

# AGRICULTURE

ASSOCIATE DEGREE &amp; CERTIFICATE PROGRAMS

2021-2022 CATALOG

## DESCRIPTION

Agriculture majors are designed for students wishing to explore this diverse industry.

The AS-T in Agriculture Business is designed to prepare students for transfer to a bachelor's degree program in Agricultural Business or related major at a CSU campus. Agricultural Business graduates at the bachelor's level are qualified for employment in a variety of jobs, in areas such as marketing of crops and related agricultural production equipment, banking and production loans, food processing, international marketing and agricultural policy.

The AS-T in Agriculture Plant Science is designed to prepare students for transfer to a bachelor's degree program in Plant Science, Horticulture or related major at a CSU campus. A bachelor's degree in Plant Science prepares students for a career as a plant scientist, agriculture teacher, biotechnologist, agronomist or crop scientist, turf manager, farm manager, weed scientist, entomologist, nursery and garden specialist, researcher, or landscape manager. Agriculture Mechanics courses provide students with skills and knowledge to enter the mechanized agriculture field. A general agricultural background provides students with entry level employment opportunities and skills along with the ability to transfer to a college or university and continue their studies in a wide variety of agricultural fields.

## ASSOCIATE DEGREE FOR TRANSFER AND CERTIFICATE PROGRAMS

Students who complete an [Associate Degree for Transfer \(ADT\)](#) and transfer to a similar major at a CSU are guaranteed a pathway to finish their baccalaureate degrees in 60 semester or 90 quarter units. These degrees require students to meet both of the following requirements: (1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following: (A) The Intersegmental GE Transfer Curriculum (IGETC) or the California State University GE-Breadth Requirements (CSU GE-Breadth). (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district. (2) Obtainment of a minimum grade point average of 2.0.

## DEGREES, CERTIFICATES & AWARDS

- Associate in Science for Transfer (A.S.-T.)
- Certificate of Achievement (C.A.)

## CAREER OPPORTUNITIES

- Agricultural Policy
- Banking and Production Loans
- Biotechnologist
- Crop Marketing
- Crop Scientist
- Entomologist
- Farm Manager
- Food Processing
- International Marketing
- Landscape Manager
- Nursery and Garden Specialist
- Plant Scientist

## CONTACT

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A **Certificate Program** is designed for students who desire specific training to meet an immediate occupational or personal goal, or for promotion or lateral transfer within their existing field of employment. To qualify for a Certificate of Achievement or a Certificate of Specialization, a student must 1) complete all courses required for the Certificate with an overall grade point average of 2.0.

**ASSOCIATE DEGREE FOR TRANSFER PROGRAM**

**Agriculture Business** — Associate in Science for Transfer

**Required Courses (13-15 Credits)**

AGB 201 . . . . .	Agriculture Economics . . . . .	3
AGPS 241 . . . . .	Introduction To Soil Science. . . . .	3
or CHEM 200 . . . . .	Introductory Chemistry. . . . .	(4)
or CHEM 201A . . . . .	General College Chemistry I. . . . .	(5)
MATH 247 . . . . .	Introduction To Statistics. . . . .	4
ECON 201A . . . . .	Principles Of Macroeconomics. . . . .	3

**List A: Three Courses (9-10 Credits)**

AGB 202 . . . . .	Introduction To Agricultural Business . . . . .	3
ACCT 251 . . . . .	Elements Of Accounting For Business Including Agricultural Business . . . . .	4
AGB 204 . . . . .	Agricultural Sales And Communication . . . . .	3
AGPS 242 . . . . .	Introduction To Plant Science . . . . .	3

**List B: One Course From Below (3-4 Credits). Or Any Course Not Already Used From List A Above.**

BUS 218 . . . . .	Business Law . . . . .	4
MATH 255 . . . . .	Calculus For Business And Management. . . . .	3
NUTR 210 . . . . .	Nutrition . . . . .	3
AGB 210 . . . . .	Introduction To Agricultural Computer Applications . . . . .	4

**Total Credits: . . . . . 25-29**

"P" (Pass) grade is acceptable for major coursework in the Associate Degrees for Transfer. In addition to major preparation course work listed above, completion of the CSU GE or IGETC pattern is mandatory. Courses completed for the major can also be double counted towards GE, where appropriate. See a counselor for details.

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**TRANSFER PREPARATION**

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare to transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Cuesta College counselor to develop a student education plan (SEP) before beginning their program.

