

NARRATIVE TEMPLATE for a (credit) Certificate of Achievement

Item 1. Program Goals and Objectives

The goal of this certificate of achievement program is to provide occupational skill training for students seeking a career in the Career Technical Education (CTE) field of animal science. Upon completion of this program, students will be able to:

- Identify the skills, education, and work experiences needed to pursue his/her chosen career path.
- Exhibit a high level of work ethic and good time management skills.
- Work in group settings to accomplish team goals.
- Apply commonly used computer programs to the workplace.
- Utilize equipment and technology commonly utilized in the livestock industry and related fields.
- Apply ethical animal husbandry practices and industry-accepted quality assurance measures to the responsible production, processing, and marketing of livestock and animal products.
- Demonstrate basic animal management skills in regard to behavior, parturition, identification, nutrition, reproduction and health for common livestock species.
- Evaluate animal conformation and performance data in accordance with industry standards and make selection decisions, based on given scenarios, for various livestock species.

It is anticipated that many students would seek employment in the animal science field directly after completion of this certificate of achievement program. However, the majority of the courses within this program would also apply if students decided to pursue an Associate of Science degree or transfer to a four-year university for further study.

Item 2. Catalog Description

This program emphasizes development of the basic animal husbandry skills required for students seeking entry-level employment in the livestock industry. Emphasis will be placed on animal behavior & safe handling techniques, feeding practices, breeding, environmental management, marketing, health maintenance and common veterinary procedures. Students will also receive basic training relevant to farm construction/repair skills and/or the operation of commonly used farm/ranch equipment. Students who complete this program may gain employment as a livestock herdsman, animal trainer, livestock fitter, brand inspector, or in other occupations within the food animal industry. Courses within this program of study may also be applied toward other certificate and/or degree options within animal science.

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Item 3. Program Requirements

Certificate of Achievement: Animal Husbandry

Requirements	Dept. Name/#	Name	Units	Sequence
Required Core (8 Units)	AG 1	Computer Applications in Agriculture	3	Yr 1, Fall
	AS 1	General Livestock Production	3	Yr 1, Fall
	AS 40	Fairs and Expositions	2	Yr 1, Spring
Select one course (3 units)	AS 2	Beef Production	3	Yr 1, Fall
	AS 3	Sheep Production	3	Yr 1, Spring
	AS 4	Swine Production	3	Yr 1, Spring
Select one course (3 units)	AGNR10	Construction Technology	3	Yr 1, Fall
	PLS11	Machinery Technology	3	Yr 1, Spring
Select one course (3 units)	AS 6	Livestock Selection and Evaluation	3	Yr 1, Fall
	AS 10	Meat Evaluation and Processing	3	Yr 1, Fall

Required Core Total: 8 units
 Total Units: 17 units

Proposed Sequence:
 Year 1, Fall = 9 units
 Year 1, Spring = 8 units

Item 4. Master Planning

As do all instructional programs on the Reedley College campus, the Animal Science Program participates in a regular program review process. The last program review document, submitted in Fall 2015, highlighted the need to ensure that the selection of certificate and degree offerings provide realistic program completion opportunities for all students, including the many students who are unable to complete the general education requirements for the Associate of Science degree options. The current selection of program options for animal science students is very limited. Adding this new program will enable a greater number of students to become program completers and become immediately employable in the field of animal science.

In addition to utilizing the program review process for program improvement, the animal science program meets twice annually with an industry-based advisory committee to discuss industry/workplace needs and the enhancement of instructional programs to facilitate those needs.

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Discussions often focus on specific skill sets desired by employers as well as current industry trends and issues with which students must be familiar upon program completion.

List of Members of Advisory Committee to include names, job titles, and business affiliations.

