



BUTTE-GLENN COMMUNITY COLLEGE DISTRICT
3536 Butte Campus Drive, Oroville, CA 95965

**COLLEGE AND CAREER ACCESS PATHWAYS
PARTNERSHIP AGREEMENT**

APPENDIX

WHEREAS, the College and Career Access Pathways Partnership Agreement ("CCAP Agreement") is between **Butte-Glenn Community College District** ("College") and **Hamilton Unified School District** ("School District"); and

WHEREAS, the College and the School District agree to record College and School District specific components of the CCAP Agreement using the CCAP Agreement Appendix to specify additional detail regarding, but not limited to: the total number of high school students to be served; the total number of full-time equivalent students projected to be claimed by the College for those students; the scope, nature, time, location and listing of community college courses to be offered; and the criteria to assess the ability of pupils to benefit from those courses. (Ed. Code, § 76004, subd. (c)(1))

NOW THEREFORE, the College and School District agree as follows:

1. CCAP AGREEMENT

1.1. The College and School District entered into a three-year CCAP Agreement on **July 1, 2021**, pursuant to action of the governing boards of the College and School District.

1.1.1. COLLEGE BOARD MEETINGS

Public Comment and Approval Board Meeting Date:	Agreement: 8/11/21	Appendix: 10/11/23
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1.1.2. SCHOOL DISTRICT BOARD MEETINGS

Public Comment and Approval Board Meeting Date:	Agreement: 8/25/21	Appendix: 8/23/23
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2. POINTS OF CONTACT

2.1. College and School District points of contact for this CCAP Agreement: (Ed. Code, § 76004 (c)(2))

COLLEGE

Name:	Tanna Neilsen	Title:	Dual Enrollment Program Administrator
Telephone:	(530)893-7586	Email:	neilsenta@butte.edu

SCHOOL DISTRICT

Name:	Courtney Carrier	Title:	District Executive Assistant
Telephone:	826-3261	Email:	ccarrier@hudsdschools.org

3. STUDENT SELECTION

3.1. College and School District shall adhere to the terms outlined in Section 3, Student Eligibility, Admission, Registration and Enrollment of the CCAP Agreement to select eligible students.

Required: Describe the criteria used to assess the ability of pupils to benefit from the courses(s) offered: (Ed. Code, § 76004 (c)(1))

SCHOOL DISTRICT counselors and pathway instructors select students based on academic readiness and alignment of course content to students' education and career goals.

4. **CCAP AGREEMENT EDUCATION PROGRAM(S) AND COURSE(S).** The College has identified the following: program year; educational program(s) and course(s) to be offered at the said date, time and location; term; number of sections; the total number of students to be served and projected FTES; and the instructor and employer of record.

PROGRAM YEAR:	2023/24	EDUCATIONAL PROGRAM:	CCAP Dual Enrollment
SCHOOL DISTRICT:	Hamilton Unified School District	HIGH SCHOOL:	Hamilton High School

TOTAL NUMBER OF STUDENTS TO BE SERVED: 100	TOTAL PROJECTED FTES: 10
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COURSE NAME	COURSE NUMBER	TERM	# of Sections	TIME	DAYS	INSTRUCTOR	EMPLOYER OF RECORD	LOCATION
Intro to Animal Science Careers in Agriculture, ES, NR	AGS 40	FA23	1	8-3:30	M-F	A. Hautala	<input checked="" type="checkbox"/> HS	<input checked="" type="checkbox"/> HS
	AB 20	FA23	2	8-3:30	M-F	J. Lohse	<input checked="" type="checkbox"/> HS	<input checked="" type="checkbox"/> HS
Intro to Environmental Horticulture Intro to Agriculture Busines	EH 20	FA23	1	8-3:30	M-F	A. Hautala	<input checked="" type="checkbox"/> HS	<input checked="" type="checkbox"/> HS
	AB 26	FA23	1	8-3:30	M-F	J. Lohse	<input checked="" type="checkbox"/> HS	<input checked="" type="checkbox"/> HS

Required: Attach the course description for each course listed above. Each course description should include information regarding the nature and scope of the course.

