



DEPARTMENT OF
DAIRY SCIENCE
University of Wisconsin-Madison





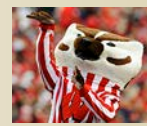
Why Wisconsin?



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Top Ranked University





University of Wisconsin-Madison

In the rankings:

- #**4** Total research expenditures among U.S. public universities (2012)
- #**1** Best College Football Town in America (2012 USA Today)
- #**4** Top Producers of Fortune 500 CEO's (2011)
- #**6** Number of doctorates granted among public universities (2010)
- #**1** Happiest College Students (2013 Unigo College Rankings)
- #**3** Producing Peace Corp Volunteers (2013)
- #**4** Patents among U.S. universities (2011)
- #**8** 100 best values in public colleges (2013 Kiplingers)
- #**10** America's Best Colleges among public universities (2013 U.S. News)





Admissions are Competitive

Academics Matter Most

- High school rank (85th - 96th percentile*)
- ACT or SAT scores (27-30 ACT Composite*)
- GPA in core academic courses (Math, Science & English); no minimum (3.5-3.9 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

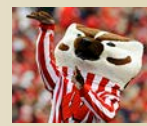
Campus diversity is considered.

CALS Production Ag Major Admission Initiative

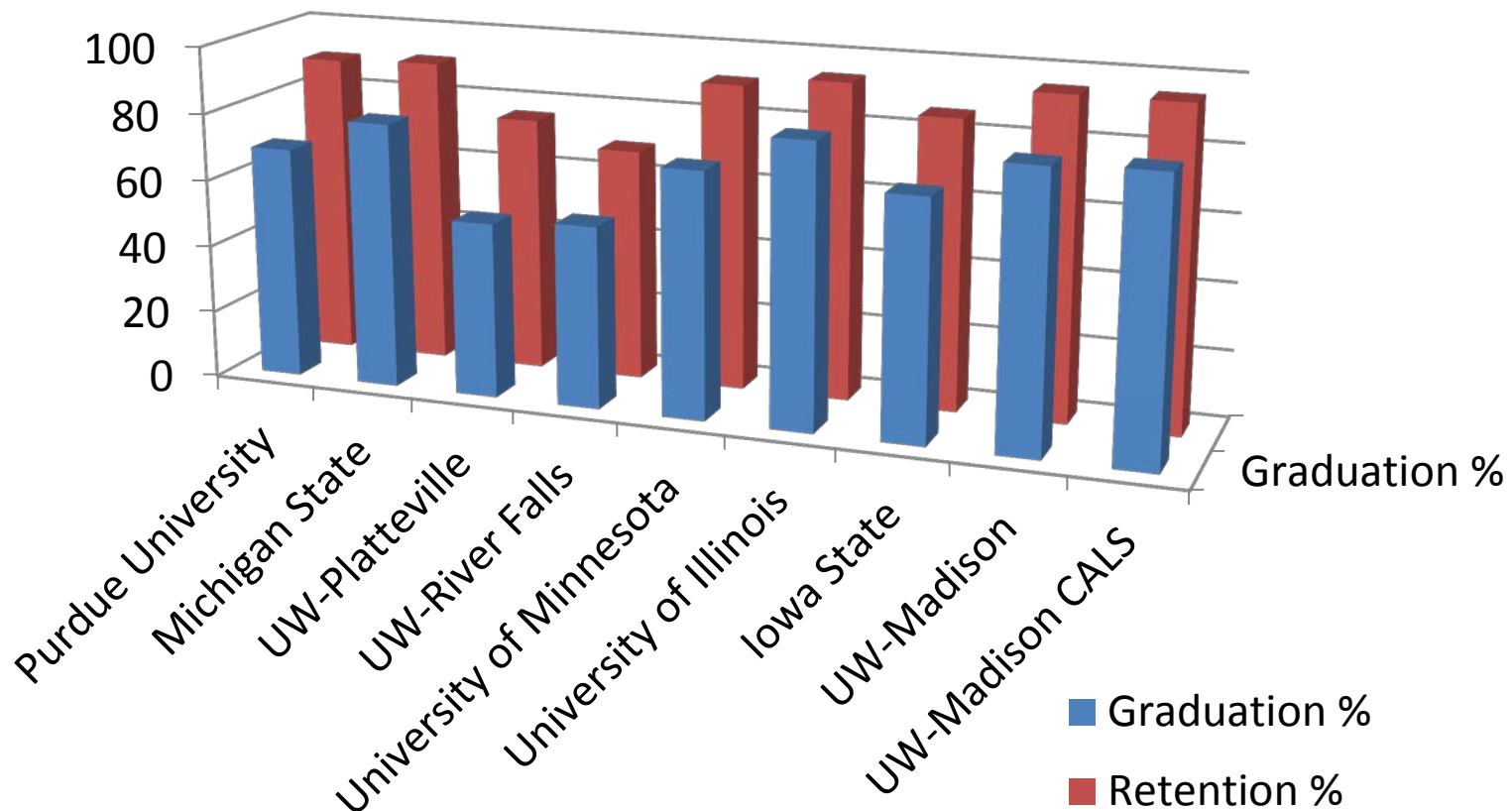
Admission Decisions:

admit, postpone, deny





Comparing Retention and Graduation





Tuition, Fees, and Expenses for 2013-2014

	Wisconsin Resident	Minnesota Resident	Out-of-State/ International
Tuition & Fees	\$10,402	\$13,190	\$26,652
Room & Board	\$8,354	\$8,354	\$8,354
Books & Supplies	\$1,200	\$1,200	\$1,200
Total	\$19,956	\$22,744	\$36,206



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UNIVERSITY OF WISCONSIN-MADISON

Office of Student Financial Aid

Grants, loans, and student employment

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PROSPECTIVE UNDERGRADUATES

CURRENT UNDERGRADUATES

GRADUATE AND PROFESSIONAL

PARENTS

62% of UW-Madison students receive some assistance

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

The University of Wisconsin-Madison is located about a mile away from the State's beautiful capitol.



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Scholarships@UW-Madison

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SCHOLARSHIPS LIST

SCHOLARSHIPS 101

FAQ

OTHER RESOURCES

CONTACT INFO

Over \$860,000 available in CALS

\$140,000 awarded by Dairy Science

Incoming Dairy Science freshmen who applied for Fall 2013-'14 scholarships ranged from **\$1,000** to **\$10,000**

One common application found at **scholarships.wisc.edu**

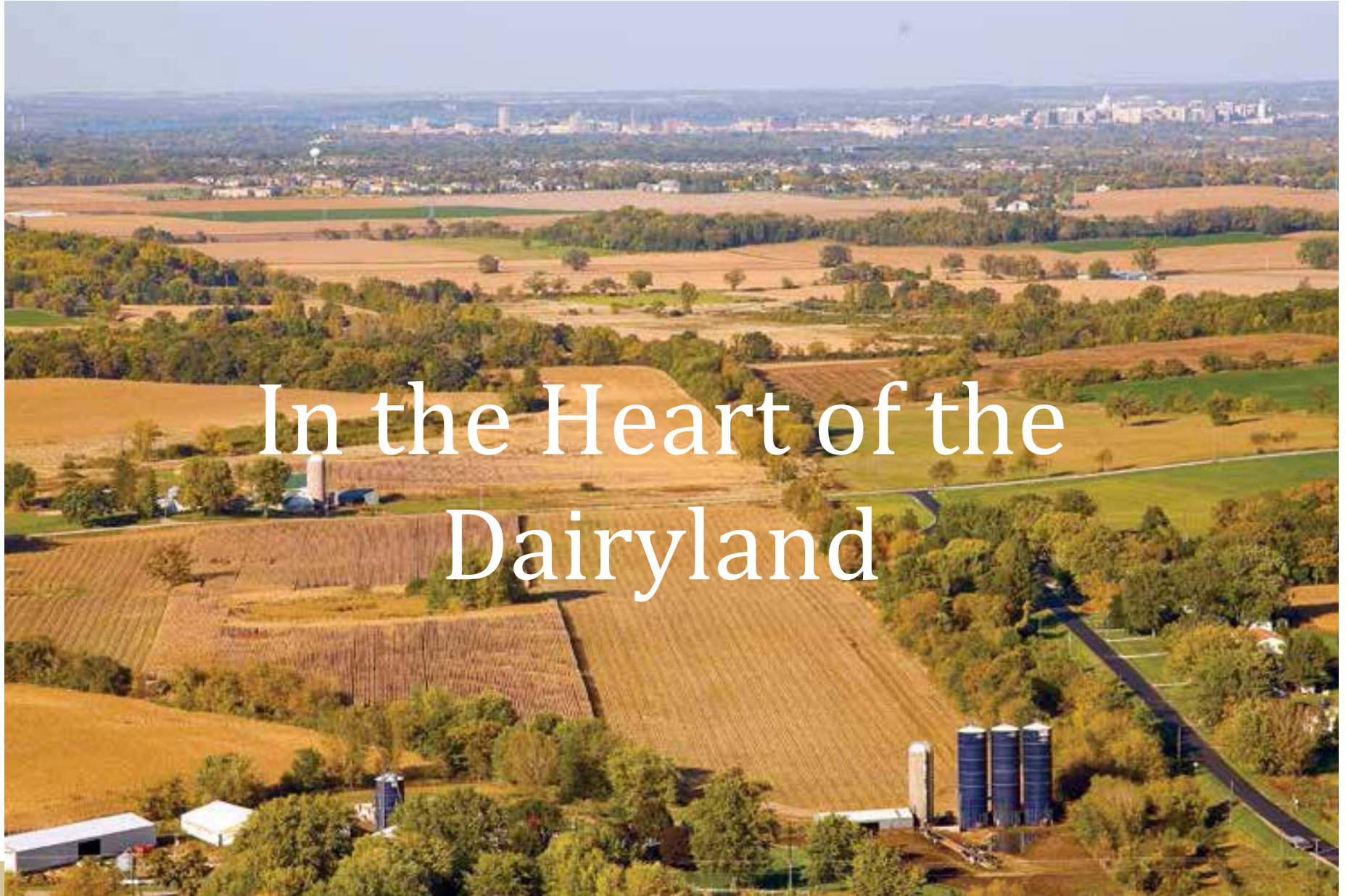
APPLICATION DEADLINE:

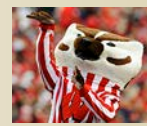
February 5th!



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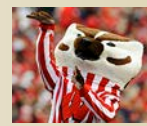
In the Heart of the Dairyland





Employment Opportunities

- Wisconsin's dairy industry contributes \$26.5 billion to our economy each year and employs more than 146,000 people
- Each of Wisconsin's 1.26 million dairy cows generates \$21,000 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**

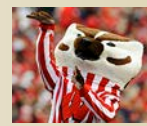
- Veterinary medicine
- Animal nutrition and consulting
- Livestock reproduction
- Dairy Genetics and breed associations
- Dairy Herd Management
- Laboratory research
- Information technology
- Agricultural Extension
- Sales, marketing and international business
- Agricultural Communications



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Dairy Science Lives Here!





Undergraduate Program

Areas of specialization

- Pre-Vet or Research
- Agri-Business
- Dairy Operation Management
- Cross-Disciplinary