Name	Job Title	Business Affiliation
Gil Awalt	Owner/Manager	AA Acres Cattle Ranch
Thomas & Becky Burke	Owners/Managers	Burke Goat Dairy
Joe Camarillo	Superintendent	Fresno Fair Livestock
Dave DeRose	Manager	Hyder Hay & Cattle Company
Dr. Neal Spiro	Veterinarian	Tulare County Stockyard
Dr. John & Gail Gray	Veterinarian	Reedley Veterinary Hospital
Bob Herrick	Manager	HMC Veterinary Development
Ralph Loya	Retired Animal Science Instructor	Reedley College
Dr. Art Parham	Agricultural Education Instructor	CSU Fresno
Monte Person	Owner/Manager	Person Cattle Ranch
Don Pfaff	Owner/Manager	Pfaff Swine & Poultry Ranch
Chris Williams	Agriculture Instructor	Fresno Central High School

Library and Learning Resources Plan

All students have free access to the Reedley College library which houses a vast array of learning resources for students. In addition, students are highly encouraged to take advantage of the numerous free student services available on campus (e.g. Tutorial Center, Math Center, Writing Center, and many others), All students are provided with Student Scheduling Guides (revised each semester) that contain degree and certificate program options, a schedule of course offerings, a scheduling template, information about student services, a listing of student leadership development activities, counseling service information, and other helpful tips and information. This document is designed to assist students in completing their certificate/degree requirements as well as develop both the soft skills and technical skills needed to be successful in the workplace. .

Facilities and Equipment Plan

The on-campus resources and facilities available to the animal science program are considerable. Many of these facilities have been recently upgraded and additional renovation work is either in-progress or is planned. The main components of the teaching facilities include:

- AGR 1 computer classroom (location for some lecture sessions, recently renovated)
- AGR 2 classroom (location of most lecture sessions)
- Approximately 12 acres of fenced irrigated pasture for grazing beef cattle & sheep
- Approximately 5 acres of seasonal, non-irrigated, pasture

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- Livestock pavilion with covered arena, 5 horse stalls (recently renovated), and storage rooms
- Farrowing barn & nursery building for swine
- Swine grower barn
- Multi-purpose livestock barn
- Outdoor equine riding arena
- Horse round pen
- Hay storage (pole) barn
- Cattle working facilities (corrals, lanes, chutes)
- Student employee living quarters (accommodates 4 people)
- 4 metal storage units, the largest one devoted to horse tack and equipment
- Brand new large wash rack with mare palpation chute
- Meats lab (located inside the Agriculture building, recently renovated)

The animal science facilities support the annual maintenance of a 15-cow registered Angus cattle herd, a 10-sow registered Yorkshire and Duroc swine herd, a 20-ewe crossbred sheep flock, and a 12-doe Boer goat flock. Additionally, some of the students enrolled in the equestrian skills course stall their horses at the animal science unit (typically about 2-3 students per semester do this). Moreover, additional animals are brought onto campus on a periodic basis to support the instructional needs of certain courses as well as various on-campus events.

These facilities are located on various areas of the campus school farm, which in total covers nearly 300 acres and includes riparian habitat situated along the Kings River and Wahtoke Creek. This acreage not only supports a variety of livestock and crop production, but is also home to a vast array of native wildlife. The farm property, which is largely open to the public, is also utilized by numerous joggers, walkers, bikers, and horse riders throughout the year as well as by walking classes here on campus, and high school cross country teams. Continued efforts are being made to manage the natural resources on campus in a way that not only provides additional low-cost feed resources for livestock, but also provides ecological benefits for the native flora and fauna, enhances the aesthetic value of the property, and also ensures safe access for the public. Trails on the school farm property are utilized for equitation instruction as well as for equine program-sponsored fund raising events.

Financial Support Plan

Funding support for the program has been excellent. Not only does the program receive annually allocated fund from district instructional budgets, but additional support from a wide array of other sources (such as Perkins funding, One-Time Funding, and the campus STEM grant project) has greatly benefitted the program. These funding streams have enabled the program to obtain the equipment & technology necessary to improve teaching and learning as well as to make considerable improvements to the teaching facilities. Moreover, funds generated from the sale of livestock go back into a campus co-curricular fund to pay for animal feed and supplies.

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Faculty Qualifications and Availability

The animal science program is currently served by one full time instructor and three part time instructors as follows:

Full-Time Faculty:

David M. Lopes, Animal Science Instructor, B.S. & M.S. Degrees in Animal Science from CSU Fresno

Mr. Lopes is contracted for 177 duty days plus 10 additional days annually for supervision of livestock herd management. In addition, he volunteers his time on weekends, holidays, and during the summer oftentimes working 70 hours per week. When all of his work hours are combined, he works the equivalent of nearly two full-time positions during the course of the calendar year. Thus, he is very available on campus.

