

## Agribusiness

Transfer Program  
Degree Offered: Associate in Science  
Credits Required: 62  
Contact: Don Gronau, Lead Instructor  
at 316.322.3145

### Program Information

Transfer to a four-year institution and/or operate the family farm/ranch. More than 40 agriculture courses in the areas of animal science, agribusiness, farm and ranch management, crops and soils, pre-veterinary medicine, and livestock production management allow students to focus on their areas of interest. The Ag Club allows leadership opportunities for the students. In addition, Butler's Livestock Judging Team is nationally-renowned, traveling extensively and winning numerous competitions each season. Butler has a state-of-the-art Agriculture facility on the south end of the Butler of El Dorado campus complete with modern classrooms, computer lab, activity space, and working labs. Butler's Agriculture instructors are nationally recognized.

### Articulation Agreements

Kansas State University  
Oklahoma State University

### Recommendations

Visit with Ag faculty to determine the course sequences that meet your specific needs. Enroll early as classes tend to fill quickly.

### Recommended Course Sequence

Some courses are offered only in the Spring semester while others are only offered in the Fall. Ask your advisor or instructor for details as you plan your class schedule.

### Related Programs

Agriculture, Livestock Management and Merchandising, Farm and Ranch Management, Pre-Veterinarian

### After Butler

Recent graduates hold positions as agricultural sales representatives, crop consultants, loan officers, real estate agents, commodity merchandisers and farm managers. Recent students have transferred to Kansas State University, Oklahoma State University, Texas A&M University, and many other universities.

### Salary

Average Annual Wage: \$43,390  
(Source: Kansas Wage Survey, 2000 edition, Wichita MSA)



# AGRICULTURE

## AGRIBUSINESS

### ASSOCIATE IN SCIENCE

Your Butler experience will prepare you to perform specialized support functions related to agricultural business offices and operations and to operate agricultural office equipment, software, and information systems. This program includes learning in basic agricultural

business principles, office management, equipment operation, standard software, and database management.

### General Education Requirements

Course	Hours
<b>Communications</b>	<b>9</b>
___English Comp I (EG 101)	
___English Comp II (EG 102)	
___Public Speaking or Interpersonal Communication (SP 100 SP 102)	
<b>Science and Math</b>	<b>8</b>
___Math Requirement (MA 131 or above)	
___Lab Science Requirement (AG 220 Crop Science meets Lab req.)	
<b>Computer Science Requirement</b>	<b>3</b>
___(AG 107 Microcomputer in Agriculture required)	
<b>Social/Behavioral Science Requirement</b>	<b>6</b>
___One Social Science Course (EC 201 Prin. of Macroeconomics recommended.)	
___One Behavioral Science Course	
<b>Humanities/Fine Arts</b>	<b>6</b>
___Humanities Requirement	
___Fine Arts Requirement	
<b>Physical Education</b>	<b>1</b>
___Physical Education Requirement	

### Required Courses

Course	Hours
___Principles of Animal Science (AG 102)	3
___Agriculture in Society (AG 111)	2
___Agriculture Economics (AG 120)	3
___Fund. of Livestock Nutrition (AG 211)	3
___Crop Science (AG 220)	4

A total of 62 credit hours is required for this degree. In addition to the 33 credit hours of general education requirements and 15 credit hours of required courses, choose 14 credit hours from the list of related electives below:

If Required Courses are used to fulfill General Education Requirements, Related Electives must be used to fulfill equivalent number of hours.

### Related Electives

Course	Hours
___Crop and Soil Management (AG 142)	3
___Fundamentals of Meat Science (AG 212)	2
___Financial Mgmt. in Agriculture (AG 215)	3
___Livestock Health and Disease (AG 216)	3
___Marketing Agriculture Products (AG 217)	3
___Principles of Future Mrkts. (AG 218)	3
___Beef Management (AG 221)	3
___Range Management (AG 230)	3
___Livestock Rations (AG 240)	3
___Livestock Business Mgmt. (AG 285)	3
___Accounting I (BA 126)	3
___Accounting II (BA 127)	3
___Internship I (AG 193)	1-3
___Internship II (AG 194)	1-3
___Coop. Ed. I, II, III, IV (AG 197, 198, 297, 298)	2-6
___Directed Ind. Study in Ag. (AG 294,295)	3

## AGRICULTURE

### ASSOCIATE IN SCIENCE

Your Butler experience will prepare you to apply general principles of agricultural research and production to the solution of practical agricultural problems. This program includes learning in basic animal, plant, and soil science; animal husbandry and plant cultivation; soil conservation; and agricultural operations such as farming, ranching and agricultural business.

