
Criteria A. Appropriateness to Mission

Narrative Items #1-4

1. Statement of Program Goals and Objectives

The Associate of Science for Transfer in Agribusiness prepares students transferring to a California State University in Agribusiness. The required classes represent the normal undergraduate core for transfer to the California State University. Graduates from California State University have a wide range of career options including: Agribusiness, Business, Agricultural Sales, Ag Marketing, Ag Finance, Agricultural Production, Agricultural research, Vocational Ag Teaching and general agriculture. They may work in multiple specialty areas related to Agriculture, including but not limited to: accounting, finance, marketing, management, human resources, logistics, communication and information systems. Career opportunities are expected to continue to be strong in these areas.

By the completion of the degree the student will be able to:

1. Analyze business, economic, or financial principles and explain their applications to the real-world of agriculture.
2. Apply written and verbal communication skills in an Agribusiness relationship, a teamwork setting or a leadership position.
3. Demonstrate applications of ethical behavior in the agribusiness environment.
4. Demonstrate competency by using technology effectively in the agribusiness environment.
5. Explain the significance of international markets to the success of global agribusiness and the stability of commodity prices domestically.

2. Catalog Description

Existing program:

Agriculture: Production Associate in Arts

The Agriculture major is designed for students who are looking at an Associate Degree from Porterville College as a terminal Degree as well as for students transferring to four-year schools with various Agriculture majors. The required classes represent the normal undergraduate core for transfer to the CSU system.

Graduates from a four-year school have a wide range of career options including but not limited to: Agriculture Business and Agriculture Production areas.

Program Learning Outcomes: Students will understand and describe the nature of leadership and the role of the manager as a leader; compare and contrast the role of agriculture in the economic structure of the country and the world; identify the Best Management Practices for sustained productivity of agricultural production; demonstrate technological competency by using technology effectively in the business environment of a workplace; explain the significance of international cooperation to the success of global Agribusiness.

At least twenty-four (24) units must be completed from the following courses:

Core Courses - 12 units required

- AGRI P101 - Introduction to Agribusiness 3 units
- AGRI P102 - Agricultural Economics 3 units
- AGRI P103 - Agricultural Sales 3 units
- AGRI P104 - Computer Applications in Agriculture 3 units

Optional Courses - 12 units

- AGRI P105 - Farm Accounting 3 units
- AGRI P106 - Introduction to Soil Science 3 units
- AGRI P107 - Agricultural Marketing 3 units
- AGRI P110 - Principles of Pesticide Use 3 units
- AGRI P117 - Plant Propagation/Production 3 units
- AGRI P131 - Introduction to Plant Science 3 units
- AGRI P132 - Agricultural Math 3 units
- AGRI P133 - Orchard Production and Management 3 units
- AGRI P134 - Vineyard Production and Management 3 units
- AGRI P135 - Irrigation Fundamentals 3 units

General Education: In addition to completing the major requirements, students must also complete one general education pattern:

1. PC General Education Pattern
2. IGETC Pattern
3. CSU General Education Pattern

Electives as needed to complete the 60 minimum units to complete the degree.

New Associate in Science in Agribusiness for Transfer option:

The Associate in Science for transfer in Agribusiness is designed to prepare students to continue studies toward a Bachelor of Arts. or Bachelor of Science degree in Agribusiness or for entry-level into a variety of career options. Students who pursue an Agribusiness degree will enjoy a wealth of career options in areas including, but not limited to: Agribusiness, General Business, Agricultural Sales, Ag Marketing, Ag Finance, Agricultural Production, Agricultural research, Vocational Ag Education and general agriculture. They may work in a number of specialty areas related to Agriculture, including, but not limited to: accounting, finance, marketing, management, human resources, logistics, communication and information systems.

Program Learning Outcomes: By the completion of the degree the student will be able to:

1. Analyze business, economic, or financial principles and explain their applications to the real-world of agriculture.
2. Apply written and verbal communication skills in an Agribusiness relationship, a teamwork setting or a leadership position.

Associate of Science for Transfer, Agribusiness

3. Demonstrate applications of ethical behavior in the agribusiness environment.
4. Demonstrate competency by using technology effectively in the agribusiness environment.
5. Explain the significance of international markets to the success of global agribusiness and the stability of commodity prices domestically.

