### Catalog No. Class Title Credit(s)

#### Term 1

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### About the Career

Operating a profitable and progressive dairy farm in today's agricultural climate involves learning to work smarter, not just harder. Successful operations are built on solid herdsperson skills, effective management skills, and use of technology. If dairy farming is your career dream, completing LTC's Dairy Herd Management program is the way to turn your dream into reality.

### Careers

- Herdsperson
- Dairy Herd Manager
- Farm Owner
- AI Technician
- DHIA Supervisor
- Feed and Nutrition Consultant

### Admissions Steps

- Application
- Application Fee
- Entrance Assessment Scores
- Transcripts
- Program Advising Session
- On-Farm Placement and Release Form

### Program Goals

You’ll learn to:

- Obtain actual on-farm experiences for your successful career path.
- Perform the necessary duties of a herdsperson in labs, internships, and at site farms. By the end of the program, you will be able to:
  - Milk cows
  - Feed and handle dairy cattle
  - Evaluate herd health and special needs cows
  - Care for youngstock and calf care
- Obtain herd manager skills necessary for operating a profitable dairy herd. By the end of the program, you will be able to:
  - Make treatment decisions
  - Implement problem solving skills
  - Develop interpersonal skills

### Other Program Expectations

You’ll need to:

- Stand and walk for long periods of time.
- Lift a minimum of 50 pounds.
- Have a valid driver’s license.
- Drive to dairy labs, internship farms, and site farms.

### Approximate Costs

- $107 per credit (resident)
- $158 per credit (out-of-state resident)
- Other fees vary by program (books, supplies, materials, tools, uniforms, health-related exams, etc.)

### Certification

Graduates of LTC’s Dairy Herd Management program receive national AI certification.

### Entrance Assessment Scores

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<th>Assessment Areas</th>
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### Functional Abilities

Functional abilities are the basic duties that a student must be able to perform with or without reasonable accommodations. At the postsecondary level, students must meet these requirements, and they cannot be modified.

Note: Program start dates available in both August and January. Curriculum and program acceptance requirements are subject to change.
Dairy Herd Management Skills
- This course provides students with skills to troubleshoot basic electrical applications, apply basic veterinary skills, acquire agronomy application knowledge, and communicate basic Spanish for farm operations.

Dairy Business Management
- This course prepares students to efficiently manage the business aspects of a dairy farm by analyzing financial records, tax management, farm analysis, loan applications, and credit as well as understand farm business arrangements and estate planning.

Agriculture Financial Applications
- This course prepares students to make decisions about the profitability of a total farm business, enterprises within the business and proposed changes in the business. Topics include financial strategies, determining payback on investments, analyzing purchasing decisions, managing accounts payable, determining cash flow, and comparison pricing.

Dairy Cattle Management
- This course introduces the student to herd health and preventative medicine through understanding cow behavior, signs of illness, metabolic disorders, infectious disease, vaccination programs, and herd records to develop and implement a herd-health protocol.

Dairy Management Internship 1
- This course provides the student with the ability to perform industry expectations as a dairy herdsman, including milking, feeding, calf care, scheduling, employer/employee communications, and general farm duties. Students work with their internship farm to complete the internship skills checklist.

Dairy Management Internship 2
- This course provides the student with the ability to perform industry expectations as a dairy herdsman, including milking, feeding, calf care, scheduling, employer/employee communications, and general farm duties. Students work with their internship farm to complete the internship skills checklist.

Dairy Feeding
- This course provides the student with knowledge of rumen anatomy and physiology to make fundamental feed choices in order to balance dairy rations. Main topics are nutrient digestion, uptake, transport, and testing and evaluation of feed for dairy cattle.

Dairy Feeding Management
- This course prepares the student to formulate rations for maximum profitability, develop feed inventories, and maximize resource allocation.

Dairy Lab I
- Provides the student with the opportunity to observe first-hand the management practices on dairy farms to include farm visits, freeze branding, clipping cattle, judging, and linear evaluating.

Dairy Lab II
- Provides the student with additional opportunities to observe first-hand the management practices on dairy farms to include farm visits, seminars, and conferences.

Dairy Housing and Farmstead Design
- This course expands the student's ability to make the necessary choices for efficient farmstead operation utilizing principles of ventilation, housing facilities, manure systems, and farm safety.

Dairy Cattle Industry and Applications
- This course prepares participants for the mating and breeding of the dairy herd. Topics include linear appraisal, selection indexes, anatomy, hormonal cycles, artificial insemination, and estrus detection. Live cattle for artificial insemination practice are featured.

Dairy Cattle Genetics and Reproduction
- This course provides the student with knowledge of basic dairy trends, agricultural policy, milk marketing, production testing, and breed history to make informed choices in the industry. It includes application of industry skills in a one-on-one rotation to selected site farms allowing troubleshooting and problem solving skill development.

Dairy Housing and Farmstead Design
- Expands the student's ability to make the necessary choices for efficient farmstead operation utilizing principles of ventilation, housing facilities, manure systems, and farm safety.

Communication Skills for the Workplace
- This course prepares the learner to select behavior modification techniques, demonstrate techniques for enhancing memory, analyze expressions of emotion, use conflict for common good, employ techniques to reduce conflict/frustration, use several methods to reduce stress, interpret personality types, ascertain contributors to perception, and apply methods of problem-solving.

Psychology for Life
- This course introduces the students to team-building skills to resolve organizational problems; introduces the student to the skills of effective listening; prepares the student to respond to workplace criticism and praise; and introduces the student to interpersonal relationship skills, including effective interviewing skills, customer relations, and management/employee relations.

Math for Agriculture Management
- This course is an introductory course in mathematics covering the math topics needed in the agricultural area. The principle areas of study are a review of basic mathematics, including fractions, decimals, ratio-proportion, percentage, measurement, plane figures, triangles, and circles and solids. Course material is learned through the use of agriculture-related problems.

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Dairy Production
- This course introduces the student to the process of how milk is made and how to harvest it for a maximum profit to the farmer, including the major principles of milk secretion, the anatomy and physiology of the udder, milk letdown, proper milking practices, mastitis, efficient milking systems, and how to properly milk cows as well as treat and prevent udder infections.

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