YUBA COMMUNITY COLLEGE DISTRICT (YCCD)

CAREER TECHNICAL EDUCATION ARTICULATION/CREDIT BY EXAMINATION AGREEMENT

Woodland College, in collaboration with Dixon High School, mutually subscribe to the following articulation/credit by examination agreement with the stipulation that: Credit will be awarded upon completion of high school course based on criteria established by Woodland college faculty member as measuring competence in course objectives.

HIGH SCHOOL/ ROP ARTICULATION SECTION

High School/ROP Site Dixon High School

High School/ROP Instructor(s) Miranda Will Phone Number (559)367-2874

High School/ROP Course Animal Science Email Address miranda.will@dixonusd.org

Request for: (check one) ☐ Renewal Agreement X New Agreement ☐ Revised Agreement (based on updated curriculum)

Attach materials from high school/ROP course: (Note: Materials required to begin process.)
☐ Course outline ☐ List of Competencies and Objectives ☐ Sample course exams

Information about high school/ROP course:

- Length of course: Days per week 5 Hours per course 180 Weeks 36
- Name of Textbook/Software: Scientific Farm Animal Production, by Thomas Field (Pearson Publishing)
- Other Materials: _____

Requested by: Miranda Will

Miranda Will	8/9/2021	Marcus Tanaka	8/9/2021
High School Instructor (Print & Sign)	Date	High School Dept Chair/Coordinator (Print & Sign)	Date
Stephanie Marquez	8/9/2021		
High School Principal (Print & Sign)	Date	ROP Director (If Applicable) (Print & Sign)	Date

WOODLAND COMMUNITY COLLEGE ARTICULATION SECTION

YCCD Instructor(s) Brandi Asmus Phone Number (530)661-5758

YCCD Course AG 45L – Principles of Animal Science basmus@yccd.edu
(Number and Title)

Unit(s) 4.0

X Approved ☐ Pending Modification ☐ Not approved for articulation (Please comment below)

Credit by Examination Criteria: **Course grade of B+ or better, and Final Exam grade of B+ or better; Research Paper grade of B or better.**
(If Approved)

Additional Comments: _____

[ ] I have contacted the appropriate full-time faculty in the discipline and the Instructional Deans at the Clear Lake Campus, Yuba College, and Woodland Community College to inform them of the Career Technical Education Articulation/Credit by Examination Agreement.

Approved by:

Brandi Asmus (Jan 14, 2022 11:41 PST)	Jan 14, 2022		Jan 14, 2022
College Instructor	Date	Campus Dean/Department Dean	Date
Kasey Gardner (Jan 25, 2022 12:33 PST)	Jan 25, 2022		
V.P. Academic / Articulation Officer	Date		

Animal Science Objectives and Competencies

Objectives:

- Understand the major influences animals have on mankind now and in the past. Evaluate the necessary elements for proper animal housing and animal-handling equipment.
- Apply principles of animal nutrition to ensure the proper growth, development, reproduction, and economic production of animals.
- Apply principles of comparative anatomy and physiology to uses within various animal systems.
- Demonstrate understanding of animal reproduction, including the function of reproductive organs.
- Discuss animal inheritance and selection principles, including the structure and role of deoxyribonucleic acid (DNA)
- Prescribe and implement a prevention treatment program for animal diseases, parasites, and other disorders.
- Demonstration and application of Scientific method (formulating and carrying out experiment)
- Identify and analyze hazards and critical control points (HACCP) as they relate to food animal production
- Explain challenges associated with animal waste management.
- Assess animal welfare concerns and management practices that support animal welfare.
- Demonstrate understanding of the production of large animals (e.g., cattle, horses, swine, sheep, goats) and small animals (e.g., poultry, cavy, rabbits).
- Understand how animal products and by-products are processed and marketed.
- Completion of a series of laboratory exercises that complement topics discussed in class.
- Identify the economically significant breeds of beef, sheep and swine.
- Identify life cycles and biotechnological principles of animal production.
- Demonstrate and understand animal behavior as it relates to health and performance.
- Discuss issues affecting consumer awareness to animal welfare, food safety and the environment.
- Completion of a series of laboratory exercises that complement topics discussed in lecture.

Animal Science- Daily Agenda

Unit Plan

1. FFA/SAE
2. Intro to Animal Science
3. Introduction to Anatomy/Physiology
4. Skeletomuscular Systems
5. Circulatory/ Respiratory Systems
6. Digestive System and Nutrition
7. Reproductive System

8. Animal Genetics
9. Animal Health
10. Animal Welfare and Behavior

11. Beef Industry
12. Dairy industry
13. Swine Industry
14. Sheep/Goat Industry
15. Equine Industry
16. Small/Exotic/ Companion Animals

Daily Plan

1. **Welcome, introductions, the first day**
2. **Syllabus and expectations, scenarios**
3. **Procedures and expectations**
4. **Personality tests and posters**
5. **Team Building**
6. **Course Overview**
7. **Google Classroom**
8. FFA Pre-Test
9. FFA 2.0
10. SAE- Plans
11. SAE videos and brainstorm
12. Lab equipment ID
13. Science Basics Lab- include animal safety practices
14. Science Basics Lab

Introduction to Animal Science

15. Animal/Lab Safety/ Animal Handling
16. **Importance of Animals (brainstorm posters) and quick write**
17. **Animal Domestication Timeline**
18. Terminology

Animal Science- Daily Agenda

19. Livestock Industry Presentation
20. Presentation Research
21. Presentations
22. Presentations
23. Presentations
24. Terminology Quiz, Career Exploration
25. **ANS Career Symposium**
    -Guest Speakers??

