

Focus Areas:

Agribusiness, Agronomy,
Livestock Production,
Communications, Equine
Science, Ag Engineering,
Pre-Veterinarian, Precision
Agriculture, Horticulture

Employment:

Entry level positions at
minimum wage with
a certificate.
\$30,000-\$60,000
with an
associate's
degree.

AGRICULTURE

Department Chair: Jamieson Gross
jgross@cloud.edu •• 243.1435, ext. 273



Potential Careers:

- Agronomist
- Ag & Food Science Technician
- Ranch Manager
- Agriculture Teacher/Professor
- Communications Specialist

Agriculture includes the principles of animal care, crop and vegetable farming, marketing of farm products, sustainable practices, and large property management. Certificates in the areas of Production and Services, Agri-Biotechnology, and Precision Agriculture can be completed in one year or less and can be a starting point for a two-year degree. A.A.S. and A.G.S. degrees are considered "ready for work" programs. Students interested in pursuing a Bachelor's degree should enroll in the A.S. degree. The Ag unit provides a hands-on learning lab for students in Agriculture.

DEGREES & CERTIFICATES

| | |
|--|---|
| Production & Services16-hour certificate | Agri-Biotechnology..... A.A.S. - 67 hours |
| Agri-Biotechnology.....32-hour certificate | Precision Agriculture..... A.A.S. - 62 hours |
| Precision Agriculture.....30-hour certificate | Production & Services A.A.S. - 62 hours |
| Production & Services30-hour certificate | Associate of General Studies..... A.G.S. - 62 hours |
| Production & Services45-hour certificate | Associate of Science A.S. - 62 hours |

Ag Education majors, refer to the Education Field of Study

Fields of Study

AGRICULTURE

AGRICULTURE PRODUCTION & SERVICES

16-Hour Certificate

Required General Education Courses 3 cr

| | |
|---|---|
| <i>Mathematics Requirement</i> | 3 |
| MA110 Intermediate Algebra (3 cr) or | |
| MA105 Survey of Math (3 cr) or | |
| Mathematics General Education Course | |

Required Agriculture Courses 6-7 cr

| | |
|---|-----|
| AG127 Ag Science (4 cr) or | |
| AG101 Plant Science (4 cr) or | |
| AG150 Introduction to Horticulture (4 cr) or | |
| AG115 Animal Science (3cr) | 3-4 |

| | |
|---|---|
| AG132 Agriculture Management (3 cr) or | |
| AG134 Agricultural Marketing (3 cr) | 3 |

Elective Courses 6-7 cr

| | |
|---|-----|
| AG102 Intro to Plant Pest Control | 3 |
| AG105 Range Management | 3 |
| AG111 Animal Management | 3 |
| AG116 Principle of Feeding | 3 |
| AG123 Beef Science | 2 |
| AG128 Animal Health & Nutrition | 3 |
| AG166 Fundamentals of Livestock Nutrition | 3 |
| AG170 Wildlife Management | 3 |
| AG210 Ag Advertising & Design | 3 |
| AG217 Farm Computer Applications | 3 |
| AG220 Cooperative Ed Internship | 1-4 |



Fields of Study

AGRICULTURE

AGRI-BIOTECHNOLOGY

32-Hour Certificate

General Education Required Courses 9 cr

| | | |
|-------|-------------------|---|
| SC101 | General Biology | 4 |
| SC130 | General Chemistry | 5 |

Required Agri-Biotechnology Courses 23 cr

| | | |
|-------|---|---|
| CM101 | English Composition I | 3 |
| AG127 | Ag Science for Agri-Biotechnology | 4 |
| AG147 | Lab Methods for Agri-Biotechnology | 4 |
| AG160 | Introduction to Biotechnology | 3 |
| AG236 | Molecular Biology for Agri-Biotechnology | 4 |
| AG237 | Integrated Organic Chemistry & Biochemistry for Agri-Biotechnology | 5 |



Fields of Study

AGRICULTURE

PRECISION AGRICULTURE

30-Hour Certificate

Required General Education Courses 6 cr

| | |
|--|---|
| <i>Mathematics Requirement</i> | 3 |
| MA110 Intermediate Algebra (3 cr) or MA105 Survey of Math (3 cr) or Mathematics General Education Course | |
| <i>Natural Science Requirement (1 area required)</i> | 3 |
| Physical Science General Education Biological Science General Education | |

Required Precision Agriculture Courses 19 cr

| | |
|--|---|
| AG101 Plant Science | 4 |
| AG102 Introduction to Plant Pest Control | 3 |
| AG132 Agriculture Management | 3 |
| AG255 Precision Ag Hardware | 3 |
| AG256 Precision Ag Software | 3 |
| AG257 Precision Ag Machine Data Management | 3 |