5. **BOOKS AND INSTRUCTIONAL MATERIALS.** The total cost of books and instructional materials for School District students participating as part of this CCAP agreement will be borne by School District.

COURSE NAME	TEXT	COST	OTHER INSTRUCTIONAL MATERIALS	COST
Intro to Animal Science Careers in Agriculture, ES, NR	Fundamentals of Animal Science	\$0	None	\$0
	Career Directions: New Paths to Your Ideal Career	\$0	None	\$0
Intro to Environmental Horticulture Intro to Agriculture Busines	Introductory Horticulture/Plant Science	\$0	None	\$0
	Agribusiness Fundamentals and Applications	\$0	None	\$0

6. **REIMBURSEMENT.**

- 6.1. Use of School District Instructor. For those courses in which a School District instructor is responsible for the instructional services for a course offered as part of this CCAP Agreement, the College will pay School District as follows: **\$400.00 per completed section.**
- 6.2. The College will pay School District for each School District instructor attending the College's Dual Enrollment Orientation and Training as follows: **\$100.00 per instructor.**
- 6.3. Invoicing Procedures. Within 30 days after the end of each academic term, the School District shall provide an invoice to the College for reimbursement implied in this CCAP Agreement Appendix. The invoice must specify the course name, course number, term, instructor and the number of students served.

7. **FACILITIES USE.**

- 7.1. College and School District shall adhere to the terms outlined in Section 13, Facilities, of this CCAP Agreement.

7.2. School District as part of Section 13.1 of this CCAP Agreement, shall extend access and use of the following School District facilities:

7.3.

BUILDING	CLASSROOM	DAYS	HOURS
DHS	13	M-F	8-3:30
DHS	13	M-F	8-3:30

8. APPENDIX APPROVAL

8.1. The College and School District shall ensure that the governing board of each district, at an open public meeting of that board, shall present this CCAP Appendix, take comments from the public, and approve or disapprove this CCAP Appendix. (Ed. Code, § 76004, subd. (b))

8.2. Upon approval of this Appendix by the governing boards of both the College and School District, the College will provide a copy of this Appendix to the Chancellor’s Office of the California Community Colleges prior to the start of the course. (Ed. Code, § 76004, subd. (c)(3))

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the parties to the CCAP Agreement have executed this CCAP Agreement Appendix by their duly authorized representatives on the dates of their signatures.

BUTTE-GLENN COMMUNITY COLLEGE DISTRICT

HAMILTON UNIFIED SCHOOL DISTRICT

By: _____
 (Signature of person authorized to execute Appendix on behalf of College.)

By: _____
 (Signature of person authorized to execute Appendix on behalf of School District.)

Name: Andrew B. Suleski

Name: Jeremy Powell

Title: Vice President for Administration

Title: Superintendent

Date: _____

Date: _____

List of Attachments

Course Descriptions

TO BE COMPLETED BY COLLEGE ONLY					
The person preparing this contract must complete this section and obtain appropriate initials before contract will be approved.					
Initiating Department:	SCHOOL RELATIONS	Preparer's Name & ID:	TANNA NEILSEN / 3180821	Phone:	7586
Vendor Name:	HAMILTON UNIFIED SCHOOL DISTRICT		Vendor ID:		
PO Description (Max. 25 characters):	CCAP APPENDIX – Hamilton High 2023/24				
Budget Code:	12.418.700.1.640000.55890	PO Amount:	\$2,200	(5@400=\$2,000, 2@100=\$200)	
Contract Monitor Name (Person Who Approves Invoices):	TANNA NEILSEN			Phone:	7586
Dept. Dean/Director Initials:		Dept. Vice President Initials:			
Business Contracts Approval:		Purchase Order Number:			

**CAREER AND COLLEGE ACCESS PATHWAYS APPENDIX
ATTACHMENT 1
COURSE DESCRIPTIONS**

The course description(s) for each course offered as part of this CCAP Agreement Appendix are attached and incorporated herein as Attachment 1.



