FARM AND RANCH MANAGEMENT (AAS)

Department: Business (https://snow-next.courseleaf.com/divisions-departments/division-business-technical-education/business/)

Program Contact: Matt Goble

Phone: (435) 283-7334

Email: matthew.goble@snow.edu

Department Webpage: https://www.snow.edu/academics/bat/business/index.html (https://www.snow.edu/academics/bat/business/)

Advising Information (https://snow.edu/offices/advisement/)

Program Description

The AAS in Innovative Livestock Management prepares students for careers in animal agriculture by teaching principles of animal health, nutrition, breeding, and facility management. Students gain hands-on experience with livestock care and production systems, equipping them to work in farming, ranching, or agribusiness, or to pursue further agricultural studies.

Program Outcomes

A student who completes the AAS in Innovative Livestock Management will be able to do the following.

- Demonstrate competency in accounting, marketing, risk management, and financial decision-making specific to farm and ranch operations.
- Utilize knowledge of production practices, animal husbandry, crop management, and sustainable resource use to maximize efficiency and productivity.
- Employ modern tools such as precision agriculture, data management software, and farm machinery to improve decision-making and operational outcomes.
- Exhibit effective leadership, teamwork, and interpersonal skills necessary to manage employees, work with stakeholders, and communicate with the agricultural community.
- Apply analytical reasoning and innovative approaches to address challenges in agricultural production, business planning, and farm management.

Requirements

Degree Requirements

Code	Title	Hours
Required Courses		
AGBS 1010	Fundamentals of Animal Science	4
AGBS 1200	Agribusiness Foundations	3
AGBS 1420	Livestock Production Practices	2
AGBS 1800	Introduction to Agricultural Communications	3
AGBS 1830	Agriculture Computer Applications and Direct Marketing	4
AGBS 2020	Introduction to Agricultural Economics	3
AGBS 2030	Managerial Analysis & Decision Making	3
AGBS 2400	Livestock Feeds and Feeding	4
AGBS 2500	Applied Animal Reproduction and Breeding	3
BUS 1060	QuickBooks for Small Business	3
AGTM 1050	Farm Machinery Maintenance, Management and Operation	3
AGTM 1330	Agricultural Chemicals and Applications	3
AGTM 2500	Irrigation Systems Equipment Maintenance and Repair	3
AGTM 2830	Forage and Grazing Management	3
AGBS 1997	Agriculture Internship I	1-3
Elective Courses (select 6 credits)		**6**
AGBS 2200 & AGBS 2205	Anatomy & Physiology of Domestic Animals IE and Anatomy & Physiology of Domestic Animals Lab IE	
AGTM 1210	Small Engines Power Systems	
AGTM 2600	Drones in Agriculture and Associated Computer Applications	
GEO 1700	Fundamentals of GPS and GIS Navigation	
NR 1010	Introduction to Natural Resources	
NR 1020	Field Inventory & Sampling Techniques	
NR 2030	Rangeland Management and Conservation	
NR 2425	Wildland Plant Identification	
General Education		
BIOL 1010	General Biology LS	3
or CHEM 1010	Introductory Chemistry PS	
Quantitative Literacy GE Class (https://snow-next.courseleaf.com/general-education/quantitative-literacy/)		3
English 1 GE Class (https://snow-next.courseleaf.com/general-education/english1/)		3
Total Hours		**60-62**

Suggested Plan of Study

Course	Title	Hours
Freshman		
Fall		
AGBS 1010	Fundamentals of Animal Science	4
AGBS 1200	Agribusiness Foundations	3
Quantitative Literacy GE Class (https://snow-next.courseleaf.com/general-education/quantitative-literacy/)		3
AGBS 1800	Introduction to Agricultural Communications	3
AGBS 1420	Livestock Production Practices	2
	Hours	**15**
Spring		
AGBS 2020	Introduction to Agricultural Economics	3
English 1 GE Class (https://snow-next.courseleaf.com/general-education/english1/)		3
BIOL 1010 or CHEM 1010	General Biology LS or Introductory Chemistry PS	3
AGBS 1830	Agriculture Computer Applications and Direct Marketing	4

AGBS 2200 & AGBS 2205 or AGTM 1210 or AGTM 2600 or GEO 1700 or NR 1010 or NR 1020 or NR 2030 or NR 2425	Anatomy & Physiology of Domestic Animals IE or Small Engines Power Systems or Drones in Agriculture and Associated Computer Applications or Fundamentals of GPS and GIS Navigation or Introduction to Natural Resources or Field Inventory & Sampling Techniques or Rangeland Management and Conservation or Wildland Plant Identification	3
	Hours	**16**
Sophomore		
Fall		
AGTM 1050	Farm Machinery Maintenance, Management and Operation	3
AGTM 1330	Agricultural Chemicals and Applications	3
AGBS 2500	Applied Animal Reproduction and Breeding	3
BUS 1060	QuickBooks for Small Business	3
AGTM 2830	Forage and Grazing Management	3
	Hours	**15**
Spring		
AGBS 2400	Livestock Feeds and Feeding	4
AGBS 2030	Managerial Analysis & Decision Making	3
AGTM 2500	Irrigation Systems Equipment Maintenance and Repair	3
AGBS 2200 & AGBS 2205 or AGTM 1210 or AGTM 2600 or GEO 1700 or NR 1010 or NR 1020 or NR 2030 or NR 2425	Anatomy & Physiology of Domestic Animals IE or Small Engines Power Systems or Drones in Agriculture and Associated Computer Applications or Fundamentals of GPS and GIS Navigation or Introduction to Natural Resources or Field Inventory & Sampling Techniques or Rangeland Management and Conservation or Wildland Plant Identification	3
AGBS 1997	Agriculture Internship I	1-3
	Hours	**14-16**
	Total Hours	**60-62**