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Farm and Ranch Management

Degree 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.

( ) are Systemwide Transfer Courses

(★) are recommended for this degree pathway.

Required Courses			
Course ID	**Course Title**	**Credit Hours**	**Notes**
AG101	Agriculture Orientation	1.00	Fall 2026
AG103	Principles of Animal Science	3.00	Fall 2026, Spring 2027
AG104	Plant Science	4.00	Fall 2026
AG105	Principles of Agricultural Economics	3.00	Fall 2026, Spring 2027
FM102	Farm Crop Production	4.00	Fall 2026
FM105	Farm Management	3.00	Fall 2026, Spring 2027
FM109	Livestock Management	3.00	Fall 2026, Spring 2027
FM120	Farm and Ranch Management Internship	4.00	Summer 2027
FM202	Agriculture Marketing	3.00	Fall 2026
Electives			
Course ID	**Course Title**	**Credit Hours**	**Notes**
Communications Options		**3.00**	
BU109	Business Communications	3.00	Fall 2026, Spring 2027, Summer 2027
EN101	English Composition IA	3.00	Fall 2026, Spring 2027, Summer 2027 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	Fall 2026, Spring 2027, Summer 2027 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	Fall 2026, Spring 2027
EN108	Career and Technical Writing	3.00	Fall 2026, Spring 2027
★ SH101	Public Speaking	3.00	Fall 2026, Spring 2027, Summer 2027
SH210	Interpersonal Communication	3.00	Fall 2026, Spring 2027, Summer 2027
Farm & Ranch Mgmt Science Options		**4.00**	
★ BI101	General Biology	4.00	Fall 2026, Spring 2027, Summer 2027
BI101H	Honors General Biology	4.00	Fall 2026
BI104	Biology I	5.00	Fall 2026, Spring 2027
CH101	General Chemistry	5.00	Fall 2026, Spring 2027, Summer 2027 Prereq: MA106 College Algebra, or MA117 Contemporary Math, or MA108 Elements of Statistics.
CH105	Chemistry I	5.00	Fall 2026, Spring 2027 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	Fall 2026, Spring 2027
Farm & Ranch Mgmt. Options		**17.00**	
AG102	Introduction to Food Science	3.00	Fall 2026, Spring 2027
★ AG106	Animal Evaluation I	1.00	Fall 2026
AG107	Animal Evaluation II	1.00	Spring 2027
AG108	Principles of Meat Evaluation	2.00	Spring 2027
★ AG112	Unmanned Aerial Systems	3.00	Fall 2026, Spring 2027
AG130	Bovine Artificial Insemination	1.00	Fall 2026
AG140	Sales Management	2.00	Fall 2026
AG201	Soils	4.00	Spring 2027 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 2027
AG203L	Principles of Feeding Lab	0.00	Spring 2027
★ AG204	Range Management	3.00	Spring 2027
AG213	Animal Evaluation III	1.00	Fall 2026 Prereq: AG107 Animal Evaluation II.
AG214	Animal Evaluation IV	1.00	Spring 2027
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 2027
AP102L	Hay and Seeding Systems Lab	0.00	Spring 2027
AP104	Ag Air Conditioning	2.00	Spring 2027
AP104L	Ag Air Conditioning Lab	0.00	Spring 2027
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 2027
AP120	CDL Entry Level Driver Operations	3.00	Fall 2026, Spring 2027, Summer 2027 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 2027
AP203	Ag Equipment Powertrains	7.00	Spring 2027 Prereq: AP101 Introduction to Ag Power.
AP203L	Ag Equipment Powertrains Lab	0.00	Spring 2027
AP206	Dealership Operations and Procedures	1.00	Spring 2027
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	Fall 2026, Spring 2027, Summer 2027
★ BU105	Introduction to Business	3.00	Fall 2026, Spring 2027, Summer 2027

