Why Wisconsin?
Top Ranked University
University of Wisconsin-Madison: **In the rankings...**

1. Happiest College Students (2013 Unigo College Rankings)
3. Best College Football Town in America (2012 USA Today)
4. Top Producers of Fortune 500 CEO’s (2013)
5. Producing Peace Corp Volunteers (2014)
9. Among all universities worldwide (2014 Center for World University Rankings)
Admissions are Competitive

Academics Matter Most

- High school rank (84th - 97th percentile*)
- ACT or SAT scores (27-31 ACT Composite*)
- GPA in core academic courses (Math, Science & English); no minimum (3.7-4.0 GPA*) Target freshmen enrollment = 6,300 students

*Middle half range for Fall 2012 freshmen

Goal: 75% in-state (WI & MN residents)

- Approximately 66% are WI residents

Campus diversity is considered.

CALS Production Ag Major Admission Initiative

Admission Decisions:
admit, postpone, deny

APPLICATION DEADLINES

<table>
<thead>
<tr>
<th></th>
<th>Deadline</th>
<th>Notification</th>
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<tbody>
<tr>
<td>First Fall Notification</td>
<td>November 3</td>
<td>By the end of January</td>
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<tr>
<td>Second Fall Notification</td>
<td>February 2</td>
<td>By the end of March</td>
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<tr>
<td>Spring Term</td>
<td>October 1</td>
<td>By the end of December</td>
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Comparing Retention and Graduation

![Bar chart comparing retention and graduation rates for various universities.](image-url)
## Tuition, Fees, and Expenses for 2014-2015

<table>
<thead>
<tr>
<th></th>
<th>Wisconsin Resident</th>
<th>Minnesota Resident</th>
<th>Out-of-State/International</th>
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</thead>
<tbody>
<tr>
<td>Tuition &amp; Fees</td>
<td>$10,410</td>
<td>$13,196</td>
<td>$26,660</td>
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<tr>
<td>Room &amp; Board</td>
<td>$8,600</td>
<td>$8,600</td>
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<tr>
<td>Books &amp; Supplies</td>
<td>$1,200</td>
<td>$1,200</td>
<td>$1,200</td>
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<td><strong>Total</strong></td>
<td><strong>$20,210</strong></td>
<td><strong>$22,996</strong></td>
<td><strong>$36,460</strong></td>
</tr>
</tbody>
</table>
All Applicants: Complete the Free Application for Federal Student Aid (FAFSA),

- available online at www.fafsa.ed.gov or from the UW Office of Student Financial Services as soon after January 1 as possible

61% of UW-Madison students receive some assistance
36% of enrolled freshmen received grant aid
Over $1,000,000 available in CALS

$140,000 awarded by Dairy Science

Incoming Dairy Science freshmen who applied for Fall 2014-’15 scholarships ranged from $1,000 to $10,000

One common application found at scholarships.wisc.edu

APPLICATION DEADLINE: February 3rd!
In the Heart of the Dairyland
Employment Opportunities

- Wisconsin’s dairy industry contributes $43.4 billion to our economy each year and employs more than 78,900 people.
- Each of Wisconsin’s 1.27 million dairy cows generates $34,000 in annual economic activity.

Placement of Dairy Science BS grads ~100%:

- Median starting salary = $50,000
- Employment breakdown (roughly):
  - 30% graduate or professional school
  - 40% dairy industry (technical support, sales)
  - 30% farm management/ownership
What Fields Our Students Go Into

Industry demand for dairy science grads is greater than supply

- Veterinary medicine
- Animal nutrition and consulting
- Livestock reproduction
- Dairy Genetics and breed associations
- Dairy Herd Management
- Laboratory research
- Information technology
- Agricultural Extension
- Sales, marketing and international business
- Agricultural Communications
Dairy Science Degree Program

Areas of specialization

- Pre-Vet or Research
- Agri-Business
- Dairy Operation Management
Dairy Science Degree Program