Elective Courses * (CCCC) 5 cr

| | |
|---|---|
| AG103 Plant & Soils for Crop Production | 3 |
| AG104 Soils | 4 |
| AG105 Range Management | 3 |
| AG106 Soil Classification and Evaluation | 1 |
| AG107 Agronomy Id & Experimentation | 1 |
| AG112 Agronomy Id & Experimentation II | 1 |
| AG115 Animal Science | 3 |
| AG134 Agriculture Marketing | 3 |
| AG160 Introduction to Biotechnology | 3 |
| AG164 Advanced Soil Classification & Evaluation | 1 |
| AG210 Ag Advertising & Design | 3 |
| AG217 Farm Computer Applications | 3 |
| UA100 Introduction to sUAS | 3 |
| UA201 sUAS Command, Control, & Comm | 3 |
| UA210 sUAS Systems & Conceptual Design | 3 |
| WE110 Electrical Theory | 3 |
| WE240 GIS/GPS | 3 |

Courses CCCC will accept as Electives from Highland CC*

| |
|--|
| AB126 Principles of Agronomy |
| AB128 Agriculture Electronic Devices & Systems |
| AB130 Precision Farming Systems |
| AB136 Intro to Agricultural GIS |
| AB138 Remote Sensing |
| AB142 Field Mapping for Decision Making |
| AB144 Intermediate Agricultural GIS |
| AB244 Precision Agriculture Capstone |

*All electives should be selected with assistance from an advisor. Substitutions must be approved by department chair.



Fields of Study

AGRICULTURE

AGRICULTURE PRODUCTION & SERVICES

30-Hour Certificate

Required General Education Courses 6 cr

| | |
|--|---|
| <i>Mathematics Requirement</i> | 3 |
| MA110 Intermediate Algebra (3 cr) or MA105 Survey of Math (3 cr) or Mathematics General Education Course | |
| <i>Natural Science Requirement (1 area required)</i> | 3 |
| Physical Science General Education Biological Science General Education | |

Required Agriculture Courses 7-10 cr

| | |
|---|-----|
| AG127 Ag Science (4 cr) | |
| or | |
| AG101 Plant Science (4 cr) or AG150 Introduction to Horticulture (4 cr) and AG115 Animal Science (3cr) | 4-7 |
| AG132 Agriculture Management (3 cr) or AG134 Agricultural Marketing (3 cr) | 3 |

Elective Courses 14 -17 cr

Economics

| | |
|---|-----|
| AG130 Principles of Agriculture Economics | 3 |
| AG132 Ag Management | 3 |
| AG134 Ag Marketing | 3 |
| AG155 Comparative Ag | 3 |
| AG217 Farm Computer Applications | 3 |
| AG210 Ag Advertising and Design | 3 |
| AG220 Cooperative Ed Internship | 1-6 |

Agronomy

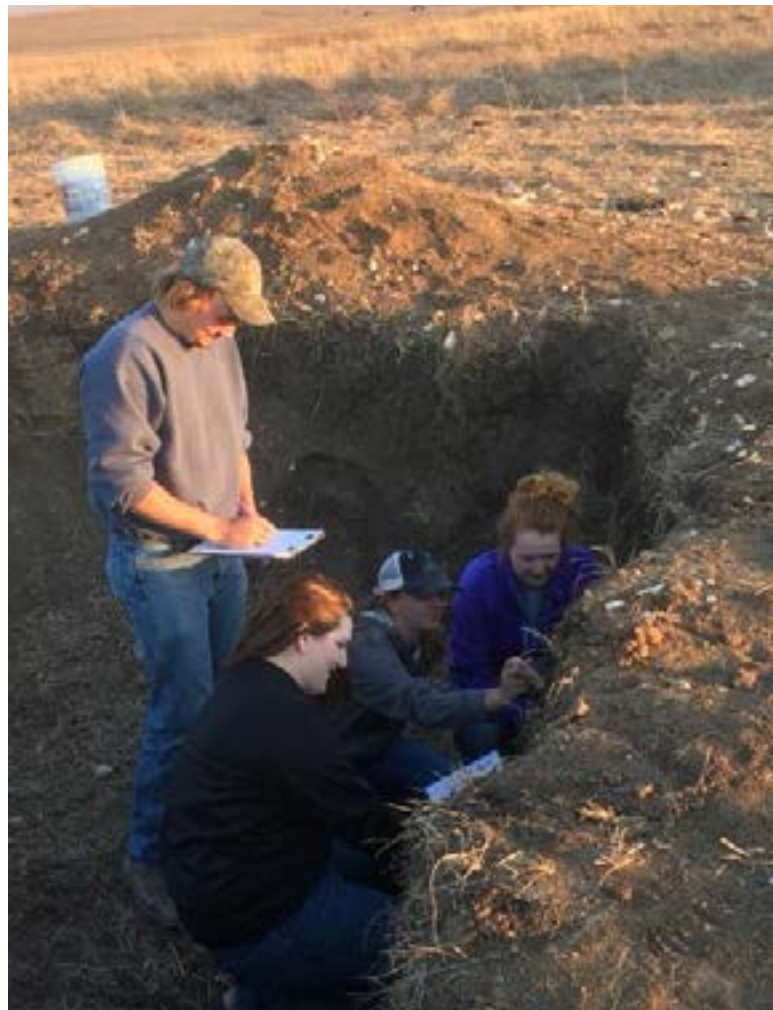
| | |
|--|-----|
| AG102 Intro to Plant Pest Control | 3 |
| AG103 Plants & Soils for Crop Production | 3 |
| AG104 Soils | 4 |
| AG105 Range Management | 3 |
| AG106 Soil Classification and Evaluation | 1 |
| AG107 Agronomy ID & Experimentation | 1 |
| AG155 Comparative Ag | 1 |
| AG160 Intro to Biotechnology | 3 |
| AG220 Cooperative Ed Internship | 1-6 |

