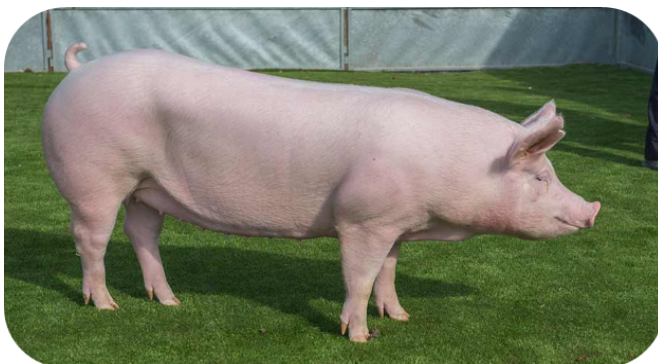


The Academy of Coastal Studies provides five pathways for students to empower themselves with the knowledge and skills needed to protect and preserve the environment and the livelihood of the beautiful Gulf Coast. Students may choose from Agriscience, Coastal Environmental Studies,

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: Agriscience



Through classroom and hands-on learning experiences, students enrolled in the Agriscience pathway will take courses that will give them a general overview of the Agriculture, Food and Natural Resources cluster, which contains Power, Structure, and Technical Systems; Environmental and Natural Resources Systems; Animal Systems; Plant Systems; and Agribusiness Systems. Topics included in these courses include career opportunities, safety, technology applications, agribusiness leadership, environmental science, soil science, plant science, forestry, animal science, aquaculture, wildlife science, pest management, woodworking, metalworking, small engines, electrical wiring, and plumbing.

Course Sequence

10th Grade	11th Grade	12th Grade
Fundamentals of Agriscience	Intermediate Agriscience	Advanced Agriscience

Course Descriptions

Fundamentals of Agriscience

Fundamentals of Agriscience is a one-credit course that is based around NCCER Core Curriculum including basic safety, construction math, hand tools, power tools, construction drawings, basic rigging, communication skills, employability skills, and materials handling. Fundamentals of Agriscience is offered in series along with Intermediate Agriscience, and Advanced Agriscience. It is a required pre-requisite for the other courses in this pathway.

Intermediate Agriscience

Intermediate Agriscience is a one-credit course that provides students with an intermediate understanding of the Agriculture, Food and Natural Resources cluster. Students are involved in classroom and laboratory activities in each of the pathway areas that contain Power, Structure, and Technical Systems; Environmental and Natural Resources systems; Animal Systems; Plant Systems; and Agribusiness Systems. The emphasis for Intermediate Agriscience is plant systems. This curriculum will provide opportunities for Career Readiness Indicators utilizing resources from the Alabama Green Industry Training Center, Landscape Management Technician, and NCCER.

Advanced Agriscience

Advanced Agriscience is a one-credit course that provides students with an advanced understanding of the Agriculture, Food, and Natural Resources cluster. Topics covered in Advanced Agriscience include Agribusiness Systems; Food and Food Processing; Animal Science; Animal Biotechnology; Animal Rights verses Animal Welfare; Disease and Parasite Control; Veterinary Science; Poultry Science; and Power, Structural, and Technical Systems. The curriculum will provide opportunities for Career Readiness Indicators utilizing resources from the Youth Beef Quality Assurance, Youth Pork Quality Assurance, and NCCER.