Requirements for Dairy Science Majors
All students take these core courses

- 101 Livestock Production
- 233 Dairy Herd Management I
- 234 Dairy Herd Management II
- 305 Lactation Physiology
- 311 Comparative Animal Nutrition
- 313 Animal Feeds and Diet Formulation
- 361 Introduction to Animal and Veterinary Genetics
- 362 Veterinary Genetics or
- 363 Principles of Animal Breeding
- 373 Animal Physiology
- 414 Ruminant Nutrition
- 434 Reproductive Physiology
- 535 Dairy Farm Management Practicum
Dairy Science Degree Program

All Dairy Science Majors Select 3 Credits From This List of Elective Courses

- 205 Dairy Cattle Selection
- 272 Pre-Capstone Seminar
- 299 Independent Study
- 320 Animal Health and Disease Management
- 370 Livestock Production and Health in Agricultural Development
- 375 Managed Grazing Field Study
- 375 Ag in Emerging Economies: Dairying in Mexico
- 375 Mexico Study Tour & Seminar
- 375 Reproductive Management of Dairy Cattle
- 375 Intercollegiate Dairy Cattle Judging Competitions
- 375 Intercollegiate Dairy Challenge Competitions
- 375 Food Systems Sustainability and Climate Change
Dairy Science Degree Program

Requirements for Dairy Science Major

Student and advisor pick from list of recommended elective (advanced) courses in:

- Biological sciences
- Business management
- Communication/marketing
- Environmental science
- Food science
- Foreign languages
Dairy Science Degree Program

✓ Simple for student and advisor
✓ Tailor a set of courses to each student’s needs and interests
✓ Change specialization without extending time to graduation
✓ Easy to double-major, even outside of CALS
High Impact Practices

**Capstone Learning**
- Work with others
- Incorporate research
- Involve problem solving

**Required Internships**
- Gain “Real World” experiences
- Learn effective communication
- Network with future employers
High Impact Practices

**Faculty Staff Advisors**

- Academic and career planning
- Qualified to speak about dairy
- Future reference

**International Experiences**

- Think about your values & identity
- Gain a global perspective
- Exposure to different dairy systems
Animal Nutrition

Research
- Fatty acids
- Feed efficiency

Instruction
- 311 (animal nutrition)
- 690 (senior seminar)

Lou Armentano
Professor

Michel Wattiaux
Professor

Randy Shaver
Professor

Dave Combs
Professor

Heather White
Asst Professor

Research
- Dairy systems
- GHG emissions

Instruction
- 375 (dairy Mexico)
- 468 (environment)
- 414 (nutrition)

Research
- Corn silage
- Starch digestibility
- Nutrition-health interactions

Extension
- Controlling feed costs
- Forage quality

Research
- Pasture mgmt
- Fiber digestibility

Instruction
- 101 (livestock production)
- 535 (capstone)
- FISC

Research
- Energy and lipid metabolism
- Nutritional demands of transition cows

Instruction
- 313 (animal nutrition)
- 875 (ruminant nutrition)
Animal Physiology

Milo Wiltbank
Professor

Research
- Follicle growth and ovulation
- Hormonal control of fertility

Instruction
- 375 (repro)
- 535 (capstone)
- FISC
- 373 (physiology)

Paul Fricke
Professor

Research
- Early pregnancy detection
- Hormonal synchronization of estrus

Extension
- Reproductive mgmt programs
- Estrus detection systems

Pam Ruegg
Professor

Research
- Mastitis control and treatment
- Antimicrobial resistance

Extension
- Milk quality
- Animal health
- Organic dairies

Laura Hernandez
Asst Professor

Research
- Serotonin in the mammary gland
- Calcium mobilization and milk fever

Instruction
- 305 (lactation)
- Biology 152
- 373 (physiology)
Animal Genetics & Management

Kent Weigel
Professor & Chair

Research
- Genomic selection
- Low-density chips

Instruction
- 690 (senior sem.)
- FISC

Extension
- Genomics
- Selection for health and fertility

Daniel Gianola
Professor

Research
- Statistical genetics
- Genomic selection
- Machine learning algorithms

Instruction
- Graduate level genetics courses

Victor Cabrera
Asst Professor

Research
- Optimization and decision-support systems
- Risk management

Extension
- Economic decision-making
- Management of feed resources and repro programs