Reedley College has recently posted an announcement for a second animal science instructor to serve the needs of the program.

Part-Time (Adjunct) Faculty:

Ryan Person, Animal Science Instructor, M.S. Degree in Meat Science from Texas A & M University

Christie Marin, Equine Science Instructor

Tracy Terzian, Equine Science Instructor

The adjunct faculty that serve the program possess a high degree of subject matter expertise, backed by years of industry experience. Their teaching schedules vary from semester to semester, but all three adjunct instructors devote numerous hours above and beyond the call of duty to serve the needs of students in the program. They are integrally involved in coaching teams (Livestock Show Team, IHSA Horse Show Team, and Mule Packing Team), assisting with various leadership development events, advising clubs, managing the campus livestock herds, fund raising, and assisting with the recruitment activities of the program. Their contributions are greatly valued.

Based on model curriculum

All courses within the animal science program have been based on statewide model curricula. The full-time instructor for this program has served as the animal science co-chair for the statewide Agriculture & Natural Resources curriculum committee for at least the past 10 years. Additionally, he has been integrally involved in statewide grant projects focusing on the development and revision of model curriculum.

Licensing or Accreditation Standards

There are currently no known licensing or accreditation standards associated with this program of study.

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Student Selection and Fees

The Reedley College Animal Science program is an open enrollment program. There are no additional fees required beyond the standard campus fees.

Item 5. Enrollment and Completer Projections

(A) Enrollment Data

		2012-2013		2013-2014	
CB01: Course Department Number	CB02: Course Title	Annual # Sections	Annual Enrollment Total	Annual # Sections	Annual Enrollment Total
AG 1	Computer Applications in Agriculture	3	69	4	69
AGNR 10	Construction Technology	1	20		
AS 1	General Livestock Production	2	52	2	41
AS 2	Beef Production			1	36
AS 3	Sheep Production	1	25		
AS 4	Swine Production			1	33
AS 6	Livestock Selection and Evaluation	1	24	1	27
AS 10	Meat Evaluation and Processing	1	19	1	16
AS 40	Fairs & Expositions	4	86	4	73
PLS 11	Machinery Technology	2	59	1	24

*Use as many rows as required to provide requested data.

(B) Survey

In the case of a survey, the survey questionnaire, a description of the population surveyed, and survey results must be included.

N/A – No survey has been conducted.

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Important Note: Labor market information (LMI) reports often do not well reflect employment opportunities within the field of animal science. Many occupations are absorbed into broader career categories and are therefore difficult for which to find specific data. For example, jobs in animal nutrition and animal health cannot be extrapolated from the data. Nonetheless, state EDD labor market data have been presented below for some selected occupations pertinent to animal science. Students completing the animal husbandry certificate of achievement program could find entry-level employment in these categories and in related fields.

State of California Employment Development Department
Occupational Projections of Employment 2012-2022
Statewide Data for Careers in Animal Science
Source: <http://www.labormarketinfo.edd.ca.gov/>

<i>Code</i>	<i>Occupation</i>	<i>Projected Employment</i>	<i>Percent Change</i>
194011	Agricultural and Food Science Technicians	4,200	16.7
392000	Animal Care and Service Workers	29,800	21.1
339011	Animal Control Workers	1,600	6.7
392011	Animal Trainers	5,600	21.7
513021	Butchers and Meat Cutters	24,600	13.9
119013	Farmers, Ranchers, and Other Agricultural Managers	106,600	-17.4
450000	Farming, Fishing, and Forestry Occupations	360,400	11.3
452093	Farmworkers, Farm and Ranch Animals	13,700	3.0
451011	First-Line Supervisors/Managers of Farming, Fishing, and For	11,500	7.5
191012	Food Scientists and Technologists	3,600	20.0
452041	Graders and Sorters, Agricultural Products	20,300	12.8
513022	Meat, Poultry, and Fish Cutters and Trimmers	9,200	12.2
513023	Slaughterers and Meat Packers	5,600	-1.8
451000	Supervisors, Farming, Fishing, and Forestry Workers	11,500	7.5
319096	Veterinary Assistants and Laboratory Animal Caretakers	9,600	4.4
292056	Veterinary Technologists and Technicians	10,400	20.9

