COURSE OTH9903: DAIRY OPERATIONS AND CARE 33

Prerequisite: AGR3000: Agriculture Safety (Note: Students are required to complete the prerequisite course prior to enrollment in the first course of the Dairy Production Technician specialization.)

Description: Students demonstrate the ability to handle cattle, perform castration by elastrator, maintain cattle health, water cattle, perform safety practices, and demonstrate effective and appropriate employability skills.

Parameters: Each of the three courses that constitute the Dairy Production Technician specialization is designed to be delivered off-campus. The annual inspection and approval of the work station, and the monitoring, supervision and assessment of each student’s progress and performance must be done in accordance with the procedures specified in the Off-campus Education Handbook.

Prescribed General Outcomes: The student will:

- demonstrate the ability to:
  - care for newborn and weaner cattle
  - maintain calf-rearing facilities
  - dehorn calves
  - tag and tattoo cattle
- demonstrate the ability to perform castration by elastrator
- demonstrate the ability to maintain cattle health, including:
  - identify dairy cattle disorders and diseases
  - identify cattle abnormalities
  - treat cattle disorders and diseases
  - handle cattle medications
  - monitor the calving process
- water cattle
• demonstrate safe practices, including:
  – identify locations of and know how to operate fire extinguishers
  – perform emergency first aid
• demonstrate effective and appropriate employability skills

COURSE OTH9904: DAIRY PROCESSES AND PRACTICES 33

Prerequisite: AGR3000: Agriculture Safety (Note: Students are required to complete the prerequisite course prior to enrollment in the first course of the Dairy Production Technician specialization.)

Description: Students demonstrate the ability to handle livestock of all ages, operate milk-handling equipment, milk cows, operate milk sampling and recording equipment, read and interpret milk quality reports, maintain sanitation, demonstrate safe work skills and a positive attitude toward safety, and demonstrate effective and appropriate employability skills in a variety of workplace situations.

Parameters: Each of the three courses that constitute the Dairy Production Technician specialization is designed to be delivered off-campus. The annual inspection and approval of the work station, and the monitoring, supervision and assessment of each student’s progress and performance must be done in accordance with the procedures specified in the Off-campus Education Handbook.

Prescribed General Outcomes: The student will:
• demonstrate the ability to:
  – handle livestock of all ages
  – operate milk-handling equipment
  – milk cows
  – operate milk sampling and recording equipment
  – read and interpret milk quality reports
• demonstrate the ability to:
  – maintain sanitation
  – clean and sanitize milk-handling equipment
• maintain cattle health and breeding, including:
  – apply udder and teat treatment medications
  – recognize symptoms of mastitis and administer basic treatment
  – recognize and treat bloat
  – recognize milk fever symptoms and follow treatment protocol
  – detect heat/estrus
• demonstrate a positive attitude toward safety and safe work skills and habits, including:
  – perform safe personal work habits
  – care of farm equipment safety devices
• demonstrate effective and appropriate employability skills
COURSE OTH9905: DAIRY HUSBANDRY AND SYSTEMS 33

Prerequisite: AGR3000: Agriculture Safety (Note: Students are required to complete the prerequisite course prior to enrollment in the first course of the Dairy Production Technician specialization.)

Description: Students operate manure spreaders; maintain cattle health and breeding; feed the dairy herd; operate farm equipment; maintain fences and corrals, using fence-amending tools; select and use basic hand and shop tools correctly; and demonstrate effective and appropriate employability skills.

Parameters: Each of the three courses that constitute the Dairy Production Technician specialization is designed to be delivered off-campus. The annual inspection and approval of the work station, and the monitoring, supervision and assessment of each student’s progress and performance must be done in accordance with the procedures specified in the Off-campus Education Handbook.

Prescribed General Outcomes: The student will:

- maintain sanitation when operating manure spreaders in fields and on roads
- maintain cattle health and breeding, inspecting and monitoring physical facilities for proper environmental conditions
- feed the dairy herd, including:
  - operate the feeding system
  - carry out the feeding routine
- operate farm equipment, including:
  - operate and perform basic service on augers and conveyors
  - operate farm tractors in fields and on roads
  - demonstrate knowledge of road travel regulations
  - operate tractors with a front-end loader
  - operate and perform basic service on standby generators
  - operate portable feed milling and mixing equipment
  - maintain fences and corrals, using fence-amending tools
  - select and use basic hand and shop tools correctly
- demonstrate effective and appropriate employability skills