



AGRICULTURE BUSINESS & MANAGEMENT TECHNOLOGY

Associate of Applied Science Degree
Certificate

BEATRICE CAMPUS

www.southeast.edu/Agriculture



Agriculture has changed dramatically over the years, and so has Southeast Community College. Our long-standing reputation has continued to evolve into the next generation of Agriculture Business. A two-year degree in this field opens the door to many career options, from crops to livestock to drones and golf turf. Eighty percent of our graduates enter agricultural careers after graduation, while the other 20 percent transfer to a four-year college or university.

Credit Hours Required for Graduation

Certificate

- Precision Agriculture 36.0

Associate of Applied Science Degree

- Agribusiness Focus 132.0
- Agronomy Focus 132.0
- Diversified Agriculture Focus 132.0
- Golf and Sports Turf Management Focus 115.0
- Horticulture Focus 115.0
- Livestock Production Focus 132.0

Types of jobs available:

- Golf Course Superintendent
- Grain Elevator Manager
- Livestock Genetics Salesperson
- Crop Consultant
- Landscaper
- Equipment Salesperson
- Research Technician
- Crop And Livestock Production Specialist
- Commercial Pesticide Applicator
- Gps Precision Specialist
- Agronomist
- Conservationist



Graduate Earnings

Recent graduates report an average starting wage of \$13.20 per hour.



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Precision Agriculture Certificate

Course #	Course title	Credit hrs
AGRI1131	Crop & Food Science	4.5
AGRI1153	Soils & Plant Nutrition	6.0
AGRI1368	Module 1 – Agriculture Software Application	1.0
AGRI1369	Module 2 – Spreadsheet Application	1.0
AGRI1370	Module 3 – Introduction into Precision Agriculture	1.0
AGRI1373	Module 1 – Hardware Fundamentals	.5
AGRI1374	Module 2 – GPS and Auto Steer	1.0
AGRI1375	Module 3 – Planting	1.0
AGRI1376	Module 4 – Application	1.0
AGRI1377	Module 5 – Yield Monitoring and Mapping	1.0
AGRI2380	Module 1 – Key Precision Agriculture Information and Software	1.0
AGRI2381	Module 2 – Basic Software Skills	1.0
AGRI2382	Module 3 – Prescriptions	1.0
AGRI2383	Module 4 – Soil Sampling and Handhelds	1.5
AGRI2396	Module 1 – Advance Software	1.0
AGRI2397	Module 2 – Variable Rate Irrigation	1.5
AGRI2398	Module 3 – Drone (Unmanned Aerial Systems)	2.0
Any math above MATH1040		4.5
		36.0 Hours

Students who wish to pursue an Associate of Science degree in agriculture should visit with an SCC-Beatrice Agriculture Business & Management Technology faculty advisor.

AGRI Core Courses:

Course #	Course title	Credit hrs
AGRI1123	Agribusiness Careers	4.5
AGRI1131	Crop & Food Science	4.5
AGRI1368	Module 1 – Agriculture Software Application	1.0
AGRI1369	Module 2 – Spreadsheet Application	1.0
AGRI1370	Module 3 – Introduction into Precision Agriculture	1.0
AGRI1205	Enterprise Analysis	4.5
AGRI1216	Agribusiness Management	4.5
AGRI2204	Agribusiness Seminar I	4.5
AGRI2291	Ag Business Sales	4.5
AGRI2901	Agribusiness Cooperative Experience	12.0
		42.0 hours

General Education Requirements:

Contact your program advisor to select general education courses from each category which will meet your program's graduation requirements. See the General Education pages for a complete list. (One class from each area below).

