

MISSION TRAILS REGIONAL OCCUPATION PROGRAM

COURSE TITLE: ANIMAL CARE / LIVESTOCK MANAGEMENT
01-019-85

1. CBEDS TITLE: ANIMAL CARE

2. CBEDS NUMBER: 4020

3. JOB TITLES:

410.664-010	Farm Worker, Livestock
421.683-010	Farm Worker, General
209.562-101	Clerk, General (i.e., Farm Supply)
410.674-010	Animal Caretaker
419.674-010	Horse Trainer
418.674-010	Animal Groomer

5. COURSE DESCRIPTION

This course will provide the student with training in skills for the targeted job classifications related to livestock production and marketing. This training supplements the basic training provided for 11th and 12th grade high school students in agricultural courses and adults who have recently been enrolled in one of the high school preparatory agricultural courses and who are continuing a supervised occupational project related to the training in this course.

4. HOURS

This course will include at least sixty (60) hours of group instruction with a Minimum of one hour each calendar week. Group instruction may include field trips and teacher supervised activity at the county fair. Additional training may be provided in community classroom.

TOTAL = 360 hours

5. PREREQUISITES: 11th&12th grade

8. REVISION DATE: May 1, 2003

9. COURSE OUTLINE:

a. CONTENT AREA SKILLS:

i. EXPECTED STUDENT OUTCOMES

ii. HOURS OF INSTRUCTION

COURSE OUTLINE

CONTENT AREA SKILLS	EXPECTED STUDENT OUTCOMES	HOURS		
		CL	CC	CP
Instruction will include:	Student will be able to:			
1. Introduction A. Careers in livestock management B. General terminology C. Basic skills & competencies overview	Demonstrate ability to follow directions	4		
2. Safety A. Work procedures B. Animal protection C. Equipment handling D. Personal safety E. Common safety rules & regulations F. Accident emergency procedures	Identify basic working safety rules Describe accident emergency procedures Demonstrate safe animal handling procedures	8		
3. Financing A. Loan sources: banks, credit unions, production credit association, private loans and other B. How to apply for a loan: 1. Application for a loan 2. Qualifying for a loan 3. Credit information C. Loan Agreements: term, conditions interest, payments D. Profit and Loss Statement: Close out loan, calculate profit (loss)	Properly fill out loan applications Properly construct a private loan agreement Properly file for PCA loan Identify loan terms	10		
4. Selection A. Introduction 1. Livestock preference 2. Image of the ideal animal 3. Logical analysis of current market trends B. Live animal evaluation: 1. Factors determining value of live animal 2. Breeding vs. market	Properly analyze current livestock trends Visualize ideal animal Identify breeds Identify body parts Determine age of animals Know judging terminology Know animal grades and grading Select and purchase desirable animal	15		

<ul style="list-style-type: none"> 3. Basis parts of the animal C. Breeding animals evaluation: <ul style="list-style-type: none"> 1. Breed characteristics 2. Functional reproduction 3. Pedigree & genetic makeup D. Meat animal evaluation: <ul style="list-style-type: none"> 1. Market animal judging terminology 2. Conformation 3. Finish, grade cutability & yield E. Meat animal Selection: <ul style="list-style-type: none"> 1. Steps in evaluating the live animal 2. Animal carcass evaluation & grading 3. Special factors for different breeds F. Calculating feed requirements: <ul style="list-style-type: none"> 1. Projecting rate of gain 2. Estimating cost of feeding 				
<p>5. Purchasing Livestock</p> <ul style="list-style-type: none"> A. Market Sources: Breeder sales, private individuals, sales yards, other club members, chapter flocks B. Buying Livestock: <ul style="list-style-type: none"> 1. Methods of payment 2. Bill of sale 3. Brand inspection 4. Shipping & transportation 5. Weigh & age to purchase 6. Survey of current market prices C. Insurance for Livestock: <ul style="list-style-type: none"> 1. Source of insurance agent 2. Insurance duration 3. Filing applications 	<p>Know market sources Figure project prices File insurance application Identify sources of insurance</p>	15		
<p>6. Livestock Facilities</p> <ul style="list-style-type: none"> 1. Housing 2. Fencing 3. Feeders 4. Waterers 5. Chutes and Scales 	<p>Determine housing needs of animals Determine fencing types and needs Determine watering and feeding needs</p>	67		
<p>7. Equipment and Supplies</p> <ul style="list-style-type: none"> A. Basic equipment commonly used with all species B. Specialty equipment for individual species: beef, sheep, swine & horses C. Purchasing equipment & supplies D. Proper care of equipment and supplies 	<p>Select and purchase drugs and veterinary supplies Buy supplies and materials Develop a list of facilities and equipment needed Display proper care of equipment and supplies</p>	10		