Animal Science

| | |
|--|-----|
| AG111 Animal Management | 3 |
| AG116 Principle of Feeding | 3 |
| AG118 Principles of Livestock Selection | 2 |
| AG119 Principles of Livestock Selection II | 1 |
| AG123 Beef Science | 2 |
| AG128 Animal Health & Nutrition | 3 |
| AG139 Farm Animal Reproduction | 3 |
| AG155 Comparative Ag | 1 |
| AG159 Equine Evaluation | 1 |
| AG160 Intro to Biotechnology | 3 |
| AG166 Fundamentals of Livestock Nutrition | 3 |
| AG220 Cooperative Ed Internship | 1-6 |

Equine Science

| | |
|---|-----|
| AG111 Animal Management | 3 |
| AG116 Principles of Feeding | 3 |
| AG122 Intro to Horsemanship | 2 |
| AG128 Animal Health & Nutrition | 3 |
| AG139 Farm Animal Reproduction | 3 |
| AG155 Comparative Ag | 1 |
| AG156 Equine Care | 2 |
| AG157 Equine Industry Management I | 3 |
| AG159 Equine Evaluation | 1 |
| AG160 Intro to Biotechnology | 3 |
| AG165 Equine Evaluation II | 2 |
| AG166 Fundamentals of Livestock Nutrition | 3 |
| AG220 Cooperative Ed Internship | 1-6 |



Fields of Study

AGRICULTURE

AGRICULTURE PRODUCTION & SERVICES 45-Hour Certificate

Required General Education Courses 10 cr

| | |
|--|---|
| <i>Communication Requirement</i> | 3 |
| CM115 Public Speaking (3 cr) or Interpersonal Communications (3 cr) | |
| <i>Mathematics Requirement</i> | 3 |
| MA110 Intermediate Algebra (3 cr) or MA105 Survey of Math (3 cr) or Mathematics General Education Course | |
| <i>Natural Science Requirement (1 area required)</i> | 4 |
| Physical Science General Education Biological Science General Education | |

Required Agriculture Courses 10-13 cr

| | |
|--|-----|
| AG127 Ag Science (4 cr) | |
| or | |
| AG101 Plant Science (4 cr) or AG150 Introduction to Horticulture (4 cr) and AG115 Animal Science (3cr) | 4-7 |
| AG130 Principles of Agriculture Economics | 3 |
| AG132 Agriculture Management or AG134 Agriculture Marketing | 3 |

Elective Courses 22 -25 cr

| | |
|--|---|
| Business/Economics | |
| AG130 Principles of Agriculture Economics | 3 |
| AG132 Ag Management | 3 |
| AG134 Ag Marketing | 3 |
| AG217 Farm Computer Applications | 3 |
| AG210 Ag Advertising and Design | 3 |
| AG212 Agricultural Law | 2 |
| BE161 Accounting I | 3 |
| BE162 Accounting II | 3 |
| BE188 Principles of Advertising | 3 |
| Agronomy | |
| AG102 Intro to Plant Pest Control | 3 |
| AG103 Plants & Soils for Crop Production | 3 |
| AG104 Soils | 4 |
| AG105 Range Management | 3 |
| AG106 Soil Classification and Evaluation | 1 |
| AG107 Agronomy ID & Experimentation | 1 |
| AG160 Intro to Biotechnology | 3 |
| Animal Science | |
| AG111 Animal Management | 3 |
| AG118 Principles of Livestock Selection | 2 |
| AG119 Principles of Livestock Selection II | 1 |
| AG123 Beef Science | 2 |
| AG128 Animal Health & Nutrition | 3 |
| AG139 Farm Animal Reproduction | 3 |
| AG159 Equine Evaluation | 1 |
| AG166 Fundamentals of Livestock Nutrition | 3 |