Oral Communications	4.5
Written Communications	4.5
(Plus three classes from the five areas below; no two classes from the same area).	
Mathematics, Science, Social Science, Humanities, and/or Computer Technology	13.5
	22.5 hours

Agribusiness Focus:

Skills acquired – Manage or/and own business; operate a farm/ranch; marketing skills; commodity trading; sales; ability to select classes in areas of interest (agronomy, mechanics, livestock)

Jobs – Grain Elevator Manager; Sales Rep; Elevator Operator; Loan Officer; Farm/Ranch Production Owner; Commodity Trader

AGRI1135	Basic Fertilizer Management	3.0
AGRI1141	Livestock Management	6.0
AGRI1153	Soils & Plant Nutrition	6.0
AGRI1211	Fundamentals of Ag Marketing	4.5
AGRI1217	Agricultural Economics	4.5
AGRI1221	Livestock Nutrition	4.5
AGRI2202	Farm and Ranch Management	6.0
AGRI2219	Pesticide Certification (or HORT2219)	3.0
AGRI2267	Agriculture Commodity Marketing	4.5
AGRI2380	Module 1 – Key Precision Agriculture Information and Software	1.0
AGRI2381	Module 2 – Basic Software Skills	1.0
AGRI2382	Module 3 – Prescriptions	1.0
AGRI2383	Module 4 – Soil Sampling and Handhelds	1.5

Select 16.5 hours from the following:

AGRI1124	Basic Ag Leadership	4.5
AGRI1143	Introduction to Equine Management	4.5
AGRI1257	Live Animal Selection & Carcass Evaluation	4.5
AGRI1373	Module 1 – Hardware Fundamentals	.5
AGRI1374	Module 2 – GPS and Auto Steer	1.0
AGRI1375	Module 3 – Planting	1.0
AGRI1376	Module 4 – Application	1.0
AGRI1377	Module 5 – Yield Monitoring and Mapping	1.0
AGRI2220	Ag Chemicals & Equipment Application	4.5
AGRI2223	Principles of Livestock Feeding	4.5
AGRI2231	Applied Animal Reproduction	7.5
AGRI2232	Forage Harvesting and Management (or 2233 or 2253)	6.0
AGRI2233	Planting and Tillage Equipment (or 2232 or 2253)	6.0
AGRI2245	Animal Health	6.0
AGRI2253	Grain Harvesting & Management (or 2232 or 2233)	6.0
AGRI2258	Livestock Ultrasound Technology	3.0
AGRI2265	Irrigation & Water Management	6.0
AGRI2280	Advanced Crop Production	4.5
AGRI2287	Advanced Crop Management	4.5
AGRI2795	History & Structure of Cooperatives	1.0
HORT1132	Horticulture Plant Identification & Selection	4.5
HORT1154	Greenhouse Management	3.0
HORT1155	Basic Landscaping	4.5
HORT1239	Arboriculture	3.0
HORT1242	Turfgrass Management	4.5
HORT2265	Irrigation & Water Management	6.0

Agribusiness Focus: 63.0

Electives: 4.5

67.5 hours

Agronomy Focus:

Skills acquired – operate sprayer; operate farm business; commodity trading; learn to crop scout; learn latest precision ag technology; irrigation opportunities

Jobs – Agronomist; Applicator; Seed Sales; Precision Ag Specialist; Research Technician; Conservationist

AGRI1135	Basic Fertilizer Management	3.0
AGRI1141	Livestock Management	6.0
AGRI1153	Soils & Plant Nutrition	6.0
AGRI1211	Fundamentals of Ag Marketing	4.5
AGRI2202	Farm and Ranch Management (or 2383)	6.0
AGRI2219	Pesticide Certification	3.0
AGRI2220	Ag Chemicals & Equipment Application	4.5
AGRI2233	Planting & Tillage Equipment	6.0
AGRI2253	Grain Harvesting & Management	6.0
AGRI2265	Irrigation & Water Management	6.0
AGRI2380	Module 1 – Key Precision Agriculture Information and Software	1.0
AGRI2381	Module 2 – Basic Software Skills	1.0
AGRI2382	Module 3 – Prescriptions	1.0
AGRI2383	Module 4 – Soil Sampling and Handhelds Or 2202	1.5
AGRI2267	Agriculture Commodity Marketing	4.5
		64.5

Select 9 hours from the following:

AGRI1217	Agricultural Economics	4.5
AGRI1373	Module 1 – Hardware Fundamentals	.5
AGRI1374	Module 2 – GPS and Auto Steer	1.0
AGRI1375	Module 3 – Planting	1.0
AGRI1376	Module 4 – Application	1.0
AGRI1377	Module 5 – Yield Monitoring and Mapping	1.0
AGRI1378	Electrical and Hydraulic Fundamentals	4.5
AGRI2212	Ag Machinery Maintenance	3.0
AGRI2222	Agriculture Analysis	3.0
AGRI2232	Forage Harvesting and Management	6.0
AGRI2240	Range Management	6.0
AGRI2280	Advanced Crop Production	4.5
AGRI2287	Advanced Crop Management	4.5
AGRI2396	Module 1 – Advance Software	1.0
AGRI2397	Module 2 – Variable Rate Irrigation	1.5
AGRI2398	Module 3 – Drone (Unmanned Aerial Systems)	2.0
HORT1136	Plant Propagation	3.0
HORT1154	Greenhouse Management	3.0
HORT1242	Turfgrass Management	4.5

Agronomy Focus: 63.0-64.5

Electives: 3.0-4.5

67.5 hours



Livestock Production Focus:

Skills acquired – wide variety of livestock species (goats, sheep, cattle, swine, horses); artificial insemination; rotational grazing; forage management; animal health; nutrition and digestion

Jobs – Ranch Operator; Feed Specialist; Herdsman; Ranchhand Cowboy; Livestock Genetics Salesperson; Swine Technician

Diversified Agriculture Focus:

Skills acquired – Opportunity to experience a wide variety of classes in agronomy, mechanics, ag business; and livestock

Jobs – Farm/Ranch Manager; Elevator Operator, Seed Sales; Farmhand On Diversified Operation; Applicator; Mechanic

AGRI1141	Livestock Management	6.0
AGRI1153	Soils & Plants Nutrition	6.0
AGRI1211	Fundamentals of Ag Marketing	4.5
AGRI1221	Livestock Nutrition	4.5

Agribusiness courses take a minimum of 6 credits

AGRI1217	Agricultural Economics	4.5
AGRI2202	Farm and Ranch Management	6.0
AGRI2267	Agriculture Commodity Marketing	4.5
AGRI2380	Module 1 – Key Precision Agriculture Information and Software	1.0
AGRI2381	Module 2 – Basic Software Skills	1.0
AGRI2382	Module 3 – Prescriptions	1.0
AGRI2383	Module 4 – Soil Sampling and Handhelds	1.5
AGRI2396	Module 1 – Advance Software	1.0
AGRI2397	Module 2 – Variable Rate Irrigation	1.5
AGRI2398	Module 3 – Drone (Unmanned Aerial Systems)	2.0

Livestock Production courses take a minimum of 12 credits

AGRI1143	Introduction to Equine Management	4.5
AGRI1257	Live Animal Selection & Carcass Evaluation	4.5
AGRI2223	Principles of Livestock Feeding	4.5
AGRI2231	Applied Animal Reproduction	7.5
AGRI2240	Range Management	6.0
AGRI2245	Animal Health	6.0
AGRI2254	Advanced Swine Production	4.5
AGRI2255	Advanced Sheep & Goat Production	4.5
AGRI2256	Advanced Beef Production	4.5
AGRI2258	Livestock Ultrasound Technology	3.0

Agronomy courses take a minimum of 12 credits

AGRI1135	Basic Fertilizer Management	3.0
AGRI2219	Pesticide Certification	3.0
AGRI2220	Ag Chemicals & Equipment Application	4.5
AGRI2222	Agriculture Analysis	3.0
AGRI2240	Range Management	6.0
AGRI2265	Irrigation & Water Management	6.0
AGRI2280	Advanced Crop Production	4.5
AGRI2287	Advanced Crop Management	4.5
HORT1136	Plant Propagation	3.0
HORT1154	Greenhouse Management	3.0
HORT1239	Arboriculture	3.0
HORT1242	Turfgrass Management	4.5
HORT2265	Irrigation & Water Management	6.0