**TRANSFER RESOURCES:**

CSU and UC Articulation Agreements and Majors Search Engine:  
[www.ASSIST.org](http://www.ASSIST.org)  
CSU System Information:  
[www2.calstate.edu](http://www2.calstate.edu)

**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 Cuesta College offers a full array of financial aid programs—grants, work study, scholarships, federal loan programs, and fee waivers. 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.cuesta.edu/student/student-services/financial-aid](http://www.cuesta.edu/student/student-services/financial-aid)

**ASSOCIATE DEGREE FOR TRANSFER PROGRAM**

**Agriculture Plant Science** — Associate In Science For Transfer

**Required Core: (17-18 Credits)**

AGPS 241 . . . . .	Introduction To Soil Science. . . . .	3
AGPS 242 . . . . .	Introduction To Plant Science . . . . .	3
AGB 201 . . . . .	Agriculture Economics . . . . .	3
or ECON 201B .	Principles Of Microeconomics . . . . .	(3)
CHEM 200 . . . . .	Introductory Chemistry. . . . .	4
or CHEM 201A .	General College Chemistry I. . . . .	(5)
MATH 247 . . . . .	Introduction To Statistics . . . . .	4

**List A: Select Once Course (3-5 Credits)**

AGPS 243 . . . . .	Plant Propagation And Production . . . . .	3
CHEM 212A. . . .	Organic Chemistry I. . . . .	5

**Total Credits:** . . . . . **20-23**

"P" (Pass) grade is acceptable for major coursework in the Associate Degrees for Transfer. In addition to major preparation course work listed above, completion of the CSU GE or IGETC pattern is mandatory. Courses completed for the major can also be double counted towards GE, where appropriate. See a counselor for details.

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**CERTIFICATE PROGRAMS**

**Equipment Technician** — Certificate of Achievement

**Required courses**

AGM 220 . . . . .	Farm Power, Machinery, And Safety . . . . .	4
AGM 221 . . . . .	Introduction To Agriculture Mechanics . . . . .	3
AGM 223 . . . . .	Agriculture Industrial Power. . . . .	3
ATCH 109 . . . .	Introduction To Automotive Computers . . . . .	2.5
ATCH 154 . . . .	Engine Overhaul Procedures . . . . .	3
ATCH 158 . . . .	Automotive Electricity And Electronics . . . . .	4
ATCH 160 . . . .	Automotive Electrical Accessories . . . . .	4
ATCH 182 . . . .	Automatic Transmissions . . . . .	4
ATCH 188 . . . .	Automotive Heating And Air Conditioning. . . . .	3
ATCH 281 . . . .	Manual Transmissions . . . . .	3
ATCH 269 . . . .	Automotive Technology Internship . . . . .	3
EET 227 . . . . .	Fluid And Pneumatic Technology . . . . .	4
ATCH 255 . . . .	Modern Diesel Technology. . . . .	4
<b>Total Credits:</b>		<b>44.5</b>

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**Mechanized Agriculture** — Certificate of Achievement

**Required Courses (20 credits)**

AGM 220 . . . . .	Farm Power, Machinery, And Safety . . . . .	3
AGM 221 . . . . .	Introduction To Agriculture Mechanics . . . . .	3
AGM 222 . . . . .	Agricultural Safety . . . . .	2
AGM 223 . . . . .	Agriculture Industrial Power. . . . .	3
WELD 270A . . . . .	Basic Welding . . . . .	3
WELD 275 . . . . .	Blueprint Reading And Industry Practices . . . . .	3
AGB 204 . . . . .	Agricultural Sales And Communication . . . . .	3
<b>Total Credits:</b> . . . . .		<b>20</b>

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**Farm Management** — Certificate of Achievement

**Required Courses**

AGB 205 . . . . .	Farm Management . . . . .	3
or AGB 202 . . . . .	Introduction To Agricultural Business . . . . .	(3)
AGB 206 . . . . .	Supervision And Management In Agriculture . . . . .	3
AGPS 241 . . . . .	Introduction To Soil Science . . . . .	3
AGPS 242 . . . . .	Introduction To Plant Science . . . . .	3
AGPS 230 . . . . .	Principles Of Irrigation . . . . .	3
AGM 220 . . . . .	Farm Power, Machinery, And Safety . . . . .	3
<b>Total Credits:</b> . . . . .		<b>18</b>

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**Viticulture** — Certificate of Achievement

**Required Courses**

AGPS 230 . . . . .	Principles Of Irrigation . . . . .	3
AGPS 241 . . . . .	Introduction To Soil Science . . . . .	3
AGPS 242 . . . . .	Introduction To Plant Science . . . . .	3
AGPS 250 . . . . .	Introduction To Viticulture . . . . .	3
AGPS 251 . . . . .	Viticulture Practices . . . . .	3
<b>Total Credits:</b> . . . . .		<b>15</b>

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