

# DEPARTMENT OF AGRICULTURE

The Agriculture Department includes programs of study as follows:

1. A four-year curriculum in agriculture business, with horticulture-business and animal science options, leading to a bachelor of science degree.
2. Pre-veterinary medicine - in this curriculum all requirements are offered for entrance into Louisiana State University, University of Missouri, Oklahoma State University, Tuskegee Institute, and other institutions offering the D.V.M. degree.
3. Pre-forestry - offerings are designed to meet requirements for U of A at Monticello, but may be tailored to requirements of other institutions.

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The objectives of the department are to:

1. provide a balanced educational program with relatively broad interdisciplinary training as opposed to narrow specialization, thus preparing the student for success in his/her chosen field and in his/her citizenship responsibilities.
2. serve and assist the student in educational and personal problems through active faculty counseling.
3. assist the student in development and improvement of leadership abilities through encouragement of active participation in activities of the Agri Club, FFA Day and other extracurricular activities.

The baccalaureate degree program in agri-business integrates the discipline of agriculture, business, accounting, economics, and finance. Emphasis is placed on management directed toward the farm business and agri-business firms.

Trends in occupations related to agriculture are shifting from production to agri-business services such as management, processing, distribution, and marketing. This creates a need for personnel with a broad background in these areas of training. Our systems concept is geared to integration of disciplines to better prepare graduates for present day needs.

Attractive career opportunities exist in agricultural business firms, banks and other financial agencies, marketing, food processing, extension, soil conservation, forestry, farm and agri-business management, and sales and distribution firms.

The curricula that follow represent the program of study for the four-year degree in agri-business, including the horticulture-business and animal science options, and typical plans of study for those pursuing a pre-forestry, or pre-veterinary medicine program. Students enrolled in programs other than agri-business may want to tailor their curriculum to best meet their individual needs.

## Curriculum in Agriculture Business

Freshman Year	Fall	Spring
English Composition I, II (ENGL 1013, 1023) <sup>1</sup>	3	3
Introduction to Biological Science (BIOL 1014)	4	
A Survey of Chemistry (CHEM 1114)		4
Principles of Animal Science (AGAS 1013)	3	
Field Crops (AGPS 1003)		3
Mathematics (MATH 1103) <sup>1</sup>		3
Elective		3
Physical Activity <sup>1</sup>	1	
Introduction to Computer Based Systems (COMS 1003)		3
<b>Total</b>	<b>14</b>	<b>16</b>

## Curriculum in Agriculture Business

<b>Sophomore Year</b>			
Legal Environment of Business (BUAD 2033)	3		
Introduction to Agriculture Economics (AGBU 2063)	3		
Principles of Agriculture Economics (AGBU 2073)		3	
Accounting Principles (ACCT 2003, 2013)	3		3
Business and Professional Speaking (SPH 2173)	3		
Soils (AGSS 2013)			3
Feeds and Feeding (AGAS 2083)			3
Social Sciences <sup>1</sup>	3		3
Physical Activity <sup>1</sup>	1		
<b>Total</b>	<b>16</b>		<b>15</b>
<b>Junior Year</b>			
Agriculture Electives (3000-4000 level)	3		6
Agricultural Marketing (AGBU 4013)	3		
Statistics (MATH 2163)			3
Agricultural Waste Management (AGEG 3413)			3
Plant Pathology (AGPS 3244)	4		
Social Sciences <sup>1</sup>	3		3
Fine Arts <sup>1</sup>	3		
<b>Total</b>	<b>16</b>		<b>15</b>
<b>Senior Year</b>			
Agri Business Management (AGBU 4003)	3		
Agriculture Finance (AGBU 4023)			3
Humanities <sup>1</sup>	3		
Agriculture Electives (3000 - 4000 level)	6		9
Electives <sup>2</sup>	4		4
<b>Total</b>	<b>16</b>		<b>16</b>

<sup>1</sup>See appropriate alternatives or substitutions in "General Education Requirements" on page 72 (Except ECON 2003).  
<sup>2</sup>Recommended electives are SPAN 1014 and SPAN 1024.

