



DEPARTMENT OF  
**DAIRY SCIENCE**  
University of Wisconsin-Madison

**Priorities**

- Understanding and Improving the Biological Function of Dairy Cattle
- Developing Dairy Management Systems
- Delivering Accurate Scientific Information to the Dairy Industry
- Achieving International Excellence and Global Impact
- Preparing Tomorrow’s Leaders

**Disciplines**

Physiological Mechanisms	Nutritional Solutions	Quantitative Models	Management Strategies
<b>Projects</b>			
Maintaining Homeostasis in Early Lactation	Efficiency of Feed Utilization	Optimal Breeding and Replacement Policies	Nutritional Grouping of Lactating Cows
Hormonal Regulation of Pregnancy	Digestibility of Nutrients	Genomic Selection using DNA Markers	Timed Artificial Insemination Programs
Early Postpartum Energy Needs	Analysis of Grains and Forages	User-Friendly Decision Support Tools	Group Housing of Young Calves
Gene Expression and Regulation	Productivity of Pastures	Implementation of New Technologies	Limit Feeding of Growing Heifers
Microbiology of Infectious Diseases	Effectiveness of Ration Supplements	Reducing Greenhouse Gas Emissions	Optimizing Milking Routines