

# DIVISION OF AGRICULTURE



*Kash Allen, an agriculture education major from Bunch, OK, was named the 2018 Outstanding Agriculture Division Graduate. Division Dean Eddie Woods presented the award during Eastern's commencement ceremony.*

The Division of Agriculture, located in Baker Hall, offers associate degrees (AS) that prepare graduates for transfer as juniors into bachelor's degree programs at Oklahoma State University and other institutions. In addition, the Division has three AAS programs and one certificate program which are designed for immediate employment in field.

## Agriculture Degrees and Certificates

### Agriculture (AS)

- Agricultural Communications
- Agricultural Economics
- Agricultural Education
- Agronomy
- Animal Science
- Food Science
- Pre-Veterinary

### Forestry (AS)

- Environmental/Natural Resources
- Ecosystem/Range Management
- Wildlife Ecology

### Forestry Technology (AAS)

### Horticulture (AS)

### Meat Processing and Food Safety (AAS & Certificate)

### Ranch Management - Stocker Operations (AAS)

## DIVISION OF AGRICULTURE

### Agriculture (A.S.)

The A.S. in Agriculture is designed to outline the freshman and sophomore years of study for students who plan to transfer to Oklahoma State University or other universities to major in the wide variety of fields related to agriculture. Eastern offers seven advising tracks in agriculture. The student should choose the option that best suits his or her career and university transfer plans.

Agriculture Communications  
 Agriculture Economics  
 Agriculture Education  
 Agronomy  
 Animal Science  
 Food Science  
 Pre-Veterinary Medicine

**Required Hours .....64**

**Orientation .....1**

AG 1011 Agriculture Orientation .....1

**General Education Courses .....41**

**Behavioral and Social Sciences .....10**

POLSC 1113 Amer Fed Govt .....3  
 AGECON 1113 Intro to Ag Econ .....3  
*Take One of the following courses:*  
 HIST 1483 American History to 1877 .....3  
 HIST 1493 American History since 1877 .....3

**Mathematics .....3**

*Take One of the following courses:*  
 MATH 1503 Survey of Mathematics.....3  
 MATH 1513 College Algebra .....3  
 MATH 2233 Elementary Statistics .....3

**Natural Sciences .....9**

BIOL 1114 General Biology .....4  
 CHEM 1315 General College Chemistry I .....5

**Communications .....12**

SPCH 1113 Fundamentals of Speech .....3  
 AG 2113 Microcomputer Tech in Ag .....3  
 ENGL 1113 Freshman Composition I .....3  
 ENGL 1213 Freshman Composition II .....3

**Humanities .....6**

*Take One of the following courses:*  
 HUMAN 1133 Music in Life .....3  
 HUMAN 1143 Art in Life .....3  
 HUMAN 1153 Survey of World Religions .....3

HUMAN 2103 Theatre Appreciation .....3  
 HUMAN 2113 Global Humanities I .....3  
 HUMAN 2213 Global Humanities II .....3  
 HUMAN 2223 Introduction to Philosophy .....3  
 HUMAN 2233 World Literature I .....3  
 HUMAN 2243 World Literature II .....3  
 HUMAN 2513 Social/Political Change .....3  
 HUMAN 2613 Bible as Literature .....3

*And*

*Take One Additional Course from the following courses or from the list above:*

HIST 2413 Early World Civilization .....3  
 HIST 2423 Modern World Civilization .....3  
 ENGL 2413 Intro to Literature .....3  
 ENGL 2433 World Literature I .....3  
 ENGL 2443 World Literature II .....3  
 ENGL 2543 English Literature I .....3  
 ENGL 2653 English Literature II .....3  
 ENGL 2773 American Literature I .....3  
 ENGL 2883 American Literature II .....3  
 RELED 2103 Intro to Old Testament .....3  
 RELED 2203 Intro to New Testament .....3

**General Education Elective .....1**

*Select from the following courses:*

PSY 1113 Intro to Psychology.....3  
 SPAN 1115 Spanish I .....5

**Program Requirements ..... 23**

**Common Core (All Options) .....11**

AGRON 1213 Crop Production .....3  
 AGRON 2124 Fund of Soil Science .....4  
 ANSI 1124 Intro to Animal Science .....4

**Ag Communications Option ..... 12**

AGCOMM 2103 Communications in Ag .....3  
 MCOMM 1103 Fund of Photography .....3  
 MCOMM 1113 Intro to Mass Comm .....3  
 3 hours electives with advisor approval .....3

**Ag Economics Option ..... 12**

ACCT 2103 Financial Accounting .....3  
 ACCT 2203 Managerial Accounting .....3  
 3 hours electives with advisor approval .....3  
*Choose One of the following courses:*  
 ECON 2113 Intro to Macroeconomics .....3  
 MATH 2113 Business Statistics .....3

**Ag Education Option ..... 12**

ANSI 1102 Livestock Selection .....2  
 HORT 1113 Principles of Horticulture .....3  
 PSY 1113 Intro to Psychology .....3  
 AGLE 2303 Agricultural Leadership .....3  
 1 hour elective with advisor approval .....1

**Agronomy Option .....12**

AGRON 2012 Crop Production .....	2
CHEM 1415 General College Chemistry II .....	5
MATH 1613 Trigonometry .....	3
2 hours of Agronomy or Animal Sci electives .....	2

#### Animal Science Option .....12

ANSI 2253 Meat Animal and Carcass Eval .....	3
<i>Choose One of the following courses:</i>	
CHEM 1415 General College Chemistry II .....	5
MATH 2113 Business Statistics .....	3

#### OR

MATH 2233 Elementary Statistics .....	3
<i>Choose Two of the following courses:</i>	
ANSI 1102 Livestock Selection .....	2
ANSI 1202 Beef Cattle Management .....	2
ANSI 1223 Ranch Animal Anatomy .....	3
ANSI 2123 Livestock Feeding .....	3

#### Food Science Option ..... 12

ANSI 1133 Fundamentals of Food Science .....	3
ANSI 2253 Meat Animal and Carcass Eval .....	3
MPFS 2134 Food Safety and Sanitation .....	4
2 hours of electives with advisor approval .....	2

#### Pre-Veterinary Medicine Option ..... 12

ANSI 2253 Meat Animal and Carcass Eval .....	3
CHEM 1415 General College Chemistry II .....	5
4 hours of electives with advisor approval .....	4

#### Total Credit Hours (minimum) .....64

#### Special Note about Physical Education–Health–Wellness.

Some universities have a requirement for physical education or health or wellness in their general education and/or teacher education curricula. Students should consult their advisors and the catalogs of the universities to which they intend to transfer to determine appropriate courses, if any, to take at Eastern.

## DIVISION OF AGRICULTURE

### Forestry and Natural Resources Management (A.S.)

The A.S. in Forestry and Natural Resources Management is designed to outline the freshman and sophomore years of study for students who plan to transfer to Oklahoma State University or other universities to major in forestry or a related field. Eastern also offers an A.A.S. degree in Forestry Technology for students who want to enter the career directly after earning the associate degree. The student should choose the major field that best suits his or her career and university transfer plans.

Forestry  
Environmental Science/Natural Resources  
Ecosystem/Range Management  
Wildlife Ecology

#### Required Hours .....66

#### Orientation ..... 1

AG 1011 Agriculture Orientation .....	1
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#### General Education Courses .....43

#### Behavioral and Social Sciences .....10

POLSC 1113 Amer Fed Govt .....	3
AGECON 1113 Intro to Ag Econ .....	3
<i>Take One of the following courses:</i>	
HIST 1483 American History to 1877 .....	3
HIST 1493 American History since 1877 .....	3

#### Mathematics .....3

<i>Take One of the following courses:</i>	
MATH 1503 Survey of Mathematics.....	3
MATH 1513 College Algebra .....	3
MATH 2233 Elementary Statistics .....	3

#### Natural Sciences ..... 12

CHEM 1315 General College Chemistry I .....	5
<i>Take Two of the following courses:</i>	
BIOL 1114 General Biology .....	4
BOT 1114 General Botany .....	4
BIOL 2103 Environmental Science .....	3

#### Communications .....12

SPCH 1113 Fundamentals of Speech .....	3
AG 2113 Microcomputer Tech in Ag .....	3
ENGL 1113 Freshman Composition I .....	3
ENGL 1213 Freshman Composition II .....	3

#### Humanities .....6

<i>Take One of the following courses:</i>	
HUMAN 1133 Music in Life .....	3
HUMAN 1143 Art in Life .....	3
HUMAN 1153 Survey of World Religions .....	3
HUMAN 2103 Theatre Appreciation .....	3
HUMAN 2113 Global Humanities I .....	3
HUMAN 2213 Global Humanities II .....	3
HUMAN 2223 Introduction to Philosophy .....	3
HUMAN 2233 World Literature I .....	3
HUMAN 2243 World Literature II .....	3
HUMAN 2513 Social/Political Change .....	3
HUMAN 2613 Bible as Literature .....	3