Catalog Description

AGS 40 - Introduction to Animal Science

Transfer Status: CSU/UC

Unit(s): 3.00

Contact Hours: 34.00 Lecture/51.00 Lab

Out of Class Hours: 68.00

Total Course Hours: 153.00

Course Description:

This course is a scientific approach to the livestock industry encompassing aspects of animal anatomy, physiology, nutrition, genetics and epidemiology. There will be special emphasis on the origin, characteristics, adaptation and contributions of farm animals to the global agriculture industry. Analysis of the economic trends and career opportunities in animal agriculture will be covered. (C-ID AG-AS 104).

Objectives

Upon successful completion of this course, the student should be able to:

1. Identify animal contributions to the development of human civilizations.
2. Describe economically significant breeds of animals and their unique adaptations.
3. Describe the function of the major body systems.
4. Identify reproductive cycles and biotechnological principles of animal reproduction.
5. Analyze genetic change through artificial/natural selection.
6. Discuss nutritional needs for various body functions.
7. Describe animal behavior as it relates to animal domestication, health and performance.
8. Explain basic strategies for disease control, prevention and management.
9. Utilize the scientific method to collect data, calculate production parameters and make scientifically-based management decisions.
10. Identify and discuss current issues affecting animal agriculture.

Course Content

Topic Titles / Suggested Time Topic

Lecture

Topics

Lec Hrs

Introduction to animal agriculture	
a. Career opportunities	
b. Importance of domestic animals to the world and to the United States	
c. Economic importance of animal agriculture	4.00
d. Animal contributions to human needs	
e. Ethnic and cultural contributions to animal domestication	
Unique adaptations of various species	
a. Natural selection vs artificial selection	
b. Meat animal use and production	
c. Fiber production	4.00
d. Dairy production	
e. Recreational and companionship use of animals	
Anatomy and physiology	
a. Identification of external anatomy for various species	3.00
b. Analysis of body systems – reproductive, respiratory, digestive, immune, circulatory	
Animal reproduction	
a. Animal breeding systems	
b. Reproductive management and technology	3.00
c. Fertility assessment	

Genetics	
a. Introduction and review of genetic principles	
b. Gene modification and genetic interactions	3.00
c. Genetic improvement and variation	
d. Inheritance and population genetics	
Nutrition	
a. Classes of nutrients	
b. Feed identification and composition	3.00
c. Livestock feeding management practices	
Animal behavior (ethology)	
a. Behavioral characteristics	
b. Animal handling and safety	3.00
c. Conditioning	
Animal health	
a. Biosecurity	
b. Vital Signs	3.00
c. Indications of health vs disease	
d. Common diseases	
The scientific method	
a. Research in animal agriculture	
b. Developing a research model	3.00
c. Humane treatment of research animals	
Issues affecting animal agriculture	
a. Animal welfare issues	
b. Advances in biotechnology	
c. Governmental and environmental concerns	5.00
d. Food safety	
e. Public policy and consumer awareness	
	Total Hours: 34.00

Lab

<u>Topics</u>	<u>Lab Hrs</u>
Beef and Dairy	3.00
Sheep and Swine	3.00
Meats lab, safety and processes	3.00
Grocery store - meat, cheese, butter, ice cream	3.00
Purebred Beef - Expected Progeny Differences (EPD)	3.00
Commerical cattle operation - weaning, castration	3.00
Dairy farm - production cycle	3.00
Milk processing - cheese plant	3.00
Sheep - lambing and handling	3.00
Purebred Sheep - production cyle	3.00
Swine - vaccination, selection, management	3.00
Poultry - quality of carcasses and eggs	3.00
Horse - production cycle	3.00
Selection workshop	3.00
Biotechnology and environmental workshop	3.00
North Valley Livestock Tour	6.00
	Total Hours: 51.00

Examples of Assignments

Reading Assignments

1. Read the chapter on genetic change through selection and be prepared to share your findings with the class.

2. Read the chapter on market classes and grades of livestock and be able to discuss in a group setting the evaluative criteria for each grade of beef, pork and lamb.

Writing Assignments

1. Read the chapter on animal behavior and and write a 2-3 page paper on the fields of animal behavior and systems of animal behavior.
2. Read an article from a trade magazine on the issues in animal agriculture and write 2 page paper on animal welfare.

