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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.

(T) 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
AG103	Principles of Animal Science	3.00	Fall, Spring
AG104	Plant Science	4.00	Fall
AG105	Principles of Agricultural Economics	3.00	Fall, Spring
FM102	Farm Crop Production	4.00	Fall
FM105	Farm Management	3.00	Fall, Spring
FM109	Livestock Management	3.00	Fall, Spring
FM120	Farm and Ranch Management Internship	4.00	Summer
FM202	Agriculture Marketing	3.00	Fall
Electives			
Course ID	Course Title	Credit Hours	Notes
Communications Options		3.00	
BU109	Business Communications T	3.00	Fall, Spring, Summer
EN100	English Composition IB T	3.00	Fall, Spring, Summer Prereq: EN098 Intro to College Writing with a grade of C or higher, or Accuplacer Next Generation Writing Score of 240 to 254, or HS GPA over 2.25, or ACT English Score of 17 to 19.
EN101	English Composition IA T	3.00	Fall, Spring, Summer 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 T	3.00	Fall, Spring, Summer 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, Spring
EN108	Career and Technical Writing	3.00	Fall, Spring
★ SH101	Public Speaking T	3.00	Fall, Spring, Summer
SH210	Interpersonal Communication T	3.00	Fall, Spring, Summer
Farm & Ranch Mgmt Science Options		4.00	
★ BI101	General Biology T	4.00	Fall, Spring, Summer
BI101H	Honors General Biology T	4.00	Fall
BI104	Biology I T	5.00	Fall, Spring Prereq: CH101 General Chemistry, or CH105 Chemistry I with a C or Higher.
CH101	General Chemistry T	5.00	Fall, Spring, Summer

			Prereq: MA106 College Algebra, or MA117 Contemporary Math, or MA108 Elements of Statistics.
CH105	Chemistry I 	5.00	Fall, Spring 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, Spring
Farm & Ranch Mgmt. Options		17.00	
AG102	Introduction to Food Science	3.00	Fall, Spring
★ AG106	Animal Evaluation I	1.00	Fall
AG107	Animal Evaluation II	1.00	Spring
AG108	Principles of Meat Evaluation	2.00	Spring
★ AG112	Unmanned Aerial Systems	3.00	Fall, Spring
AG130	Bovine Artificial Insemination	1.00	Fall
AG140	Sales Management	2.00	Fall
AG201	Soils	4.00	Spring Prereq: CH101 General Chemistry, or CH105 Chemistry I.
AG202	Fundamentals of Nutrition	3.00	Fall Prereq: CH101 General Chemistry, or CH105 Chemistry I.
AG203	Principles of Feeding	3.00	Spring
AG203L	Principles of Feeding Lab	0.00	Spring
★ AG204	Range Management	3.00	Spring
AG213	Animal Evaluation III	1.00	Fall Prereq: AG107 Animal Evaluation II.
AG214	Animal Evaluation IV	1.00	Spring
AP101	Introduction to Ag Power	6.00	Fall
AP101L	Introduction to Ag Power Lab	0.00	Fall
AP102	Hay and Seeding Systems	2.00	Spring
AP102L	Hay and Seeding Systems Lab	0.00	Spring
AP104	Ag Air Conditioning	2.00	Spring
AP104L	Ag Air Conditioning Lab	0.00	Spring
AP107	Ag Equipment Hydraulics	6.00	Fall
AP107L	Ag Equipment Hydraulics Lab	0.00	Fall
AP115	Small Engine Chain Saw Repair	3.00	
AP120	CDL Entry Level Driver Operations	3.00	Fall, Spring, Summer Prereq: Departmental Consent.
AP121	Ag Equipment Electricity	3.00	Fall
★ AP122	Combine Operation and Repair	2.00	Fall
★ AP122L	Combine Operation and Repair Lab	0.00	Fall
AP125	Agriculture Equipment Technology & Optimization	1.00	Spring
AP203	Ag Equipment Powertrains	7.00	Spring Prereq: AP101 Introduction to Ag Power.
