Farm and Ranch Management - AAS

Semester-by-Semester Pathway

An Associates of Applied Science Degree emphasizes preparation in the applied arts and sciences for careers, typically at the technical or semi-professional level. This degree totals 64 credits. Consult with an advisor for more information. Not all courses are offered each semester.

(⇥) are Systemwide Transfer Courses

(★) are recommended for this degree pathway.

Semester 1 - Fall				
Complete	**Course ID**	**Course Title**	**Credit Hours**	**Notes**
Required Courses				
	AG101	Agriculture Orientation	1.00	Fall 2026
	AG104	Plant Science	4.00	Fall 2026
	AG105	Principles of Agricultural Economics	3.00	Spring 2026, Fall 2026
Electives				
	Farm & Ranch Mgmt. Options		4.00	
	Social Science Options		3.00	
		Semester Total:	**15.00**	

Semester 2 - Spring				
Complete	**Course ID**	**Course Title**	**Credit Hours**	**Notes**
Required Courses				
	AG103	Principles of Animal Science	3.00	Spring 2026, Fall 2026
Electives				
	Communications Options		3.00	
	Farm & Ranch Mgmt. Options		6.00	
	Math Options-Farm & Ranch Management		3.00	
		Semester Total:	**15.00**	

Semester 3 - Summer				
Complete	**Course ID**	**Course Title**	**Credit Hours**	**Notes**
Required Courses				
	FM120	Farm and Ranch Management Internship	4.00	Summer 2026
Electives				
		Semester Total:	**4.00**	

Semester 4 - Fall

Complete	Course ID	Course Title	Credit Hours	Notes
		Required Courses		
	FM102	Farm Crop Production	4.00	Fall 2026
	FM202	Agriculture Marketing	3.00	Fall 2026
		Electives		
		Farm & Ranch Mgmt Science Options	4.00	
		Farm & Ranch Mgmt. Options	4.00	
		Semester Total:	**15.00**	

Semester 5 - Spring				
Complete	**Course ID**	**Course Title**	**Credit Hours**	**Notes**
		Required Courses		
	FM105	Farm Management	3.00	Spring 2026, Fall 2026
	FM109	Livestock Management	3.00	Spring 2026, Fall 2026
		Electives		
		Farm & Ranch Mgmt. Options	3.00	
		Humanities Options	3.00	
		Soils & Range Mgmt Option	3.00	
		Semester Total:	**15.00**	

Total Credits: 64.00

*Semester offerings reflect the current academic year.

Communications Options

Course ID	Course Title	Credit Hours	Notes
BU109	Business Communications ⊤	3.00	Spring 2026, Summer 2026, Fall 2026
EN101	English Composition IA ⊤	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: HS GPA over 3.0, or Accu NG Writing Score 255+ & Accu NG Reading Score 255+, and ACT Reading Score of 18 or above, or ACT English Score of 18 or above.
EN102	English Composition II ⊤	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: EN101 English Composition IA with a grade of C or higher, or EN101H English Comp IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
EN107	Business English Grammar & Composition	3.00	Spring 2026, Fall 2026
EN108	Career and Technical Writing	3.00	Spring 2026, Fall 2026
★ SH101	Public Speaking ⊤	3.00	Spring 2026, Summer 2026, Fall 2026
SH210	Interpersonal Communication ⊤	3.00	Spring 2026, Summer 2026, Fall 2026

Farm & Ranch Mgmt Science Options

Course ID	Course Title	Credit Hours	Notes
★ BI101	General Biology ⊤	4.00	Spring 2026, Summer 2026, Fall 2026
BI101H	Honors General Biology ⊤	4.00	Fall 2026
BI104	Biology I ⊤	5.00	Spring 2026, Fall 2026
CH101	General Chemistry ⊤	5.00	Spring 2026, Summer 2026, Fall 2026 Prereq: MA106 College Algebra, or MA117 Contemporary Math, or MA108 Elements of Statistics.
CH105	Chemistry I ⊤	5.00	Spring 2026, Fall 2026 Prereq: ACT Math Score of 21 or higher, or MA105 or higher math, or Accuplacer NextGen QuantReason, Alg,Stats Score 263 or Above, or Accuplacer Math Score of 81+.
PY110	Physical Science ⊤	5.00	Spring 2026, Fall 2026