#### General Education Requirements

Course	Hours
<b>Communications</b>	<b>9</b>
___English Comp I (EG 101)	
___English Comp II (EG 102)	
___Public Speaking or Interpersonal Communication (SP 100 or SP 102)	
<b>Science, Math and Computer Science</b>	<b>11</b>
___Math Requirement (MA 131 or above)	
___Lab Science Requirement (AG 220 Crop Science meets Lab req.)	
___Computer Science Requirement (AG 107 Microcomputer in Agriculture required)	
<b>Social/Behavioral Science Requirement</b>	<b>6</b>
___One Social Science Course (EC 201 Princ. of Macroeconomics recommended)	
___One Behavioral Science Course	
<b>Humanities/Fine Arts</b>	<b>6</b>
___Humanities Requirement	
___Fine Arts Requirement	
<b>Physical Education</b>	<b>1</b>
___Physical Education Requirement	

#### Required Courses

	Hours
___Principles of Animal Science (AG 102)	3
___Agriculture in Society (AG 111)	2
___Agriculture Economics (AG 120)	3
___Fund. of Livestock Nutrition (AG 211)	3
___Crop Science (AG 220)	4

A total of 62 credit hours is required for this degree. In addition to the 33 credit hours of general education requirements and 15 credit hours of required courses, choose 14 credit hours from the list of related electives below:

If Required Courses are used to fulfill General Education Requirements, Related Electives must be used to fulfill equivalent number of hours.

#### Related Electives

	Hours
___Feeder Livestock Prod. Mgmt. (AG 108)	3
___Breeding Livestock Prod. Mgmt. (AG 109)	3
___Livestock Selection I (AG 133)	3
___Livestock Selection II (AG 134)	3
___Crop and Soil Management (AG 142)	3
___Fundamentals of Meat Science (AG 212)	2
___Livestock Health and Disease (AG 216)	3
___Marketing Agriculture Products (AG 217)	3
___Swine Management (AG 219)	3
___Beef Management (AG 221)	3
___Range Management (AG 230)	3
___Livestock Rations (AG 240)	3
___Horse Science (AG 245)	3
___Equine Production [AG 247]	3
___Livestock Concepts & Practices (AG 275)	3
___Livestock Business Mgmt. (AG 285)	3
___Internship I (AG 193)	1-3
___Internship II (AG 194)	1-3
___Coop. Ed. I, II, III, IV (AG 197, 198, 297, 298)	2-6
___Dir. Ind. Study in Ag. (AG 294,295)	3

#### Agriculture

Transfer Program  
Degree Offered: Associate in Science  
Credits Required: 62  
Contact: Don Gronau, Lead Instructor  
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#### Program Information

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#### Ag Club

Ag Club allows leadership opportunities for students. In addition, Butler's Livestock Judging Team is nationally-renowned, traveling extensively and winning numerous competitions each season.

#### Articulation Agreements

Kansas State University,  
Oklahoma State University

#### Recommendations

Visit with Ag faculty to determine the course sequences that meet your specific needs. Enroll early as classes tend to fill quickly.

#### Related Programs

Agribusiness, Livestock Management and Merchandising, Farm and Ranch Management, Pre-Veterinarian

#### Recommended Course Sequence

Some courses are offered only in the Spring semester while others are only offered in the Fall. Ask your advisor or instructor for details as you plan your class schedule.

#### After Butler

Recent graduates hold positions as commodity merchandisers, agricultural educators, 4-H and youth extension agents, and realtors. Recent students have transferred to Kansas State University, Oklahoma State University, Texas A&M University, and many other universities.