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Service Area Labor Market Information

Agricultural and Food Science Technicians Estimated Employment and Projected Growth					
Geographic Area (Estimated Year-Projected Year)	Estimated Employment	Projected Employment	Numeric Change	Percent Change	Additional Openings Due to Net Replacements
California (2012-2022)	3,600	4,200	600	16.7	1,300
Fresno County (2010-2020)	200	220	20	10.0	70
Kings County (2012-2022)	190	230	40	21.1	70
Tulare County (2010-2020)	80	90	10	12.5	30

Source: Employment Development Department
 Labor Market Information Division
<https://www.labormarketinfo.edd.ca.gov/>

Animal Trainers Estimated Employment and Projected Growth					
Geographic Area (Estimated Year-Projected Year)	Estimated Employment	Projected Employment	Numeric Change	Percent Change	Additional Openings Due to Net Replacements
California (2012-2022)	4,600	5,600	1,000	21.7	2,000
Fresno County (2010-2020)	150	170	20	13.3	20
Kings County (2012-2022)	30	30		.0	10
Madera County (2012-2022)	60	130	70	116.7	20
Tulare County (2010-2020)	270	300	30	11.1	30

Source: Employment Development Department
 Labor Market Information Division
<https://www.labormarketinfo.edd.ca.gov/>

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Farmers, Ranchers, and Other Agricultural Managers Estimated Employment and Projected Growth					
Geographic Area (Estimated Year-Projected Year)	Estimated Employment	Projected Employment	Numeric Change	Percent Change	Additional Openings Due to Net Replacements
California (2012-2022)	129,100	106,600	-22,500	-17.4	20,800
Fresno County (2010-2020)	8,510	8,060	-450	-5.3	1,660
Kings County (2012-2022)	1,750	1,270	-480	-27.4	280
Madera County (2012-2022)	3,240	2,410	-830	-25.6	520
Tulare County (2010-2020)	8,470	7,740	-730	-8.6	1,650

Source: Employment Development Department
Labor Market Information Division
<https://www.labormarketinfo.edd.ca.gov/>

Farmworkers, Farm, Ranch, and Aquacultural Animals Estimated Employment and Projected Growth					
Geographic Area (Estimated Year-Projected Year)	Estimated Employment	Projected Employment	Numeric Change	Percent Change	Additional Openings Due to Net Replacements
California (2012-2022)	13,300	13,700	400	3.0	4,100
Fresno County (2010-2020)	1,190	1,140	-50	-4.2	360
Tulare County (2010-2020)	880	860	-20	-2.3	270

Source: Employment Development Department
Labor Market Information Division
<https://www.labormarketinfo.edd.ca.gov/>

Meat, Poultry, and Fish Cutters and Trimmers Estimated Employment and Projected Growth					
Geographic Area (Estimated Year-Projected Year)	Estimated Employment	Projected Employment	Numeric Change	Percent Change	Additional Openings Due to Net Replacements
California (2012-2022)	8,200	9,200	1,000	12.2	2,000
Fresno County (2010-2020)	1,210	1,500	290	24.0	350

Source: Employment Development Department
Labor Market Information Division
<https://www.labormarketinfo.edd.ca.gov/>

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Slaughterers and Meat Packers Estimated Employment and Projected Growth					
Geographic Area (Estimated Year-Projected Year)	Estimated Employment	Projected Employment	Numeric Change	Percent Change	Additional Openings Due to Net Replacements
California (2012-2022)	5,700	5,600	-100	-1.8	1,400
Fresno County (2010-2020)	1,840	2,140	300	16.3	540
San Joaquin County (2010-2020)	290	320	30	10.3	80

Source: Employment Development Department
 Labor Market Information Division
<https://www.labormarketinfo.edd.ca.gov/>