Students must satisfy both of the following requirements in order to earn the Associate in Science in Agribusiness for Transfer degree:

1. Completion of 60 semester units of courses eligible for transfer to the California State University, including both of the following:
 - a. 40 units from either the Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements. And;
 - b. A minimum of 20 semester units in the major as determined by the required courses described below.
2. Obtainment of a minimum grade point average of 2.0.

Students must earn a "C" or better in all courses required for the major.

Required Core Courses 13-15 Credits:

AGRI P106	Introduction to Soil Science	3 Units
	or	
CHEM P106	Introduction to Chemical Principles	4 Units
CHEM P101A	General Inorganic Chemistry	5 Units
AGRI P102	Agricultural Economics	3 Units
MATH P122	Intro to Probability and Statistics	4 Units
ECON P102	Principals of Economics	3 Units

List A: Select three of the following courses (9 units):

AGRI P101	Introduction to Agribusiness	3 Units
AGRI P104	Computer Applications in Agriculture	3 Units
AGRI P131	Introduction to Plant Science	3 Units
AGRI P105	Farm Accounting	3 Units
AGRI P103	Agricultural Sales	3 Units

List B: Select 0-9 Units of the following courses:

Any course from List A not already chosen

California State University Breadth General Education

(Area A)Written and Oral Communication and Critical Thinking	9
(Area B)Natural Science and Mathematics	9

Associate of Science for Transfer, Agribusiness

(Area C)Arts and Humanities	9
(Area D)Social, Political, Economic Institutions and Behavior, Historical	9
(Area E)Understanding and Self-Development	3

CSU GE 39

IGETC Education

(Area 1)English and Communication	9
(Area 2)Mathematics	3
(Area 3)Arts and Humanities	9
(Area 4)Social and Behavior	9
(Area 5)Physical and Biological Sciences	7-9

IGETC GE 37-39

Degree Total 60

Note: Students are not required to complete additional campus course graduation requirements.

3. Program Requirements

Required Core Courses 13-15 Credits:

AGRI P106	Introduction to Soil Science	3 Units
	or	
CHEM P106	Introduction to Chemical Principles	4 Units
	or	
CHEM P101A	General Inorganic Chemistry	5 Units
AGRI P102	Agricultural Economics	3 Units
MATH P122	Intro to Probability and Statistics	4 Units
ECON P102	Principals of Economics	3 Units

List A: Select three of the following courses (9 units):

AGRI P101	Introduction to Agribusiness	3 Units
AGRI P104	Computer Applications in Agriculture	3 Units
AGRI P131	Introduction to Plant Science	3 Units
AGRI P105	Farm Accounting	3 Units
AGRI P103	Agricultural Sales	3 Units

List B: Select 0-9 Units of the following courses:

Any course from List A not already chosen

California State University Breadth General Education

(Area A)Written and Oral Communication and Critical Thinking

9

Associate of Science for Transfer, Agribusiness

(Area B)Natural Science and Mathematics	9
(Area C)Arts and Humanities	9
(Area D)Social, Political, Economic Institutions and Behavior, Historical	9
(Area E)Understanding and Self-Development	3
	CSU GE
	39
<u>IGETC Education</u>	
(Area 1)English and Communication	9
(Area 2)Mathematics	3
(Area 3)Arts and Humanities	9
(Area 4)Social and Behavior	9
(Area 5)Physical and Biological Sciences	7-9
	IGETC GE
	37-39
Degree Total	60

4. Background and Rationale

It is important to offer a transfer degree to Porterville College Agriculture students. The Associate of Science for Transfer in Agribusiness degree will allow students to have their education streamlined through the Bachelors degree without duplication of courses at the upper-division level. The Agriculture program has become increasingly popular with students and there is a definite need for trained individuals in this field. Completing this degree will allow the student to be placed in high wage, high demand jobs in this field.

Because of the fulfillment of graduation and breadth requirements, the program continues to draw student from other majors. The total enrollment (unduplicated head count) in the 14 sections of Agriculture classes offered has been as follows: 2008-09=392, 2010-11=392, 2011-12=490, 2012-13=450 and 2013-14=447. This has led to strong FTES/FTEF productivity numbers. In numerous cases, students have changed their major to agriculture because of increased interest in the area or employment prospects with additional skills. The Discipline faculty, Division Chair, and the CTE Dean discussed the need for the Transfer degree.