**Starting Salary:** \$22,952 to 25,658 per year.(Source: Workforce Planning Guide & Wage Survey, 2003 Edition, KDHHR)

## Livestock Management and Merchandising

Career Program  
Degree Offered: Associate in Applied Science  
Credits Required: 62  
Contact: Don Gronau, Lead Instructor at 316.322.3145

### Articulation Agreement

Kansas State University

### Related Programs

Agribusiness, Agriculture, Farm and Ranch Management, Pre-Veterinarian

### Recommended Course Sequence

Select courses are offered only in the spring or fall semesters. Ask your advisor or instructor for details as you plan your class schedule.

### After Butler

Recent graduates hold positions in farm and ranch management, agricultural sales and teaching. Recent students have transferred to Kansas State University, Oklahoma State University, Texas A&M University, and other universities.

**Median Wage** for First-Line supervisors/managers of Farming Workers in South Central Kansas is \$30,905 per year. (Source: Workforce Planning Guide & Wage Survey, Local Area IV 2003 Edition, KDHR.)

# LIVESTOCK MANAGEMENT AND MERCHANDISING

## ASSOCIATE IN APPLIED SCIENCE

Your Butler experience will prepare you to select, breed, care for, process, and market livestock and small farm animals. This program includes learning in basic animal science, animal nutrition, and animal health as applied to various species and breeds; design and operation of housing, feeding, and processing facilities; and related issues of safety, applicable regulations, logistics and supply.

### General Education Requirements

Course	Hours
<b>Communications</b>	<b>6</b>
___English Comp I	
___One other course (EG 102, SP 100, SP 102, EG 112)	
<b>Science, Math and Computer Science</b>	<b>9</b>
___Math Requirement (MA 114 or above)	
___Lab Science Requirement (AG 220 Crop Science req.)	
___Computer Science Requirement (AG 107 Micro. in Ag. req.)	
<b>Social/Behavioral Science Req.</b> (AG 120 Ag. Econ. req.)	<b>3</b>
<b>Humanities/Fine Arts</b>	<b>3</b>
___One course from either Humanities or Fine Arts	
<b>Physical Education</b>	<b>1</b>
___Physical Education Requirement	
<b>Required Courses:</b>	<b>Hours</b>
___Principles of Animal Science (AG 102)	3
___Feeder Livestock Prod. Mgmt. (AG 108)	3
___Breeding Livestock Prod. Mgmt. (AG 109)	3
___Agriculture in Society (AG 111)	2
___Fund. of Livestock Nutrition (AG 211)	3

### Related Electives

		Hours
___Livestock Selection I	(AG 133)	3
___Meat Science Fund.	(AG 212)	2
___Financial Mgmt. in Agriculture	(AG 215)	3
___Livestock Health & Disease	(AG 216)	3
___Marketing AG Products	(AG 217)	3
___Principles of Futures Markets	(AG 218)	3
___Swine Mgmt.	(AG 219)	3
___Beef Management	(AG 221)	3
___Range Management	(AG 230)	3
___Livestock Rations Management	(AG 240)	3
___Horse Science	(AG 245)	3
___Equine Production	(AG 247)	3
___Livestock Concepts and Practices	(AG 275)	3
___Livestock Business Management	(AG 285)	3

A total of 62 credit hours is required for this degree. In addition to the 22 credit hours of general education requirements and 14 credit hours of required AG courses, choose 26 credit hours of related electives of which Internship I or Cooperative Education I may be applied.

If Required Courses are used to fulfill General Education Requirements, Related Electives must be used to fulfill equivalent number of hours.

## LIVESTOCK MANAGEMENT AND MERCHANDISING

### CERTIFICATE

Your Butler experience will prepare you to apply general principles of agricultural research and production to the solution of practical agricultural problems. This program includes learning in basic animal, plant, and soil science; animal husbandry and plant cultivation; soil conservation; and agricultural operations such as farming, ranching and agricultural business.

