

AS Degree in Agriculture Business

Contact Information:

Department Office: WM 105
Department Phone: (530) 895-2551
Department Contact: Ricky Wittsell, Chair (530) 895-6194
Counseling/ Advising: (530) 895-2378
Transfer Center: (530) 895-2264

About the Program:

Program Goal: CTE
GE Pattern(s): Butte Local
Program Code: 01301.01AS

The Agriculture Business program provides the student with employable skills and provides a framework for further study if desired. Course work is practical and broad-based. Emphasis is placed on the development of skills in business management, marketing, finance, computers, human relations, and agricultural accounting. The computer labs, campus farm, and greenhouses provide an ideal setting for hands on learning. To gain practical experience on and off campus internships are available. Numerous area agriculture businesses provide opportunities for field trips, internships, and employment. Student clubs such as the Agriculture Ambassadors provide opportunities for leadership development and community service.

A career in Agriculture Business is both financially rewarding and personally challenging. For job seekers, it is probably the most readily available entry-level position in the agriculture industry. Numerous specialized companies throughout northern California require qualified persons for marketing, sales, finance, policy, government, farm ranch management, and international trade and development. For job entry and advancement, however, certain basic skills remain fundamental. These include proficiency in computers, record keeping, finance, management and marketing. The following is a list of possible agriculture business career opportunities: Bookkeeper, Business Manager, Business Owner, Commodity Broker, Community Development, Consultant, Equipment Dealer, Farm and Ranch Manager, International Development Specialist, Insurance Agent, Land Appraiser, Livestock buyer, Loan Officer, Management Specialist, Produce Buyer, Public Relations, Retail Sales and Sales Representative.

Program Learning Outcome(s):

Upon successful completion of the program, the student will be able to:

1. Accumulate, record, and analyze agricultural financial data.
2. Analyze specific agricultural markets to explain and predict changes in price and economic behavior.
3. Make effective business decisions using a systematic, information-based approach.

Required courses:

		29.00-30.00
AB 15	Agricultural Communication and Sales	3.00
AB 20	Careers in Agriculture, Environmental Science and Natural Resources	1.00
AB 22	Agricultural Economics	3.00
AB 25	Computer Applications in Agriculture	3.00
AB 26	Introduction to Agriculture Business	3.00
AB 50	Agricultural Accounting	3.00
AB 51	Management Accounting for Agriculture	3.00
AB 54	Supervision and Management in Agriculture	3.00
AGS 50	General Soils	4.00
<i>Select one:</i>		3.00
AGS 20	Plant Science	3.00
AGS 40	Introduction to Animal Science	4.00

Total: 29.00-30.00

Suggested Program Map (Butte GE)

Required courses:

Units: 60.00-67.00

<i>Term 1</i>		16.00-19.00
AB 20	Careers in Agriculture, Environmental Science and Natural Resources	1.00
Meets Graduation Requirement.		
AB 22	Agricultural Economics	3.00
Meets Area 4.		
AB 25	Computer Applications in Agriculture	3.00
AB 50	Agricultural Accounting	3.00
Area 1A Choice (See GE Guide)		3.00-4.00
Area 2 Choice (See GE Guide)		3.00-5.00
<i>Term 2</i>		14.00-16.00

AB 26	Introduction to Agriculture Business	3.00
AB 51	Management Accounting for Agriculture	3.00
AGS 50	General Soils	4.00
Meets Area 5.		

Area 1B Choice (See GE Guide)		3.00-5.00
Graduation Requirement Choice (See GE Guide)		1.00

<i>Term 3</i>		15.00-16.00
AB 15	Agricultural Communication and Sales	3.00
<i>Required Core (Select One): Meets Area 5</i>		
AGS 20	Plant Science	3.00
AGS 40	Introduction to Animal Science	4.00

Area 6 Choice (See GE Guide)		3.00
Elective (any course numbered 1-99)		6.00

Only necessary if the 60 units needed to graduate have not been completed. Consider taking a CSU or IGETC General Education course. Visit www.assist.org to see CSU options.