Equine Science

| | |
|------------------------------------|---|
| AG111 Animal Management | 3 |
| AG122 Intro to Horsemanship | 2 |
| AG128 Animal Health & Nutrition | 3 |
| AG139 Farm Animal Reproduction | 3 |
| AG157 Equine Industry Management I | 3 |
| AG159 Equine Evaluation | 1 |
| AG165 Equine Evaluation II | 2 |

Commercial Gardening

| | |
|--|---|
| AG102 Intro to Plant Pest Control | 3 |
| AG103 Plants & Soils for Crop Production | 3 |
| AG104 Soils | 4 |
| AG105 Range Management | 3 |
| AG106 Soil Classification and Evaluation | 1 |
| AG107 Agronomy ID & Experimentation | 1 |
| AG160 Intro to Biotechnology | 3 |
| AG240 The Horticulture Industry | 3 |
| AG241 Commercial Productions of Fruits & Vegetables | 3 |

General Electives

| | |
|---|-----|
| AG155 Comparative Ag | 1 |
| AG220 Cooperative Ed Internship | 1-6 |
| AG299 CDL: Maps, Log Books, and DOT Regulations | 1 |
| AG300 CDL: Commercial Driver's License | 1 |
| AG301 Truck & Tractor Trailer Vehicle Inspection & Maintenance | 1 |
| AG302 In City Commercial Driver's License Driving | 1 |

Fields of Study

AGRICULTURE

AGRI-BIOTECHNOLOGY

Associate of Applied Science - 67 Hours

General Education Required Courses 17-20 cr

Communication Requirement 3-6

Proven English Grammatical Proficiency **or**
 CM101 English Composition I (3 cr) **or**
 CM120 Survey of Technical Writing (3 cr)
 CM115 Public Speaking (3 cr) **or**
 Interpersonal Communications (3 cr)

Humanities Requirement (1 area required) 3

Art Humanities
 Music Literature
 Theatre Philosophy
 Foreign Language History

Mathematics Requirement 3

MA110 Intermediate Algebra (3 cr) **or**
 MA105 Survey of Math (3 cr) **or**
 Mathematics General Education Course

Natural Science Requirement 5

SC110 Principles of Biology I

Social/Behavioral Science Requirement 3

SS130 Introduction to Sociology

Required Agri-Biotechnology Courses 30 cr

AG127 Ag Science for Agri-Biotechnology 4
 AG147 Lab Methods in Agri-Biotechnology 4
 AG160 Introduction to Biotechnology 3
 AG236 Molecular Biology for Agri-Biotechnology 4
 AG237 Integrated Organic Chemistry &
 Biochemistry for Agri-Biotechnology 5
 SC111 Microbiology Lecture 3
 SC112 Microbiology Lab 2
 SC131 Chemistry I 5

Elective Courses 17-20 cr

AG101 Plant Science 4
 AG108 Environmental Quality 3
 AG109 Environmental Quality Lab 1
 AG115 Animal Science 3
 AG220 Cooperative Ed Internship 2
 SC120 Human Anatomy & Physiology I 4
 SC121 Human Anatomy & Physiology II 4



Fields of Study

AGRICULTURE

PRECISION AGRICULTURE

Associate of Applied Science - 62 Hours

Required General Education Courses 16-19 cr

| | |
|--|-------------------|
| <i>Communication Requirement</i> | 3-6 |
| Proven English Grammatical Proficiency or | |
| CM101 English Composition I (3 cr) or | |
| CM120 Survey of Technical Writing (3 cr) | |
| CM115 Public Speaking (3 cr) or | |
| Interpersonal Communications (3 cr) | |
| <i>Humanities Requirement (1 area required)</i> | 3 |
| Art | Humanities |
| Music | Literature |
| Theatre | Philosophy |
| Foreign Language | History |
| <i>Mathematics Requirement</i> | 3 |
| MA110 Intermediate Algebra (3 cr) or | |
| MA105 Survey of Math (3 cr) or | |
| Mathematics General Education Course | |
| <i>Natural Science Requirement (1 area required)</i> | 4 |
| Biological Science General Education | |
| Physical Science General Education | |
| <i>Social/Behavioral Science Requirement</i> | 3 |
| (1 area required) | |
| Economics | Anthropology |
| Psychology | Political Science |
| Sociology | Geography |