BU105H	Honors Introduction to Business	3.00	
BU107	Personal Finance	3.00	Fall 2026, Spring 2027, Summer 2027
BU107H	Honors Personal Finance	3.00	
BU118	Introduction to Leadership	3.00	Fall 2026, Spring 2027
BU118H	Honors Introduction to Leadership	3.00	
BU141	Sales Management	3.00	Fall 2026, Spring 2027, Summer 2027
BU156	Developing the Business Plan	1.00	Fall 2026, Spring 2027
★ 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 2027
FM120	Farm and Ranch Management Internship	4.00	Summer 2027
FM203	Crop and Weed Identification III	1.00	Fall 2026
FM204	Crop and Weed Identification IV	1.00	Spring 2027
WE100	Basic Welding	3.00	Fall 2026, Spring 2027
WE104	Shielded Metal Arc Welding	3.00	Fall 2026, Spring 2027
WE110	Gas Metal Arc Welding	3.00	Fall 2026, Spring 2027
Humanities Options		**3.00**	
AR101	Art Appreciation	3.00	Fall 2026, Spring 2027, Summer 2027
AR104	Art History: Paleolithic to Medieval	3.00	Fall 2026
AR105	Art History: Renaissance to Modern	3.00	Spring 2027
AR106	Art in the Elementary Classroom	3.00	Fall 2026, Spring 2027
AR110	Drawing I	3.00	Fall 2026
AR113	Painting I	3.00	Spring 2027
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	Fall 2026, Spring 2027
EN121	World Mythology	3.00	Spring 2027 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	Fall 2026, Spring 2027
EN201	Introduction to Literature	3.00	Fall 2026, Summer 2027 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 2027 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 2027 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	Fall 2026, Spring 2027 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	Prereq: EN100 English Comp IB, or EN101 English Composition IA.
FR101	Elementary French I	5.00	Spring 2027
HI101	American History 1492-1865	3.00	Fall 2026, Spring 2027, Summer 2027

★ HI102	American History 1865-Present	3.00	Fall 2026, Spring 2027, Summer 2027
HI103	World History to 1600	3.00	Fall 2026, Spring 2027, Summer 2027
HI104	World History Since 1600	3.00	Fall 2026, Spring 2027, Summer 2027
HI122	Film History of World War II	3.00	
HI201	Topics in History	3.00	Spring 2027
JP118	Introduction to Digital Imagery--Photoshop	3.00	Fall 2026, Spring 2027
MU101	Music Appreciation	3.00	Fall 2026, Spring 2027, Summer 2027
MU106	Music Theory I	3.00	Fall 2026
MU107	Music Theory II	3.00	Spring 2027 Prereq: MU106 Music Theory I.
MU110	Class Piano I	1.00	Fall 2026, Spring 2027
MU127	Introduction To Jazz/Jazz Rock	3.00	Fall 2026, Spring 2027
MU132	Symphonic Band I	1.00	Fall 2026, Spring 2027
MU133	Concert Choir I	1.00	Fall 2026, Spring 2027
MU139	Concert Jazz Band I	1.00	Fall 2026, Spring 2027
MU148	Schola Cantorum I	1.00	Fall 2026, Spring 2027
MU149	Schola Cantorum II	1.00	Fall 2026, Spring 2027 Prereq: MU148 Schola Cantorum I.
MU150	Schola Cantorum III	1.00	Fall 2026, Spring 2027 Prereq: MU149 Schola Cantorum II.
MU151	Schola Cantorum IV	1.00	Fall 2026, Spring 2027 Prereq: MU150 Schola Cantorum III.
MU158	Pep Band I	1.00	Fall 2026, Spring 2027
MU159	Pep Band II	1.00	Fall 2026, Spring 2027
MU161	Pep Band III	1.00	Fall 2026, Spring 2027
MU162	Pep Band IV	1.00	Fall 2026, Spring 2027
MU163	Symphonic Band II	1.00	Fall 2026, Spring 2027 Prereq: MU132 Symphonic Band I.
MU164	Symphonic Band III	1.00	Fall 2026, Spring 2027 Prereq: MU163 Symphonic Band II.
MU165	Symphonic Band IV	1.00	Fall 2026, Spring 2027 Prereq: MU164 Symphonic Band III.
MU166	Concert Choir II	1.00	Fall 2026, Spring 2027 Prereq: MU133 Concert Choir I.
MU167	Concert Choir III	1.00	Fall 2026, Spring 2027 Prereq: MU166 Concert Choir II.
MU168	Concert Choir IV	1.00	Fall 2026, Spring 2027 Prereq: MU167 Concert Choir III.
MU183	Concert Jazz Band II	1.00	Fall 2026, Spring 2027 Prereq: MU139 Concert Jazz Band I.
MU184	Concert Jazz Band III	1.00	Fall 2026, Spring 2027 Prereq: MU183 Concert Jazz Band II.
MU185	Concert Jazz Band IV	1.00	Fall 2026, Spring 2027 Prereq: MU184 Concert Jazz Band III.
MU204	Aural Skills IV	1.00	Spring 2027 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 2027 Prereq: MU206 Music Theory III.
PL101	Introduction to Philosophy	3.00	Fall 2026, Spring 2027, Summer 2027
PL103	Logic and Critical Thinking	3.00	Fall 2026, Spring 2027
PL104	Ethics	3.00	Fall 2026, Spring 2027, Summer 2027
PL105	Death and Dying	3.00	Fall 2026, Spring 2027, Summer 2027

