

# ANIMAL HEALTH, ASSOCIATE OF APPLIED SCIENCE

A minimum of 62 credits (at the 100 level or higher) must be earned for graduation with a cumulative gpa of 2.00 or higher. A gpa of 2.00 or higher is also required in your Major, as well as in your General Education Requirements.

## Program Description

The School of Biological Sciences has adopted the principles of "One Health", a transdisciplinary approach to health, where the goal of achieving optimal health outcomes recognizes the interconnection between people, animals, plants, and their shared environment.

The AAS in Animal Health is an intensive set of applied Biology courses designed to train students in the field of Animal Health. The goals of the degree are to introduce students to microbial, viral and parasitic vectors of disease, within the context of an animal's nutrition, behavior, physiology and genotype. Students will also address how environmental conditions contribute to the spread of disease through populations (ecology) and how animal disease can transfer to human populations (zoonoses). The degree can be used as a terminal degree, but students are encouraged to complete the BS Biology: Animal Biology.

## Program Learning Outcomes

- Assess/identify vectors of animal disease conditional related to bacterial, viral and parasitic infections.
- Demonstrate an understanding of the role of animal anatomy, physiology, nutrition and behavior in the onset of disease.
- Demonstrate a comprehension of how the ecology of animal disease can lead to epidemics and zoonoses.
- Promote animal health and prevent animal disease by recognizing the causes of disease allowing appropriate intervention.

## Degree Requirements

Code	Title	Hours
<b>Major Requirements</b>		
BIOL 131	General Biology: Cells	4
BIOL 132	General Biology: Organisms	4
BIOL 204	General Microbiology	4
BIOL 208	Prin Animal Biology & Health	3
BIOL 220	Genetics	4
BIOL 243	Vertebrate Anatomy	4
or BIOL 330	Animal Physiology	
BIOL 335	Principles of Animal Nutrition	3
or BIOL 405	Animal Behavior	
BIOL 337	General Ecology	3
BIOL 422	Parasitology	3
BIOL 425	Virology	3
BIOL 426	Animal Disease and Zoonoses	3
<b>Support Courses</b>		
CHEM 115	General Chemistry I	5
CHEM 116	General Chemistry II	5
MATH 111	College Algebra	3
<b>Total Hours</b>		<b>51</b>

**General Education:** All LSSU Associate's degree candidates must complete the LSSU General Education Requirements.