Amy Stanton
Asst Professor

Research
- Animal health, behavior, and well-being
- Calf management

Extension
- Animal care and welfare
- Calf rearing
Professional Academic Staff

Jerry Guenther
Research Program Manager
- Research
  - Dairy Reproduction
- Instruction
  - Dairy Reproduction
  - FISC dairy reproduction
  - FISC dairy records
  - 375 (reproduction management)

Ted Halbach
Dairy Management Instructor
- Instruction
  - 233 & 234 (dairy herd management)
  - 205 (dairy selection)
  - FISC dairy evaluation
- Dairy Challenge
- Dept. Marketing and Recruiting

Beth Heinze
Dairy Youth Specialist
- Extension
  - Youth Programming

Mike Peters
Herd Manager
- Instruction
  - 299 (Independent Study)
Faculty Productivity

- Among 63 animal sciences departments nationwide:
  - #13 in journal articles per faculty member
  - #2 in awards per faculty member
  - #8 in citations per faculty member
  - #12 in grants per faculty member
  - #4 in overall Faculty Scholarly Productivity Index (95th percentile)
State of the Art Dairy Facilities
Campus Dairy Cattle Center

- Cattle areas (stalls, silos, parlor, arena) remodeled in March 2013
- Human areas (classroom/lab, locker rooms, learning center) to be remodeled in 2015
- Used heavily by CALS, Vet Med, and FISC

Arlington Blaine Dairy

- State-of-the-art research facility for 500 lactating cows

Marshfield Agricultural Research Station

- Unique research facility for 550 growing heifers
- Studying the impact of dairy on soil, air and water quality
Campus Experience
Living Community Opportunities

- Residence Halls
- Alpha Gamma Rho
- Association of Women in Agriculture
- Babcock House
- Delta Theta Sigma
Part Time Employment

Over 40 student positions are available in Dairy Science

- Dairy Herds
- Research Laboratories
- Administrative Offices
Get Involved!
On-Campus Extracurricular Activities

- Intramural sports
- Attend UW Athletics
- Badger Dairy Club
- Collegiate FFA
- Horticulture Club
- Alpha Gamma Rho

- CALS Student Council
- Dairy Judging Team
- Dairy Challenge Team
- Campus Lectures
- Movies
Comments from our students...

Here is what some recent grads said about their experiences at UW-Madison majoring in Dairy Science:

- “I’ve really enjoyed all the opportunities for travel throughout college whether that was through Badger Dairy Club, dairy judging, or for an internship.”

- “My most memorable college experience was being part of the National Dairy Challenge Team that won first place Platinum at Syracuse, New York.”

- “When it came down to a great dairy program and the Big Ten atmosphere, there was no other choice for me.”

- “I wouldn’t think twice about doing it again. It’s been a great experience.”
How You Will Grow...

Perceptions of Learning Gains, 2012-13 Bachelor's Graduates
"How able were/are you to ..."

- Communicate in a language other than English
- Appreciate the arts such as literature, music, and fine arts
- Understand cultures and societies outside of the United States
- Contribute to the welfare of others
- Understand culture and society within the United States
- Speak Effectively
- Work collaboratively in groups
- Lead others effectively
- Understand that science is relevant to everyday life
- Apply skills and knowledge of your chosen major(s)
- Find, organize, and evaluate information from multiple sources
- Draw conclusions after weighing evidence, facts, and ideas
- Develop a personal code of ethics and values
- Empathize w/ind. differences based on culture, ethnicity, disability or sexual orientation
- Write Effectively
- Apply knowledge and skills in real world settings
- Use computers and electronic technology

Scale:
5 - Extremely
4 - Very
3 - Somewhat
2 - A Little
1 - Not at all
Visit UW on the web at...

**UW-Madison’s homepage**
http://www.wisc.edu

**The College of Agricultural and Life Sciences**
http://www.cals.wisc.edu

**UW-Madison Dairy Science**
http://www.wisc.edu/dyisci/
Mooving Forward.
DAIRY SCIENCE AT WISCONSIN

Questions?