Farm & Ranch Mgmt. Options

Course ID	Course Title	Credit Hours	Notes
AG102	Introduction to Food Science	3.00	Spring 2026, Fall 2026
★ AG106	Animal Evaluation I	1.00	Fall 2026
AG107	Animal Evaluation II	1.00	Spring 2026
AG108	Principles of Meat Evaluation	2.00	Spring 2026
★ AG112	Unmanned Aerial Systems	3.00	Spring 2026, Fall 2026
AG130	Bovine Artificial Insemination	1.00	Fall 2026
AG140	Sales Management	2.00	Fall 2026
AG201	Soils	4.00	Spring 2026 Prereq: CH101 General Chemistry, or CH105 Chemistry I.
AG202	Fundamentals of Nutrition	3.00	Fall 2026 Prereq: CH101 General Chemistry, or CH105 Chemistry I.
AG203	Principles of Feeding	3.00	Spring 2026
AG203L	Principles of Feeding Lab	0.00	Spring 2026
★ AG204	Range Management	3.00	Spring 2026
AG213	Animal Evaluation III	1.00	Fall 2026 Prereq: AG107 Animal Evaluation II.
AG214	Animal Evaluation IV	1.00	Spring 2026
AP101	Introduction to Ag Power	6.00	Fall 2026

AP101L	Introduction to Ag Power Lab	0.00	Fall 2026
AP102	Hay and Seeding Systems	2.00	Spring 2026
AP102L	Hay and Seeding Systems Lab	0.00	Spring 2026
AP104	Ag Air Conditioning	2.00	Spring 2026
AP104L	Ag Air Conditioning Lab	0.00	Spring 2026
AP107	Ag Equipment Hydraulics	6.00	Fall 2026
AP107L	Ag Equipment Hydraulics Lab	0.00	Fall 2026
AP115	Small Engine Chain Saw Repair	3.00	Spring 2026
AP120	CDL Entry Level Driver Operations	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: Departmental Consent.
AP121	Ag Equipment Electricity	3.00	Fall 2026
★ AP122	Combine Operation and Repair	2.00	Fall 2026
★ AP122L	Combine Operation and Repair Lab	0.00	Fall 2026
AP125	Agriculture Equipment Technology & Optimization	1.00	Spring 2026
AP203	Ag Equipment Powertrains	7.00	Spring 2026 Prereq: AP101 Introduction to Ag Power.
AP203L	Ag Equipment Powertrains Lab	0.00	Spring 2026
AP206	Dealership Operations and Procedures	1.00	Spring 2026
AP207	Advanced Ag Equipment Hydraulics	4.00	Prereq: AP107 Ag Equipment Hydraulics.
AP207L	Advanced Ag Equipment Hydraulics Lab	0.00	
AP221	Advanced Ag Equipment Electricity	4.00	
AP221L	Advanced Ag Equipment Electricity Lab	0.00	
AP222	Transverse and Axial Combines	4.00	Prereq: AP122 Combiner Operation and Repair.
AP222L	Transverse and Axial Combines Lab	0.00	
AP225	Advanced Ag Equipment Systems	4.00	Prereq: AP125 Ag Equipment Technology & Optimization.
AP225L	Advanced Ag Equipment Systems Lab	0.00	
★ BU100	Small Business Accounting	3.00	Spring 2026, Summer 2026, Fall 2026
★ BU105	Introduction to Business ⇥	3.00	Spring 2026, Summer 2026, Fall 2026
BU105H	Honors Introduction to Business ⇥	3.00	
BU107	Personal Finance ⇥	3.00	Spring 2026, Summer 2026, Fall 2026
BU107H	Honors Personal Finance	3.00	
BU118	Introduction to Leadership ⇥	3.00	Spring 2026, Fall 2026
BU118H	Honors Introduction to Leadership ⇥	3.00	
BU141	Sales Management	3.00	Spring 2026, Summer 2026, Fall 2026
BU156	Developing the Business Plan	1.00	Spring 2026, Fall 2026
★ FM110	Crop and Weed Identification I	1.00	Fall 2026
★ FM111	Pesticide Applications	1.00	Fall 2026
FM114	Crop and Weed Identification II	1.00	Spring 2026
FM120	Farm and Ranch Management Internship	4.00	Summer 2026
FM203	Crop and Weed Identification III	1.00	Fall 2026
FM204	Crop and Weed Identification IV	1.00	Spring 2026
WE100	Basic Welding	3.00	Spring 2026, Fall 2026
WE104	Shielded Metal Arc Welding	3.00	Fall 2026
WE110	Gas Metal Arc Welding	3.00	Spring 2026, Fall 2026