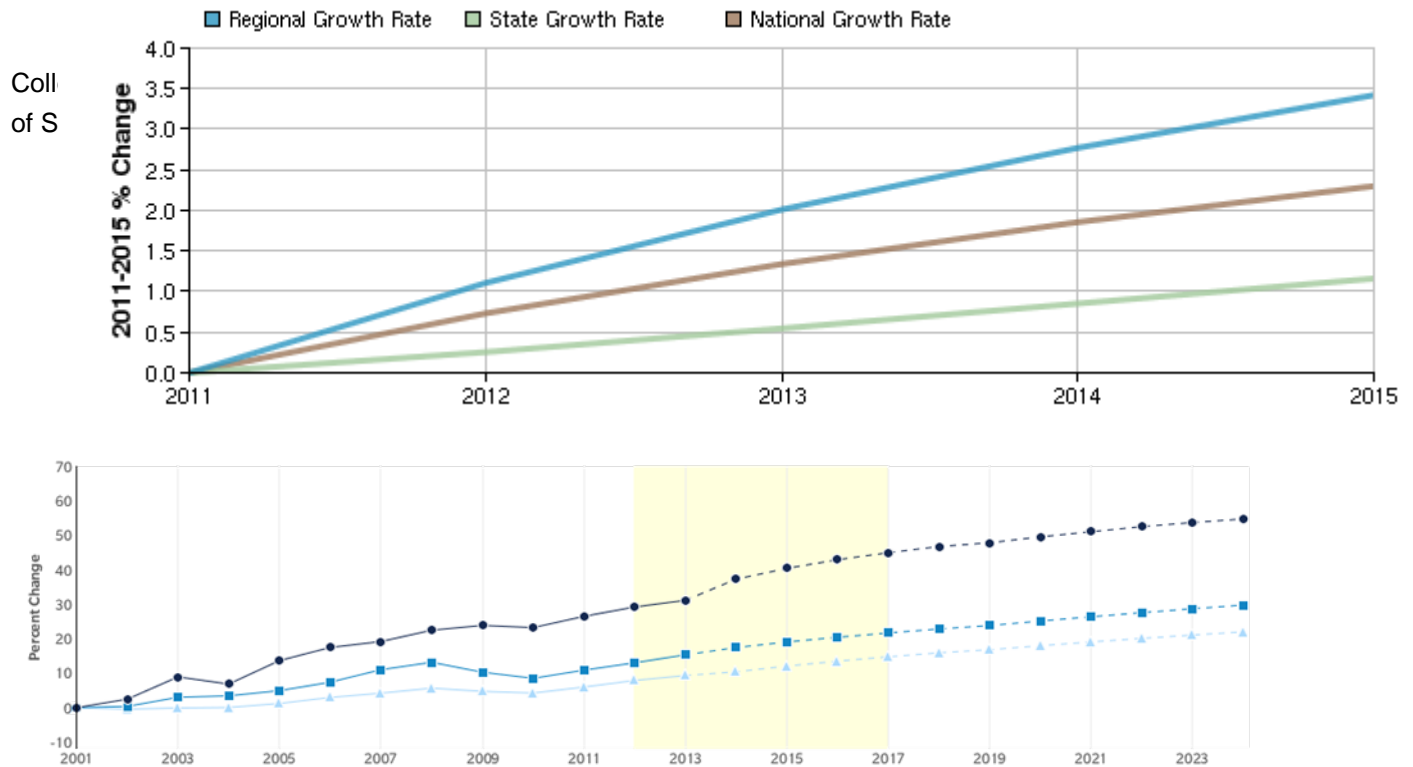
Narrative Items #5-12

5. Enrollment and Completer Projections

The total enrollment (unduplicated head count) in the 14 sections of Agriculture classes offered has been as follows: 2008-09=392, 2010-11=392, 2011-12=490, 2012-13=450 and 2013-14=447. This has led to strong FTES/FTEF productivity numbers. In numerous cases, students have changed their major to agriculture because of increased interest in the area or employment prospects with additional skills.

6. Place of Program in Curriculum/Similar Programs

The Associate in Science in Agribusiness for Transfer will be offered through the Career and Technical Education Division. The existing Associate in Arts Degree with an emphasis on Agricultural Production will be replaced with the Associate of Science for Transfer in Agribusiness.