High-impact practices

- Internships
- International experiences
- Capstone courses
- Faculty Advisors

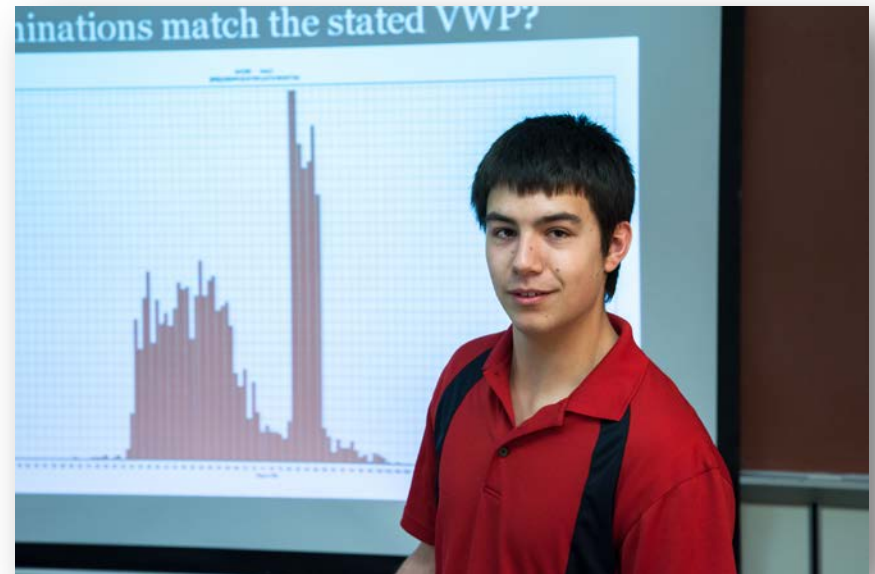




Dairy Science Degree Program

Requirements for Dairy Science Majors

- ✓ *All students take same set of core courses*
 - ✓ *Ruminant nutrition*
 - ✓ *Lactation physiology*
 - ✓ *Reproductive physiology*
 - ✓ *Genetics*
 - ✓ *Herd management*





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*



Capstone and Internship Experiences

Capstone Learning

- Work with others
- Incorporate research
- Involve problem solving
- Plan ahead



Internships are required in dairy science

- Gain “Real World” experiences
- Learn effective communication
- Network with future employers
- Build your resume





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World Class Faculty



Animal Nutrition



Lou Armentano
Professor

- **Research**
 - Fatty acids
 - Feed efficiency
- **Instruction**
 - 311, 313 (nutrition)
 - 690 (senior seminar)



Michel Wattiaux
Professor

- **Research**
 - Dairy systems
 - GHG emissions
- **Instruction**
 - 302 (husbandry)
 - 375 (dairy Mexico)
 - 468 (environment)
 - 414 (nutrition)



Randy Shaver
Professor

- **Research**
 - Corn silage
 - Starch digestibility
 - Nutrition-health interactions
- **Extension**
 - Controlling feed costs
 - Forage quality



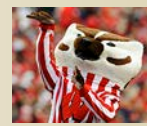
Dave Combs
Professor

- **Research**
 - Pasture mgmt
 - Fiber digestibility
- **Instruction**
 - 101 (livestock production)
 - 535 (capstone)
 - FISC



Heather White
Asst Professor

- **Research**
 - Energy and lipid metabolism
 - Nutritional demands of transition cows
- **Instruction**
 - 311/313 (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
 - Biology 152



Paul Fricke
Professor

- **Research**
 - Early pregnancy detection
 - Hormonal synchronization of estrus
- **Extension**
 - Reproductive mgmt programs
 - Estrus detection systems



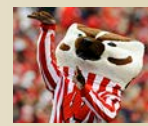
Pam Ruegg
Professor

- **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



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



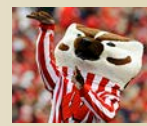
Victor Cabrera
Asst Professor

- **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**
 - FISC dairy reproduction
 - FISC dairy records
 - 375 (reproduction management)



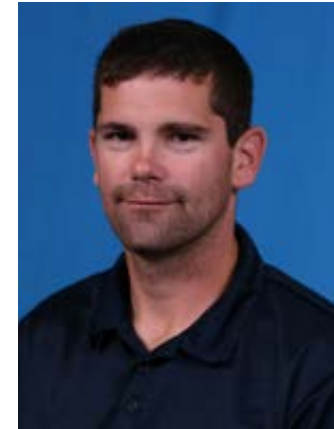
Ted Halbach
Dairy Management
Instructor

- **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



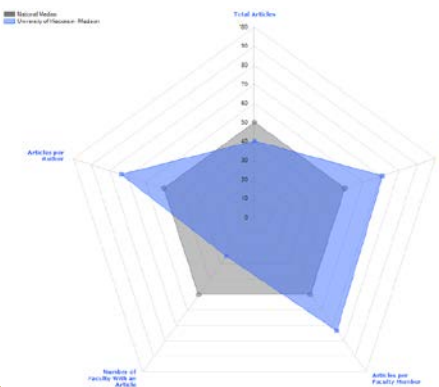
Mike Peters
Herd Manager

- **Instruction**
 - 299 (Independent Study)

