

CFISD Advanced Plant & Soil Science K

Scope and Sequence

Endorsement: Business & Industry

Cluster: Agriculture, Food, & Natural Resources

Meets advanced course requirement? YES ▾

Program of Study: Plant Science

Meets foundation requirement for math, science, fine arts, English, LOTE? YES ▾

Course Description:

Advanced Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. In this course, students will analyze such concepts as impact on production of food, fiber and other economic crops; factors within habitats and ecosystems; watershed, weathering, and erosion; along with origin and impact of fossil fuels and alternative energy sources.

TEKS link

- 1 credit
- Grades 11-12
- Lab supplies or fee may be required
- Required prerequisites: Biology, Chemistry, **and** Greenhouse Operation

Industry Certification/Credential: BASF Plant Science Certification

TEA recognized IBC (to count toward program of study completion)? YES ▾

Instructional Units	Grading Period
Intro to Plant Science Soil Properties & Quality Growing Media Hydroponics	N1 (fall)
Cell Parts & Function Parts of Plants and Function Classification Systems Nomenclature	N2 (fall)
Nutrients & Fertilizers Water, Light and Temperature Requirements Seed Anatomy & Germination Pollination and Fertilization	N3 (spring)
Asexual Propagation Methods Plant Adaptations Pests & Diseases Tools for Production BASF Plant Science Certification Structures & Equipment Marketing	N4 (spring)

Primary Instructional Materials: iCEV Agricultural Science Site by CEV Multimedia Ltd.

Supplementary Instructional Materials: CASE Principles of Agricultural Science-Plant