

# Agriculture, BSAG

## Bachelor of Science in Agriculture Degree Program Requirements

The degree program in agriculture provides a broad-based study of the food, agricultural, and natural resource sciences. The concentration options allow the student to gain depth in a specialty area and build the foundation for graduate study in the field. Each student must select one of the concentration options to complete the requirements for the degree, BS in Agriculture.

### Degree Program Requirements

Complete Core Curriculum Listing at <https://catalog.pvamu.edu/universitycorecurriculum/>

#### Core Curriculum 42 Credit Hours

Communication (Select Two)	6
Mathematics (Select One)	3
Life and Physical Sciences (Select Two) <sup>1</sup>	6
Language, Philosophy, and Culture (Select One)	3
Creative Arts (Select One)	3
American History (Select Two)	6
Government/Political Science	6
POSC 2305                      American Government	
POSC 2306                      Texas Government	
Social and Behavioral Sciences (Select One)	3
Component Area Option One (Select One)	3
Component Area Option Two (Select One)	3

#### Agriculture Program Requirements

AGRI 1319                      General Animal Science	3
AGRI 1331                      Agricultural Science and Technology	3
AGRI 1341                      Fundamentals of Agricultural Engineering	3
AGRI 1370                      Crop Science	3
AGRI 2317                      Fundamentals of Agricultural Economics	3
AGRI 2321                      Marketing Agricultural Products	3
AGRI 2351                      Animal Production and Marketing	3
AGRI 2354                      Diseases and Sanitation	3
AGRI 2360                      Environmental Soil Science	3
AGRI 2363                      Forage and Pasture Management	3
AGEC 3322                      Agricultural Financial Analysis	3
AGHR 4341                      Special Topics	3

<b>Concentration</b>	<b>42</b>
<b>Total Hours</b>	<b>120</b>

<sup>1</sup> Students preparing for Veterinary Medicine School are required to take PHYS 1301 and PHYS 1302 to satisfy the Life and Physical Sciences core requirement.

### Concentration Options

#### Agribusiness

AGRI 2322                      Food Distribution Systems	3
AGEC 3321                      Agricultural Policy	3
AGEC 4322                      Agribusiness Management	3
AGEC 4323                      Land and Resource Economics	3
AGEC 4325                      Agricultural Prices	3
ACCT 2301                      Principles of Accounting	3
ECON 4321                      Intermediate Microeconomic Analysis	3
MATH 1342                      Elementary Statistics	3

MGMT 1301	Introduction to Business	3
MRKT 3310	Principles of Marketing	3
Targeted Electives <sup>1</sup>		12
<b>Total Hours</b>		<b>42</b>

<sup>1</sup> Targeted electives recommended for Agribusiness (Any 12 SCH) AGRI 1301, AGRI 2363, AGRO 3363, AGRO 3371, AGRI 1327, ANSC 3350

#### Plant and Soil Sciences

AGRI 1301	Natural Resource Conservation Management	3
AGRI 2373	Principles of Crop Production	3
AGRO 3362	Soil Morphology and Classification	3
AGRO 3363	Soil Fertility and Fertilizers	3
AGRO 3364	Soil and Water Management	3
AGRO 3371	Gen Entomology	3
AGRO 3373	Plant Pathology	3
AGRO 4361	Soil Microbiology	3
AGRO 4362	Environmental Science	3
GEOG 2311	Introduction to Geographic Information System	3
Targeted Electives <sup>1</sup>		12
<b>Total Hours</b>		<b>42</b>

<sup>1</sup> Targeted electives recommended for Plant & Soil Sciences (Any 12 SCH) AGRI 2322, AGECE 3321, AGECE 4322, AGRI 1327, ANSC 3350, ANSC 3352

#### Animal and Food Sciences <sup>1</sup>

AGRI 1311	Dairy Science	3
AGRI 1327	Poultry Science	3
ANSC 2255 or BIOL 1501	Poultry Tech & Marketing <sup>2</sup> General Biology	2
ANSC 3350	Animal Nutrition	3
ANSC 3451	Anatomy and Physiology	4
ANSC 3352	Meat Science	3
ANSC 4353	Breeding/Genetics	3
FDSC 3358 or BIOL 1501	Food Quality Assurance and Sanitation <sup>2</sup> General Biology	3
FDSC 3359 or CHEM 1303	Food Bacteriology <sup>2</sup> General Inorganic Chemistry I	3
FDSC 4357	Food Processing and Engineering	3
Targeted Electives <sup>3,4</sup>		12
<b>Total Hours</b>		<b>42</b>

<sup>1</sup> Students preparing for Veterinary Medicine School are required to take PHYS 1301 and PHYS 1302 to satisfy the Life and Physical Sciences core requirement.

<sup>2</sup> Students preparing for Veterinary Medicine School must replace ANSC 2255 and FDSC 3358 with BIOL 1501 and replace FDSC 3359 with CHEM 1303.

<sup>3</sup> Targeted electives for students who desire to attend Veterinary Medicine School: CHEM 1304, CHEM 2303, CHEM 2304, and CHEM 4303.

