Any student enrolled in a UW–Madison doctoral program can pursue a doctoral minor in Dairy Science. The doctoral minor offers substantial and systematic training in the field of dairy science and can be tailored to a student's specific interests. A doctoral minor in Dairy Science is an excellent way to gain training and understanding in specific research areas and disciplines related to dairy science that can be applied to one's research field and to one's teaching.

**ADMISSIONS**

1. Doctoral students who wish to pursue an Option A external minor in Dairy Science should consult the graduate coordinator or chair of the Graduate Committee.
2. A Dairy Science faculty member with primary Animal and Dairy Sciences departmental appointment should be assigned as the minor program advisor. See #4.
3. A Minor program of study should be developed with and approved by the minor program advisor and the student's major professor, early in the student's graduate work. The proposed program must be submitted and approved upon or before, the completion of 6 credits. See Doctoral Minor Program of Study Form.
4. When courses are complete, the Minor Program of Study form for the doctoral minor should be signed by the graduate student's advisor and the chair of the Graduate Committee. The form should be submitted to the graduate coordinator at the time of the student's preliminary exam. The graduate coordinator will send notification to the Graduate School of completion of the doctoral minor.

**Dairy Science Primary Faculty Eligible to be Doctoral Minor Advisor:**
Sebastian I Arriola Apelo, Victor Cabrera, Dave Combs, Paul Fricke, Laura Hernandez, Randy Shaver, Jennifer Van Os, Michel Wattiaux, Kent Weigel, Heather White, Milo Wiltbank

**REQUIREMENTS**

The student must achieve a 3.00 GPA in courses used to satisfy the minor requirement. Directed study courses do not count toward the minor nor do audits or pass/fail courses. A student may earn a doctoral minor in Dairy Science with 9 credits, if all 9 credits are in graduate-level courses pre-approved by the department.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DY SCI/AN SCI 414</td>
<td>Ruminant Nutrition &amp; Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>DY SCI/AN SCI 434</td>
<td>Reproductive Physiology</td>
<td>3</td>
</tr>
<tr>
<td>DY SCI 534</td>
<td>Reproductive Management of Dairy Cattle</td>
<td>3</td>
</tr>
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<td>DY SCI 535</td>
<td>Dairy Farm Management Practicum</td>
<td>3</td>
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<td>DY SCI/AN SCI 824</td>
<td>Ruminant Nutritional Physiology I</td>
<td>4</td>
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<td>DY SCI/AN SCI 825</td>
<td>Ruminant Nutritional Physiology II</td>
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<tr>
<td>DY SCI 875</td>
<td>Special Topics ¹</td>
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¹ Topic options:
- Advanced Topics in Reproductive Physiology—3 credits
- International Teaching in Science & Engineering—2 credits
- Lactation Physiology—3 credits

**ANIMAL AND DAIRY SCIENCES DEPARTMENT**

**Professors**
Weigel (Chair), Khatib (Associate Chair), Cabrera, Claus, Crenshaw, Fricke, Kirkpatrick, Parrish, Reed, Richards, Ricke, Rosa, Sindelar, Wattiaux, Wiltbank

**Associate Professors**
Hernandez, White

**Assistant Professors**
Adcock, Arriola Apelo, Dorea, Ferraretto, Guo, Laporta, Leone, Peñagaricano, Shanmuganayagam, Van Os

**Instructors/Lecturers**
Halbach, Kean, O'Rourke, Ronk, Williams

**Student Services Coordinator**
Liv Sandberg

**Graduate Coordinator**
Megan Sippel