Required Precision Agriculture Courses 19 cr

| | |
|--|---|
| AG101 Plant Science | 4 |
| AG102 Introduction to Plant Pest Control | 3 |
| AG132 Agriculture Management | 3 |
| AG255 Precision Ag Hardware | 3 |
| AG256 Precision Ag Software | 3 |
| AG257 Precision Ag Machine Data Management | 3 |

Elective Courses (CCCC) 24-27 cr

| | |
|---|---|
| AG103 Plant & Soils for Crop Production | 3 |
| AG104 Soils | 4 |
| AG105 Range Management | 3 |
| AG106 Soil Classification and Evaluation | 1 |
| AG107 Agronomy Id & Experimentation | 1 |
| AG112 Agronomy Id & Experimentation II | 1 |
| AG115 Animal Science | 3 |
| AG134 Agriculture Marketing | 3 |
| AG160 Introduction to Biotechnology | 3 |
| AG164 Advanced Soil Classification & Evaluation | 1 |
| AG210 Ag Advertising & Design | 3 |
| AG217 Farm Computer Applications | 3 |
| UA100 Introduction to sUAS | 3 |
| UA201 sUAS Command, Control, & Comm | 3 |
| UA210 sUAS Systems & Conceptual Design | 3 |
| WE110 Electrical Theory | 3 |
| WE240 GIS/GPS | 3 |

Courses CCCC will accept as Electives from Highland CC*

| | |
|-------|--|
| AB126 | Principles of Agronomy |
| AB128 | Agriculture Electronic Devices & Systems |
| AB130 | Precision Farming Systems |
| AB136 | Intro to Agricultural GIS |
| AB138 | Remote Sensing |
| AB142 | Field Mapping for Decision Making |
| AB144 | Intermediate Agricultural GIS |
| AB244 | Precision Agriculture Capstone |



Fields of Study

AGRICULTURE

AGRICULTURE PRODUCTION & SERVICES

Associate of Applied Science - 62 Hours

Required General Education Courses 16-19 cr

Communication Requirement 3-6

- Proven English Grammatical Proficiency **or**
 CM101 English Composition I (3 cr) **or**
 CM120 Survey of Technical Writing (3 cr)
 CM115 Public Speaking (3 cr) **or**
 Interpersonal Communications (3 cr)

Humanities Requirement (1 area required) 3

- Art Humanities
 Music Literature
 Theatre Philosophy
 Foreign Language History

Mathematics Requirement 3

- MA110 Intermediate Algebra (3 cr) **or**
 MA105 Survey of Math (3 cr) **or**
 Mathematics General Education Course

Natural Science Requirement 4

- Science Gen Ed with Lab

Social/Behavioral Science Requirement (1 area required) 3

- Economics Anthropology
 Psychology Political Science
 Sociology Geography

Required Agriculture Courses 19 cr

- AG101 Plant Science (4 cr) **or**
 AG150 Introduction to Horticulture (4 cr) 4
 AG115 Animal Science 3
 AG130 Principles of Ag Economics 3
 AG132 Agriculture Management 3
 AG134 Agriculture Marketing 3
 AG210 Agriculture Advertising and Design 3

Elective Courses 24-27 cr

Economics

- AG155 Comparative Ag 1
 AG157 Equine Industry Management I 3
 AG190 Marketing the Equine Industry 3
 AG217 Farm Computer Applications 3
 AG220 Cooperative Ed Internship 1-6
 AG300 Commercial Driver's License 1
 BE100 Introduction to Business 3
 BE160 Business Accounting 3
 BE161 Accounting I 3
 BE162 Accounting II 3
 BE188 Principles of Advertising 3
 MG102 Small Business Management 3

Agronomy

- AG102 Intro to Plant Pest Control 3
 AG103 Plant & Soils for Crop Production 3
 AG104 Soils 4
 AG105 Range Management 3

- AG106 Soil Classification 1
 AG107 Agronomy Identification & Experimentation 1
 AG108 Environmental Quality 3
 AG109 Environmental Quality Lab 1
 AG112 Agronomy Identification & Experimentation 1
 AG155 Comparative Agriculture 1
 AG160 Introduction to Biotechnology 3
 AG164 Advanced Soil Classification & Evaluation 1
 AG170 Wildlife Management 3
 AG220 Coop Ed Internship 1-6
 AG300 Commercial Driver's License 1
 BE152 Salesmanship 3
 WE240 GIS/GPS 3