AP203L	Ag Equipment Powertrains Lab	0.00	Spring
AP206	Dealership Operations and Procedures	1.00	Spring
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, Spring, Summer
★ BU105	Introduction to Business 	3.00	Fall, Spring, Summer
BU105H	Honors Introduction to Business 	3.00	
BU107	Personal Finance 	3.00	Fall, Spring, Summer
BU107H	Honors Personal Finance	3.00	
BU118	Introduction to Leadership 	3.00	Fall, Spring
BU118H	Honors Introduction to Leadership 	3.00	
BU141	Sales Management	3.00	Fall, Spring, Summer
BU156	Developing the Business Plan	1.00	Fall, Spring
★ FM110	Crop and Weed Identification I	1.00	Fall
★ FM111	Pesticide Applications	1.00	Fall
FM114	Crop and Weed Identification II	1.00	Spring
FM120	Farm and Ranch Management Internship	4.00	Summer
FM203	Crop and Weed Identification III	1.00	Fall
FM204	Crop and Weed Identification IV	1.00	Spring
WE100	Basic Welding	3.00	Fall, Spring
WE104	Shielded Metal Arc Welding	3.00	Fall
WE110	Gas Metal Arc Welding	3.00	Fall, Spring
Humanities Options		3.00	
AR101	Art Appreciation 	3.00	Fall, Spring, Summer
AR104	Art History: Paleolithic to Medieval 	3.00	Fall
AR105	Art History: Renaissance to Modern 	3.00	Spring
AR106	Art in the Elementary Classroom 	3.00	Fall, Spring
AR110	Drawing I 	3.00	Fall
AR113	Painting I	3.00	Spring
AR116	Ceramics I	3.00	Fall
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, Spring
EN121	World Mythology	3.00	Spring 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, Spring
EN201	Introduction to Literature 	3.00	Fall, Summer 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	Fall 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 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 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 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, Spring 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	Fall, Spring Prereq: EN100 English Comp IB, or EN101 English Composition IA.
HI101	American History 1492-1865 ▶	3.00	Fall, Spring, Summer
★ HI102	American History 1865-Present ▶	3.00	Fall, Spring, Summer
HI103	World History to 1600 ▶	3.00	Fall, Spring, Summer
HI104	World History Since 1600 ▶	3.00	Fall, Spring, Summer
HI122	Film History of World War II	3.00	Spring
HI201	Topics in History	3.00	
JP118	Introduction to Digital Imagery--Photoshop	3.00	Fall, Spring
MU101	Music Appreciation ▶	3.00	Fall, Spring, Summer
MU106	Music Theory I ▶	3.00	Fall
MU107	Music Theory II ▶	3.00	Spring Prereq: MU106 Music Theory I.
MU110	Class Piano I ▶	1.00	Fall, Spring
MU127	Introduction To Jazz/Jazz Rock	3.00	Fall, Spring
MU132	Symphonic Band I	1.00	Fall, Spring
MU133	Concert Choir I	1.00	Fall, Spring
MU139	Concert Jazz Band I	1.00	Fall, Spring
MU148	Vocal Jazz/Sonance I	1.00	
MU149	Vocal Jazz/Sonance II	1.00	Prereq: MU148 Vocal Jazz/Sonance I.
MU150	Vocal Jazz/Sonance III	1.00	Prereq: MU149 Vocal Jazz/Sonance II.
MU151	Vocal Jazz/Sonance IV	1.00	Prereq: MU150 Vocal Jazz/Sonance III.
MU158	Pep Band I	1.00	Fall, Spring
MU159	Pep Band II	1.00	Fall, Spring
MU161	Pep Band III	1.00	Fall, Spring
MU162	Pep Band IV	1.00	Fall, Spring
MU163	Symphonic Band II	1.00	Fall, Spring Prereq: MU132 Symphonic Band I.
MU164	Symphonic Band III	1.00	Fall, Spring Prereq: MU163 Symphonic Band II.
