

Fields of Study

CAREER PROGRAMS

Associate of Applied Science Degrees

The career program is for students who want to enter the workforce in a specific career after obtaining an associate degree. An Associate of Applied Science degree is awarded after completion of a minimum of 62 hours in a departmentally approved program, and 124 grade points. Of the hours required, a minimum of 15 hours must be General Education courses. Certificates are also available in the career programs. For information about courses in the career program offered online visit <http://www.cloud.edu/Academics/Online/index>.

Agri-Biotechnology	Communications	Nursing & Allied Health
Agricultural Production & Services	Journalism-Mass Communications	Technical Studies
Precision Agriculture	Visual Communications	Solar Energy
General Business	Emergency Medical Technician (Certificate)	Unmanned Aircraft Systems
	Wind Energy Technology	

GENERALIZED PROFESSIONAL

Associate of General Studies Degrees

The general studies program is designed for students who want to enter the workforce after obtaining an associate degree. This degree allows student flexibility in selected courses applicable to their desired field of study. Both transfer courses and technical courses accumulate toward the 62 hours needed for completion. Of the hours required, a minimum of 24 hours must be General Education courses. After degree completion, students could seek employment or decide to apply coursework toward a transfer program. For information about courses in the program offered online visit <http://www.cloud.edu/Academics/Online/index>.

Agriculture	Business	Communications
Education	Health and Human Performance	Humanities and Fine Arts
Interdisciplinary Studies	Mathematics and Engineering	Pre-Professional Health
Renewable Energy	Science	Social Science

TRANSFER PROGRAM

Associate of Arts and Associate of Science Degrees

The transfer program is designed for students planning to enter professions requiring a bachelor's degree. During their time at Cloud, students work toward completing the Associate of Arts or the Associate of Science degree. These 62 credit hour degrees contain required General Education courses as well as electives which, with the aid of an Academic Advisor, may be selected to fulfill freshman and sophomore level course needs in the student's desired major at a four-year college or university. Transfer materials for regional colleges and universities are available in the Advisement Center to assist students and advisors with course selection. Additional transfer information is available on the website <http://www.cloud.edu/Academics/transferability/index>. For information about courses in the transfer program offered online visit <http://www.cloud.edu/Academics/Online/index>.

Agriculture	Health & Human Performance	Engineering	Science
Ag Communications	Athletic Training	Engineering Technology	Biology
Ag Economics	Coaching	Mathematics	Chemistry
Agromony	Kinesiology/Exercise	Pre-Professional Health	Physical Science
Animal Science	Science	Pre-Chiropractic	Physics
Equine	Sport Management	Pre-Dental Hygiene	Social Science
Pre-Veterinary Medicine	Dietetics	Pre-Dentistry	Anthropology
Business	Humanities & Fine Arts	Pre-Medicine	Criminal Justice
General Business	Art	Pre-Nursing BSN	Family Studies & Human
Communications	Music	Pre-Occupational Therapy	Services
English	History	Pre-Pharmacy	Family & Consumer Science
Journalism/	Political Science/Pre-Law	Pre-Physical Therapy	Sociology/Social Work/
Mass Communications	Interdisciplinary Studies	Pre-Physican Assistant	Counseling
Speech/Theatre	Mathematics & Engineering	Pre-Radiological Tech	Renewable Energy
Education	Architecture	Pre-Respiratory Therapy	Renewable Energy Policy
Elementary	Actuarial Science		Renewable Energy
Physical Education K-12			Technology
Secondary			Renewable Energy Business

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

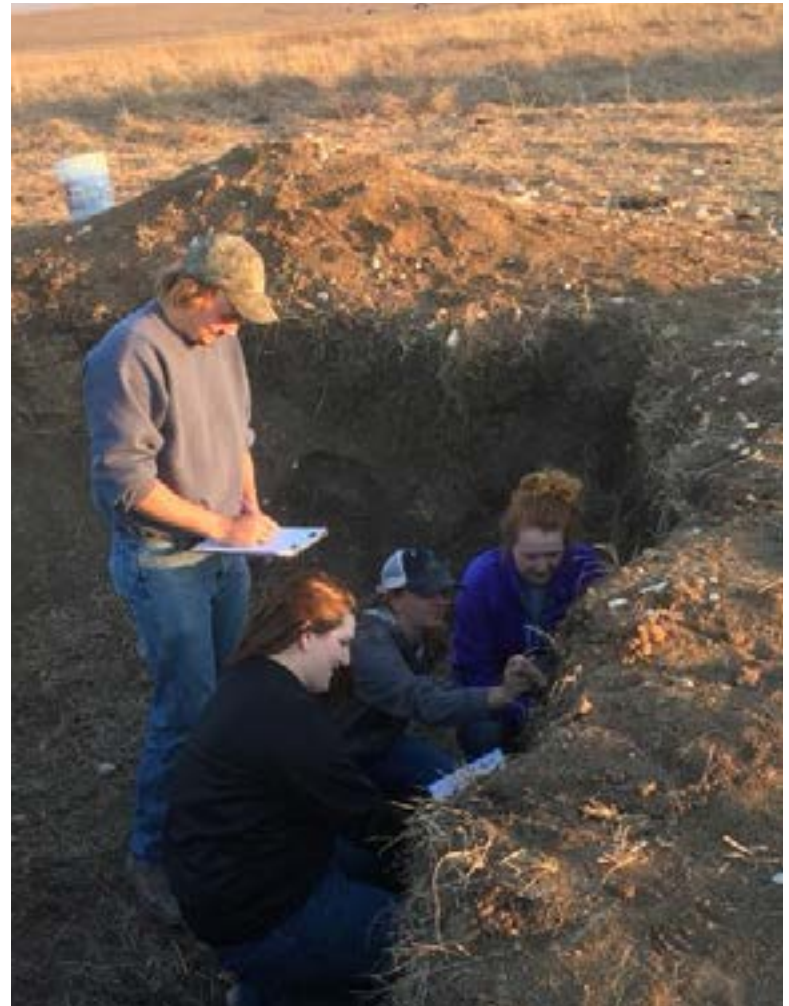
AG102 Intro to Plant Pest Control	3
AG103 Plants & Soils for Crop Production	3
AG104 Soils	4
AG105 Range Management	3
AG106 Soil Classification and Evaluation	1
AG107 Agronomy ID & Experimentation	1
AG155 Comparative Ag	1
AG160 Intro to Biotechnology	3
AG220 Cooperative Ed Internship	1-6

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

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 (1 area required) 4

- Biological Science General Education
 Physical Science General Education

Social/Behavioral Science Requirement (1 area required) 3

- 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

<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</i>	4
Science Gen Ed with Lab	
<i>Social/Behavioral Science Requirement</i>	3
(1 area required)	
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

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

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

Commercial Gardening

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

Communications

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

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

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