Animal Handling

26. Intro to A and P, body systems
27. Gummy Bear dissection
28. Directional terms stations
29. External Anatomy- puzzles, posters, games
30. External Anatomy- Chalk art, twister
31. Quizlet Study
32. Anatomy Labeling stations- rammy, stuffed animals
33. Packet, Quiz

34. Begin Cells
35. Animal Cell Microscope Lab
36. Cell Functions Mini Labs
37. Animal Tissues Webquest

Skeleto-Muscular System

38. Skeletal Systems Notes- provide notetaker for students
39. Complete skeletal system transparency, human labeling with bones
40. Fly swatter game, bone classification- color according to bone type
41. Long Bone Anatomy- playdoh project
42. Muscular System Notes
43. Muscular System- Transparency
44. Connective Tissue- Shadow Puppet EDU
45. Chicken Wing dissection

46. Animal Harvesting iCEV
47. Wholesale and Retail Cuts
48. Meat Judging- Virtual
49. Meat Judging Actual and reasons
50. Ground Beef Comparison Lab
51. Quiz and BBQ

lab grown meat video

Animal Science- Daily Agenda

Circulatory/Respiratory System

52. Circulatory Webquest
53. Add Circulatory System to Project
54. Respiratory reading activity
55. Pluck Dissections- use blood for a blood smear lab the next day?
56. Finish pluck lab questions/ Add respiratory system to project
57. Blood Activity
58. Blood Draw Videos- each group makes their own with stuffed animal
59. TPR Lab?
60. Study Guide
61. Review and Quiz

62. Begin Digestive System
63. Notes, Playdoh Models ,kahoot **Shirt activity??**
64. Essential nutrients poster and presentations
65. Feed ID Activity
66. Feedtag Analysis
67. Pearson Square Calculations
68. Guest Speaker- Jill Bors
69. Dissection- ruminant digestive tract
70. Quiz, Packet

71. Repro Notes
72. Repro notes, Fly swatter game
73. Estrus and Estrous
74. AI video and brochure
75. AI
76. Castration Tools and methods, videos
77. Testilce Dissection
78. Review
79. Finals
80. Finals
81. FInals

Animal Science- Daily Agenda

82. Goal banner
83. Genetics Notes
84. Horse Genetics coat color
85. Punnett Squares
86. Genetic Disorder Research
87. Repro Tech socratic Seminar
88. “”
89. Mating Systems- treasure hunt?
90. Mating Systems
91. Livestock Juding- candy bar, judging basics
92. Judging
93. Judging Stations
94. Evaluating and using EPD’s

95. Animal Health
96. Animal Health
97. Animal Health
98. Dosage and Labels
99. Labels
100. Parasite Microscope Lab
101. Injection sites, reading syringes
102. Injection Lab- oranges
103. Test

104. Welfare vs. Rights- Article and Venn Diagram
105. CRAAP Test
106. Debate Prep
107. Debate Prep
108. Debate Prep
109. Presentations
110. Presentations
111. Presentations
112. Behavior Notes
113. Behavior Notes, Temple Grandin movie
114. Temple Grandin Movie
115. Ethology Study
116. Ethology Study
117. Quiz and Packet

118. Beef Industry Notes
119. Infographic
120. Reading brands
121. Quiz, Packet

Animal Science- Daily Agenda

122. Modern Marvels- Milk
123. Dairy Industry Notes
124. Notes and memory game
125. Jigsaw and Kahoot
126. Facility
127. Facility
128. Facility
129. Milk Processing
130. Milk tasting
131. Yogurt
132. Ice Cream
133. Quiz

134. Swine Industry Notes
135. Ear Notching
136. Ear Notching Lab
137. PSS Paper
138. Swine Quiz

139. Dirty Jobs- Wool Production
140. Sheep and Goat Industry Notes
141. Commercial
142. Meridian Jacobs Guest Speaker
143. Commercial
144. Commercial
145. Sheep Shearing Lab
146. Update Recordbooks
147. Sheep/Goat Quiz and Watch Commercials

148. Animal Research Project
149. Animal Research Project
150. Animal Research Project
151. Final Prep
152. Final

Ideas** Make iCEV study booklet with notes pages, etc.

Dixon_Request to Articulate Form- Animal Science 2022-1-14

Final Audit Report 2022-01-14

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Articulation Form_Dixon_Animal Science

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