<i>Term 4</i>		15.00-16.00
AB 54	Supervision and Management in Agriculture	3.00
Area 3 Choice (See GE Guide)		3.00-4.00
Elective (any course numbered 1-99)		9.00

Only necessary if the 60 units needed to graduate have not been completed. Consider taking a CSU or IGETC General Education course. Visit www.assist.org to see CSU options.

Total: 60.00-67.00

Certificate of Achievement in Agriculture Business

Contact Information:

Department Office: WM 105

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Department Contact: Ricky Wittsell, Chair (530) 895-6194

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Transfer Center: (530) 895-2264

About the Program:

Program Goal: CTE

GE Pattern(s): None

Program Code: 19981.00CA

The Certificate of Achievement in Agriculture Business prepares students for entry level employment within the industry. Additionally, the certificate provides opportunities for skills enhancement for those with previous experience in agriculture business or those looking to supplement related degrees that benefit from a business focus. Upon completion of the Certificate of Achievement, students will have increased their knowledge of the agriculture industry while having gained experience with fundamental concepts of business management, economics and accounting and production practices as they relate to the agricultural industry.

Program Learning Outcome(s):

Upon successful completion of the program, the student will be able to:

1. Accumulate, record, and analyze agricultural financial data.
2. Analyze specific agricultural markets to explain and predict changes in price and economic behavior.
3. Make effective business decisions using a systematic, information-based approach.

Required courses:

		25.00-26.00
AB 15	Agricultural Communication and Sales	3.00
AB 20	Careers in Agriculture, Environmental Science and Natural Resources	1.00
AB 22	Agricultural Economics	3.00
AB 25	Computer Applications in Agriculture	3.00
AB 26	Introduction to Agriculture Business	3.00
AB 50	Agricultural Accounting	3.00
AB 51	Management Accounting for Agriculture	3.00
AB 54	Supervision and Management in Agriculture	3.00
Select one:		3.00
AGS 20	Plant Science	3.00
AGS 40	Introduction to Animal Science	4.00

Total: 25.00-26.00

Suggested Program Map

Required courses:

Units: 25-26.00

<i>Term 1</i>		13.00
AB 20	Careers in Agriculture, Environmental Science and Natural Resources	1.00
AB 22	Agricultural Economics	3.00
AB 25	Computer Applications in Agriculture	3.00
AB 50	Agricultural Accounting	3.00
AB 54	Supervision and Management in Agriculture	3.00
<i>Term 2</i>		12.00
AB 15	Agricultural Communication and Sales	3.00
AB 26	Introduction to Agriculture Business	3.00
AB 51	Management Accounting for Agriculture	3.00
<i>Required Core (Select One)</i>		3.00-
4.00		
AGS 20	Plant Science	3.00
AGS 40	Introduction to Animal Science	4.00

Total: 25.00-26.00

Certificate of Achievement in Plant Protection

Contact Information

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About the Program

Program Goal: CTE
GE Pattern(s): None
Program Code: 31512.00CA

This certificate prepares candidates for the California State Agricultural Pest Control Adviser (PCA) License examinations and Qualified Applicator License exams. It meets the minimum educational qualifications, and prepares students for exams in IPM principles, laws and regulations, pest identification, physical and biological sciences, crop health, pest management systems and methods, and production systems. Technical experience is highly encouraged through work experience placement.

PCAs have a rewarding career and earn a competitive salary. They have several career avenues to choose from such as state agencies, corporations, sole proprietary companies, and academic professions. There has never been a better time to enter the crop protection industry.