<sup>4</sup> Targeted electives recommended for Non-Veterinary Medicine School (Any 12 SCH): AGRI 1301, AGRI 2322, AGECE 3321, AGECE 4322, AGRO 3371, AGRO 4362.

#### Natural Resources and Environmental Science

AGECE 3321	Agricultural Policy	3
AGECE 4323	Land and Resource Economics	3

AGEG 4342	Farm Drainage	3
AGRI 1301	Natural Resource Conservation Management	3
AGRO 3362	Soil Morphology and Classification	3
AGRO 3363	Soil Fertility and Fertilizers	3
AGRO 3364	Soil and Water Management	3
AGRO 4362	Environmental Science	3
GEOG 2311	Introduction to Geographic Information System	3
SOCG 4314	Environmental Sociology	3
Targeted Electives <sup>1</sup>		12
<b>Total Hours</b>		<b>42</b>

<sup>1</sup> Targeted electives recommended for Natural Resources and Environmental Sciences (Any 12 SCH) AGECE 4322, AGRI 1327, AGRI 2322, AGRI 2373, AGRO 3362, AGRO 3371

### Agricultural Sciences - Teaching

CUIN 3300	Educational Foundations	3
CUIN 3301	Educational Psychology	3
CUIN 4310	Instructional Planning and Assessment	3
CUIN 4311	Instructional Methodology and Classroom Management	3
CUIN 4682	Student Teaching Secondary II	6
ENGL 2314	Advanced Composition	3
AGEC 3321	Agricultural Policy	3
AGRI 1301	Natural Resource Conservation Management	3
ANSC 3350	Animal Nutrition	3
Targeted Electives <sup>1</sup>		12
<b>Total Hours</b>		<b>42</b>

<sup>1</sup> Targeted electives recommended for Agricultural Sciences - Teaching (Any 12 SCH) AGRI 1327, AGRI 2322, AGRI 2373, AGECE 4322, AGRO 3371, AGRO 4362, ANSC 3352

## Bachelor of Science in Agriculture Degree Sequence

Core: <https://catalog.pvamu.edu/universitycorecurriculum/> (<https://catalog.pvamu.edu/universitycorecurriculum/>)

### Freshman

Fall - Semester 1	Hours	Spring - Semester 2	Hours
Communication Core		3 Communication Core	3
Mathematics Core		3 Government/Political Science Core	3
AGRI 1331		3 POSC 2305	
AGRI 1319		3 Component Area Option One Core	3
AGRI 2317		3 Life and Physical Sciences Core	3
		Social and Behavioral Sciences Core	3
		AGRI 1370	3
<b>Total</b>		<b>15 Total</b>	<b>18</b>

**Total Hours: 33**

### Sophomore

Fall - Semester 1	Hours	Spring - Semester 2	Hours
AGRI 1341		3 AGRI 2321	3
AGRI 2360		3 Government/Political Science Core	3
AGRI 2351		3 POSC 2306	
American History Core		3 Life and Physical Sciences Core	3
Creative Arts Core		3 American History Core	3
		Language, Philosophy, and Culture Core	3

## Component Area Option Two Core

3

<b>Total</b>	<b>15 Total</b>	<b>18</b>
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**Total Hours: 33****Junior**

<b>Fall - Semester 1</b>	<b>Hours</b>	<b>Spring - Semester 2</b>	<b>Hours</b>
AGEC 3322		3 AGRI 2354	3
AGRI 2363		3 Concentration Requirement	3
Concentration Requirement		3 Targeted Elective I	3
Concentration Requirement		3 Targeted Elective II	3
Concentration Requirement		3 Targeted Elective III	3
<b>Total</b>	<b>15 Total</b>		<b>15</b>

**Total Hours: 30****Senior**

<b>Fall - Semester 1</b>	<b>Hours</b>	<b>Spring - Semester 2</b>	<b>Hours</b>
AGHR 4341		3 Concentration Requirement	3
Concentration Requirement		3 Concentration Requirement	3
Concentration Requirement		3 Concentration Requirement	3
Concentration Requirement		3 Targeted Elective IV	3
<b>Total</b>	<b>12 Total</b>		<b>12</b>

**Total Hours: 24**

<b>Name</b>	<b>Unit</b>
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Total Semester Credit Hours: 120

**Marketable Skills**

Marketable skills, as defined by the Texas Higher Education Coordinating Board's 60x30TX Plan (<http://www.60x30tx.com/>), include interpersonal, cognitive, and applied skill areas, are valued by employers, and can be either primary or complementary to a major. Marketable skills are acquired by students through education, including curricular, co-curricular, and extracurricular activities.

**Degree Skills**

1. Problem analysis and resolution
2. Oral and written communication
3. Global/cultural fluency

**Concentration Skills**

1. Business management
2. Scientific inquiry
3. Natural resource management

**Co-curricular and Extracurricular Skills**

1. Leadership
2. Professionalism
3. Organizational skills