

# ANIMAL SCIENCE

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**Webpages:** <https://www.uwplatt.edu/department/animal-science> (<https://www.uwplatt.edu/department/animal-science/>) and <https://www.uwplatt.edu/department/dairy-science> (<https://www.uwplatt.edu/department/dairy-science/>)

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## MISSION STATEMENT

The Animal Science and Dairy Science majors will prepare graduates who value and use critical thinking, communication and social skills through liberal arts and science-based technology education. They will contribute to the success and profitability of vocations involved in animal care, welfare and production of high quality animal-derived food and medicine for national and international consumption. Graduates will also acquire skills that will guide them in designing and applying a synergy of animal production and land use with lasting environmental stability.

Animal Science and Dairy Science offer two options, a major with a university minor or a major with an emphasis.

## GOALS

Graduates of the Animal Science program, with an Animal Science or Dairy Science major, will be:

### 1. CONSCIOUS OF AND RESPONSIVE TO THE ISSUES INVOLVED WITH CARE, WELFARE AND HEALTH OF ANIMALS.

#### OUTCOMES :

- Students can recognize the importance of producing food safely.
- Students are aware of various perspectives of animal health, welfare and biosecurity.

### 2. ABLE TO UNDERSTAND THE BASIC FORM, STRUCTURE, AND FUNCTION OF DOMESTIC ANIMALS.

#### OUTCOMES :

- Students can identify & explain the anatomy of digestive, reproductive, and other domestic animal systems.
- Students can demonstrate how physiological systems relate directly to production of food animals.
- Students can integrate and apply basic sciences (chemistry, biology, and math) to animal science concepts.
- Students can evaluate genetic concepts and breeding strategies available for genetic improvement.

### 3. ABLE TO IDENTIFY PROCESSES OF INTEGRATED MANAGEMENT TO OPTIMIZE THE USE OF AVAILABLE RESOURCES PARTICULARLY TO ENHANCE SUSTAINABLE AGRICULTURAL AND ANIMAL SCIENCE PRACTICES.

#### OUTCOMES :

- Students can recognize and compare optimal and maximal production practices.
- Students are competent in application of computerized technology.
- Students can utilize proven physical and chemical analyses.
- Students can evaluate genetic selection and performance programs.
- Students have an awareness of environmental impacts in sustainable agricultural practices.

### 4. CRITICAL THINKERS WITH EFFECTIVE ORAL AND WRITTEN COMMUNICATION SKILLS AS INDIVIDUALS AND AS TEAM MEMBERS IN PART THROUGH INCREASED EXPOSURE TO ISSUES IN ANIMAL SCIENCE ACROSS THE GLOBE.

#### OUTCOMES :

- Students can communicate as an animal scientist, using appropriate scientific terminology.
- Students have an increased self-confidence and comfort level during public speaking.
- Students demonstrate the ability to independently investigate, analyze and conclude management decisions clearly and concisely.
- Students can collect and analyze information and compose professional, technical reports.
- Students have benefited from external professional inputs of diverse backgrounds.

## MAJORS

- Animal Science Major, B.S. (<https://catalog.uwplatt.edu/undergraduate/business-industry-life-science-agriculture/agriculture/animal-science/bs-comprehensive/>)
  - Animal Science w/Minor
  - Comprehensive Emphasis
  - Pre-Veterinary Emphasis
  - Veterinary Technician Emphasis

- Dairy Science Major, B.S. (<https://catalog.uwplatt.edu/undergraduate/business-industry-life-science-agriculture/agriculture/animal-science/dairy-science-major-bs/>)
  - Dairy Science w/Minor
  - Pre-Veterinary Emphasis
  - Comprehensive Emphasis

## **FOUR-YEAR PLANS**

### **ANIMAL SCIENCE**

- Animal Science Major, B.S., Four-Year Plan (<https://catalog.uwplatt.edu/undergraduate/business-industry-life-science-agriculture/agriculture/animal-science/bs-comprehensive/four-year-plan/>)
- Animal Science Major, B.S., Pre-Veterinary Emphasis, Four-Year Plan (<https://catalog.uwplatt.edu/undergraduate/business-industry-life-science-agriculture/agriculture/animal-science/bs-comprehensive/pre-vet-four-year-plan/>)

### **DAIRY SCIENCE**

- Dairy Science Major, B.S., Four-Year Plan (<https://catalog.uwplatt.edu/undergraduate/business-industry-life-science-agriculture/agriculture/animal-science/dairy-science-major-bs/four-year-plan/>)