Veterinary Assistants/Laboratory Animal Caretakers Estimated Employment and Projected Growth					
Geographic Area (Estimated Year-Projected Year)	Estimated Employment	Projected Employment	Numeric Change	Percent Change	Additional Openings Due to Net Replacements
California (2012-2022)	9,200	9,600	400	4.4	1,800
Fresno County (2010-2020)	160	180	20	12.5	20
Tulare County (2010-2020)	50	60	10	20.0	10

Source: Employment Development Department
 Labor Market Information Division
<https://www.labormarketinfo.edd.ca.gov/>

Veterinary Technologists and Technicians					
Geographic Area (Estimated Year-Projected Year)	Estimated Employment	Projected Employment	Numeric Change	Percent Change	Additional Openings Due to Net Replacements
California (2012-2022)	8,600	10,400	1,800	20.9	900
Madera County (2012-2022)	30	60	30	100.0	
Tulare County (2010-2020)	50	70	20	40.0	10

Source: Employment Development Department
 Labor Market Information Division
<https://www.labormarketinfo.edd.ca.gov/>

Butchers and Meat Cutters

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Estimated Employment and Projected Growth					
Geographic Area (Estimated Year-Projected Year)	Estimated Employment	Projected Employment	Numeric Change	Percent Change	Additional Openings Due to Net Replacements
California (2012-2022)	21,600	24,600	3,000	13.9	5,300
Fresno County (2010-2020)	610	720	110	18.0	180
Madera County (2012-2022)	60	80	20	33.3	20
Tulare County (2010-2020)	170	190	20	11.8	50

Source: Employment Development Department
Labor Market Information Division
<https://www.labormarketinfo.edd.ca.gov/>

Graders and Sorters, Agricultural Products Estimated Employment and Projected Growth					
Geographic Area (Estimated Year-Projected Year)	Estimated Employment	Projected Employment	Numeric Change	Percent Change	Additional Openings Due to Net Replacements
California (2012-2022)	18,000	20,300	2,300	12.8	3,200
Fresno County (2010-2020)	1,540	1,630	90	5.8	370
Kings County (2012-2022)	1,220	1,440	220	18.0	220
Tulare County (2010-2020)	1,690	1,910	220	13.0	410

Source: Employment Development Department
Labor Market Information Division
<https://www.labormarketinfo.edd.ca.gov/>

Food Scientists and Technologists Estimated Employment and Projected Growth					
Geographic Area (Estimated Year-Projected Year)	Estimated Employment	Projected Employment	Numeric Change	Percent Change	Additional Openings Due to Net Replacements
California (2012-2022)	3,000	3,600	600	20.0	1,000
Fresno County (2010-2020)	60	60		.0	20
Tulare County (2010-2020)	90	100	10	11.1	40

Source: Employment Development Department
Labor Market Information Division
<https://www.labormarketinfo.edd.ca.gov/>

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Farming, Fishing, and Forestry Supervisors Estimated Employment and Projected Growth					
Geographic Area (Estimated Year-Projected Year)	Estimated Employment	Projected Employment	Numeric Change	Percent Change	Additional Openings Due to Net Replacements
California (2012-2022)	10,700	11,500	800	7.5	2,300
Fresno County (2010-2020)	1,110	1,160	50	4.5	320
Kings County (2012-2022)	180	180		.0	40
Madera County (2012-2022)	250	290	40	16.0	50
Tulare County (2010-2020)	750	800	50	6.7	220

Source: Employment Development Department
 Labor Market Information Division
<https://www.labormarketinfo.edd.ca.gov/>

Item 6. Place of Program in Curriculum/Similar Programs

After reviewing the program inventory in the CCC Curriculum Inventory, it was discovered that no certificates of achievement are currently on inventory for the TOP Code 010200 – Animal Science.

- 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.

No. This is a new certificate of achievement program, unlike anything that exists in the current inventory.

- 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).

No. This is a new certificate of achievement program.

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

No other related programs are offered at Reedley College or within the State Center Community College District.

Item 7. Similar Programs at Other Colleges in Service Area

N/A – There are no other colleges within the defined Reedley College service area that offer a similar instructional program.

Reedley College Agriculture & Natural Resources Department

AGRICULTURE ADVISORY COMMITTEE MEETING
MINUTES

December 10, 2012

I. Dinner

Dinner started at 5:00 pm as guests arrived.

