Dairy Herd Management
31-091-1 Technical Diploma

Program Overview
The Dairy Herd Management program will prepare you with practical experience and theory applications to meet the demands of operating a profitable and progressive dairy farm. Proper management skills, herdsperson traits, and continued use of new technologies are all keys in being competitive in today's markets. If you are serious about maintaining a career in Dairy Herd Management, this program is for you.

Special Feature
The program is designed for the learner to gain first-hand experience through internships. This will incorporate actual work experience in such areas as a dairy herdsperson, milking, feeding, calf care, general farm duties, scheduling, and employer/employee communications.

Student Profile
As a Dairy Herd Management student, you should be able to:
- Make judgments and decisions
- Get along well with people
- Exhibit safe working habits
- Communicate clearly and effectively
- Enjoy working in agricultural settings
- Work well with limited supervision
- Stand or walk for long periods of time
- Lift a minimum of 50 pounds

Preparation for Admission
The following will help you prepare for this program:
- Communication skills
- Basic problem-solving skills
- Basic computer skills
- General business concepts
- Applied math

Program Outcomes
Upon completion of this program, you will be able to:
- Obtain actual on-farm experiences for your successful career path
- Obtain herdsperson skills necessary for operating a profitable dairy herd
- Gain experience in interpersonal skills of management
- Work with agriculture professionals in a farm environment
- Perform the necessary duties of herd manager including milking, feeding, and handling of cattle; care of young stock and calves; herd health; and special cow needs

Career Outlook
Some available careers upon completion of this program are:
- AI Technician
- Dairy Herd Manager
- DHIA Supervisor
- Farm Owner
- Feed and Nutrition Consultant
- Herdsperson

Curriculum

<table>
<thead>
<tr>
<th>Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupational Specific Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>31091312</td>
<td>Dairy Feeding</td>
<td>3</td>
</tr>
<tr>
<td>31091314</td>
<td>Dairy Feeding Management</td>
<td>3</td>
</tr>
<tr>
<td>31091318</td>
<td>Dairy Lab 1</td>
<td>2</td>
</tr>
<tr>
<td>31091320</td>
<td>Dairy Lab 2</td>
<td>2</td>
</tr>
<tr>
<td>31091324</td>
<td>Milk Production</td>
<td>2</td>
</tr>
<tr>
<td>31091332</td>
<td>Dairy Cattle Industry</td>
<td>2</td>
</tr>
<tr>
<td>31091335</td>
<td>Dairy Cattle Genetics and Reproduction</td>
<td>4</td>
</tr>
<tr>
<td>31091340</td>
<td>Dairy Housing and Farmstead Design</td>
<td>2</td>
</tr>
<tr>
<td>31091344</td>
<td>Dairy Business Management</td>
<td>2</td>
</tr>
<tr>
<td>31091348</td>
<td>Dairy Cattle Management</td>
<td>2</td>
</tr>
<tr>
<td>31091360</td>
<td>Dairy Management Internship 1</td>
<td>2</td>
</tr>
<tr>
<td>31091361</td>
<td>Dairy Management Internship 2</td>
<td>2</td>
</tr>
</tbody>
</table>

| Occupational Supportive/ General Studies Courses |
| 32801361 | Applied Communications 1               | 2       |
| 32804373 | Math 373                               | 2       |
| 32809371 | Applied Human Relations                | 6       |

| PROGRAM REQUIREMENTS | 34 |

Offered at:
Rice Lake
Course Descriptions

31091312  
Dairy Feeding - Credits: 3  
Dairy Feeding provides the student with knowledge of ruminant anatomy and physiology to make fundamental feed choices in order to balance dairy rations.

31091314  
Dairy Feeding Management - Credits: 3  
This course prepares the learner to explain the functions of each organ in the digestive system of a ruminant; explain the development of the digestive system in a calf; compare ruminant and non-ruminant digestion; explain the functions of each class of nutrients; analyze forage analysis reports; prepare a balanced ration for different dairy animals; compare plant, animal, and non-protein nitrogen sources of protein; compare TDN to NDF Energy; identify deficiency symptoms of minerals and vitamins; demonstrate the use of particle separators and dry-matter tests; compare feed storage and utilize NRC standards for various cow groups.