#### Required Courses

		Hours
___Principles of Animal Science	(AG 102)	3
___Agriculture Economics	(AG 120)	3
___Fund. of Livestock Nutrition	(AG 211)	3
___Financial Mgmt. in Agriculture	(AG 215)	3
___Crop Science	(AG 220)	4

#### Agricultural Electives

		Hours
___Microcomputers in Agriculture	(AG 107)	3
___Feeder Livestock Prod. Mgmt.	(AG 108)	3
___Breeding Livestock Prod. Mgmt.	(AG 109)	3

___Agriculture in Society	(AG 111)	2
___Livestock Selection I	(AG 133)	3
___Crop and Soil Management	(AG 142)	3
___Fundamentals of Meat Science	(AG 212)	2
___Livestock Health and Disease	(AG 216)	3
___Marketing Agriculture Products	(AG 217)	3
___Swine Management	(AG 219)	3
___Beef Management	(AG 221)	3
___Range Management	(AG 230)	3
___Livestock Rations	(AG 240)	3
___Horse Science	(AG 245)	3
___Equine Production	(AG 247)	3
___Internship I	(AG 193)	1-3
___Internship II	(AG 194)	1-3
___Coop. Ed. I, II, III, IV	(AG 197, 198, 297, 298)	2-6
___Dir. Ind. Study in Agriculture	(AG 294,295)	3

Certificate requires 31 credit hours.

#### Livestock Management and Merchandising

Certificate of Completion Program  
Certificate Offered: Certificate in Agriculture  
Credits Required: 31  
Contact: Don Gronau, Lead Instructor at 316.322.3145

#### Recommendations

Visit with departmental faculty to determine the course sequences that meet your specific needs. Enroll early as classes tend to fill quickly.

#### Related Programs

Agribusiness, Agriculture, Farm and Ranch Management, Livestock Management, and Merchandising

#### Recommended Course Sequence

Selected courses are offered only in the spring or fall semesters. Ask your advisor or instructor for details as you plan your class schedule.

#### After Butler

Recent certificate graduates hold positions as farm and ranch managers and realtors.

**Starting Salary:** \$22,952 to 25,658 per year. (Source: Workforce Planning Guide & Wage Survey, 2003 Edition, KDHR)

## Farm and Ranch Management

Career Program  
Degree Offered: Associate in  
Applied Science  
Credits Required: 62  
Contact: Don Gronau, Lead Instructor  
at 316.322.3145

### Articulation Agreement

Kansas State University

### Related Programs

Agribusiness, Agriculture, Livestock  
Management and Merchandising,  
Pre-Veterinarian

### Recommended Course Sequence

Select courses are offered only in the  
spring or fall semesters. Ask your advisor  
or instructor for details as you plan your  
class schedule.

### After Butler

Recent graduates hold positions as farm  
and ranch managers, loan officers, crop  
consultants and soil conservationists.  
Recent students have transferred to  
Kansas State University, Oklahoma State  
University, Texas A&M University, and  
other universities.

**Median Wage** for Farm and Ranch  
Managers in South Central Kansas is  
\$40,206 per year. (Source: Workforce  
Planning Guide & Wage Survey, Local  
Area IV 2003 Edition, KDHR.)

## FARM AND RANCH MANAGEMENT

### ASSOCIATE IN APPLIED SCIENCE

Your Butler experience will prepare you to manage farms, ranches,  
and similar enterprises. This program includes learning in applicable  
agricultural specialization, business management, accounting, taxation,  
capitalization, purchasing, government programs and regulations,  
operational planning and budgeting, contracts and negotiation, and  
estate planning.

### General Education Requirements

Course	Hours
<b>Communications</b>	<b>6</b>
___English Comp I	
___One other course	(EG 102, SP 100, SP 102, EG 112)

<b>Science and Math</b>	<b>9</b>
___Math Requirement	(MA 114 or above)
___Lab Science Requirement	(AG 220 Crop Science req.)
___Computer Science Requirement	(AG 107 Micro. in Ag. req.)