<p>8. Management Practices</p> <p>A. Daily routine</p> <p>B. Approved scheduled Practices</p> <p>C. Disease prevention:</p> <ol style="list-style-type: none"> 1. Common diseases 2. Control of common diseases 3. Use of veterinary equipment (using syringes, thermometer, reading medicine labels, giving oral medications & using bull holders/other restraining gear) 4. Knowledge of common veterinary practices (castration, dehorning, docking, suturing & dressing wounds) <p>D. Parasite Prevention:</p> <ol style="list-style-type: none"> 1. Common parasites 2. Control of common parasites 3. Use of veterinary equipment (worming & spray) 4. Forms of parasiticide application <p>E. Sanitary Practices:</p> <ol style="list-style-type: none"> 1. Fly control 2. Ventilation 3. Disinfecting sick animals 4. Dead animal disposal 5. Bedding materials <p>F. When to call the veterinarian:</p> <ol style="list-style-type: none"> 1. Animal has high temperature 2. Animal refuses to eat, move or get up 3. Bleeding profusely & needs medical attention 4. Animal has been in labor for several hours <p>G. Record Keeping:</p> <ol style="list-style-type: none"> 1. Importance of keeping good records 2. Using the California & Voc-Ag record book (calendar of events & operations, business agreement, budget, journal, accounts and notes receivable and payable, financial statement, non-depreciable & depreciable inventory, net income summary, recording school, community & leadership activities) <p>Fill out time cards and other information</p>	<p>Identify symptoms of common parasites</p> <p>Interpret labels on medicines and drugs</p> <p>Determine amounts of medicines per dose</p> <p>Identify and correct sanitation problems</p> <p>Recognizing disease symptoms</p> <p>Remove manure from quarters or pen</p> <p>Vaccinate animals</p> <p>Worm animals</p> <p>Store pesticide vaccines and medicines properly and safety</p> <p>Exercise animals</p> <p>Knowing when to call a veterinarian</p> <p>Keep purchase and sales records</p> <p>Maintain production records (rate of gain)</p> <p>Set up and maintain record keeping systems</p> <p>Prepare a budget</p> <p>Keep personal records (meeting date, etc)</p>	<p>50</p>		
---	--	-----------	--	--