Attachment Required: Labor Market Information & Analysis (CTE only)

Attachment Required: Labor Market Information (no analysis, A.A.-T/A.S.-T, CTE only)

Attachment Required: LMID Verified Data (noncredit, short term vocational only)

9. Employer Survey (CTE only) Not required. Business Administration A.A. offered in the past.

10. Explanation of Employer Relationship (CTE only) Not required. Agriculture Production A.A. offered in the past.

11. List of Members of Advisory Committee (CTE only) Not required. Agriculture Production A.A. offered in the past.

12. Recommendation of Advisory Committee (CTE only) Not required because Transfer Model Curriculum was developed intersegmentally statewide.

Narrative Items #13-14

13. Display of Proposed Sequence

Narrative not required but CORs have been attached.

14. Transfer Applicability (if applicable)

- 1) The TMC template for the major is attached.
- 2) The Agriculture Business ASSIST articulation for California State University Fresno and Bakersfield attached.

Criteria D. Adequate Resources #15-18

No additional resources will be required beyond the college's current resources. This includes: library and learning resources, facilities and equipment, and financial support. All of the faculty that will teach in this program meet the State minimum qualifications

15. Library and Learning Resources Plan

16. Facilities and Equipment Plan

17. Financial Support Plan

18. Faculty Qualifications and Availability

Criteria E Narrative Items #19-21

There are no licensing or accrediting standards that apply to this program; no additional student selection criteria are required; this program complies with California Code of Regulations, title 5 section 55201 and 58106; and, there are no additional fees beyond those identified in California Education Code section 76300.

19. Based on Model Curriculum (if applicable)

20. Licensing or Accreditation Standards

21. Student Selection and Fees

Associate of Science for Transfer, Agribusiness

Occupation Overview

Porterville College

100 E. College Avenue
Porterville, California 93257
559.791.2459

Parameters

Occupations

Code	Description
13-1021	Buyers and Purchasing Agents, Farm Products
13-1041	Compliance Officers
13-2021	Appraisers and Assessors of Real Estate
13-2072	Loan Officers
45-2011	Agricultural Inspectors

Regions

Code	Description
6027	Inyo County, CA
6029	Kern County, CA
6051	Mono County, CA
6107	Tulare County, CA

Timeframe

2012 - 2017

Datarun

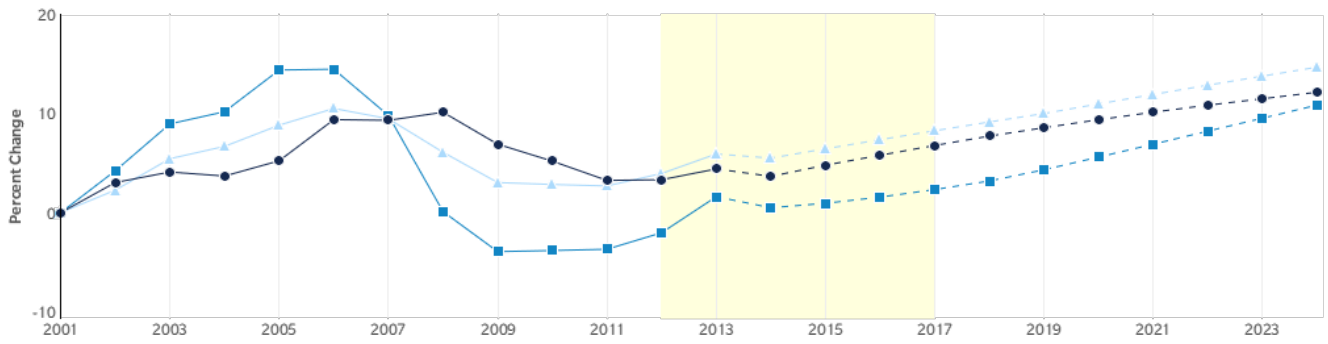
2014.3 – QCEW Employees

5 Occupations in 4 Counties

Occupation Summary for 5 Occupations

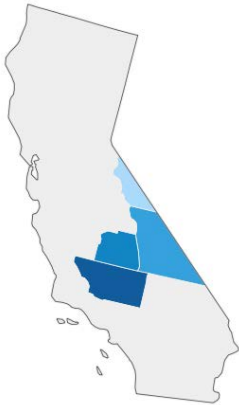
1,443 Jobs (2014) 34% below National average	3.3% % Change (2012-2017) Nation: 4.1%	\$30.17/hr Median Earnings Nation: \$29.31/hr
---	---	--