Humanities Options

Course ID	Course Title	Credit Hours	Notes
AR101	Art Appreciation ⊤▷	3.00	Spring 2026, Summer 2026, Fall 2026
AR104	Art History: Paleolithic to Medieval ⊤▷	3.00	Fall 2026
AR105	Art History: Renaissance to Modern ⊤▷	3.00	Spring 2026
AR106	Art in the Elementary Classroom ⊤▷	3.00	Spring 2026, Fall 2026
AR110	Drawing I ⊤▷	3.00	Fall 2026
AR113	Painting I	3.00	Spring 2026
AR116	Ceramics I ⊤▷	3.00	Fall 2026
AR120	Printmaking I	3.00	
AR126	Jewelry Design I	3.00	
AR134	Introduction to Digital Imagery--Photoshop	3.00	
EN120	Children's Literature ⊤▷	3.00	Spring 2026, Fall 2026
EN121	World Mythology	3.00	Spring 2026 Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
EN128	Introduction to Creative Writing ⊤▷	3.00	Spring 2026, Fall 2026
EN201	Introduction to Literature ⊤▷	3.00	Summer 2026, Fall 2026 Prereq: EN100 English Comp IB with a grade of C or higher, or EN101 English Composition IA with a grade of C or higher.
EN202	British Literature I	3.00	Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
EN203	British Literature II	3.00	Spring 2026 Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
EN204	American Literature I ⊤▷	3.00	Fall 2026 Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
EN205	American Literature II ⊤▷	3.00	Spring 2026 Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
EN207	Introduction to Shakespeare	3.00	Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
EN214	Introduction to Cultural Studies: Fairy Tales	3.00	Spring 2026, Fall 2026 Prereq: EN101 English Composition IA with a grade of C or higher, or EN100 English Comp IB with a grade of C or higher.
EN217	Podcast Fiction	3.00	Spring 2026 Prereq: EN100 English Comp IB, or EN101 English Composition IA.
FR101	Elementary French I ⊤▷	5.00	
HI101	American History 1492-1865 ⊤▷	3.00	Spring 2026, Summer 2026, Fall 2026
★ HI102	American History 1865-Present ⊤▷	3.00	Spring 2026, Summer 2026, Fall 2026
HI103	World History to 1600 ⊤▷	3.00	Spring 2026, Summer 2026, Fall 2026
HI104	World History Since 1600 ⊤▷	3.00	Spring 2026, Summer 2026, Fall 2026
HI122	Film History of World War II	3.00	Spring 2026
HI201	Topics in History	3.00	
JP118	Introduction to Digital Imagery--Photoshop	3.00	Spring 2026, Fall 2026
MU101	Music Appreciation ⊤▷	3.00	Spring 2026, Summer 2026, Fall 2026
MU106	Music Theory I ⊤▷	3.00	Fall 2026
MU107	Music Theory II ⊤▷	3.00	Spring 2026 Prereq: MU106 Music Theory I.
MU110	Class Piano I ⊤▷	1.00	Spring 2026, Fall 2026
MU127	Introduction To Jazz/Jazz Rock	3.00	Spring 2026, Fall 2026
MU132	Symphonic Band I	1.00	Spring 2026, Fall 2026
MU133	Concert Choir I	1.00	Spring 2026, Fall 2026
MU139	Concert Jazz Band I	1.00	Spring 2026, Fall 2026

MU148	Schola Cantorum I	1.00	Fall 2026
MU149	Schola Cantorum II	1.00	Fall 2026 Prereq: MU148 Schola Cantorum I.
MU150	Schola Cantorum III	1.00	Fall 2026 Prereq: MU149 Schola Cantorum II.
MU151	Schola Cantorum IV	1.00	Fall 2026 Prereq: MU150 Schola Cantorum III.
MU158	Pep Band I	1.00	Spring 2026, Fall 2026
MU159	Pep Band II	1.00	Spring 2026, Fall 2026
MU161	Pep Band III	1.00	Spring 2026, Fall 2026
MU162	Pep Band IV	1.00	Spring 2026, Fall 2026
MU163	Symphonic Band II	1.00	Spring 2026, Fall 2026 Prereq: MU132 Symphonic Band I.
MU164	Symphonic Band III	1.00	Spring 2026, Fall 2026 Prereq: MU163 Symphonic Band II.
MU165	Symphonic Band IV	1.00	Spring 2026, Fall 2026 Prereq: MU164 Symphonic Band III.
MU166	Concert Choir II	1.00	Spring 2026, Fall 2026 Prereq: MU133 Concert Choir I.
MU167	Concert Choir III	1.00	Spring 2026, Fall 2026 Prereq: MU166 Concert Choir II.
MU168	Concert Choir IV	1.00	Spring 2026, Fall 2026 Prereq: MU167 Concert Choir III.
MU183	Concert Jazz Band II	1.00	Spring 2026, Fall 2026 Prereq: MU139 Concert Jazz Band I.
MU184	Concert Jazz Band III	1.00	Spring 2026, Fall 2026 Prereq: MU183 Concert Jazz Band II.
MU185	Concert Jazz Band IV	1.00	Spring 2026, Fall 2026 Prereq: MU184 Concert Jazz Band III.
MU204	Aural Skills IV	1.00	Spring 2026 Prereq: MU203 Aural Skills III.
MU206	Music Theory III	3.00	Fall 2026 Prereq: MU107 Music Theory II.
MU207	Music Theory IV	3.00	Spring 2026 Prereq: MU206 Music Theory III.
PL101	Introduction to Philosophy ⊤▶	3.00	Spring 2026, Summer 2026, Fall 2026
PL103	Logic and Critical Thinking ⊤▶	3.00	Spring 2026, Fall 2026
PL104	Ethics ⊤▶	3.00	Spring 2026, Summer 2026, Fall 2026
PL105	Death and Dying	3.00	Spring 2026, Summer 2026, Fall 2026
SP100	Workplace Spanish	2.00	
SP101	Elementary Spanish I ⊤▶	5.00	Spring 2026, Summer 2026, Fall 2026
SP102	Elementary Spanish II ⊤▶	5.00	Spring 2026, Fall 2026 Prereq: SP101 Elementary Spanish I.
TH115	Theatre Appreciation ⊤▶	3.00	Spring 2026, Fall 2026