UNIT AREA SKILLS	EXPECTED STUDENT OUTCOMES	POINTS	COURSE	SEMESTER
<p>9. Feeding Livestock</p> <p>A. Basic animal nutrients that affect development:</p> <ol style="list-style-type: none"> List basic nutrients & effect of nutrients on the animal <p>B. Common livestock feeds:</p> <ol style="list-style-type: none"> List common feed stuffs Availability of local & seasonal feed stuff <p>C. Feeding tools and Equipment:</p> <ol style="list-style-type: none"> Identifying & using tools & equipment <p>D. Feed rations:</p> <ol style="list-style-type: none"> Meaning of a ration & a balanced ration <p>E. Weight Adjustment:</p> <ol style="list-style-type: none"> Weighing animals Calculating rate of gain, feed conversion & weight control (shipping, etc.) <p>F. Feeding Practices:</p> <ol style="list-style-type: none"> Time & frequency Progressive & functional feeding (market, breeding animals & eminence) 	<p>Calculate cost per pound of ration</p> <p>Identify spoiled feed</p> <p>Determine proper amounts to feed per animal per day</p> <p>Number of times per day and time each day to feed</p> <p>Determine water requirements</p> <p>Determine pounds of feed needed per day</p> <p>Determine salt requirements</p> <p>Calculate pounds of feed per pounds of gain</p> <p>Identify feed ingredients</p> <p>Determine equipment needed</p> <p>Interpret feed tags and labels</p> <p>Determine ration between roughage and gain throughout feeding period</p> <p>Determine feed to buy based on quality and price</p>	45		
<p>10. Transporting Livestock</p> <p>A. Preparing animals for transportation:</p> <ol style="list-style-type: none"> Feed requirements & medications <p>B. Methods of Transportation:</p> <ol style="list-style-type: none"> Types of transportation & equipment <p>C. Market Considerations:</p> <ol style="list-style-type: none"> Time, distance, weight loss <p>D. Handling animals for transportation:</p> <ol style="list-style-type: none"> How to collect & identify animals Loading (equipment & procedures) In transport (#of animals for space available, arrangements & restraints) Delivery (unloading, containment and/or distribution procedures) <p>E. Laws and regulations enroute</p> <p>F. Hauling animals to the fair</p>	<p>How to place animals in scale</p> <p>How to set scales and read weight</p> <p>How to release animal</p> <p>How to set chutes and runs for transport</p> <p>How to unload from transport</p> <p>How to keep animals quiet</p> <p>How to arrange animals to prevent injury</p> <p>How to look up state and federal transport regulations</p>	10		
<p>11. Fitting Show Animals</p> <p>A. General procedures: washing, brushing, trimming & conditioning</p> <p>B. Specialty Treatments by species: beef, swine, sheep & horse</p> <p>C. Grooming supplies & materials</p> <p>D. Grooming equipment</p> <p>E. Pre-entry Conditioning</p>	<p>Demonstrate proper washing procedures</p> <p>Demonstrate proper brushing practices</p> <p>Demonstrate proper trimming of animal</p> <p>Describe conditioning practices for specific species</p> <p>Demonstrate proper handling of supplies and materials</p> <p>Describe common grooming equipment</p> <p>Demonstrate ability to condition an animal</p>	20		
<p>12. Showing Livestock</p> <p>A. Animal control</p> <p>B. Entering Show Ring</p> <p>C. Personal appearance of Showperson: dress, poise & attitude</p>	<p>Demonstrate ability to control a show animal</p> <p>Demonstrate ability to enter show ring properly</p> <p>Demonstrate correct show appearance, dress & attitude</p> <p>Describe correct show ring procedures</p> <p>Identify judging rules and practices</p>	15		

CONTENT AREA SKILLS	EXPECTED STUDENT OUTCOME	HOURS		
D. Presenting the animal: posing, moving in the show ring, animal condition, specialty requirements by species E. Show Ring Conduct F. Show Ring Procedures G. Judging Practices				
13. Show and Fair Regulations A. State Rules: general & by species B. Show Dress/Uniform C. Entry Rules: health papers, ownership & weight divisions D. Presentation of Exhibit: judging schedules, criteria for awards & display E. Fair Entries: registration procedures, dates of deadlines, completing form & applications, fees & schedules and advisors	Describe fair animals entry rules Describe judging criteria, knowledge of awards & displays Complete accurate fair entry forms	8		
14. Fair Conduct and Dress A. Proper Dress/ Uniform B. Knowledge of Local Rules C. Conduct in Fairgrounds D. Project Buyer	Demonstrate correct dress or uniform Describe local show rules	2		
15. Livestock Display A. Condition of Display: cleanliness, arrangement, equipment & seating B. Display Signs and Posters: consumer, project & presenter information C. Fire and Safety Control	Describe equipment needed for fair display Knowledge of fire and safety control	4		
16. Junior Livestock Auction A. Pre-fair Advertisement B. Consumers Information on Bidding C. Quality of Exhibits D. Auction Order E. Displaying the Animal F. Photographs of Animal G. Notifying Buyers	Knowledge of auction procedure and rules	4		
17. Post-Show and Sale Obligations A. Load-out B. Equipment Inventory & Maintenance C. Publicity D. Thank You Letters	Close out sale forms with buyer Arrange for animal load out	2		