MU165	Symphonic Band IV	1.00	Fall, Spring Prereq: MU164 Symphonic Band III.
MU166	Concert Choir II	1.00	Fall, Spring Prereq: MU133 Concert Choir I.
MU167	Concert Choir III	1.00	Fall, Spring Prereq: MU166 Concert Choir II.
MU168	Concert Choir IV	1.00	Fall, Spring Prereq: MU167 Concert Choir III.
MU183	Concert Jazz Band II	1.00	Fall, Spring Prereq: MU139 Concert Jazz Band I.
MU184	Concert Jazz Band III	1.00	Fall, Spring Prereq: MU183 Concert Jazz Band II.
MU185	Concert Jazz Band IV	1.00	Fall, Spring Prereq: MU184 Concert Jazz Band III.
MU204	Aural Skills IV	1.00	Spring Prereq: MU203 Aural Skills III.
MU206	Music Theory III	3.00	Fall Prereq: MU107 Music Theory II.
MU207	Music Theory IV	3.00	Spring Prereq: MU206 Music Theory III.
PL101	Introduction to Philosophy ▶	3.00	Fall, Spring, Summer

PL103	Logic and Critical Thinking ▶	3.00	Fall, Spring
PL104	Ethics ▶	3.00	Fall, Spring, Summer
PL105	Death and Dying	3.00	Fall, Spring, Summer
SP100	Workplace Spanish	2.00	
SP101	Elementary Spanish I ▶	5.00	Fall, Spring, Summer
SP102	Elementary Spanish II ▶	5.00	Fall, Spring Prereq: SP101 Elementary Spanish I, or Departmental Consent, or SP104 Spanish II.
TH115	Theatre Appreciation ▶	3.00	Fall, Spring, Summer
Math Options-Farm & Ranch Management		3.00	
★ FM101	Agricultural Mathematics	3.00	Spring
MA106	College Algebra ▶	3.00	Fall, Spring, Summer 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, Spring, Summer Prereq: MA106 College Algebra with a grade of C or higher, or ACT Math Score of 23 to 36.
MA110	Calculus ▶	3.00	Fall, Spring, Summer 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, Spring, Summer 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, Spring, Summer
Social Science Options		3.00	
EC100	Macroeconomics ▶	3.00	Fall, Spring, Summer
EC101	Microeconomics ▶	3.00	Fall, Spring, Summer
GE101	World Geography ▶	3.00	Fall, Spring, Summer
GO100	American Government ▶	3.00	Fall, Spring, Summer
GO101	State and Local Government ▶	3.00	
GO102	International Relations ▶	3.00	Spring
GO110	Introduction to Political Science ▶	3.00	Fall
GO110H	Honors Introduction to Political Science ▶	3.00	Fall
PS100	General Psychology ▶	3.00	Fall, Spring, Summer
PS101	Human Relations	3.00	Fall, Spring, Summer
PS102	Human Growth and Development ▶	3.00	Fall, Spring, Summer Prereq: PS100 General Psychology.
PS201	Psychology of Personality	3.00	Fall, Spring Prereq: PS100 General Psychology with grade of C or higher.
PS202	Abnormal Psychology	3.00	Fall, Spring, Summer Prereq: PS100 General Psychology.
SO100	Fundamentals of Sociology ▶	3.00	Fall, Spring, Summer
SO101	Marriage and Family ▶	3.00	Fall, Spring, Summer
SO111	Cultural Anthropology ▶	3.00	Fall, Spring, Summer
SO113	Cultural Diversity ▶	3.00	Fall, Spring
SO122	Introduction to Social Work ▶	3.00	Fall
SO201	Social Problems ▶	3.00	Spring, Summer Prereq: SO100 Fundamentals of Sociology.
Soils & Range Mgmt Option		3.00	
AG201	Soils	4.00	Spring Prereq: CH101 General Chemistry, or CH105 Chemistry I.
AG204	Range Management	3.00	Spring
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.