Math Options-Farm & Ranch Management			
Course ID	**Course Title**	**Credit Hours**	**Notes**
★ FM101	Agricultural Mathematics	3.00	Spring 2026
MA106	College Algebra ⊤▶	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: HS GPA over 3.25, or Accuplacer NextGen QuantReason, Alg,Stats Score 263 or Above, or ACT Math Score of 22 or Higher.
MA107	Plane Trigonometry ⊤▶	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: MA106 College Algebra with a grade of C or higher, or ACT Math Score of 23 to 36.

MA110	Calculus ⊤▸	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: MA106 College Algebra with a grade of C or higher, or ACT Math Score of 23 to 36, or MA109 Pre-Calculus Math with a grade of C or higher.
MA111	Analytical Geometry and Calculus I ⊤▸	5.00	Spring 2026, Summer 2026, Fall 2026 Prereq: MA107 Plane Trigonometry with a grade of C or higher, or ACT Math Score of 25 to 36, or MA109 Pre-Calculus Math with a grade of C or higher.
MA117	Contemporary Math ⊤▸	3.00	Spring 2026, Summer 2026, Fall 2026

Social Science Options			
Course ID	**Course Title**	**Credit Hours**	**Notes**
EC100	Macroeconomics ⊤▸	3.00	Spring 2026, Summer 2026, Fall 2026
EC101	Microeconomics ⊤▸	3.00	Spring 2026, Summer 2026, Fall 2026
GE101	World Geography ⊤▸	3.00	Spring 2026, Summer 2026, Fall 2026
GO100	American Government ⊤▸	3.00	Spring 2026, Summer 2026, Fall 2026
GO101	State and Local Government ⊤▸	3.00	
GO102	International Relations ⊤▸	3.00	Spring 2026
GO110	Introduction to Political Science ⊤▸	3.00	Fall 2026
GO110H	Honors Introduction to Political Science ⊤▸	3.00	Fall 2026
PS100	General Psychology ⊤▸	3.00	Spring 2026, Summer 2026, Fall 2026
PS101	Human Relations	3.00	Spring 2026, Summer 2026, Fall 2026
PS102	Human Growth and Development ⊤▸	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: PS100 General Psychology.
PS201	Psychology of Personality	3.00	Spring 2026, Fall 2026 Prereq: PS100 General Psychology with grade of C or higher.
PS202	Abnormal Psychology	3.00	Spring 2026, Summer 2026, Fall 2026 Prereq: PS100 General Psychology.
SO100	Fundamentals of Sociology ⊤▸	3.00	Spring 2026, Summer 2026, Fall 2026
SO101	Marriage and Family ⊤▸	3.00	Spring 2026, Summer 2026, Fall 2026
SO111	Cultural Anthropology ⊤▸	3.00	Spring 2026, Summer 2026, Fall 2026
SO113	Cultural Diversity ⊤▸	3.00	Spring 2026, Fall 2026
SO122	Introduction to Social Work ⊤▸	3.00	Spring 2026, Fall 2026
SO201	Social Problems ⊤▸	3.00	Spring 2026 Prereq: SO100 Fundamentals of Sociology.

Soils & Range Mgmt Option			
Course ID	**Course Title**	**Credit Hours**	**Notes**
AG201	Soils	4.00	Spring 2026 Prereq: CH101 General Chemistry, or CH105 Chemistry I.
AG204	Range Management	3.00	Spring 2026
AG204H	Honors Range Management	3.00	

Program Notes:

Limits on Farm & Ranch Mgmt. Options: Maximum of 3 hours of Welding Courses. Maximum of 6 hours of Business Courses. Maximum of 9 hours of Ag-Diesel (AP) courses.