

**Reedley College**  
**Agriculture Education**  
**Associate in Science Degree**

**Item 1. Program Goals and Objectives**

The goal of the associate in science (A.S.) program in agricultural education is designed to equip students for careers as agricultural communication specialists or secondary agriculture teachers. Specializations may be developed in agricultural business, animal sciences, plant sciences, or mechanized agriculture.

Upon completion of this program, students will be able to:

- Identify the major components of Agricultural Education in California.
- Develop a working knowledge of the requirements for teaching agriculture through observation in a secondary agricultural classroom.
- Demonstrate leadership skills, self-confidence, and oral and written communication skills.
- Describe the requirements and qualifications for teaching agriculture, structure and content of vocational agriculture programs.
- Demonstrate a breadth of knowledge of animal science, agriculture business, plant science, natural resources and mechanized agriculture.
- Utilize the components of leadership theory and leadership models in the application of personal leadership through self-assessments and experimental learning activities.
- Successfully complete a supervision and participation program in a secondary agriculture classroom while demonstrating professional ethics.

**Item 2. Catalog Description**

The agricultural education program is designed to equip students for careers as agricultural communication specialists or secondary agriculture teachers. In addition to a required selection of core courses, students will choose a specialization in one of the following focus areas: Agricultural Business, Animal Sciences, Plant Sciences, Mechanized Agriculture or Natural Resources.

**Item 3. Program Requirements**

Agriculture Education AS Degree

Requirements	Dept. Name/#	Name	Units	CSU -GE	IGE TC	Sequence	
Required (27 units)	AGBS 2 (formerly AG 2)	Agricultural Economics	3	D2		Yr 2, Spring	
	AGBS 3 (formerly AG 3)	Agriculture Accounting	3			Yr 2, Fall	
	AGBS 8	Agriculture and Natural Resources Ambassadors	2			Yr 2, Fall	
	AGED 50	Agriculture Education Orientation	3			Yr 2, Spring	
	AS 1	Introduction to Animal Science	3			Fall – Year 1	
	EH 30	Principles of Environmental Horticulture	3			Fall – Year 1	
	NR 1	Introduction to Forestry	3			Yr 2, Fall	
	PLS 2	Soils	3			B1	Yr 2, Spring
	PLS 2L	Soils Laboratory	1			B3	Yr 1, Spring 1
	MAG 40	Introduction to Agricultural Mechanics	3			Yr 1, Spring	
Students will select 6 units from one of the following areas:							
Agriculture Business	AGBS-1 (formerly AG-9)	Introduction to Agriculture Business	3			Yr 1, Fall	
	AGBS-4 (formerly AG-1)	Computer Applications in Agriculture	3			Yr 1, Fall	
	AGBS-5 (formerly AG-5)						

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		Ag Sales and Communications	3			Yr 2, Spring
Animal Science	AS-2 AS-3  AS-4 AS-6 AS-40	Beef Production Small Ruminant Production <i>(formerly Sheep Production)</i> Swine Production Livestock Selection and Evaluation Livestock Exhibition and Marketing <i>(formerly Fairs and Expositions)</i>	3 3 3 3 2			Yr1, Fall Yr 1, Spring  Yr 1, Spring Yr 2, Fall Yr 2, Fall
Plant, Soil Science	PLS-1 PLS-3 PLS-4A PLS-8	Introduction to Plant Science General Viticulture Tree and Vine Management Vegetable Production	3 3 3 3	B2		Yr 1, Fall Yr 2, Fall Yr 1, Spring Yr 2, Spring
Agriculture Mechanics	MAG-41  MAG-42  MAG-43  MAG-44	Introduction to Agricultural Welding Small Gasoline and Diesel Engines Electrical and Hydraulic Fundamentals Agriculture Welding Fabrication	3 3 3 3			Yr 1, Fall  Yr 2, Fall  Yr 2, Spring  Yr 2, Spring
Natural Resources	NR-4 NR-7 NR-12 NR-20	Forest Ecosystems Natural Resources Watershed Ecology Forest Measurements	3 3 3 3	B2		Yr 2, Spring Yr 1, Spring Yr 2, Fall Yr 2, Spring

Required Major Total                                    33 units  
Local GE/Graduation Requirements            24 units  
Transferable electives                                    3 units  
TOTAL UNITS    60 units

Proposed Sequence:  
Year 1, Fall = 15 units  
Year 1, Spring = 15 units  
Year 1, Summer =15 units  
Year 2, Fall = 15 units  
Year 2, Spring = 15units  
TOTAL UNITS: 60 units

**Item 4. Master Planning**

This Agriculture Education Associate in Science degree is in agreement with the Reedley College’s Mission and State Center Community College District’s Master Plan Goal 4 of Economic and Workforce Development by offering access to quality career technical programs. With specific attention to agricultural education students interested in becoming an agriculture teacher a sound foundation focus this degree program on meeting the needs of the agriculture industry.

Through a strong working relationship with Fresno State, this degree program would be nearly one-hundred percent transferable to their Agriculture Education program. Both existing and new courses will facilitate a

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smooth transition for our students as they transfer to the universities to acquire a baccalaureate degree and credentialing.

