

# AGRICULTURE PLANT SCIENCE (For Transfer)

## DEGREES, CERTIFICATES AND AWARDS

Associate in Science Degree in Agriculture Plant Science for Transfer (AS-T)

### DESCRIPTION

The Associate in Science in Agriculture Plant Science for Transfer Degree provides for the application of the various principles of the biological and physical sciences in agriculture. The course offerings are fundamental and broad in scope so that students can transfer and prepare to seek employment. Careers may include Agricultural Products Inspector, Crop Consultant, Soil Surveyor, Farm Manager/Operator, Land-Use Planner, Plant Breeder, and Organic Certification Specialist.

**The Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing this degree (AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major.**

### PROGRAM LEARNING OUTCOMES

1. Demonstrate an understanding of fundamental concepts and knowledge related to the selection, propagation and management of various plant commodities produced for food, feed and fiber.
2. Display competency with respect to the use of standard lab, industry equipment and techniques commonly used in production.
3. Demonstrate understanding of scientific research and display critical thinking skills related to hypothesis development and data interpretation as applied to the decision making process related to commercial production.

### ASSOCIATE DEGREE PROGRAM ( For Transfer)

**The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) degree** is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete 60 semester units of CSU transferable coursework with a minimum GPA of 2.0. Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete this degree for more information on university admission and transfer requirements.

### CAREER OPPORTUNITIES

Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

California is one of the top states in the nation in annual gross agricultural returns. The livestock industry and over 250 specialty crops provide a variety of career choices. Trained personnel are employed on ranches and farms, as well as the vast agriculture service industry. Career opportunities also exist with governmental agencies. Every year there are several openings in Agriculture Education in California as well as other states. Of the career opportunities identified many will usually require the completion of degree requirements at 4-year colleges and universities.

- Agribusiness Representative
- Agricultural Products Inspector
- Agronomist
- Chemical Fertilizer Sales
- College Instructor
- Cooperative Extension Agent
- Cooperative Manager
- Crop Consultant
- Crop Production
- Agronomic Production Manager
- County Agricultural Extension Agents
- Plant Geneticist Post secondary Teacher
- Soil Surveyor Vocational Agriculture Teacher
- Crop Scout/Consultant
- Education Specialist
- Farm Manager
- Farming Operation
- 4-H Association Youth Specialist
- Genetic Engineering Scientist
- International Agronomist
- Land Reclamation Specialist
- Land-Use Planner
- Conservation/Environmental Technician
- High School Agriculture Teacher
- Seed, Chemical and Fertilizer Consultant
- Organic Certification Specialist
- Plant Breeder
- Research Technician
- Sales Representative
- Seed Production
- Soil Conservation Specialist
- Youth Development Specialist
- Waste Management Specialist
- Water Quality Specialist

### TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree at Imperial Valley College may not be the same as those required for completing the major at a transfer institution offering a bachelor's degree. Students who plan to transfer to a four-year college or university should schedule an appointment with an IVC Counselor to develop a student education plan (SEP) before beginning their program.

#### Transfer Resources:

[www.ASSIST.org](http://www.ASSIST.org) – CSU and UC Articulation Agreements and Majors Search Engine

[www.CSUMentor.edu](http://www.CSUMentor.edu) – CSU System Information

[www.universityofcalifornia.edu/admissions/index.html](http://www.universityofcalifornia.edu/admissions/index.html) - UC System Information

[www.aiccu.edu](http://www.aiccu.edu) – California Independent Colleges and Universities, Association of

<http://wiche.edu/wue> - Western Undergraduate Exchange Programs

### FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that IVC offers a full array of financial aid programs – grants, work study, scholarships, and fee waivers (we do not participate in the federal loan programs). These programs are available to both full and part time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information: [www.imperial.edu/students/financial-aid-and-scholarships/](http://www.imperial.edu/students/financial-aid-and-scholarships/)

# AGRICULTURE PLANT SCIENCE (For Transfer)

## ASSOCIATE DEGREE PROGRAM

### AGRICULTURE PLANT SCIENCE

Associate in Science Degree in Agriculture Plant Science for Transfer (AS-T) – 21.0-28.0 units

ALL COURSES FOR THIS MAJOR MUST BE COMPLETED WITH A MINIMUM GRADE OF "C" OR BETTER.

#### REQUIREMENTS FOR THE DEGREE

- I. **Units/GPA** – Must complete 60 CSU transferable semester units with a minimum grade point average (GPA) of at least 2.0 in all CSU transferable coursework. *NOTE: While a minimum of 2.0 is required for admission, some institutions and majors may require a higher GPA. Please consult with a counselor for more information.*
- II. **General Education** – Must complete one of the following general education transfer patterns:
  - A. California State University General Education Breadth Pattern (CSU GE-B) – 39 units minimum
  - B. Intersegmental General Education Transfer Curriculum (IGETC) – 37 units minimum
- III. **Twenty-one to Twenty-eight (21-28) units required for the major**

<b>Required for the Major (18.0-19.0 units)</b>			
AG	120	Soil Science	3.0
CHEM	100	Introduction to Chemistry	4.0
OR			
CHEM	200	General Inorganic Chemistry I	5.0
AG	130	Agricultural Economics	3.0
OR			
ECON	101	Introduction to Micro Economics	3.0
MATH	119	Elementary Statistics	4.0
AG	140	Principles of Plant Science	4.0
<b>List A: Select one course (3.0 units)</b>			
AG	245	Plant Propagation/Production	3.0
<b>List B: Select (0.0-6.0 units)</b>			
Any course not already used above.			0.0-6.0
AG	170	Irrigation and Drainage (3.0)	
AG	220	Irrigation and Drainage (3.0)	
AG	230	Fertilizer and Soil Amendments (3.0)	
Total Major Units			21.0-28.0
CSU GE-B or IGETC Pattern			37.0-39.0
Electives (as needed to reach 60 CSU transferable units)			_____
<b>Total Maximum Units:</b>			<b>60.0</b>