

# DAIRY NUTRITION FOR UDDER SUCCESS, CERT

*for the Graduate Certificate in Dairy Nutrition for Udder Success (online)*

The Dairy Nutrition for Udder Success Graduate Certificate will provide students with practical knowledge about dairy nutrition and management, and equip them with technical skills needed to optimize the health, nutrition, and milk quality of dairy livestock. Through a unique blend of theoretical knowledge, hands-on training, and cutting-edge technology applications, participants will demonstrate the skills to formulate a feed ration that meets dietary and production needs, use artificial intelligence to optimize animal health, and investigate milk composition and its nutritional impact. Graduates of this certificate will be able to create well-balanced diets that elevate the overall well-being and productivity of dairy herds.

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## Graduation Requirements

**Minimum Cumulative GPA:** 2.75

**Minimum hours required for certificate completion:** 12 hours

Students who have successfully completed this certificate may use the certificate courses to satisfy the following degree requirements, provided they apply and are admitted to the degree program:

12 hours of elective course requirements of the Animal Sciences, MANSC degree

The required courses for this certificate are listed below.

Code	Title	Hours
ANSC 500	Feeds in Dairy Nutrition and Diet Formulation	4
ANSC 501	Nutritional Impact on Cow Health and Disorders	4
ANSC 502	What is Milk and Milk Quality	4
<b>Total Hours</b>		<b>12</b>

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As a result of this program, students will be able to:

1. Identify most common feedstuffs based on physical appearance and chemical analysis and understand their role in a typical dairy ration.
2. Describe the basics of forage growth, harvest, ensilation, and storage connecting these principles to dairy nutrition.
3. Compare and contrast common cereal grains and oilseed meals used in dairy rations and understand key factors driving economic value of feedstuffs.
4. Describe common feed processing techniques and the nutritional value of resulting byproducts incorporated in dairy rations.
5. Formulate diets for dairy cows and young stock.
6. Use artificial intelligence to improve health and nutrition of dairy animals.

7. Identify, list, and explain the nutrients in milk and dietary nutrients that can foster improved milk quality in dairy herds.
8. Reliably demonstrate the ability to formulate a diet for dairy cows and understand its impact on health, fertility, and milk quality.

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