II. Call To Order

The meeting was called to order at 5:34 pm by AGNR Department Chair, David Lopes. A sign-in sheet was passed around to confirm those advisory committee members in attendance. Present were: Gil Awalt, Dave Botkin, Ty Parkinson, Jim Oliver, Fred Berry, Mark Thompson, Carl Buxman, Chris Williams, Michael White, Dr. Claudia Habib, David Lopes, Nancy Gutierrez, Dustin Sperling, and Tim Smith.

III. Industry Updates

Industry updates were provided by Dave Botkin, Fred Berry, Chris Williams, Mark Thompson, Gil Awalt, Jim Oliver, Ty Parkinson, and Carl Buxman. Some common themes discussed included food safety, labor management issues, record-keeping, regulations compliance, and the need for graduates that possess strong work ethic combined with good communication (written, verbal, & interpersonal) and computer skills.

IV. AGNR Department Update

A handout summarizing current AGNR department staffing and highlights of department activities was provided and briefly reviewed.

V. Individual Program Updates

a. Ag Business

Dustin Sperling reported that Bari Olive crushed and bottled 400 bottles of olive oil from the school olive grove. His Ag Sales class is in the process of applying the student-designed labels to the bottles. The bottles will be available for sale soon (tasting samples were provided on the meeting tables). Ag Business students will be involved in an intercollegiate marketing competition in March and an international marketing competition in London, England this coming summer.

Dustin also reported on the status of the Reedley Middle College High School which has 20 freshmen students in its inaugural class. This program will hopefully provide a pipeline of students into the Reedley College Ag Business program that will be transfer ready after a relatively short period of enrollment.

b. Animal Science

David Lopes reported that the animal science program is fortunate to have great students and great adjunct faculty. Students have been busy participating in numerous career development events, both on campus and off (e.g. California State Fair Swine Show, Fresno Fair Collegiate Livestock Show, Madera Bull Sale, Dinuba

Bull Sale, FFA Novice Showmanship Field Day, Final Drive Steer Sale, and the Western All Breeds Swine Show & Sale) and have plans to participate in more events in the spring.

Program needs include a second full-time animal science instructor, a full-time instructional technician devoted to animal science, and facility improvements. Some facility improvements have been made (e.g. new pipe fence for Pole Barn pasture), but much more is needed – particularly in regard to animal housing and handling facilities.

The need to offer certificate of achievement programs in animal science was also discussed. At the current time, no approved certificate of achievement program exists for animal science on our campus. The possibilities of adding certificates of achievement for animal husbandry, equine, and meat science/food safety were discussed.

c. Plant Science

Tim Smith reported that enrollment is up. Over 12 students have completed the PCA program and about 6 more are currently in the process of completing the program.

The northernmost 5 acres of the lower vineyard will be grafted over to Syrah wine grapes in the spring. This joint venture with the Ag Business program will lead to the bottling of a Reedley College wine. Other new projects on the horizon include propagation of new olive varieties and pecan trees.

The annual FFA tree and vine pruning contest will be held the last Saturday of January. Please contact Tim if you would like to serve as a judge (or know someone else who could).

d. Grant Funded Programs

Nancy Gutierrez reported that the focus of the Ag Projects Office will be changing somewhat, as the grant funding process from the State Chancellor's Office is being overhauled. Nancy is currently looking at applying for various grants from various sources, including a new "Sector Navigator" grant from the State Chancellor's Office, a "STREAM" grant from the National Science Foundation, and a grant to develop on-line training for the irrigation industry.

VI. Other Topics/Open Discussion

Considerable discussion took place in regard to the need to utilize on-line mechanisms for marketing products (e.g. processed crop products and livestock) produced by the school farm.

Reedley College President Michael White expressed his commitment to the AGNR department and its programs. He believes strongly in advocating for agriculture and that Reedley College should be known as the "go to" AGNR program in the state.

VII. Adjournment

The meeting was adjourned at 7:20 pm.

Respectfully submitted by David M. Lopes.

Reedley College Agriculture & Natural Resources Department

AGRICULTURE ADVISORY COMMITTEE
MINUTES

November 18, 2013
Reedley College Staff Dining Room

I. Dinner

Dinner was provided at 5:35 pm.

