



**AGRIBUSINESS
ASSOCIATE IN SCIENCE**

Your Butler experience will prepare you to perform specialized support functions related to agricultural business operations. This program includes learning in basic agricultural business principles, production agriculture, and management.

General Education Requirements **32 Hours**

- Communications** **9**
- ___ English Comp I (EG 101)
 - ___ English Comp II (EG 102)
 - ___ Public Speaking or Interpersonal Communication (SP 100 or SP 102)

- Science and Math** **7**
- ___ Math Requirement (MA 131 or above)
 - ___ Crop Science (AG 220)

- Computer Science** **3**
- ___ Microcomputer in Agriculture (AG 107)

- Social/Behavioral Science Requirement** **6**
- ___ One Social Science Course (EC 201 Prin. of Macroeconomics recommended.)
 - ___ One Behavioral Science Course

- Humanities/Fine Arts** **6**
- ___ Humanities Requirement
 - ___ Fine Arts Requirement

- Physical Education** **1**
- ___ Physical Education Requirement

- Required Courses** **11 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

A total of 62 credit hours is required for this degree. In addition to the 32 credit hours of general education requirements and 11 credit hours of required courses, choose 11 or more credit hours from the list of related electives below. The remaining 8 hours may be from the related elective list or any other courses that enhance transfer to the university of your choice.

Related Electives		15 Hours
___ Crop and Soil Management	(AG 142)	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
___ Fund. 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 Concepts & Practices	(AG275)	3
___ Livestock Business Mgmt.	(AG 285)	3
___ Directed Ind. Study in Ag.	(AG 294,295)	3
___ Accounting I	(BA 126)	3
___ Accounting II	(BA 127)	3

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. 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.

Ag Club

The Ag Club allows leadership opportunities for the students. In addition, Butler's Livestock Judging Team is nationally-renowned, and travels 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. Students planning to transfer to a four-year institution should include a chemistry and biology course.

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. 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
ASSOCIATE IN SCIENCE**

Your Butler experience will prepare you to apply general principles of agricultural production and research to the solution of practical agricultural problems. This program includes learning in basic animal, plant, economic information used in farming, ranching and agricultural business. This program is designed for the student transferring to a four-year college or university.

General Education Requirements 32 Hours

Communications 9	
___ English Comp I	(EG 101)
___ English Comp II	(EG 102)
___ Public Speaking or Interpersonal Communication	(SP 100 or SP 102)

Science, Math and Computer Science 10	
___ Math Requirement	(MA 131 or above)
___ Crop Science	(AG 220)
___ Microcomputer in Agriculture	(AG 107)

Social/Behavioral Science 6	
___ One Social Science Course (EC 201 Princ. of Macroeconomics recommended)	
___ One Behavioral Science Course	

Humanities/Fine Arts 6	
___ Humanities Requirement	
___ Fine Arts Requirement	

Physical Education 1	
___ Physical Education Requirement	

Required Courses 11 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

A total of 62 credit hours is required for this degree. In addition to the 32 credit hours of general education requirements and 11 credit hours of required courses, choose 11 or more credit hours from the list of related electives below. The remaining 8 hours may be from the related elective list or any other courses that enhance transfer to the university of your choice.

Related Electives 11 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
___ 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
___ 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
___ 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
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. Butler has a state-of-the-art Agriculture facility on the south end of the El Dorado campus complete with modern classrooms, computer lab, activity space, and learning labs. Butler's Agriculture instructors are nationally recognized.

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. Students planning to transfer to a four-year institution should include a chemistry and biology course.

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, KDHR)

LIVESTOCK MANAGEMENT AND MERCHANDISING

ASSOCIATE IN APPLIED SCIENCE

Your Butler experience will prepare you to select, breed, care for, process, and market livestock. 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, processing facilities, related issues of safety, applicable regulations, logistics, and marketing management are included.