Regional Trends




	Region	2012 Jobs	2017 Jobs	% Change
●	Region	1,438	1,487	3.3%
●	State	68,629	71,682	4.4%
●	Nation	620,927	646,675	4.1%

Regional Breakdown



County	2017 Jobs
Kern County, CA	912
Tulare County, CA	540
Inyo County, CA	21
Mono County, CA	14

Job Postings Summary

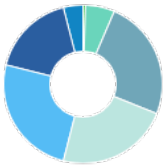
<p>43 Unique Postings (Oct 2014)</p> <p>100 Total Postings</p>	<p>2 : 1 Posting Intensity (Oct 2014)</p> <p>Regional Average: 4 : 1</p> 
---	--

Occupation Gender Breakdown



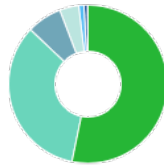
	Gender	2014 Jobs	2014 Percent	
•	Males	623	43.2%	
•	Females	820	56.8%	

Occupation Age Breakdown



	Age	2014 Jobs	2014 Percent
●	14-18	7	0.5%
●	19-24	86	5.9% ■
●	25-34	355	24.6% ■■■■
●	35-44	331	22.9% ■■■■
●	45-54	360	24.9% ■■■■
●	55-64	247	17.1% ■■■■
●	65+	58	4.0% ■

Occupation Race/Ethnicity Breakdown



	Race/Ethnicity	2014 Jobs	2014 Percent
●	White (Not Hispanic or Latino)	768	53.2%
●	Hispanic or Latino (All Races)	488	33.8%
●	Asian (Not Hispanic or Latino)	103	7.1%
●	Black or African American (Not Hispanic or Latino)	56	3.9%
●	Two or More Races (Not Hispanic or Latino)	15	1.1%
●	American Indian or Alaska Native (Not Hispanic or Latino)	10	0.7%
●	Native Hawaiian or Other Pacific Islander (Not Hispanic or Latino)	2	0.1%

Occupational Programs

2 Programs (2013)	1 Completions (2013)	35 Openings (2013)
-----------------------------	--------------------------------	------------------------------

CIP Code	Program	Completions (2013)
52.1501	Real Estate	1
01.0401	Agricultural and Food Products Processing	0

Industries Employing these Occupations

Industry	Occupation Group Jobs in Industry (2014)	% of Occupation Group in Industry (2014)	% of Total Jobs in Industry (2014)
Federal Government, Civilian, Excluding Postal Service	226	15.7%	2.2%
Local Government, Excluding Education and Hospitals	182	12.6%	0.8%
Commercial Banking	127	8.8%	8.2%
Crop Production	97	6.7%	0.4%
State Government, Excluding Education and Hospitals	78	5.4%	1.1%

Appendix A - Data Sources and Calculations

State Data Sources

This report uses state data from the following agencies: California Labor Market Information Department

Occupation Data

EMSI occupation employment data are based on final EMSI industry data and final EMSI staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors). Occupational wage estimates also affected by county-level EMSI earnings by industry.

Institution Data

The institution data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

Completers Data

The completers data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

Staffing Patterns Data

The staffing pattern data in this report are compiled from several sources using a specialized process. For QCEW and Non-QCEW Employees classes of worker, sources include Occupational Employment Statistics, the National Industry-Occupation Employment Matrix, and the American Community Survey. For the Self-Employed and Extended Proprietors classes of worker, the primary source is the American Community Survey, with a small amount of information from Occupational Employment Statistics.

Industry Data

EMSI industry data have various sources depending on the class of worker. (1) For QCEW Employees, EMSI primarily uses the QCEW (Quarterly Census of Employment and Wages), with supplemental estimates from County Business Patterns and Current Employment Statistics. (2) Non-QCEW employees data are based on a number of sources including QCEW, Current Employment Statistics, County Business Patterns, BEA State and Local Personal Income reports, the National Industry-Occupation Employment Matrix (NIOEM), the American Community Survey, and Railroad Retirement Board statistics. (3) Self-Employed and Extended Proprietor classes of worker data are primarily based on the American Community Survey, Nonemployer Statistics, and BEA State and Local Personal Income Reports. Projections for QCEW and Non-QCEW Employees are informed by NIOEM and long-term industry projections published by individual states.