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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.

(T) 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 |
| | AG104 | Plant Science | 4.00 | Fall |
| | AG105 | Principles of Agricultural Economics | 3.00 | Fall, Spring |
| 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 | Fall, Spring |
| 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 |
| 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 |
| | FM202 | Agriculture Marketing | 3.00 | Fall |
| 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 | Fall, Spring |
| | FM109 | Livestock Management | 3.00 | Fall, Spring |
| 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 | Fall, Spring, Summer |
| EN100 | English Composition IB ▾ | 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 ▾ | 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 ▾ | 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 ▾ | 3.00 | Fall, Spring, Summer |
| SH210 | Interpersonal Communication ▾ | 3.00 | Fall, Spring, Summer |

| Farm & Ranch Mgmt Science Options | | | |
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| Course ID | Course Title | Credit Hours | Notes |
| ★ BI101 | General Biology ▾ | 4.00 | Fall, Spring, Summer |
| BI101H | Honors General Biology ▾ | 4.00 | Fall |
| BI104 | Biology I ▾ | 5.00 | Fall, Spring Prereq: CH101 General Chemistry, or CH105 Chemistry I with a C or Higher. |
| CH101 | General Chemistry ▾ | 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 | | | |
|----------------------------|--------------------------------|--------------|--|
| Course ID | Course Title | Credit Hours | Notes |
| 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 |
| AG110 | Home Horticulture | 2.00 | |
| ★ AG112 | Unmanned Aerial Systems | 3.00 | 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 |

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| ★ 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 | Fall, Spring |
| 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 | Spring Prereq: AP107 Ag Equipment Hydraulics. |
| AP207L | Advanced Ag Equipment Hydraulics Lab | 0.00 | Spring |
| AP221 | Advanced Ag Equipment Electricity | 4.00 | |
| AP221L | Advanced Ag Equipment Electricity Lab | 0.00 | |
| AP222 | Transverse and Axial Combines | 4.00 | Spring Prereq: AP122 Combiner Operation and Repair. |
| AP222L | Transverse and Axial Combines Lab | 0.00 | Spring |
| AP225 | Advanced Ag Equipment Systems | 4.00 | Spring Prereq: AP125 Ag Equipment Technology & Optimization. |
| AP225L | Advanced Ag Equipment Systems Lab | 0.00 | Spring |
| ★ 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 | Fall |
| 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 | Fall |
| 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 |

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| 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 | | | |
|--------------------|---|--------------|---|
| Course ID | Course Title | Credit Hours | Notes |
| 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 | Spring |
| AR126 | Jewelry Design I | 3.00 | Fall |
| AR134 | Introduction to Digital Imagery--Photoshop | 3.00 | Fall |
| 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. |
| EN122 | Science Fiction Literature | 3.00 | Prereq: EN100 English Comp IB with a grade of C or higher, or EN101 English Composition IA with a grade of C or higher. |
| EN128 | Introduction to Creative Writing ▾ | 3.00 | Fall, Spring |
| EN201 | Introduction to Literature ▾ | 3.00 | Fall, Spring, 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. |
| EN206 | Contemporary Literature | 3.00 | Prereq: EN101/G=C,EN100/G=C,EN103/G=C is not a valid prereq code. |
| 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. |
| EN215 | Medieval Literature in Contemporary Society | 3.00 | Prereq: EN100 or EN101 or EN103 with a grade of C or higher. |
| EN216 | Vampires in Literature and Film | 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. |
| 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 |

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| HI201 | Topics in History | 3.00 | Spring |
| 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 |
| MU125 | Jazz Improvisation I | 1.00 | |
| 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 | Fall, Spring |
| MU149 | Vocal Jazz/Sonance II | 1.00 | Fall, Spring Prereq: MU148 Vocal Jazz/Sonance I. |
| MU150 | Vocal Jazz/Sonance III | 1.00 | Fall, Spring Prereq: MU149 Vocal Jazz/Sonance II. |
| MU151 | Vocal Jazz/Sonance IV | 1.00 | Fall, Spring 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. |
| MU208 | History of Art Music of the Western World | 3.00 | |
| 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 | Fall |
| SP101 | Elementary Spanish I ▶ | 5.00 | Fall, Spring, Summer |

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| 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

| Course ID | Course Title | Credit Hours | Notes |
|-----------|--|--------------|--|
| ★ 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

| Course ID | Course Title | Credit Hours | Notes |
|-----------|--|--------------|---|
| 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 | Fall |
| 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 | Fall, Spring, Summer Prereq: SO100 Fundamentals of Sociology. |

Soils & Range Mgmt Option

| Course ID | Course Title | Credit Hours | Notes |
|-----------|--------------|--------------|-------|
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| 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 | |

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.