Animal Science

- AG111 Animal Management 3
 AG116 Principles of Feeding 3
 AG118 Principles of Livestock Selection I 1
 AG119 Principles of Livestock Selection II 2
 AG128 Animal Health and Nutrition 3
 AG139 Farm Animal Reproduction 4
 AG155 Comparative Agriculture 1
 AG156 Equine Care 2
 AG159 Equine Evaluation 1
 AG160 Introduction to Biotechnology 3
 AG166 Fundamentals of Livestock Nutrition 3
 AG220 Coop Ed Internship 1-3
 AG230 Equine Reproduction 3

Equine Science

- AG111 Animal Management 3
 AG116 Principles of Feeding 3
 AG122 Introduction to Horsemanship 2
 AG128 Animal Health & Nutrition 3
 AG139 Farm Animal Reproduction 4
 AG155 Comparative Agriculture 1
 AG157 Equine Industry Management 3
 AG159 Equine Evaluation 1
 AG160 Introduction to Biotechnology 3
 AG165 Equine Evaluation II 1
 AG166 Fundamentals of Livestock Nutrition 3
 AG190 Marketing the Equine Industry 3
 AG220 Coop Ed Internship 1-3

Substitutions must be approved by the department chair.



Fields of Study

AGRICULTURE

Associate of General Studies - 62 Hours

Required General Education Courses 25 cr

| | |
|---|---|
| <i>Communication Requirement</i> | 6 |
| CM101 English Composition I (3 cr) | |
| CM115 Public Speaking (3 cr) or | |
| CM240 Interpersonal Communications (3 cr) | |

| | |
|---|---|
| <i>Mathematics Requirement</i> | 3 |
| Mathematics General Education Course or | |
| MA110 Intermediate Algebra (3 cr) | |

| | |
|-------------------------------|---|
| <i>Humanities Requirement</i> | 3 |
| Art Humanities | |
| Music Literature | |
| Theatre Philosophy | |
| Foreign Language History | |

| | |
|--|---|
| <i>Social/Behavioral Science Requirement</i> | 3 |
| Economics Anthropology | |
| Psychology Political Science | |
| Sociology Geography | |

| | |
|---|---|
| <i>Humanities or Social Science Requirement</i> | 3 |
| (Must be from second area) | |

| | |
|------------------------------------|---|
| <i>Natural Science Requirement</i> | 4 |
| Physical Science w/lab or | |
| Biological Science w/lab | |

| | |
|--|---|
| <i>Open General Education Elective</i> | 3 |
|--|---|

Required Agriculture Courses 13 cr

| | |
|--|---|
| AG101 Plant Science or | |
| AG150 Introduction to Horticulture | 4 |
| AG115 Animal Science | 3 |
| AG130 Principles of Ag Economics | 3 |
| AG210 Agriculture Advertising and Design | 3 |

Elective Courses 18 cr

Agronomy

| | |
|--------------------------------------|---|
| AG102 Intro to Plant Pest Control | 3 |
| AG103 Plant and Soils for Crop Prod. | 3 |
| AG104 Soils | 4 |
| AG105 Range Management | 3 |
| AG106 Soil Classification and Eval | 1 |
| AG107 Agronomy ID and Exp. | 1 |
| AG112 Agronomy ID and Exp. II | 1 |
| AG108 Environmental Quality | 3 |
| AG109 Environmental Quality Lab | 1 |
| AG164 Advanced Soil Class and Eval | 1 |

Animal Science

| | |
|---------------------------------------|---|
| AG111 Animal Management | 3 |
| AG116 Principles of Feeding | 3 |
| AG118 Prin. of Livestock Selection I | 2 |
| AG119 Prin. of Livestock Selection II | 1 |
| AG123 Beef Science | 3 |

| | |
|-----------------------------------|---|
| AG127 Ag. Sci. of Agri-Biotech | 4 |
| AG128 Animal Health and Nutrition | 3 |
| AG139 Farm Animal Reproduction | 4 |
| AG160 Intro to Biotechnology | 3 |

Business

| | |
|-----------------------------------|---|
| AG132 Agriculture Management | 3 |
| AG134 Agricultural Marketing | 3 |
| AG147 Lab Methods in Ag-Biotech | 4 |
| AG217 Farm Computer Application I | 3 |
| BE100 Intro to Business | 3 |
| BE121 Business Communications | 3 |
| BE139 Basic Personal Finance | 1 |
| BE152 Salesmanship | 3 |
| BE153 Personal Finance | 3 |
| BE154 Business Law | 3 |
| BE155 Marketing | 3 |
| BE160 Business Accounting | 3 |
| BE161 Accounting I | 3 |
| BE162 Accounting II | 3 |
| BE165 Computerized Accounting | 3 |
| BE166 Payroll Accounting | 3 |
| BE170 Business Statistics | 3 |
| BE172 Customer Service | 3 |
| BE185 Human Resource Management | 3 |
| BE188 Principles of Advertising | 3 |
| MG101 Management Principles | 3 |
| MG102 Small Business Management | 3 |