**Item 5. Enrollment and Completer Projections**

CB01: Course Department Number	CB02: Course Title	<Year 1>		<Year 2>	
		Annual # Sections	Annual Enrollment Total	Annual # Sections	Annual Enrollment Total
AGBS-4 (formerly AG-1)	Computer Applications in Agriculture	2	37	4	
AGBS-2 (formerly AG-2)	Agricultural Economics	3	69	5	
AGBS-3 (formerly AG-3)	Agriculture Accounting	2	38	2	
AGBS-5 (formerly AG-5)	Ag Sales and Communications	1	11	3	
AGBS 1 (formerly AG-9)	Introduction to Agriculture Business	2	59	3	
AGBS-8 (formerly AGNR-41)	Agriculture and Natural Resources Ambassadors	2	2	2	17
AS-1	Introduction to Animal Science	3	76		
AS-2	Beef Production	1	32		
AS-3	Small Ruminant Production <i>(formerly Sheep Production)</i>	1	19		
AS-4	Swine Production	1	21		
AS-40	Livestock Exhibition and Marketing <i>(formerly Fairs and Expositions)</i>	4	80		
AS-6	Livestock Selection and Evaluation	1	10		
MAG-40	Introduction to Agricultural Mechanics	4	72		
MAG-41	Introduction to Agricultural Welding	2	34		
NR-1	Introduction to Forestry	3	65		
NR-12	Watershed Ecology	1	22		
NR-20	Forest Measurements	1	16		
NR-4	Forest Ecosystems	4	73		
NR-7	Conservation of Natural Resources	13	231		
PLS-1	Introduction to Plant Science	2	56		
PLS-2	Soils	2	70		
PLS-2L	Soils Laboratory	2	32		
PLS-3	General Viticulture	1	16		

(B) Survey

Throughout the development process, the faculty at Reedley College was able to contact other community colleges the provided similar program related to diverse agriculture experiences with a focus on agriculture literacy.

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However, none provides an actual “Agriculture Education” degree program. Merced College does offer an Associate in Science, Agriculture Science that includes a similar course to Reedley College’s AGED50 (Agriculture Education Orientation) where students observe teaching and learning in local high school agriculture programs.

Projections for career opportunities and placement in Agriculture Education is extremely promising. Over the last five years, (2011-2016) California alone experienced tremendous expansion in the agriculture education at the secondary level. With this tremendous growth comes an incredible need for secondary agriculture teachers. In the same period, California has been deficient in filling the demand for credentialed teachers to fill positions. With the expansion of CTE programs in California this degree program will help produce qualified agriculture teacher candidates.

**Item 6. Place of Program in Curriculum/Similar Programs**

Before completing this section, review the college’s existing program inventory in the CCC Curriculum Inventory, then address the following questions:

- a) Do any active inventory records need to be made inactive or changed in connection with the approval of the proposed program? If yes, please specify.

Not applicable.

- b) Does the program replace any existing program(s) on the college’s inventory? Provide relevant details if this program is related to the termination or scaling down of another program(s).

Not applicable.

- c) What related programs are offered by the college?

Current RC Agriculture Programs

35194	Agricultural Mechanics	A.S. Degree
35266	Agricultural Mechanics	Certificate of Achievement
19459	Agriculture & Technology	A.S. Degree
33596	Agriculture Animal Science	A.S.-T Degree
19818	Agriculture Business	Certificate of Achievement
33395	Agriculture Business	A.S.-T Degree
19817	Agriculture Business Management	Certificate of Achievement
19816	Agriculture Business, Option A	A.S. Degree
01760	Agriculture Business, Option B	A.S. Degree
33830	Agriculture Plant Science	A.S.-T Degree
35010	Animal Husbandry	Certificate of Achievement
01757	Animal Science	A.S. Degree
22685	Environmental Horticulture	Certificate of Achievement
01759	Environmental Horticulture	A.S. Degree
35299	Equine	Certificate of Achievement
31671	Equipment Technician Level I	Certificate of Achievement
31672	Equipment Technician Level II	Certificate of Achievement
12324	Forest Surveying Technology	Certificate of Achievement
35122	Forestry	A.S. Degree

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12370	Forestry Technician Firefighting Emphasis	Certificate of Achievement
19793	Forestry/Natural Resources	A.S. Degree
01756	General Agriculture	Certificate of Achievement
19457	Irrigation, Fertility & Pest Management Technician	Certificate of Achievement
33687	Manufacturing Maintenance Mechanic	A.S. Degree
33530	Manufacturing Maintenance Mechanic	Certificate of Achievement
01762	Mechanized Agriculture	A.S. Degree
22686	Mechanized Agriculture	Certificate of Achievement
35265	Medium Heavy Duty Truck Service and Repair	Certificate of Achievement
35123	Natural Resources	A.S. Degree
12326	Natural Resources Training and Applied Work Experience	Certificate of Achievement
19456	Pest Control Advisor	Certificate of Achievement
01758	Plant and Soil Science	A.S. Degree
31880	Plant Protection Intern	Certificate of Achievement
19458	Production Agriculture Technician	Certificate of Achievement
12325	Recreation and Interpretation Techniques	Certificate of Achievement

**Item 7. Similar Programs at Other Colleges in Service Area**

Throughout the development process, we have worked closely with California State University, Fresno. Our program is designed for students wishing to complete their bachelor's degree and teacher preparation at a university. At the time of this proposal, no other colleges in the Service Area have similar programs in Agriculture Education.

The College of the Sequoias in Visalia, approximately 30 miles from Reedley, does have degree program that allows program completers to transfer to a university.

The following course description and course listing offered at COS:

“The Agriculture Science program offers degree, certificate and transfer students, practical and theoretical experience through hands-on and classroom instruction in general agricultural sciences. Courses in Agriculture Science include topics in Agriculture Pest Management, Agriculture Leadership, and Soils Science, as well as a variety of other areas of Agriculture.”

- AG 001: Ag, Society & The Environment
- AG 002: Environmental Conservation
- AG 003: Economic Entomology
- AG 004: Soils
- AG 104: Safety in Ag Practices
- AG 107: Ag Education Orientation
- AG 117AD: Agriculture Enterprise Project
- AG 119: Student Success in Ag
- AG 120: Intro to Crop Production
- AG 125: Principles of Pesticide Use
- AG 200AD: Ag Leadership

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