Out-of-Class Assignments

1. Visit any livestock operation in the local area and be prepared to share with the class, the breeds, total numbers and management practices utilized at the operation.
2. Use the Internet to check current pricing on the major market animals as well as breeding stock for swine, sheep, beef and dairy cattle. This information will be shared with the class.

Recommended Materials of Instruction

Taylor, R. (2012). Scientific Farm Animal Production. *Prentice Hall, 10th.*

Knights, Marlon. (2014). Animal Science Lab Manual. *Kendall Hunt Publishing, 1st.*

Other Learning Materials

Materials: 3 ring notebook, proper clothing for labs

Methods of Instruction

- A. Homework: Students are required to complete two hours of outside-of-class homework for each hour of lecture
- B. Lecture
- C. Problem-Solving Sessions
- D. Class Activities
- E. Discussion

Methods of Evaluation

- A. Exams/Tests
- B. Class participation
- C. Written Examinations
- D. Practical Evaluations
- E. Mid-term and final examinations

Created/Revised by: Adams, Denise

Date:02/25/2019



Catalog Description

AB 20 - Careers in Agriculture, Environmental Science and Natural Resources

Transfer Status: CSU

Unit(s): 1.00

Contact Hours: 17.00 Lecture

Out of Class Hours: 34.00

Total Course Hours: 51.00

Course Description:

This course is a study of the agriculture, environmental science and natural resources industries with a focus on career opportunities, self evaluation, and skills necessary for successful job procurement. Topics include job trends, resumes and cover letters, interviewing skills, and the types of careers available in agriculture, environmental science, and natural resources.

Objectives

Upon successful completion of this course, the student should be able to:

1. Identify career opportunities in agriculture, environmental science, and natural resources.
2. Define their career goals and create an educational plan to achieve these goals.
3. Prepare an effective resume and cover letter and demonstrate effective job interviewing skills.

Course Content

Topic Titles / Suggested Time Topic

<u>Lecture</u>	<u>Lec Hrs</u>
<u>Topics</u>	
Introduction	1.00
Employment Trends	1.00
Establishing Goals	1.00
Sources of Employment Information	3.00
Placement and Interest Testing	2.00
Personal Inventory	1.00
Personal Education Plan	1.00
Resumes, Cover Letters	3.00
Job Interviews	2.00
Career Options	1.00
Self Evaluation	1.00
Total Hours:	17.00

Examples of Assignments

Reading Assignments

1. Read the examples of effective cover letters provided by the instructor. Identify the three primary components of an effective cover letter. Be prepared to discuss in class.
2. Read the examples of effective resumes provided by the instructor. Identify the five primary sections and their sequence in an effective resume. Be prepared to discuss in class.

Writing Assignments

1. Prepare a professional resume. Highlight your employment objective(s), academic qualifications, and work history.

2. Prepare a professional quality cover letter. Be sure to establish in your letter the purpose of the letter, your key qualifications, and a request for an interview.

Out-of-Class Assignments

1. Visit the Butte College Career Development Center. Take the "career assessment" activity to identify potential career fields that correspond to your interests. Be prepared to share what you learned in class.
2. Use the Eureka computer database in the Butte College Career Center to identify the education requirements, job duties, and pay range for three job categories of interest to you.

Recommended Materials of Instruction

Yena, D.. (2020). Career Directions: New Paths to Your Ideal Career. *McGraw-Hill Education, Seventh* . 9781259712371.

Methods of Instruction

- A. Lecture
- B. Demonstrations
- C. Guest Speakers
- D. Homework: Students are required to complete two hours of outside-of-class homework for each hour of lecture

Methods of Evaluation

- A. Quizzes
- B. Portfolios
- C. Papers
- D. Homework
- E. Mid-term and final examinations
- F. Essays and research papers

Created/Revised by: Vazquez, Jacob

Date: 12/06/2021



Catalog Description

EH 20 - Introduction to Environmental Horticulture

Transfer Status: CSU

Unit(s): 3.00

Contact Hours: 34.00 Lecture/51.00 Lab

Out of Class Hours: 68.00

Total Course Hours: 153.00

Course Description:

This course is an introduction to environmental horticulture including nursery operations, landscaping, turf management and arboriculture. Topics include basic botany, cultural practices, propagation, structures and layout, pest management, planting, transplanting, container gardening, houseplants, plant identification, turfgrass installation and care, and a broad survey of the 'Green Industry' and other career opportunities.

Objectives

Upon successful completion of this course, the student should be able to:

1. Identify various horticultural occupations and their employment requirements.
2. Identify and safely use common tools and equipment.
3. List and describe the major structures of plants and their functions.
4. Formulate potting mixes and container media.
5. Propagate plants by sexual and asexual methods.
6. Explain the requirements of plant growth including watering needs, fertilizers requirements and pest control.
7. Identify the various types of horticultural structures including shade structures, greenhouses, and cold frames.
8. Describe the basic operations of various environmental horticulture businesses.
9. Plant and care for horticultural crops.

Course Content

Topic Titles / Suggested Time Topic

Lecture

Topics

Lec Hrs

The 'Green Industry' in Butte County and Around the World	2.00
Environmental Issues and Regulations	2.00
Horticultural Occupations and Their Employment Requirements	2.00
Tools, Equipment and Safety Practices	2.00
Plant Structures and Functions	2.00
Soils and Container Media	2.00
Plant Propagation	2.00
Requirements of Plant Growth	2.00
Irrigation and Fertilization	2.00
Pest and Disease Damage Identification	2.00
Horticultural Structures	2.00
Environmental Horticulture Businesses	2.00
Nursery and Greenhouse Crops – Planting and Care	2.00
Plants in the Landscape – Care and Pruning	2.00
Plant Identification and Nomenclature	2.00
Common Turf and Landscape Practices	2.00
Agriculture and Horticulture Policy concerns	2.00

Total Hours: 34.00

Lab

Topics

Lab Hrs

The 'Green Industry' in Butte County and Around the World	3.00
Tools, Equipment and Safety Practices	3.00
Plant Structures and Functions	3.00
Soils and Container Media	3.00

Plant Propagation	ATTACHMENT 1	6.00
Requirements of Plant Growth		3.00
Irrigation and Fertilization		3.00
Pest and Disease Damage Identification		3.00
Horticultural Structures		3.00
Nursery and Greenhouse Crops – Planting and Care		6.00
Plants in the Landscape – Care and Pruning		6.00
Plant Identification and Nomenclature		3.00
Common Turf and Landscape Practices		3.00
Vineyard and Orchard Pruning Practices		3.00
	Total Hours:	51.00

Examples of Assignments

Reading Assignments

1. Read the text chapter on diagnosing plant disorders and complete the corresponding homework assignment. Be prepared for class discussion on the following: a. Plant disorders caused by cultural practices. b. Plant disorders caused by insect damages. c. Plant disorders caused by diseases.
2. Read the UC-IPM website covering one of each type of plant disorder and be ready to give an oral report to the class on proper care for the affected plant.

Writing Assignments

1. Write a two page essay on current employment trends for Horticulturists. Give regional data for trends and salary ranges.
2. Write a two page essay on a plant of your choice. Give your reasons for choosing this plant, its history of association with humans and its future uses and value to mankind.

Out-of-Class Assignments

1. Visit a local business that is in the ornamental horticulture category and be prepared to give an oral report to the class.
2. Visit a local or regional business in the agricultural or viticultural areas of horticulture and be prepared to give an oral report to your class.

Recommended Materials of Instruction

Laura Williams Rice & Robert P. Rice. (2011). Practical Horticulture. *Prentice-Hall*, 7th. 0130946346.

Other Learning Materials

Materials: three ring binder, pocket knife, pruning shears, water bottle, gloves, shade hat and boots. Warm clothing, when necessary.