Communications

| | |
|---|---|
| AR120 Design I | 3 |
| AR121 Graphic Design I | 3 |
| AR129 Introduction to Digital Photography | 3 |
| CM129 Media Law and Ethics | 3 |
| CM136 Mass Communications Software | 3 |
| CM137 Intro to Multimedia Communications | 3 |
| CM138 Broadcast News | 3 |
| CM155 Digital Magazine Prod: Storytelling | 3 |
| CM156 Digital Magazine Prod: Design and Style | 3 |
| CM157 Mass Media Production I | 3 |
| CM158 Mass Media Production II | 3 |
| CS104 Intro to Website Design | 3 |
| CS107 Graphic Software Applications | 3 |



Fields of Study

AGRICULTURE

Associate of General Studies (con't)

| | | | | |
|-------|--|-----|--|--|
| JN100 | Mass Media in Society | 3 | | |
| JN101 | Basic Media Writing | 3 | | |
| JN140 | Beyond Web 2.0: Social Media as Identity | 3 | | |
| | Equine | | | |
| AG122 | Intro to Horsemanship | 2 | | |
| AG125 | Horse Science | 3 | | |
| AG129 | Equine Groundwork Training | 2 | | |
| AG157 | Equine Industry Management I | 3 | | |
| AG159 | Equine Evaluation | 1 | | |
| AG165 | Equine Evaluation II | 1 | | |
| AG166 | Fund. of Livestock Nutrition | 3 | | |
| AG188 | Varsity Sports: Eques/Rodeo I | 1 | | |
| AG189 | Varsity Sports: Eques/Rodeo II | 1 | | |
| AG190 | Marketing the Equine Industry | 3 | | |
| AG225 | Basic Equitation | 3 | | |
| AG226 | Advanced Equitation | 3 | | |
| AG228 | Focused Equitation | 3 | | |
| | Commercial Gardening | | | |
| AG102 | Intro to Plant Pest Control | 3 | | |
| AG240 | The Horticulture Industry | 3 | | |
| AG241 | Com. Prod. of Fruit and Veg. | 3 | | |
| | Agri-Biotechnology | | | |
| AG160 | Intro to Biotechnology | 3 | | |
| AG236 | Molecular Bio for Agri-Biotech | 4 | | |
| AG237 | Int. Org. & Biochem for AgBio | 5 | | |
| AG250 | Intro to Genetic Engineering | 4 | | |
| | Precision Agriculture | | | |
| AG255 | Precision Ag Hardware | 3 | | |
| AG256 | Precision Ag Software | 3 | | |
| AG257 | Prec. Ag Machine Data Man. | 3 | | |
| WE240 | GIS/GPS | 3 | | |
| | Additional Electives | | | |
| AG170 | Wildlife Management | 3 | | |
| AG220 | Cooperative Education Internship | 1-4 | | |
| AG299 | CDL: maps, log books, DOT Regs | 1 | | |
| AG300 | Commercial Driver's License | 1 | | |
| AG301 | Truck and Tractor Trailer Insp & Maint | 1 | | |
| AG302 | In City CDL Driving | 1 | | |
| CS108 | Computer Applications | 3 | | |
| IE106 | Welding | 3 | | |
| IE107 | Advanced Welding | 3 | | |
| IE116 | OSHA 10-Hour Construction Training | .5 | | |
| IE117 | OSHA 10-Hour General Industry Training | .5 | | |
| WE120 | Hydraulics | 3 | | |
| WE150 | Mechanical Systems | 3 | | |
| WE240 | GIS/GPS | 3 | | |
| SE100 | Introduction to Solar Energy | 3 | | |
| UA100 | Intro to UAV | 3 | | |
| UA210 | sUAS Systems & Conceptual Design | 3 | | |
| WE110 | Electrical Theory | 3 | | |
| | Life Skills | | | |
| BE139 | Basic Personal Finance | 1 | | |
| BE210 | Leadership Development | 3 | | |
| PE141 | Personal Wellness | 3 | | |
| PE250 | Stress Management | 3 | | |
| SS106 | Marriage and Family | 3 | | |

