

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

- Exhibit a high level of work ethic and good time management skills.
- Work in group settings to accomplish team goals.
- 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.

It is anticipated that many students would seek employment in the equine field directly after completion of this certificate of achievement program. However, some 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 skills required for students seeking entry-level employment in the equine industry. Emphasis will be placed on animal behavior & handling, safety, feeding, breeding, environmental management, marketing, health maintenance and common veterinary procedures. Students who complete this program may gain employment as an assistant trainer, show groom, breeding assistant, equine supervisor, or barn manager. Courses may also be applied toward other certificate of achievement and/or associate of science degree programs in animal science.

Item 3. Program Requirements

Equine Certificate of Achievement

Requirements	Dept. Name/#	Name	Units	Sequence
Required Courses (12 units)	AS 21	Equine Science	3	Yr 1, Fall
	AS 22	Equine Reproduction	3	Yr 1, Spring
	AS 24	Equitation	2	Yr 1, Fall
	AS 25	Basic Equine Handling	1	Yr 1, Fall
	AS 26	Western Riding & Horsemanship	2	Yr 1, Spring
	AS 27	Introduction to Horse Training	1	Yr 1, Spring

Reedley College
 Equine Certificate of Achievement

Required Core Total: 12units
 TOTAL UNITS: 12 units

Proposed Sequence:
 Year 1, Fall = 7 units
 Year 1, Spring = 5 units
 TOTAL UNITS: 12 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. 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. The equine science field is one occupational area that has been proposed as a possible area of expansion due to the tremendous interest in equine within the college’s service area.

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
- Livestock pavilion with covered arena, 5 horse stalls (recently renovated), and storage rooms
- Multi-purpose livestock barn
- Outdoor equine riding arena
- Horse round pen
- Hay storage (pole) barn
- 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

The animal science facilities are ample to support the instructional needs of the Equine Science program. Additionally, some of the students enrolled in equine courses stall their horses at the animal science unit. 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.

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.

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
AS-21	Equine Science	1	18	1	24
AS-24	Equitation	1	15	1	13

(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.

Important Note: Labor market information (LMI) reports often do not well reflect employment opportunities within the field of equine science. Many occupations are absorbed into broader career categories and are therefore difficult for which to find specific data. For example, jobs in equine nutrition and equine health cannot be extrapolated from the data. Nonetheless, state EDD labor market data have been presented below for some selected occupations pertinent to equine science. Students completing the equine 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>
392011	Animal Trainers	5,600	21.7
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 Forestry	11,500	7.5
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

Service Area Labor Market Information

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/>