II. Call To Order

The meeting was called to order by David Lopes at 6:00 pm. The following individuals were in attendance: Gil Awalt, Dave Botkin, Dr. Sandra Caldwell, David Clark, Jan Dekker, Bob Herrick, Kent Kinney, David Lopes, Ralph Loya, Christina Marin, Roy Martin, Jim Oliver, Ty Parkinson, Monte Person, Tim Smith, Dustin Sperling, Mark Thompson, Kevin Woodard, Nancy Gutierrez, Karri Hammerstrom, Joe Camarillo, Dean Striebich, and Fred Berry.

III. Industry Updates

Several industry representatives discussed some of the key issues/hot topics impacting workforce needs. Some of the topics that arose during the discussion included:

- Livestock Show Ethics (the importance of teaching students proper ethics, who in turn, educate the public about the livestock industry)
- Development of Soft Skills (many graduates entering the workforce are lacking in this area)
- Increase in opportunities world-wide in the animal protein industry (biotechnology, vaccine development, etc.)
- Concerns over shortage of farm labor
- Concerns over implications of the affordable care act
- Concerns over the water shortage
- The need for more food safety training
- Writing ability (many graduates entering the workforce are lacking in this area)
- Increase in job opportunities in ag finance

Reedley College President Dr. Caldwell addressed the group, thanking them for serving on the committee and sharing their ideas. Dave Clark expressed appreciation for Dr. Caldwell's support of the AGNR department, particularly in regard to the district approval of the new student housing unit.

IV. AGNR Department Update

a. Staff Update

Kent Kinney provided an update of department staffing. Newly hired natural resources instructor, Louie Long, was added to our department in August. Kent started his 3-year term as AGNR department chair, effective July 1, 2014. Dave Lopes will continue as the farm manager.

b. New Transfer (AST) Degrees

Dustin Sperling explained the history and purpose behind the development of the upcoming AST (Associate of Science Transfer) degrees. Three new AST degrees (for Ag Business, Plant Science, and Animal Science) are currently being vetted through the system statewide. Upon state approval, community colleges across the state will be able to develop local AST's that will virtually guarantee students admission to CSU campuses with the corresponding BS degrees. It is anticipated that campuses will be able to start applying for these AST's in Fall 2014.

c. Farm Plan Update & Visioning Process

David Lopes & David Clark reviewed the process being utilized by AGNR faculty for the purpose of making improvements on the school farm. Individual faculty will be posting their proposals for equipment acquisition, infrastructure improvements, and miscellaneous other projects that would benefit instruction to a shared computer drive. Sometime thereafter, faculty will meet to discuss and rank ideas.

V. Individual Program Updates

a. Ag Business

Students & faculty were featured this past summer in CDFA's *Growing California* video series, a partnership with California Grown. The video is a must see and can be found at <http://www.cdfa.ca.gov/index.html#video2013> (scroll the search bar and look for "Reedley's Gold"). The story features the campus olive oil production-bottling-marketing project, a collaborative effort of the ag business and plant science programs. Dustin and some of his ag business students are once again planning to participate in the BRITCA *Farm to Fork* project during the summer of 2014. This fall, his students are raising and marketing Poinsettias for the holiday season.

b. Animal Science

Dave Lopes reviewed a handout summarizing the recently approved livestock herdsman residence. The project is estimated to cost a grand total of \$482,207.21. The residence will house 4 students who will work on the school farm in exchange for residency. Adjunct equine instructor Christie Marin highlighted the activities and future plans of the IHSA horse show team. Reedley has not had such a team in over 20 years. The students are excited. Plans for expanding the equine curriculum were also discussed. A new equine certificate program will be added to include courses in equine science, equitation, equine reproduction, western riding & horsemanship, basic equine handling, and introduction to horse training.

c. Plant Science

Tim Smith reported that the PCA program is going strong and that students can look forward to solid career opportunities in the field. The Olive Grove is in its second year of olive oil production. The northern 5 acres of the old raisin vineyard were grafted over to Syrah wine grapes in the spring. The new growth looks great. Approximately 30 acres of grain hay have been planted. A new onion seed block project is being planned for the upcoming spring/summer. Plant science students are utilizing the horticulture unit greenhouses to propagate a variety of new trees.

d. Grant Funded Programs

Nancy Gutierrez is in her first year of managing the new Agriculture, Water & Technology State Sector Navigator grant from the California Community College Chancellor's Office. While much about her grant management role has changed, she will still be able to coordinate a statewide post-secondary division conference (entitled

the Ag, Water & Technology Summit) in Modesto December 5-7 as well as other events that will continue to benefit students and faculty on a statewide level.

