

Agriculture Plant Science

Agriculture Plant Science AS-T Degree

The Associate in Science in Agriculture Plant Science for Transfer Degree is designed to provide students a seamless transfer to the California State University system. The degree is designed to prepare students for a baccalaureate degree in Plant Science or similar major.

This program provides knowledge of the general principles of agricultural production including soil fertility and irrigation management, tractor operation, pest control and planting, growing, harvesting and marketing of crops.

This program includes coursework required for entry-level positions and foundational knowledge required for careers as pest control advisors, certified crop advisors, farm managers, irrigation consultants, fertilizer sales, and agricultural research technician. A baccalaureate degree in Plant Science will prepare students for various careers in viticulture, horticulture and agronomy.

In order to complete the AS-T in Agriculture Plant Science students must met the following requirements:

- Complete 60 semester units or 90 quarter units that are eligible for transfer to a California State University and include requirements for the CSU General Education Breadth or the Intersegmental General Education Transfer Curriculum;
- Complete a minimum of 18 semester or 27 quarter units in the major or area of emphasis with a grade of "C" or better in all required courses;
- Earn a minimum grade point average of 2.0.

The goals for the Associate in Science in Agriculture Plant Science for Transfer Degree are:

- The Associate in Science in Agriculture Plant Science for Transfer Degree is designed to provide students a seamless transfer to the California State University system. The degree is designed to prepare students for a baccalaureate degree in Plant Science or a similar major.
- Identify the major plant vegetative and reproductive structures and explain plant growth and reproduction processes including respiration, photosynthesis, transpiration, growth, fertilization and fruit formation.
- Integrate and apply basic plant and soil science principles to achieve sustainable plant growth and yield under diverse environmental conditions.
- Explain historical, present and future challenges associated with local and global food production systems.
- Apply scientific reasoning and critical thinking skills to address practical challenges in agricultural production systems.

| <i>Course #</i> | <i>Title</i> | <i>Units</i> |
|---|---|--------------|
| Required Core Courses: 15 Units | | |
| SLSCI 021 .. | Introduction to Soil Science | 4 |
| CHEM 002A | Introductory Chemistry | 4 |
| MATH 025 .. | Introduction to Statistics | 4 |
| AG 014 | Tractor Operations | 3 |
| Plus 3 units from the courses listed below | | |
| CRPSCI 001 . | Introduction to Plant Science | 3 |
| CRPSCI 002 . | Plant Science Theory | 3 |
| Plus 3 units from the courses listed below | | |
| AGBUS 040 . | Introductory Agricultural Economics | 3 |
| ECON 001B . | Microeconomics | 3 |
| Total Major Units | | 21 |
| Units to Be Double-Counted as General Education | | 11 |
| CSU GE Breadth or IGETC Units | | 37-39 |
| Transferrable Elective Units | | 19-21 |
| Total Units Required for AS-T Degree | | 60 |