## Curriculum in Agriculture Business (Horticulture Business Option)

<b>Freshman Year</b>	Fall	Spring
English Composition I, II (ENGL 1013, 1023) <sup>1</sup>	3	3
Principles of Botany (BIOL 2134) or Introduction to Biological Science (BIOL 1014)	4	
A Survey of Chemistry (CHEM 1114)		4
General Horticulture (AGPS 1023)		3
Field Crops (AGPS 1003)		3
Mathematics (MATH 1103) <sup>1</sup>	3	
Elective	3	
Physical Activity <sup>1</sup>	1	
Introduction to Computer Based Systems (COMS 1003)		3
<b>Total</b>	<b>14</b>	<b>16</b>
<b>Sophomore Year</b>		
Introduction to Agriculture Economics (AGBU 2063)	3	
Principles of Agriculture Economics (AGBU 2073)		3
Legal Environment of Business (BUAD 2033)		3
Accounting Principles (ACCT 2003, 2013)	3	3
Business and Professional Speaking (SPH 2173)	3	
Soils (AGSS 2013)		3
Statistics (MATH 2163)	3	
Social Science <sup>1</sup>	3	3
Physical Activity <sup>1</sup>	1	

**Curriculum in Agriculture Business**  
(Horticulture Business Option)

	Total	16	15
<b>Junior Year</b>			
Agriculture Elective <sup>2</sup>			3
Electives <sup>2</sup>			4
Agricultural Marketing (AGBU 4013)	3		
Greenhouse Operation and Management (AGPS 3093)			3
Vegetable Growing (AGPS 3063)			3
Plant Pathology (AGPS 3244)	4		
Plant Propagation (AGPS 3043)	3		
Social Science <sup>1</sup>	3		3
Fine Arts <sup>1</sup>	3		
<b>Total</b>		<b>16</b>	<b>16</b>
<b>Senior Year</b>			
Agri Business Management (AGBU 4003)	3		
Weeds and Weed Control (AGPS 3053)			3
Floriculture (AGPS 3073)	3		
Crop and Garden Insects (AGPS 4103)			3
Small Fruit and Nut Culture (AGPS 3083)	3		
Humanities <sup>1</sup>	3		
Dendrology (BIOL 4044)			4
Agriculture Electives <sup>2</sup>	3		6
<b>Total</b>		<b>15</b>	<b>16</b>

<sup>1</sup>See appropriate alternatives or substitutions in "General Education Requirements" on page 72 (Except ECON 2003).  
<sup>2</sup>Six hours must be 3000 - 4000 level.

**Curriculum in Agriculture Business**  
(Animal Science Option)

	Fall	Spring
<b>Freshman Year</b>		
English Composition I, II (ENGL 1013, 1023) <sup>1</sup>	3	3
General Chemistry I, II (CHEM 2124, 2134)	4	4
Introduction to Biological Science (BIOL 1014) or Principles of Zoology (BIOL 2124)		4
Principles of Animal Science (AGAS 1013)		3
Principles of Animal Science Laboratory (AGAS 1001)		1
Mathematics (MATH 1103) <sup>1</sup>	3	
Elective	3	
Electives <sup>2</sup>	3	
Physical Activity <sup>1</sup>		1
<b>Total</b>	<b>16</b>	<b>16</b>
<b>Sophomore Year</b>		
Business and Professional Speaking (SPH 2173)	3	
Feeds and Feeding (AGAS 2083)		3
Introduction to Agriculture Economics (AGBU 2063)	3	
Principles of Agriculture Economics (AGBU 2073)		3
Statistics (MATH 2163)		3
Soils (AGSS 2013)		3
Social Science <sup>1</sup>	3	3
Legal Environment of Business (BUAD 2033)	3	
Introduction to Computer Based Systems (COMS 1003)	3	
Physical Activity <sup>1</sup>		1
<b>Total</b>	<b>16</b>	<b>15</b>

**Curriculum in Agriculture Business**  
(Animal Science Option)

<b>Junior Year</b>		
Social Science <sup>1</sup>	3	3
Principles of Accounting I, II (ACCT 2003, 2013)	3	3
Beef Cattle Management (AGAS 3013)		3
Light Horse Production (AGAS 3113)	3	
Fine Arts <sup>1</sup>		3
Microbiology (BIOL 3054)		4
Swine Management (AGAS 3103)	3	
Reproduction in Farm Animals (AGAS 3003)	3	
<b>Total</b>	<b>15</b>	<b>16</b>
<b>Senior Year</b>		
Agri Business Management (AGBU 4003)	3	
Agricultural Marketing (AGBU 4013)		3
Humanities <sup>1</sup>		3
Agriculture Finance (AGBU 4023)		3
Animal Nutrition (AGAS 4203)	3	
Electives <sup>2</sup>	6	3
Poultry Science (AGAS 3303, 3323, 3333, or 4303)	3	3
<b>Total</b>	<b>15</b>	<b>15</b>

<sup>1</sup>See appropriate alternatives or substitutions in "General Education Requirements" on page 72 (Except ECON 2003).