General Education Requirements 19 Hours

Communications	6
___English Comp I	
___One other course	(EG 102, SP 100, SP 102, EG 112)

Science, Math and Computer Science 10

___Math Requirement	(MA 114 or above)
___Crop Science	(AG 220)
___Microcomputers in Agriculture	(AG 107)

Social/Behavioral Science 3

___Agriculture Economics	(AG 120)
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Required Courses: 14 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

Related Electives 20 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 19 credit hours of general education requirements and 14 credit hours of required AG courses, choose a minimum of 20 hours of related electives of which Internship I or Cooperative Education I may be applied. The remaining 9 hours may be from the related elective list or any other courses that enhance transfer to the university of your choice.

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

CERTIFICATE

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

Required Courses

___ Principles of Animal Science	(AG 102)	16 Hours	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

___ Microcomputers in Agriculture	(AG 107)	15 Hours	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 numerous agriculture related occupations.

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

**FARM AND RANCH MANAGEMENT
ASSOCIATE IN APPLIED SCIENCE**

Your Butler experience will prepare you to manage farms, ranches, and similar agri-business enterprises. This program includes learning in applicable agricultural specialization, business management, and production.

General Education Requirements **19 Hours**
Communications **6**

- ___ English Comp I
- ___ One other course (EG 102, SP 100, SP 102, EG 112)

Science and Math **10**

- ___ Math Requirement (MA 114 or above)
- ___ Crop Science (AG 220)
- ___ Microcomputer in Agriculture (AG 107)

Social/Behavioral Science Req. **3**

- ___ Agriculture Economics (AG 120)

Required Courses **20 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 **15 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 Market (AG 218) 3
- ___ Swine Mgmt. (AG 219) 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 19 credit hours of general education requirements and 20 credit hours of required courses, choose a minimum of 15 credit hours of related electives of which Internship I or Cooperative Education I may be applied. The remaining 8 hours may be from the related elective list or any other courses that enhance transfer to the university of your choice.

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

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, crop consultants, soil conservationists, and in agri-business. 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.)



**PRE-VETERINARIAN
ASSOCIATE IN SCIENCE**

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

General Education Requirements **32 Hours**
Communications **9**

- ___ English Comp I (EG 101)
- ___ English Comp II (EG 102)
- ___ Public Speaking or
Interpersonal Communication (SP 100 or SP 102)

Science, Math and Computer Science **10**

- ___ Math Requirement (MA 131 or above)
- ___ Lab Science Requirement (CH 110 Chemistry I req.)
- ___ Microcomputers in Agriculture (AG 107)

Social/Behavioral Science **6**

- ___ One Social Science course
(EC 201 Princ. of Macroeconomics recommended)
- ___ One Behavioral Science course

Humanities/Fine Arts **6**

- ___ Humanities Requirement
- ___ Fine Arts Requirement

Physical Education **1**

- ___ Physical Education Requirement

Required Courses **30 Hours**

- ___ Principles of Animal Science (AG 102) 3
- ___ Agriculture in Society (AG 111) 2
- ___ Agriculture Economics (AG 120) 3
- ___ Crop Science (AG 220) 4
- ___ Fund. of Livestock Nutrition (AG 211) 3
- ___ General Biology (BI 110) 5
- ___ Chemistry II (CH 115) 5
- ___ General Physics I (PH 143) 5

A total of 63 credit hours is required for this degree. 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 agricultural departmental faculty to determine the course sequences that meet your specific needs. Enroll early as classes tend to fill quickly. Students follow 4-year program options in one of the following: Animals Science pre-vet, Agronomy pre-vet, Agriculture Economics pre-vet when transferring.

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

Pre-Veterinarian program students transfer to universities with Pre-vet options in Animal Science, Agronomy, or Agricultural Economics. The student makes application to veterinarian school on October 1st of Junior year.

Recent graduates hold positions as managers, sales representatives, in research and development, bio-security, bio technology, food safety, 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.)