SP100	Workplace Spanish	2.00	
SP101	Elementary Spanish I	5.00	Fall 2026, Spring 2027, Summer 2027
SP102	Elementary Spanish II	5.00	Fall 2026, Spring 2027 Prereq: SP101 Elementary Spanish I.
TH115	Theatre Appreciation	3.00	Fall 2026, Spring 2027
Math Options-Farm & Ranch Management		**3.00**	
★ FM101	Agricultural Mathematics	3.00	Spring 2027
MA106	College Algebra	3.00	Fall 2026, Spring 2027, Summer 2027 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	Fall 2026, Spring 2027, Summer 2027 Prereq: MA106 College Algebra with a grade of C or higher, or ACT Math Score of 23 to 36.
MA110	Calculus	3.00	Fall 2026, Spring 2027, Summer 2027 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	Fall 2026, Spring 2027, Summer 2027 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	Fall 2026, Spring 2027, Summer 2027 Prereq: HS GPA over 3.0, or Accuplacer NG QuantReason, Alg, Stats Score 255 or Above, or ACT Math Score of 19 or Higher.
Social Science Options		**3.00**	
EC100	Macroeconomics	3.00	Fall 2026, Spring 2027, Summer 2027
EC101	Microeconomics	3.00	Fall 2026, Spring 2027, Summer 2027
GE101	World Geography	3.00	Fall 2026, Spring 2027, Summer 2027
GO100	American Government	3.00	Fall 2026, Spring 2027, Summer 2027
GO101	State and Local Government	3.00	
GO102	International Relations	3.00	Spring 2027
GO110	Introduction to Political Science	3.00	Fall 2026
GO110H	Honors Introduction to Political Science	3.00	Fall 2026
PS100	General Psychology	3.00	Fall 2026, Spring 2027, Summer 2027
PS101	Human Relations	3.00	Fall 2026, Spring 2027, Summer 2027
PS102	Human Growth and Development	3.00	Fall 2026, Spring 2027, Summer 2027 Prereq: PS100 General Psychology.
PS201	Psychology of Personality	3.00	Fall 2026, Spring 2027 Prereq: PS100 General Psychology with grade of C or higher.
PS202	Abnormal Psychology	3.00	Fall 2026, Spring 2027, Summer 2027 Prereq: PS100 General Psychology.
SO100	Fundamentals of Sociology	3.00	Fall 2026, Spring 2027, Summer 2027
SO101	Marriage and Family	3.00	Fall 2026, Spring 2027, Summer 2027
SO111	Cultural Anthropology	3.00	Fall 2026, Spring 2027, Summer 2027
SO113	Cultural Diversity	3.00	Fall 2026, Spring 2027
SO122	Introduction to Social Work	3.00	Fall 2026, Spring 2027
SO201	Social Problems	3.00	Spring 2027, Summer 2027 Prereq: SO100 Fundamentals of Sociology.
Soils & Range Mgmt Option		**3.00**	
AG201	Soils	4.00	Spring 2027 Prereq: CH101 General Chemistry, or CH105 Chemistry I.
AG204	Range Management	3.00	Spring 2027
AG204H	Honors Range Management	3.00	

Total Credits: **64.00**

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.