

DAIRY INDUSTRIES MINOR

Offered at: San Luis Obispo Campus

The purpose of this science-based minor is to help students from other disciplines gain a basic understanding of the terminology and practices used within the two segments of the dairy industry. Two specialization areas are available within the Dairy Industries minor: Dairy Husbandry and Dairy Foods. Students may choose to pursue either specialization. After completion of the minor, students should have a basic understanding of cattle, dairy nutrition, milk production and management or dairy food processing, food quality, and regulatory control. Prospective students should understand that completion of a basic level of introductory biology, chemistry, and statistics is assumed for this minor. In addition, some upper-division courses may also require microbiology, organic/biochemistry, and/or anatomy and physiology. Not open to Dairy Science Majors.

Program Learning Objectives

1. Demonstrate basic technical competency within the disciplines of dairy science (Dairy Husbandry and Dairy Products Technology).
2. Describe current and emerging issues faced by the dairy industries.
3. Demonstrate effective communication and critical thinking skills.
4. Relate ethical, social, and professional responsibilities as dairy scientists to addressing challenges in the rapidly changing environment.

Minor Requirements and Curriculum

The minor must be completed prior to, or at the same time as, the requirements for the bachelor's degree. A major and a minor may not be taken in the same degree program, and a minor is not required for a degree. Requirements for the minor include:

- At least half of the units must be from upper-division courses (3000-4000 level).
- At least half of the units must be taken at Cal Poly (in residence).
- No more than one-third of the units will be taken with credit-no credit grading (CR/NC), not counting courses with mandatory CR/NC. Departments may further limit CR/NC grading if desired.
- A minimum 2.0 GPA is required in all units counted for completion of the minor.

Code	Title	Units
REQUIRED COURSES		
DSCI 2229	General Dairy Manufacturing	4
DSCI 2230	General Dairy Husbandry	3
Approved Electives		
Select from the following:		11
ASCI 1101	Principles of Animal Physiology	
ASCI 2004	Dairy Calving Enterprise	
ASCI 2005	Dairy Fit and Show Enterprise	
ASCI 2006	Dairy Herd Evaluation Enterprise	
ASCI 2007	Dairy Products Evaluation Enterprise	
ASCI 2220	Animal Nutrition and Feeding	
ASCI 2229	Anatomy and Physiology of Farm Animals	
ASCI 3302	Animal Genetics	
ASCI 3340	Animal Welfare and Ethics	
ASCI 3355	Ruminant Nutrition	
BIO 1151	Life: Molecules and Cells	
CHEM 1120	Fundamentals of Chemical Structure and Properties	
DSCI 2202	Dairy Promotion and Marketing	
DSCI 2270	Special Topics	
or DSCI 4470	Special Advanced Topics	
DSCI 3321	Lactation Physiology	
DSCI 3330	Dairy Cattle Reproductive Management and Artificial Insemination	
DSCI 3344	Dairy Microbiology	
DSCI 3388	Dairy Farmstead Operations: Cow to Cheddar	
DSCI 4401	Physical and Chemical Properties of Dairy Products	
DSCI 4402	Quality Assurance and Control of Dairy Products	
DSCI 4410	Dairy Nutrition	

DSCI 4412	Dairy Farm Consultation
DSCI 4422	Breeding and Genetics of Dairy Cattle
DSCI 4432	Advanced Dairy Herd Management
STAT 1110	Applied Statistical Concepts and Methods
Total Units	