Open Electives

6 cr



Fields of Study

AGRICULTURE

Associate of Science - 62 Hours

Required General Education Courses 32 - 34 cr

| | |
|---|------|
| <i>Communication Requirement</i> | 9 |
| CM101 English Composition I (3 cr) | |
| CM102 English Composition II (3 cr) | |
| CM115 Public Speaking (3 cr) or | |
| CM240 Interpersonal Communications (3 cr) | |
| <i>Humanities Requirement (2 areas required)</i> | 6 |
| Art Humanities | |
| Music Literature | |
| Theatre Philosophy | |
| Foreign Language History | |
| <i>Mathematics Requirement</i> | 3 |
| Mathematics General Education Course | |
| <i>Natural Science Requirement (2 areas required)</i> | 8-10 |
| Physical Science (4-5 cr) | |
| Biological Science (4-5 cr) | |
| <i>Social/Behavioral Science Requirement (2 areas required)</i> | 6 |
| Economics Anthropology | |
| Psychology Political Science | |
| Sociology Geography | |

Required Agriculture Courses 13 cr

| | |
|--|---|
| AG101 Plant Science or | |
| AG150 Introduction to Horticulture | 4 |
| AG115 Animal Science | 3 |
| AG130 Principles of Ag Economics | 3 |
| AG210 Agriculture Advertising and Design | 3 |

Elective Courses 11 cr

| | |
|--------------------------------------|---|
| Agronomy | |
| AG102 Intro to Plant Pest Control | 3 |
| AG103 Plant and Soils for Crop Prod. | 3 |
| AG104 Soils | 4 |
| AG105 Range Management | 3 |
| AG106 Soil Classification and Eval | 1 |
| AG107 Agronomy ID and Exp. | 1 |
| AG112 Agronomy ID and Exp. II | 1 |
| AG108 Environmental Quality | 3 |
| AG109 Environmental Quality Lab | 1 |
| AG164 Advanced Soil Class and Eval | 1 |

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| Animal Science | |
| AG111 Animal Management | 3 |
| AG116 Principles of Feeding | 3 |
| AG118 Prin. of Livestock Selection I | 2 |
| AG119 Prin. of Livestock Selection II | 1 |
| AG123 Beef Science | 3 |
| AG127 Ag Science for Agri-Biotechnology | 4 |
| AG128 Animal Health and Nutrition | 3 |
| AG139 Farm Animal Repro | 4 |

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|-----------------------------------|---|
| Business | |
| AG132 Agriculture Management | 3 |
| AG134 Agricultural Marketing | 3 |
| AG147 Lab Methods in Ag-Biotech | 4 |
| AG217 Farm Computer Application I | 3 |
| BE100 Intro to Business | 3 |
| BE152 Salesmanship | 3 |
| BE153 Personal Finance | 3 |
| BE160 Business Accounting | 3 |
| BE161 Accounting I | 3 |
| BE162 Accounting II | 3 |
| BE188 Principles of Advertising | 3 |
| MG102 Small Business Management | 3 |

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| Commercial Gardening | |
| AG240 The Horticulture Industry | 3 |
| AG241 Commercial Production of Fruit & Vegetables | 3 |

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| Communications | |
| CM136 Mass Communications Software | 3 |
| CM137 Intro to Multimedia Communications | 3 |
| JN100 Mass Media in Society | 3 |

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| Equine | |
| AG122 Intro to Horsemanship | 2 |
| AG125 Horse Science | 3 |
| AG129 Equine Groundwork Training | 2 |
| AG157 Equine Industry Management I | 3 |
| AG159 Equine Evaluation | 1 |
| AG165 Equine Evaluation II | 1 |
| AG166 Fund. of Livestock Nutrition | 3 |
| AG188 Varsity Sports: Eques/Rodeo I | 1 |
| AG189 Varsity Sports: Eques/Rodeo II | 1 |
| AG190 Marketing the Equine Industry | 3 |
| AG225 Basic Equitation | 3 |
| AG226 Advanced Equitation | 3 |
| AG228 Focused Equitation | 3 |

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|-----------------------------------|---|
| Math and Science (Pre-Vet) | |
| MA112 Trigonometry | 3 |
| SC110 Principles of Biology | 5 |
| SC111 Microbiology Lecture | 3 |
| SC112 Microbiology Lab | 2 |
| SC131 Chemistry I | 5 |
| SC132 Chemistry II | 5 |
| SC140 College Physics I | 5 |
| SC141 College Physics II | 5 |

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| Additional Electives | |
| AG155 Comparative Ag | 1 |
| AG160 Introduction to Biotechnology | 3 |
| AG170 Wildlife Management | 3 |
| AG220 Cooperative Education Internship | 1-4 |
| WE240 GIS/GPS | 3 |

Open Electives 6 cr