Mechanics courses take a minimum of 9 credits

AGRI1116	Electric & Gas Welding	2.0
AGRI1195	Advanced Electric and Gas Welding	2.0
AGRI1218	Basic Farm Engines	4.5
AGRI1373	Module 1 – Hardware Fundamentals	.5
AGRI1374	Module 2 – GPS and Auto Steer	1.0
AGRI1375	Module 3 – Planting	1.0
AGRI1376	Module 4 – Application	1.0
AGRI1377	Module 5 – Yield Monitoring and Mapping	1.0
AGRI1378	Electrical and Hydraulic Fundamentals	4.5
AGRI2212	Ag Machinery Maintenance	3.0
AGRI2232	Forage Harvesting and Management	6.0
AGRI2233	Planting & Tillage Equipment	6.0
AGRI2253	Grain Harvesting & Management	6.0
AGRI2265	Irrigation & Water Management	6.0
HORT2214	Horticulture Equipment Maintenance	3.0
HORT2265	Irrigation & Water Management	6.0

Diversified Agriculture Focus: 60.0
Electives: 7.5
67.5 hours

AGRI1141	Livestock Management	6.0
AGRI1211	Fundamentals of Ag Marketing	4.5
AGRI1221	Livestock Nutrition	4.5
AGRI1257	Live Animal Selection & Carcass Evaluation	4.5
AGRI2223	Principles of Livestock Feeding	4.5
AGRI2231	Applied Animal Reproduction	7.5
AGRI2245	Animal Health	6.0

Select 18 hours from the following:

AGRI1135	Basic Fertilizer Management	3.0
AGRI1143	Introduction to Equine Management	4.5
AGRI1153	Soils and Plant Nutrition	6.0
AGRI1258	Introduction to Meats	4.5
AGRI2202	Farm and Ranch Management	6.0
AGRI2222	Agriculture Analysis	3.0
AGRI2232	Forage Harvesting and Management	6.0
AGRI2240	Range Management	6.0
AGRI2253	Grain Harvesting & Management	6.0
AGRI2258	Livestock Ultrasound Technology	3.0
AGRI2267	Agriculture Commodity Marketing	4.5
AGRI2280	Advanced Crop Production	4.5
AGRI2287	Advanced Crop Management	4.5

Select 9 hours from the following:

AGRI2254	Advanced Swine Production	4.5
AGRI2255	Advanced Sheep & Goat Production	4.5
AGRI2256	Advanced Beef Cattle Production	4.5

Livestock Focus: 64.5

Electives: 3.0
67.5 hours



The following two focus areas do not include the AGRI Core Classes: Golf and Sports Turf Management and Horticulture.



Golf and Sports Turf Management Focus:

Skills acquired – irrigation; spraying; pesticide certification; troubleshooting; turfgrass care; nutrient management; machinery maintenance

Jobs – Assistant Superintendent/ Superintendent; Spray Technician; Irrigation Technician; Sod Farmer; Sports Turf Manager

AGRI1153	Soils & Plant Nutrition	6.0
AGRI2204	Agribusiness Seminar I	4.5
AGRI2291	Ag Business Sales	4.5
AGRI2220	Ag Chemical and Equipment Application	4.5
AGRI2901	Agribusiness Cooperative Experience	12.0
HORT1130	Intro to Horticulture	4.5
HORT1134	Woody Landscape Plant ID	3.0
HORT1215	Basic Horticulture Equipment Maintenance	6.0
HORT1242	Turfgrass Management & Equipment	4.5
HORT2219	Pesticide Certification	3.0
HORT2265	Irrigation & Water Management	6.0
HORT2288	Golf Course & Sports Management	6.0

Select 30 hours from the following:

AGRI1135	Basic Fertilizer Management	3.0
AGRI2380	Module 1 – Key Precision Agriculture Information and Software	1.0
AGRI2381	Module 2 – Basic Software Skills	1.0
AGRI2382	Module 3 – Prescriptions	1.0
AGRI2383	Module 4 – Soil Sampling and Handhelds	1.5
HORT1136	Plant Propagation	3.0
HORT1154	Greenhouse Management	3.0
HORT1155	Basic Landscape Design	4.5
HORT1190	Management of Turfgrass Pests	4.5
HORT1239	Arboriculture	3.0
HORT2292	Landscape Maintenance	3.0
HORT2286	Advanced Landscaping	4.5
HORT2295	Advanced Golf Course Management	8.0
Golf and Sports Turf Management Focus		111
Electives		4.0
General Electives		22.5
		115.0 hours

