

DAIRY CATTLE PRODUCTION MANAGEMENT CERTIFICATE (24 CREDITS)

Successful certificate completion requires a minimum of 18 credits at the 300 (junior) or 400 (senior) level. Additionally, the certificate must include at least 9 unique credits that are not used to meet any other department, college, or university requirement. Unique credits can be used as elective credits.

Foundation Course (3 credits)		Credits
AN S 235	Dairy Cattle Science	3
Fundamental Disciplines (9 credits)		
AN S 320	Animal Feeds and Feeding	3
AN S 331	Domestic Animal Reproduction	3
AN S 337	Lactation	3
Expertise Expansion (3 Credits)		
AGRON 280	Crop Development, Production, and Management	3
AGRON 334	Forage Crop Management	3
AN S 333	Embryo Transfer and Related Technologies	3
AN S 335	Dairy Cattle Evaluation	3
AN S 345	Growth and Development of Domestic Animals	3
ANS 352	Genetic Improvement of Domestic Animals	3
ANS 419	Advanced Animal Nutrition	2
FS HN 407	Microbiological Safety of Foods of Animal Origins	3
MICRO 302	Biology of Microorganisms	3
TSM 327	Animal Production Systems	3
TSM 455	Feed Processing and Technology	3
TSM 457	Feed Safety, Ingredient Quality, and Analytics	3
Enterprise Management (3 credits)		
AGEDS 451	Agricultural Law	3
ECON 230	Farm Business Management	3
ECON 235	Introduction to Agricultural Markets	3
ECON 332	Cooperatives	3
ECON 334	Entrepreneurship in Agriculture	3
ECON 337	Agricultural Marketing	3
Dairy Cattle Production Emphasis (6 credits)		
AN S 434 OR AN S 435	Dairy Systems Management OR Applied Dairy Farm Evaluation	3
ANS 399A	Dairy Internship Experience	3