<b>Social/Behavioral Science Req.</b>	(AG 120 Ag. Eco. req.)	<b>3</b>
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<b>Humanities/Fine Arts</b>	<b>3</b>
___One course from either Humanities or Fine Arts	

<b>Physical Education</b>	<b>1</b>
___Physical Education Requirement	

Required Courses	Hours
___Principles of Animal Science	(AG 102) 3
___Feeder Livestock Prod. Mgmt.	(AG 108) 3
___Breeding Livestock Prod. Mgmt.	(AG 109) 3
___Agriculture in Society	(AG 111) 2
___Fund. of Livestock Nutrition	(AG 211) 3
___Financial Mgmt. in Agriculture	(AG 215) 3
___Range Management	(AG 230) 3

### Related Electives

		Hours
___Livestock Selection I	(AG 133)	3
___Crop and Soil Mgmt.	(AG 142)	3
___Meat Science Fund.	(AG 212)	2
___Livestock Health & Disease	(AG 216)	3
___Marketing AG Products	(AG 217)	3
___Principles of Futures Markets	(AG 218)	3
___Swine Mgmt.	(AG 219)	3
___Principles of Futures Market	(AG 218)	3
___Beef Management	(AG 221)	3
___Livestock Rations Management	(AG 240)	3
___Horse Science	(AG 245)	3
___Equine Production	(AG 247)	3
___Livestock Concepts and Practices	(AG 275)	3
___Livestock Business Management	(AG 285)	3

A total of 62 credit hours is required for this degree. In addition to the  
22 credit hours of general education requirements and 20 credit hours  
of required courses, choose 20 credit hours of related electives of  
which Internship I or Cooperative Education I, may be applied.

If Required Courses are used to fulfill General Education Requirements,  
Related Electives must be used to fulfill equivalent number of hours.

## PRE-VETERINARIAN ASSOCIATE IN SCIENCE

Your Butler experience will prepare you to have the background in agriculture to transfer into a university program in veterinary medicine.

### General Education Requirements

Course	Hours
<b>Communications</b>	
___English Comp I (EG 101)	9
___English Comp II (EG 102)	
___Public Speaking or Interpersonal Communication (SP 100 or SP 102)	
<b>Science, Math and Computer Science</b>	
___Math Requirement (MA 131 or above)	11
___Lab Science Requirement (CH 110 Chemistry I req.)	
___Computer Science Requirement (AG 107 Micro. in Ag. req.)	
<b>Social/Behavioral Science Req.</b>	
___One Social Science course (EC 201 Princ. of Macroeconomics recommended)	6
___One Behavioral Science course	

### Humanities/Fine Arts

- \_\_\_Humanities Requirement
- \_\_\_Fine Arts Requirement

6

### Physical Education

- \_\_\_Physical Education Requirement

1

### Required Courses

- \_\_\_Principles of Animal Science (AG 102)
- \_\_\_Agriculture in Society (AG 111)
- \_\_\_Agriculture Economics (AG 120)
- \_\_\_Crop Science (AG 220)
- \_\_\_Fund. of Livestock Nutrition (AG 211)
- \_\_\_General Biology (BI 110)
- \_\_\_Chemistry II (CH 115)
- \_\_\_General Physics I (PH 143)

Hours

3  
2  
3  
4  
3  
5  
5  
5

A total of 63 credit hours is required for this degree. If Required Courses are used to fulfill General Education Requirements, Related Electives must be used to fulfill equivalent number of hours. See Agriculture Lead Instructor for veterinary school requirements

### Pre-Veterinarian

Transfer Program  
Degree Offered: Associate in Applied Science  
Credits Required: 63  
Contact: Don Gronau, Lead Instructor at 316.322.3145

### Articulation Agreements

Kansas State University

### Recommendations

Visit with departmental faculty to determine the course sequences that meet your specific needs. Enroll early as classes tend to fill quickly.

### Related Programs

Agribusiness, Agriculture, Farm and Ranch Management, Pre-Veterinarian

### Recommended Course Sequence

Selected courses are offered only in the spring or fall semesters. Ask your advisor or instructor for details as you plan your class schedule.

### After Butler

Recent graduates hold positions as management trainees, managers, sales representatives, loan officers, real estate agents, commodity merchandisers, operations analysts, plant supervisors and marketing specialists. Recent students have transferred to Kansas State University, Oklahoma State University, Texas A&M University, and other universities.

**Median Wage** for Veterinarians in South Central Kansas is \$57,116 per year. (Source: Workforce Planning Guide & Wage Survey, Local Area IV 2003 Edition, KDHR.)