Program Learning Outcome(s):

Upon successful completion of the program, the student will be able to:

1. Safely and accurately use all equipment and products relating to the plant protection industry.
2. Demonstrate the most current methods and procedures in calibration of agriculture equipment.
3. Apply necessary health and safety rules from the Environmental Protection Agency and the California Department of Pesticide Regulation (DPR).
4. Demonstrate appropriate communications skills.
5. Demonstrate an orderly performance of all tasks and skills, establishing methodical habits from state DPR laws and regulations.

<i>Required courses:</i>		42.00
EH 60	Principles of Integrated Pest Management	3.00
<i>Physical, Biological Science and Natural Sciences (Select 12 units):</i>		12.00
AGS 20	Plant Science	3.00
BIOL 1	Introduction to Biology	4.00
BIOL 5	Ecology and Field Biology	4.00
BIOL 15	Introduction to Microbiology	4.00
BIOL 41	Cell and Molecular Biology	5.00
CHEM 51	Elementary Inorganic Chemistry	5.00
CHEM 52	Elementary Organic and Biochemistry	4.00
NR 28	Environmental Management	3.00
<i>Crop Health (Select 9 unit):</i>		9.00
AGS 30	Ecology of Insect and Disease Management	3.00
AGS 50	General Soils	4.00
AGS 51	Fertilizers and Plant Nutrition	3.00
EH 30	Irrigation Practices and Materials	3.00
EH 74	Irrigation System Design	3.00
<i>Pest Management (Select 3 units)</i>		3.00
AET 34	Farm Machinery	3.00
EH 61	Plant Protection Materials	3.00
EH 62	Weed Science and Invasive Plants	3.00
NR 55	Wildlife Management	3.00
<i>Production Systems (Select 6 units):</i>		6.00
EH 20	Introduction to Environmental Horticulture	3.00
EH 23	Fall Plant Identification	3.00
EH 24	Spring Plant Identification	3.00
EH 28	Turfgrass Management and Equipment	3.00
EH 38	Greenhouse Production	3.00
EH 40	Wine Grape Cultivation	3.00
EH 41	Wine Growing Practices - Fall	3.00
EH 42	Wine Growing Practices - Spring	3.00

EH 66	Orchard Production and Management	3.00
EH 70	Plant Propagation and Nursery Practices	3.00
EH 72	Landscape Business Management	3.00
NR 20	Introduction to Forestry and Natural Resources	3.00

Select any 9 units Crop Health, Pest Management and Production Systems not used above 9.00

Total: 42.00

Suggested Program Map

Required courses:

Units: 42.00-59.00

This certificate prepares candidates for the California State Agricultural Pest Control Adviser (PCA). The certificate is 42 units required from the following 5 areas: - Physical, Biological and Natural Sciences (12 units) - Crop Health (9 units) - Pest Management (6 units) - Production Systems (6 units) - electives from any above area (9 units)