18. How to Apply for a Job A. Job Application B. Personal Resume C. Job Resources D. What to Look for in a Job E. How to get Along on a Job F. How to Quit a Job	Complete a job application List at least three (3) job titles for which this course develops training	6		
19. Horsemanship A. The Horse Industry B. Types and Breeds of Horse C. Housing, Equipment and Handling D. Riding E. Management of the Stable, Customer Relations		20		
20. Pet Shop Training A. Setting Up and Managing the Business B. Customer Relations C. Animals as Pets D. Fish and Reptiles as Pets E. Sales F. Educating the Customer		20		
21. Dog Kennel A. Kennel Design B. Kennel Types C. Whelping Procedures D. Weaning E. Disease Control F. Lab Animals		15		
22. Grooming A. Brushing B. Bathing C. Clipping: clipper care, blade type and wage styles		10		

0. COURSE OUTLINE:

b) CAREER PERFORMANCE STANDARDS

- i) EXPECTED STUDENT OUTCOMES**
- ii) HOURS OF INSTRUCTION**

COURSE OUTLINE

CAREER PERFORMANCE STANDARDS	EXPECTED STUDENT OUTCOMES	HOURS
Instruction will include:	Student will be able to:	
<p>1. Personal Skills</p> <ul style="list-style-type: none"> ▪ Classroom policies & procedures ▪ Ethics <ul style="list-style-type: none"> → Work → Business ▪ Sexual harassment laws ▪ Personal skills, including positive attitude, self-confident, honesty, perseverance & self-discipline ▪ Professional appearance ▪ Time management ▪ Lifelong learning 	<p>1. Understand how personal skill development, including positive attitude, honesty, self-confidence, time management, & other positive traits affect employability.</p> <ul style="list-style-type: none"> ▪ Demonstrate and understand classroom policies & procedures ▪ Define work and business ethics & demonstrate the importance of ethical standards & social responsibilities in the business environment. ▪ Discuss the laws applicable to sexual harassment & discuss tactics for handling harassment situations. ▪ Demonstrate personal skills in class and/or business environment: <ul style="list-style-type: none"> → Positive attitude → Self-confidence → Honesty → Perseverance → Self-discipline ▪ Demonstrate and model personal hygiene and acceptable professional attire ▪ Prioritize tasks and meet deadlines ▪ Explain the importance of lifelong learning 	<p>Integrated in content area skills</p>

CAREER PERFORMANCE STANDARDS	EXPECTED STUDENT OUTCOMES	HOURS
Instruction will include:	Student will be able to:	
2. Interpersonal Skills <ul style="list-style-type: none"> ▪ Group dynamics ▪ Conflict resolution and negotiation ▪ Team work ▪ Etiquette across gender and cultural groups 	2. Understand principles of effective interpersonal skills, including group dynamics, conflict resolution, and negotiation. <ul style="list-style-type: none"> ▪ Identify and explain the key concepts of group dynamics ▪ Discuss and demonstrate the dynamics of conflict resolution and negotiation, and their importance within the business environment ▪ Demonstrate effective teamwork, share responsibilities, accept supervision and assume leadership roles ▪ Demonstrate cooperative working relationships and proper etiquette across gender and cultural groups 	Integrated in content area skills
3. Thinking and Problem-Solving Skills <ul style="list-style-type: none"> ▪ Critical and creative thinking skills ▪ Logical reasoning and problem-solving skills ▪ Numerical estimation, measurement, and calculation ▪ Identify, locate, and organize needed information and propose, evaluate, and select alternative solutions 	3. Understand the importance of critical thinking and problem-solving skills in the workplace. <ul style="list-style-type: none"> ▪ Apply critical and creative thinking skills in a work environment and implement a plan of improvement as needed ▪ Demonstrate logical reasoning and problem solving skills in a work environment ▪ Apply numerical estimation, measurement and calculation skills to business applications including the following: <ul style="list-style-type: none"> → Whole number math → Decimals & fractions → Counting & monetary functions → Use of tables & graphs ▪ Recognize problem situations; identify, locate and organize needed information, and propose, evaluate and select from alternate solutions 	Integrated in content area skills

