hr; avoid in colder months
Mission: Aquanaut	•	•	•	•	•	•	•	•	•	
Plankton Races	•	•	•	•	•	•	•	•	•	can be a 1 hour (students stay dry) OR 3 hours (students snorkel in lagoon)
Invertebrate Behavior and Morphology Lab	•	•	•	•	•	•	•	•	•	1 hr
Advanced Invertebrate Behavior and Morphology Lab					•	•	•	•	•	1 hr; AP Bio
Microplastics Lab			•	•	•	•	•	•	•	1 hr; stereoscopes; 36 students MAX

MARINELAB PROGRAMS CURRICULUM MATRIX

Water Quality Lab			•	•	•	•	•	•	•	1 hr; students collect data on their field trips; data discussed during summary
Advanced Water Quality Lab					•	•	•	•	•	APES; 1 hr; students collect data on their field trips; data discussed during summary
Sea Turtle Activity 1	•	•								1 hr
Sea Turtle Activity 2			•	•	•	•	•	•	•	1 hr
Sponge Spicule Lab				•	•	•	•	•	•	1 hr; compound microscopes
<i>Cassiopeia</i> culturing Lab				•	•	•	•	•	•	1 hr; stereoscopes; embryos take 24-72 hours to develop into polyps; data is discussed during "summary" class
Phytoplankton Monitoring Lab (HAB Lab)					•	•	•	•	•	2 hours; compound microscopes!, MAX # 36 students (4/scope); includes zooplankton ID
Diversity Indexing Lab					•	•	•	•	•	2 hours; correlates with APES standards
Discussions										
Everglades Hydrology Discussion	•	•	•	•	•	•	•	•	•	
Keys Awareness	•	•	•	•	•	•	•	•	•	
Keys Habitats				•	•	•	•	•	•	these classes are for groups that are doing more than our basic 3 day/2night program
Summary	•	•	•	•	•	•	•	•	•	these classes are for groups that are doing more than our basic 3 day/2night program; have a level 1 and level 2. Both include analysis of any data collected during the trip

GRADES 5 - 6	GRADES 7 - 12
GRADES 5-8	GRADES 8 - 12
GRADES 7-10	GRADES 9 -12