<i>Term 1</i>		12.00-15.00
EH 60	Principles of Integrated Pest Management	3.00
<i>Physical, Biological, and Natural Sciences (Select One)</i>		3.00-5.00
AGS 20	Plant Science	3.00
BIOL 1	Introduction to Biology	4.00
BIOL 5	Ecology and Field Biology	4.00
BIOL 15	Introduction to Microbiology	4.00
Prerequisite: CHEM 51 or CHEM 1 and one year high school biology or, BIOL 1 or BIOL 2 or BIOL 20 or BIOL 21		
BIOL 41	Cell and Molecular Biology	5.00
Prerequisite: CHEM 1 and Intermediate Algebra or equivalent		
CHEM 51	Elementary Inorganic Chemistry	5.00
CHEM 52	Elementary Organic and Biochemistry	4.00
NR 28	Environmental Management	3.00
<i>Crop Health (Select One)</i>		3.00-4.00
AGS 30	Ecology of Insect and Disease Management	3.00
AGS 50	General Soils	4.00
AGS 51	Fertilizers and Plant Nutrition	3.00
EH 30	Irrigation Practices and Materials	3.00
EH 74	Irrigation System Design	3.00
<i>Production Systems (Select One)</i>		3.00
EH 20	Introduction to Environmental Horticulture	3.00
EH 23	Fall Plant Identification	3.00
EH 24	Spring Plant Identification	3.00
EH 28	Turfgrass Management and Equipment	3.00
EH 38	Greenhouse Production	3.00
EH 40	Wine Grape Cultivation	3.00
EH 41	Wine Growing Practices - Fall	3.00
EH 42	Wine Growing Practices - Spring	3.00
EH 66	Orchard Production and Management	3.00
EH 70	Plant Propagation and Nursery Practices	3.00
EH 72	Landscape Business Management	3.00
NR 20	Introduction to Forestry and Natural Resources	3.00
<i>Term 2</i>		12.00-15.00
<i>Physical, Biological, and Natural Sciences (Select One)</i>		3.00-5.00
AGS 20	Plant Science	3.00
BIOL 1	Introduction to Biology	4.00
BIOL 5	Ecology and Field Biology	4.00
BIOL 15	Introduction to Microbiology	4.00
BIOL 41	Cell and Molecular Biology	5.00
CHEM 51	Elementary Inorganic Chemistry	5.00
CHEM 52	Elementary Organic and Biochemistry	4.00
NR 28	Environmental Management	3.00
<i>Crop Health (Select One)</i>		3.00-4.00

AGS 30	Ecology of Insect and Disease Management	3.00
AGS 50	General Soils	4.00
AGS 51	Fertilizers and Plant Nutrition	3.00
EH 30	Irrigation Practices and Materials	3.00
EH 74	Irrigation System Design	3.00

<i>Pest Management (Select One)</i>		3.00
AET 34	Farm Machinery	3.00
EH 61	Plant Protection Materials	3.00
EH 62	Weed Science and Invasive Plants	3.00
NR 55	Wildlife Management	3.00

<i>Production Systems (Select One)</i>		3.00
EH 20	Introduction to Environmental Horticulture	3.00
EH 23	Fall Plant Identification	3.00
EH 24	Spring Plant Identification	3.00
EH 28	Turfgrass Management and Equipment	3.00
EH 38	Greenhouse Production	3.00
EH 40	Wine Grape Cultivation	3.00
EH 41	Wine Growing Practices - Fall	3.00
EH 42	Wine Growing Practices - Spring	3.00
EH 66	Orchard Production and Management	3.00
EH 70	Plant Propagation and Nursery Practices	3.00
EH 72	Landscape Business Management	3.00
NR 20	Introduction to Forestry and Natural Resources	3.00

Term 3 18.00-29.00
Physical, Biological, and Natural Sciences (Select One or Two to meet 12 units) 6.00-10.00

AGS 20	Plant Science	3.00
BIOL 1	Introduction to Biology	4.00
BIOL 15	Introduction to Microbiology	4.00
BIOL 41	Cell and Molecular Biology	5.00
CHEM 51	Elementary Inorganic Chemistry	5.00
CHEM 52	Elementary Organic and Biochemistry	4.00
NR 28	Environmental Management	3.00

BIOL 15, CHEM 51, and CHEM 52 all have prerequisites - see catalog.

<i>Crop Health (Select One)</i>		3.00-4.00
AGS 30	Ecology of Insect and Disease Management	3.00
AGS 50	General Soils	4.00
AGS 51	Fertilizers and Plant Nutrition	3.00
EH 30	Irrigation Practices and Materials	3.00
EH 74	Irrigation System Design	3.00

Elective from either Physical, Biological and Natural Sciences, Crop Health, Pest Management, or Production Systems (Select One) 3.00-5.00

Elective from either Physical, Biological, and Natural Sciences, Crop Health, Pest Management, or Production Systems (Select One) 3.00-5.00

Elective from either Physical, Biological, and Natural Sciences, Crop Health, Pest Management, or Production Systems (Select One) 3.00-5.00

Only if necessary to meet 42 minimum units required.

Total: 42.00-59.00