CAREER PERFORMANCE STANDARDS	EXPECTED STUDENT OUTCOMES	HOURS
Instruction will include:	Student will be able to:	
4. Communication Skills <ul style="list-style-type: none"> ▪ Written communications ▪ Verbal and Nonverbal communications ▪ Active and effective listening ▪ Proper etiquette in business communications ▪ Writing and editing skills ▪ Use of reference material and handbooks ▪ Oral presentations 	4. Understand principles of effective communication. <ul style="list-style-type: none"> ▪ Read and implement written instructions, technical manuals, written communication, and reference books ▪ Present a positive image of verbal and nonverbal communication through use of appropriate methods ▪ Demonstrate active and effective listening skills through verbal, nonverbal and written feedback ▪ Demonstrate proper etiquette in business communications, including an awareness of requisite for international communications (languages, customs, and time zones) ▪ Demonstrate the following writing and editing skills: <ul style="list-style-type: none"> → Use correct grammar, punctuation, capitalization, vocabulary and spelling → Write, proofread and edit → Select and use appropriate forms of communication ▪ Exhibit a proficiency in the use of reference materials such as dictionary, thesaurus, telephone directory, almanac, zip code directory, and office handbooks 	Integrated in content area skills
5. Occupational Safety <ul style="list-style-type: none"> ▪ Good safety practices 	5. Understand occupational safety issues, including avoidance of physical hazards <ul style="list-style-type: none"> ▪ Model and implement good safety practices including: <ul style="list-style-type: none"> → Avoidance and reporting of physical hazards in the work environment → Safe operation of equipment → Proper handling of hazardous materials 	Integrated in content area skills

CAREER PERFORMANCE STANDARDS	EXPECTED STUDENT OUTCOMES	HOURS
<p>Instruction will include:</p> <p>6. Employment Literacy</p> <ul style="list-style-type: none"> ▪ Expand awareness of career opportunities ▪ Set employment goals and objectives ▪ Aptitudes, personal characteristics and interests ▪ Develop portfolio to C-TAP standards ▪ Develop interviewing techniques 	<p>Student will be able to:</p> <p>6. Understand career paths and strategies for obtaining employment.</p> <ul style="list-style-type: none"> ▪ Explore career opportunities and develop a career plan ▪ Identify steps for setting goals and writing personal goals and objectives ▪ Examine aptitudes related to career options; relate personal characteristics and interests to educational and occupational opportunities ▪ Develop a portfolio to include the following: <ul style="list-style-type: none"> → Letter of Introduction → Cover letter → Resume → Thank you letter → Job application → Licenses, Certificates and Awards → Transcripts → Letters of Recommendation → Work Samples 	<p>Integrated in content area skills</p>
<p>7. Technology Literacy</p> <ul style="list-style-type: none"> ▪ Apply Industry specific technology ▪ Use Industry specific software ▪ Demonstrate Keyboarding ▪ Accessing information ▪ Lifelong enhancement of technology skills 	<p>7. Understand and adapt to changing technology.</p> <ul style="list-style-type: none"> ▪ Identify and demonstrate use of appropriate technology ▪ Identify and use industry specific software ▪ Demonstrate proficiency in alphanumeric keyboarding ▪ Input and retrieve information ▪ Understand the importance of lifelong learning in adapting to changing technology 	<p>Integrated in content area skills</p>

10. ADDITIONAL RECOMMENDED /OPTIONAL ITEMS

a. ARTICULATION:

b. VOCATIONAL CREDIT:

c. ACADEMIC CREDIT:

d. INSTRUCTIONAL STRATEGIES:

e. INSTRUCTIONAL MATERIALS:

f. CERTIFICATES: