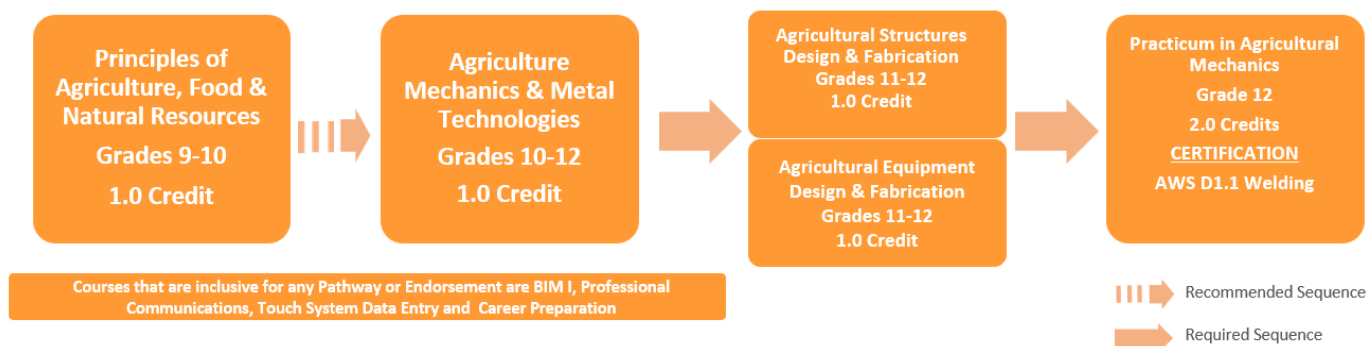


## Business & Industry Pathway – Agriculture Mechanics & Structures



### PRINCIPLES OF AGRICULTURE, FOOD, & NATURAL RESOURCES

**KISD #:** 904018      **PEIMS:** 13000200  
**Grades:** 9-10      **1.0 Credit**  
**Prerequisite:** None

Student will gain introductory knowledge of all aspects in agriculture including agricultural career development, leadership, communications, personal finance, mechanized agriculture, soils, plants, animals, agricultural construction, food science, and supervised agricultural experience programs.

### AGRICULTURAL MECHANICS & METAL TECHNOLOGIES

**KISD #:** 906118      **PEIMS:** 13002200  
**Grades:** 10-12      **1.0 Credit**  
**Prerequisite:** None

Students will be introduced to basic theory and gain specialized skills in agricultural mechanics. Skills to be developed include identification and safe use of tools, carpentry, electricity, plumbing, masonry, fencing, painting, hot and cold metalworking, and welding processes. Construction of projects will be included in this course.

**Required Fee/Materials:** Yes

### AGRICULTURAL STRUCTURES DESIGN & FABRICATION

**\*\*CONCURRENT ENROLLMENT REQUIRED \*\***

**KISD #:** 907518      **PEIMS:** 13002300  
**Grades:** 11-12      **1.0 Credit**  
**Prerequisite:** Agriculture Mechanics and Metal Tech

Students will learn the basic principles of agricultural mechanics, including: blueprint reading and implementation, building site location, CNC drafting and application, carpentry and construction, electrical and plumbing systems, concrete and masonry construction, metal construction and large project building.

**Required Fee/Materials:** Yes

### AGRICULTURAL EQUIPMENT DESIGN & FABRICATION

**\*\*CONCURRENT ENROLLMENT REQUIRED \*\***

**KISD #:** 907318      **PEIMS:** 13002350  
**Grades:** 11-12      **1.0 Credit**  
**Prerequisite:** Agriculture Mechanics and Metal Tech

Students will learn the basic principles of agricultural mechanics, including: blueprint reading and implementation, building site location, CNC drafting and application, carpentry and construction, electrical and plumbing systems, concrete and masonry construction, metal construction and large project building.

**Required Fee/Materials:** Yes

### PRACTICUM IN AGRICULTURAL MECHANICS

**KISD #:** 908618      **PEIMS:** 13002500  
**Grades:** 12      **2.0 Credits**  
**Prerequisite:** Ag Equipment Design and Ag Structures Design and Fabrication

Students will participate in a laboratory-oriented course designed to teach the basic principles of agricultural mechanics, including: blueprint reading and implementation, building site location, CNC drafting and application, carpentry and construction, electrical and plumbing systems, concrete and masonry construction, metal construction and large project building.

**Required Fee/Materials:** Yes  
**Industry Certification:** AWS D1.1 Welding  
 OSHA Safety