

**Gadsden High School  
Plant Systems Pathway**

**INSTRUCTOR: Ramon Quiroga**

**INTRODUCTION TO THE SCIENCE OF AGRICULTURE**

The local, national, and global definitions, history, and scope of agriculture in society is covered in this course. It also covers plant and animal sciences, production and processing; agricultural mechanics. Including tool and machine operation; business and natural resource management; management of food and fiber systems; soil characteristics, formation and properties; and development of leadership and communication skills.

**(Grades 9-10) (01334156)**

**\$10 Lab fee**

**Certification: Agricultural Science I-108**



**SCIENCE-HORTICULTURE-BOTANY**

The focus of this course is on the science of plants (botany). Specific topics include photosynthesis and respiration, analysis of the difference of plant and animal cell structure, genetics, taxonomy and classification. Also included are topics covering entomology, soil chemistry, and plant diseases; virus and bacteria life cycles and effects on plant growth. Focus in on horticultural crops including greenhouse, landscape and floral plants.

*The prerequisite for this course is Intro to Science Agriculture.*

**(Grades 10-11) (16177357)**

**\$10 Lab fee**

**Certification: Plant and Soil Science I-140**



**FLORICULTURE**

Focus is on the floriculture industry including plant production, processing, marketing, and principles of floral design. Students are often involved in a simulated floral shop on the school grounds interior plantscaping may also be included in this course.

*The prerequisite for this course is Science-Horticulture-Botany*

**(Grades 11-12) (16215357)**

**\$10 Lab fee**

**Certification: Floriculture-131**



**LANDSCAPE**

*Introduction to landscape design, construction, and maintenance. Irrigation systems for the landscape, including water conservation and use, and xeriscape for plants. Drawing instruments and symbols used in designing the landscape plan, identification and selection of landscape ground covers, shrubs, trees, and other construction materials. Cost estimates and landscape proposals are also covered in this course*

*The prerequisite for this course is Floriculture*

**(Grades 11-12) (16187402)**

**\$10 Lab fee**

**Certification: Landscape Management-133**