31091318  
Dairy Lab 1 - Credits: 2  
This course prepares the learner to analyze cow housing facilities, analyze parlor designs, analyze young stock facilities, explain feed plant operations, assess bunker management techniques, compare grazing systems, analyze cheese plant operations, analyze biomass digestion, operate, compare digester systems and flush systems, and compare manure handling systems, design the farm for expansion, explain the center facilities and utility needs.

31091320  
Dairy Lab 2 - Credits: 2  
This course prepares the learner to compare animal bedding, compare manure handling systems, explain how methane digesters operate, compare alley scrapers and flush systems, perform tests for milk quality, clip cows, perform freeze branding, practice dairy cattle judging/linear breakdown, and compare hoof trimming methods.

31091324  
Milk Production - Credits: 2  
This course prepares the learner to explain the structure and function of the anatomy and physiology of the mammary system; analyze factors affecting the yield and composition of milk, explain the principles and practices of machine milking systems, develop an effective mastitis control program, and develop an effective dry-cow treatment program.

31091332  
Dairy Cattle Industry - Credits: 2  
This course prepares the learner to follow safety procedures, explain milk check pricing, analyze milk pricing variables, compare dairy career opportunities, assess professional dairy organizations, analyze the economics of on-farm dairy processing, analyze breed differences, evaluate breed organizations, summarize the benefits of good community relations, and utilize proper withholding practices.

31091335  
Dairy Cattle Genetics and Reproduction - Credits: 4  
This course prepares the learner to explain the economic aspect of dairy cow reproduction, explain the reproductive system of a bull, breed cows using artificial insemination, make effective mating decisions, select mating programs for milk production, assess reproductive diseases, treat reproductive diseases, utilize computer technology to document herd health, analyze the effects of hormones on reproduction, and analyze reproductive technologies.

31091340  
Dairy Housing and Farmstead Design - Credits: 2  
This course prepares the learner to select appropriate housing design for cows, assess housing for maternity and fresh cow needs, select appropriate designs for young stock, compare milking parlor design, select feed storage facilities, assess manure handling systems, design the farm for expansion, explain the causes and solutions for stray voltage, and design milking center facilities and utility needs.

31091344  
Dairy Business Management - Credits: 2  
This course prepares the learner to determine credit needs, select the appropriate type of business structure for an agribusiness, analyze financial records, analyze the strengths and weaknesses of a business, develop a strategy of income tax management, evaluate farm record systems, determine estate planning needs, and evaluate employee/employer relations.

31091348  
Dairy Cattle Management - Credits: 2  
This learning plan prepares the learner to diagnose common and infectious bovine diseases and their causes, follow fresh cow metabolic control program, practice biosecurity, develop protocols for a farm, develop calf and heifer management programs, practice proper veterinary drug use, develop a dairy herd health record-keeping system, and plan a vaccination program.

31091360  
Dairy Management Internship 1 - Credits: 2  
This course enhances the learner’s ability to keep farm records, analyze production programs, maintain milk quality, apply farm safety procedures, and analyze farm finances.

31091361  
Dairy Management Internship 2 - Credits: 2  
This course enhances the learner’s ability to maintain herd health, manage calves and heifers, analyze farm facilities and equipment, and manage crops.

Graduate Employment Information  
(WITC Graduate Survey Responses 2005-2006)

<table>
<thead>
<tr>
<th>Number of graduates</th>
<th>4</th>
<th>Number employed</th>
<th>4</th>
<th>% employed in WITC district</th>
<th>67%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of responses</td>
<td>4</td>
<td>Percent employed</td>
<td>100%</td>
<td>Range of yearly salary</td>
<td>-</td>
</tr>
<tr>
<td>Number available for employment</td>
<td>4</td>
<td>Employed in related field</td>
<td>3</td>
<td>Average yearly salary</td>
<td>$26,518</td>
</tr>
</tbody>
</table>

800.243.9482  witc.edu