

AGRICULTURE

ASSOCIATE DEGREE & CERTIFICATE PROGRAMS

2023-2024 CATALOG

DESCRIPTION

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

The A.S.-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 A.S.-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

The Associate in Science in Agriculture Business for Transfer degree (AS-T in Agriculture Business) prepares students to transfer to the CSU system, as well as other universities, in an Agriculture Business major. Students that earn the AS-T in Agriculture Business will complete lower-division major requirements for a baccalaureate degree in Agriculture Business. The AS-T in Agriculture Business is designated for students wanting an in-depth knowledge of the core agriculture business fundamentals emphasizing chemistry, accounting, economics, sales, and computer applications as they apply to agriculture businesses. This knowledge and skill set comprise the components necessary to work successfully within an industrial society and free enterprise system.

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
CSU System Information:
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/studentservices/finaid

ASSOCIATE DEGREE FOR TRANSFER PROGRAM

Agriculture Plant Science — Associate In Science For Transfer

The Associate in Science in Agriculture Plant Science for Transfer degree (AS-T in Agriculture Plant Science) prepares students to transfer to the CSU system, as well as other universities, in an Agriculture Plant Science major. Students that earn the AS-T in Agriculture Plant Science will complete lower-division major requirements for a baccalaureate degree in Agriculture Plant Science.

The AS-T in Agriculture Plant Science is designated for students wanting an in-depth knowledge of the core agriculture plant science fundamentals emphasizing soil science, chemistry, economics, statistics, and plant science as they apply to agriculture plant science. This knowledge and skill set comprise the components necessary to work successfully within an industrial society and free enterprise system.

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

Provides a broad range of knowledge to prepare students for a career as a technician working on todays advanced Agriculture, Diesel, and Heavy Equipment. Students will study in areas of electrical, HVAC, manual and automatic transmissions, diesel, ag mechanics, plumbing, electrical, welding, equipment operation, safety, hydraulics, and complete an internship. Completion of this certificate will prepare students to pass the ASE Certifications: A1, A2, A6, A7, A9, and students will receive an EPA609 certification.

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
Total Credits:		44.5

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Mechanized Agriculture — Certificate of Achievement

The Certificate of Achievement in Mechanized Agriculture offers students interested in agriculture the opportunity to gain practical skills that prepare them to work in various agricultural environments. Students who obtain this Certificate will be able to enter the dynamic mechanized agriculture field to work in a farm shop as an operator or maintenance technician.

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
Total Credits:		20

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Farm Management — Certificate of Achievement

The Farm Management Certificate provides the coursework necessary to gain successful employment as a Farm Manager. A foundation in agribusiness and labor management, soil and plant science, irrigation, and farm equipment selection and operation prepares students for critical thinking and decision making in the agricultural environment.

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
Total Credits:	18

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Viticulture — Certificate of Achievement

The Viticulture certificate will prepare students to work in the grape or wine industry as a technician, member of a management team, or in other positions related to grape production. The coursework provides a strong foundation in soil, water, and plant science, and includes two classes devoted solely to grape production. Knowledge and skills gained in this program will help students on the job to analyze viticultural decisions and troubleshoot challenging situations.

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
Total Credits:	15

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