<sup>2</sup>Six hours must be 3000 - 4000 level

**Pre-Professional Programs**

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Arkansas Tech University offers complete pre-professional training programs in pre-forestry and pre-veterinary medicine. The pre-professional curriculum is not a major. Agriculture business is the approved major for the pre-professional curriculum. Statements and curricula for these programs are listed below.

**Curriculum in Pre-Forestry**

<b>Freshman Year</b>	Fall	Spring
English Composition I, II (ENGL 1013, 1023) <sup>1</sup>	3	3
General Chemistry I, II (CHEM 2124, 2134)	4	4
Principles of Botany (BIOL 2134)	4	
College Algebra (MATH 1113)	3	
Plane Trigonometry (MATH 1203)		3
Engineering Graphics (MCEG 1002)	2	
Electives <sup>2</sup>		5-6
Physical Activity <sup>1</sup>		1
<b>Total</b>	<b>16</b>	<b>16-17</b>
<b>Sophomore Year</b>		
Introduction to Forestry (AGPS 1033)	3	
Soils (AGSS 2013)		3
Physical Principles (PHYS 2014)	4	
Introduction to Agriculture Economics (AGBU 2063)	3	
Dendrology (BIOL 4044)		4
Plant Taxonomy (BIOL 3004)		4

### Curriculum in Pre-Forestry

Public Speaking (SPH 2003)	3	
Electives <sup>2</sup>	3-4	5-6
Physical Activity <sup>1</sup>	1	
<b>Total</b>	<b>17-18</b>	<b>16-17</b>

<sup>1</sup>See appropriate alternatives or substitutions in "General Education Requirements" on page 72.

<sup>2</sup>Suggested electives: POLS 2003; HIST 2003, 2013; AGPS 3244; PSY 2003; SOC 1003; PHIL 2003; HLED 1513; PE 2513.

### Curriculum in Pre-Veterinary Medicine<sup>1</sup>

Freshman Year	Fall	Spring
English Composition I, II (ENGL 1013, 1023) <sup>4</sup>	3	3
Principles of Animal Science (AGAS 1013)	3	
Feeds and Feeding (AGAS 2083)		3
College Algebra (MATH 1113)	3	
Plane Trigonometry (MATH 1203)		3
Public Speaking (SPH 2003)	3	
Social Science <sup>2, 4</sup>		3
General Chemistry I, II (CHEM 2124, 2134) <sup>3</sup>	4	4
<b>Total</b>	<b>16</b>	<b>16</b>
Sophomore Year		
Principles of Biology (BIOL 1114)	4	
Principles of Zoology (BIOL 2124)		4
Genetics (BIOL 3034)		4
Animal Science or Poultry Science <sup>2</sup>		3
Elective <sup>2</sup>	3	
Introduction to Computer Based Systems (COMS 1003)	3	
Organic Chemistry (CHEM 3254)	4	
Medical Terminology (AHS 2013)		3
<b>Total</b>	<b>14</b>	<b>14</b>
Junior Year		
Principles of Biochemistry (CHEM 3343)	3	
Vertebrate Histology (BIOL 4054)	4	
Microbiology (BIOL 3054)		4
Physical Principles (PHYS 2014, 2024)	4	4
Animal Nutrition (AGAS 4203)		3
Social Science or Humanities <sup>2, 4</sup>	3	3
<b>Total</b>	<b>14</b>	<b>14</b>

<sup>1</sup>Most entering pre-veterinary medicine students complete at least three years of preparatory course work or a baccalaureate degree. Students will be permitted to make substitutions to meet requirements of a particular institution. Louisiana State University requires a minimum of 69 hours to be eligible for admission.

University of Missouri requires 10 hours of social science and/or humanities.

Tuskegee Institute requires 3 hours of political science, 3 hours of history, and 3 hours of humanities for social science.

<sup>2</sup>In consultation with advisor.

<sup>3</sup>Depending upon previous preparation, student's may wish to complete Survey of Chemistry (CHEM 1114) before enrolling in General Chemistry. However, students who subsequently change their major to a program leading to a degree will not receive duplicate credit for CHEM 1114 and CHEM 2124 or 2134.

<sup>4</sup>See appropriate alternatives or substitutions in "General Education Requirements" on page 72.