Karri Hammerstrom continues her work with the Trade Adjustment Assistance Community College and Career Training (TAACCCT) grant. Reedley College is part of a consortium of colleges, led by West Hills College, involved in an effort to provide comprehensive training to prepare students for employment in high-wage, high-demand occupations through education/classroom training and field experiences which will result in industry recognized certifications.

Both Nancy and Karri have also been busy investigating additional grant opportunities that would benefit our AGNR programs.

VI. Other Topics/Open Discussion

It was noted that the date for the annual Pinot & Pints Fund Raiser (April 26, 2014) conflicts with the 100th Anniversary of the Clovis Rodeo, an event in which some of our key supporters are heavily involved. AGNR department faculty agreed to pursue another date option for Pinot & Pints.

VII. Adjournment

The meeting was adjourned at approximately 8:00 pm.

Respectfully submitted by David Lopes.

Reedley College Agriculture & Natural Resources Department

AGRICULTURE ADVISORY COMMITTEE
MEETING MINUTES

December 1, 2014
Reedley College, Room FEM 7

I. Dinner

Dinner was provided by the Reedley College Food Services staff.

II. Call To Order

The business meeting was called to order by David Lopes at approximately 6:30 pm. The following industry/community representatives were in attendance: Dave Botkin, Becky Botkin, Gil Awalt, John Gray, Gail Gray, Bob Herrick, Ralph Loya, Roy Martin, Jim Oliver, Ty Parkinson, Monte Person, Joe Camarillo, Mark Thompson, Kevin Woodard, and Fred Berry. Reedley College representatives included Jan Dekker, David Clark, Tim Smith, Dustin Sperling, Kent Kinney, David Lopes, Christina Marin, Dean Striebich, and Martin Castro.

III. Industry Updates

Various industry representatives reported on current events within their respective fields.

IV. AGNR Department Update

Dustin Sperling reported that new Associate of Science Transfer (AST) degrees for Agriculture Business, Animal Science, and Plant Science have been submitted to and approved by the campus curriculum committee. Before students can apply for these degrees, they must be approved at the state level. Approval is expected prior to the end of the Spring 2015 semester.

Additionally, the animal science program officially submitted curriculum changes to the Reedley College Curriculum Committee this semester. Changes included adding two certificate of achievement programs, one in animal husbandry and one in equine. The animal husbandry certificate is composed of courses traditionally offered on campus, and offers students various course options for completion. The equine certificate will include a mix of traditionally offered courses as well as some new ones. Those courses include equine science, equitation, equine reproduction, western riding & horsemanship, basic equine handling, and introduction to horse training. The campus committee approved the changes and now the certificates are pending state approval.

V. Individual Program Updates

Dustin Sperling, Tim Smith, and David Lopes provided reports on the Ag Business, Plant Science, and Animal Science programs, respectively.

VI. Other Topics/Open Discussion

The topic of the Final Drive Steer Sale was brought up for discussion. This annual event is held on the last Saturday of October each year and brings 200-300 youth, parents, and

advisors to our campus. Historically, one of the participating sale consignors has donated a benefit steer to the Reedley College Animal Science program (i.e. the sale proceeds from that steer go to the college). That did not happen this year. In addition, there were some other “behind the scenes” issues that left some students, staff, and community members disgruntled. The advisory committee strongly urged the animal science program to either charge a fee for this event (minimum of \$2,500.00) or to pursue an alternative steer sale event whereby participating sale consignors would pay a consignment fee up front.

VII. Adjournment

The meeting was adjourned at approximately 8:00 pm.

Respectfully submitted by David M. Lopes