Horticulture Focus:

Skills acquired – plant science; introductory landscape design principles; pest certification; tree care; work in landscaping setting; lawn care

Jobs – Garden Center; Landscape Foreman; Plant Health Trainee; Nursery Production; Greenhouse Production; Landscape Entrepreneur

AGRI1153	Soils & Plant Nutrition	6.0
AGRI2204	Agribusiness Seminar I	4.5
AGRI2220	Ag Chemicals & Equipment Application	4.5
AGRI2291	Ag Business Sales	4.5
AGRI2901	Agribusiness Cooperative Experience	12.0
HORT1130	Introduction to Horticulture	4.5
HORT1133	Herbaceous Landscape Plant ID	3.0
HORT1134	Woody Landscape Plant ID	3.0
HORT1216	Horticulture Business Management	4.5
HORT2219	Pesticide Certification	3.0
HORT2265	Irrigation & Water Management	6.0
HORT2292	Landscape Maintenance	3.0

Select 30 hours from the following:

AGRI1116	Electric & Gas Welding	2.0
AGRI1135	Basic Fertilizer Management	3.0
AGRI1211	Fundamentals of Ag Marketing	4.5
AGRI1219	Motorized Ag Equipment	3.0
HORT1136	Plant Propagation	3.0
HORT1154	Greenhouse Management	3.0
HORT1155	Basic Landscaping	4.5
HORT1215	Basic Horticulture Equipment Maintenance	3.0
HORT1242	Turfgrass Management	4.5

Select 9 hours from the following:

AGRI2286	Advanced Landscaping	4.5
AGRI2380	Module 1 – Key Precision Agriculture Information and Software	1.0
AGRI2381	Module 2 – Basic Software Skills	1.0
AGRI2382	Module 3 – Prescriptions	1.0
AGRI2383	Module 4 – Soil Sampling and Handhelds	1.5
HORT1190	Management of Turfgrass Pests	4.5
HORT1239	Arboriculture	3.0
HORT2286	Advanced Landscaping	4.5
HORT2288	Golf Course and Sports Management	6.0

Horticulture Focus: 88.5
Electives: 4.0
General Electives 22.5
115.0 hours

Estimated Expenses

This program requires 132 credit hours to graduate. Based on eight quarters, tuition and fees average \$912 and book costs average \$375 each quarter. Actual tuition, books, and fees will be dependent upon classes taken.

Nebraska Resident tuition rate is \$61.50 per credit hour. Out-of-state tuition rate is \$75.50 per credit hour.

Student fee is \$1.50 per credit hour. Graduation fee is \$25.

To determine overall costs, students should plan a budget that includes the above expenses as well as room, meals, clothing, laundry, medical care, recreation and entertainment, transportation, insurance, etc.

NOTE: One quarter will be an internship. There are no book expenses for this quarter, but students may incur costs for housing and travel. \$300 Tool Fee based upon class selection.

FIRST QUARTER

Tuition And Fees	\$1,260
Books	375
Total	\$1,635

SECOND QUARTER

Tuition And Fees	\$1,260
Books	375
Total	\$1,635

THIRD QUARTER

Tuition And Fees	\$1,260
Books	375
Total	\$1,635

FOURTH QUARTER

Tuition And Fees	\$1,260
Books	375
Total	\$1,635

FIFTH QUARTER

Tuition And Fees	\$1,260
Books	375
Total	\$1,635

SIXTH QUARTER

Tuition And Fees	\$1,260
Books	375
Total	\$1,635

INTERNSHIP QUARTER

Tuition And Fees	\$756
Books	375
Total	\$1,131
Total Estimate For Program	\$10,941