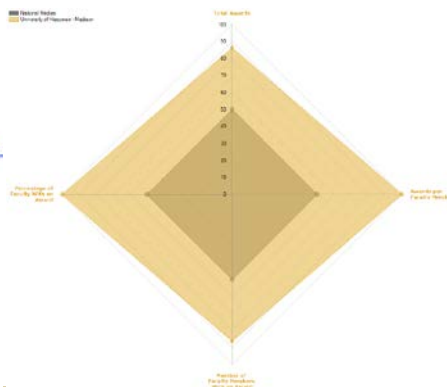


Faculty Productivity

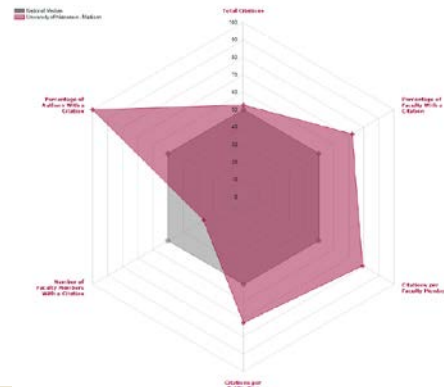
- Among 63 animal sciences departments nationwide:
 - #13 in journal articles per faculty member
 - #2 in awards per faculty member
 - #8 in citations per faculty member
 - #12 in grants per faculty member
- #4 in overall Faculty Scholarly Productivity Index (95th percentile)



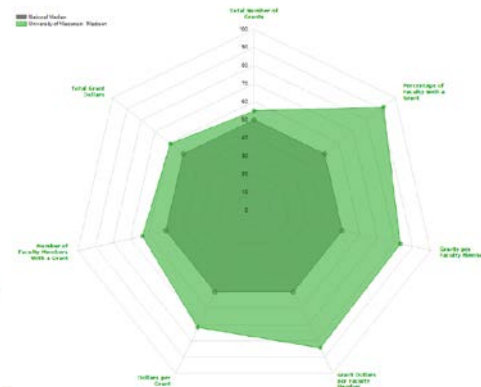
Articles



Awards



Citations



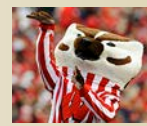
Grants



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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 2014
- 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



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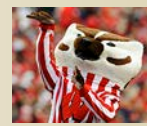
Campus Experience



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."



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Visit UW on the web at...

UW-Madison's homepage

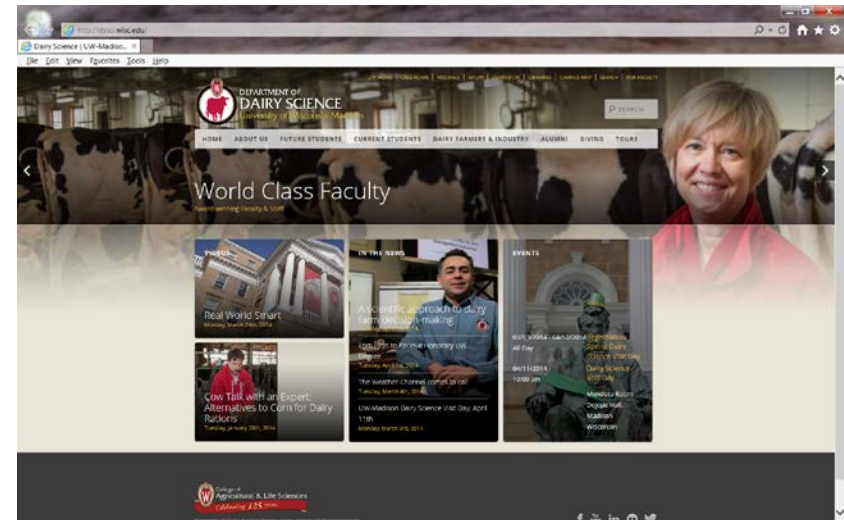
<http://www.wisc.edu>

The College of Agricultural and Life Sciences

<http://www.cals.wisc.edu>

UW-Madison Dairy Science

<http://www.wisc.edu/dysci/>





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Mooving Forward.

DAIRY SCIENCE AT WISCONSIN

Questions?