Methods of Instruction

- A. Class Activities
- B. Demonstrations
- C. Discussion
- D. Field Trips
- E. Homework: Students are required to complete two hours of outside-of-class homework for each hour of lecture
- F. Laboratory Experiments
- G. Lecture
- H. Multimedia Presentations
- I. Reading Assignments

Methods of Evaluation

- A. Quizzes
- B. Oral Presentation
- C. Demonstration
- D. Homework
- E. Class participation
- F. Lab Projects
- G. Exams/Tests



Catalog Description

AB 26 - Introduction to Agriculture Business

Transfer Status: CSU

Unit(s): 3.00

Contact Hours: 51.00 Lecture

Out of Class Hours: 102.00

Total Course Hours: 153.00

Course Description:

This course provides students with a basic understanding of the business and economics of the agricultural industry; an introduction to the economic aspects of agriculture and their implications to the agricultural producer, consumer and the food system; management principles encountered in the day to day operation of an agricultural enterprise as they relate to the decision making process. (C-ID AG-AB 104).

Objectives

Upon successful completion of this course, the student should be able to:

1. Explain how economic principles relate to commodity marketing sub sectors in agriculture.
2. Recognize and describe agricultural business organizational structures including; sole proprietorships, partnerships, corporations, franchises, and cooperatives. Identify and explain the four functions of management and how they relate to the agribusiness organization.
3. Develop an awareness of the basic laws, regulations, and regulatory agencies that interact with the agriculture community.
4. Describe various styles of leadership.
5. Identify the role of the agricultural manager.
6. Recognize, evaluate, and propose solutions to problems in personnel, ethics and communication.

Course Content

Topic Titles / Suggested Time Topic

Lecture

Topics

Lec Hrs

The role and organization of the agribusiness	
a. The place of agribusiness in California, United States, and the global economy	
b. Types of agribusiness	
c. The organization of an agribusiness	8.50
d. Types of business structure	
e. Managing the agribusiness	
Management	
a. Planning	
b. Leading	8.50
c. Organizing	
d. Controlling	
Managerial Problem Solving in Agriculture	
a. Diagnosis of the situation	
b. Generating alternative	
c. Evaluating alternatives	8.50
d. Selecting the best alternative	
e. Implementing the alternative	
f. Evaluation of results	
Financial Management and Control of Agribusiness	
a. General business economics	8.50
b. Overview of financial statements	

Human Resource Management

- a. The role of the agriculture manager
- b. Agriculture employee motivation
- c. Team and team building
- d. Labor relations

8.50

Business Land and Ethics in Agriculture

- a. Agriculture values
- b. Agriculture business ethnics
- c. Personal values
- d. Agricultural Law and the regulatory environment

8.50

Total Hours:

51.00

Examples of Assignments

Reading Assignments

1. Read and interpret an article pertaining to current events in agriculture, posted on the class portal. Be prepared to discuss the issues and take a pro/con position.
2. Read the case study in your text dealing with "Going Broke While Making a Profit". Identify how this happened and how it could have been avoided.

Writing Assignments

1. Write a 7-10 page Business Plan for an agricultural endeavor of your choice. The Business Plan should include a description of the business, a marketing plan, and financial statements.
2. Write a two-three research page paper covering the management style of the Simplot Corporation. Identify the companies approach to hiring, advancement, and outlook on the future.

Out-of-Class Assignments

1. Locate two examples of advertising for an agricultural commodity. One should be commodity based and the other product specific. Be prepared to discuss in class.
2. Interview an individual currently working in your proposed field of employment. Write a two page paper discussing the nature of the work, the best and worst parts of the job, and the employment outlook. Be prepared to discuss in class.

Recommended Materials of Instruction

Barnard, F., Foltz, J., Yeager, E., Brewer, B.. (2020). Agribusiness Management. *Routledge, Sixth*. 9780367341947.

Methods of Instruction

- A. Group Discussions
- B. Homework: Students are required to complete two hours of outside-of-class homework for each hour of lecture
- C. Lecture
- D. Reading Assignments

Methods of Evaluation

- A. Quizzes
- B. Oral Presentation
- C. Projects
- D. Homework
- E. Short papers
- F. Essays and research papers

Created/Revised by: Vazquez, Jacob

Date: 12/06/2021