



The Academy of Coastal Studies provides five pathways for students to empower themselves with the knowledge and skills needed to protect and preserve the environment and the livelihood of the beautiful Gulf Coast. Students may choose from Coastal Environmental Studies, Environmental Management – Plant Systems, Fisheries Management & Aquaculture,

Maritime & Industrial Technologies, and Recreation, Travel, & Tourism, and given the close connection between the pathways, students will be given the option to enroll in courses in multiple pathways. These five pathways are designed to provide a platform for collegiate and/or career opportunities.

Pathway Overview:
Fisheries Management & Aquaculture



With community tradition at the root of this program, students who enroll in the Fisheries Management & Aquaculture pathway will gain the knowledge and skills necessary to move beyond the harvesting of wild seafood to an industry of seafood production and harvesting. Through the courses of Aquaculture Science, Aquatic Biology, Aqua Experience, and Fish & Wildlife, students will learn about aquaculture systems, water chemistry and management, system design and maintenance, health and sanitation, and other aquaculture issues.

Course Sequence

10th Grade	11th Grade	12th Grade
Aquaculture Science	Aquatic Biology or Fish & Wildlife Management	Aqua Experience or Fish & Wildlife Management

Course Descriptions

Aquaculture Science

Students in this one-credit course are introduced to practical applications of both physical and biological concepts and skills. While aquaculture is the cornerstone of this course, the program places heavy emphasis on integration of knowledge to solve problems and broaden depth of understanding about topics such as career opportunities, safety, history, water chemistry and management, aquaculture systems, aquatic biology, and health and sanitation.

Aqua Experience

Aqua Experience is an aquaculture class designed to enhance students' understanding of the aquaculture industry. This course gives students an overview of the scientific research associated with the aquaculture industry and the economic significance aquaculture plays at the local, state, and national levels, including entrepreneurship and related business functions. Additional areas of instruction include career opportunities, safety, water quality management, and system design and maintenance.

Aquatic Biology

Aquatic Biology is a one-credit course that explores the aquaculture industry as it relates to biology. Emphasis is placed on scientific concepts involving the use of microscopes and the conversion of unit measurements. Topics include career opportunities, safety, history, aquatic species, water management, health and sanitation, biotechnology and aquaculture issues.

Fish & Wildlife Management

Fish and Wildlife Management is a course that provides students with the opportunity to become knowledgeable about some of today's most valued, yet vulnerable, natural resources. Topics included in the course are career opportunities, outdoor safety, history, issues, classification, fish and wildlife ecology, fish and wildlife management, endangered species, fish and wildlife pest management and outdoor recreation.