*And*

*Take One Additional Course from the following courses or from the list above:*

HIST 2413 Early World Civilization .....	3
HIST 2423 Modern World Civilization .....	3
ENGL 2413 Intro to Literature .....	3
ENGL 2433 World Literature I .....	3
ENGL 2443 World Literature II .....	3
ENGL 2543 English Literature I .....	3
ENGL 2653 English Literature II .....	3
ENGL 2773 American Literature I .....	3
ENGL 2883 American Literature II .....	3
RELED 2103 Intro to Old Testament .....	3
RELED 2203 Intro to New Testament .....	3

**Program Requirements ..... 23**

**Forestry Option ..... 23**

*Select 23 hours from the following courses:*

AGRON 2124 Fundamentals of Soil Science .....4  
 BOT 2134 Dendrology .....4  
 BOT 1114 General Botany (if not taken in  
 General Education) .....4  
 FOREST 1123 Intro to Forestry .....3  
 FOREST 1224 Forest Measurement .....4  
 FOREST 2123 Timber Harvesting .....3  
 MATH 1613 Trigonometry .....3  
 MATH 2233 Elementary Statistics .....3

**Environmental Sci/Natural Resource Option ..... 23**

*Take ALL the following courses:*

AGRON 2124 Fundamentals of Soil Science .....4  
 BIOL 2104 Environmental Science II .....4  
 BOT 1114 General Botany (if not taken in  
 General Education) .....4  
 CHEM 1415 General College Chemistry II .....5  
*Take Two of the following courses:*  
 MATH 1613 Trigonometry .....3  
 MATH 2233 Elementary Statistics .....3  
 PHY 1114 General Physics I .....4  
 SOC 1113 Introduction to Sociology .....3

**Ecosystem/Range Management Option ..... 23**

AGRON 2124 Fundamentals of Soil Science .....4  
 BIOL 2104 Environmental Science II ..... 4  
 BOT 1114 General Botany (if not taken in  
 General Education) .....4  
 AGRON 1213 Crop Production .....3  
 ANSI 1124 Intro to Animal Science .....4  
 PHY 1114 General Physics I .....4

**Wildlife Ecology Option ..... 23**

AGRON 2124 Fundamentals of Soil Science .....4  
 BIOL 2104 Environmental Science II .....4  
 ZOO 1114 General Zoology .....4  
 CHEM 1415 .....5  
 FOREST 1123 Intro to Forestry .....3  
*Take One of the following courses:*  
 MATH 2233 Elementary Statistics .....3  
 SOC 1113 Intro to Sociology .....3

**Total Credit Hours (minimum) ..... 66**

**Special Note About Physical Education–Health–Wellness.**

Some universities have a requirement for physical education or health or wellness in their general education and/or teacher education curricula. Students should consult their advisors and the catalogs of the universities to which they intend to transfer to determine appropriate courses, if any, to take at Eastern.

**DIVISION OF AGRICULTURE  
 Forest Technology (A.A.S.)**

The A.A.S. in Forest Technology Program is designed to outline study for students who want to enter directly into the workforce in the forestry field upon earning the associate degree. Although this A.A.S. degree is not intended for university transfer, all of the general education and several of the major field courses in the program will count toward the A.S. in Forestry, which is designed to prepare the student to go on to a bachelor's degree in forestry at Oklahoma State or other universities.

**Required Hours .....67**

**Orientation .....1**

AG 1011 Agriculture Orientation .....1

**General Education Courses .....18**

**Behavioral and Social Sciences ..... 6**

POLSC 1113 Amer Fed Govt .....3  
*Take One of the following courses:*  
 HIST 1483 American History to 1877 .....3  
 HIST 1493 American History since 1877 .....3

**Mathematics .....3**

*Take One of the following courses:*  
 MATH 1503 Survey of Mathematics..... 3  
 MATH 1513 College Algebra .....3  
 MATH 2233 Elementary Statistics ..... 3

**Communications ..... 9**

SPCH 1113 Fundamentals of Speech .....3  
 AG 2113 Microcomputer Tech in Ag .....3  
 ENGL 1113 Freshman Composition I .....3

**Program Requirements ..... 48**

AGRON 2124 Fundamentals of Soil Science .....4  
 BIOL 2104 Environmental Science II .....4  
 BOT 2134 Dendrology .....4  
 BUS 1133 Human Relations .....3  
 FOREST 1103 Forest Business Methods .....3  
 FOREST 1123 Introduction to Forestry .....3  
 FOREST 1224 Forest Measurement .....4  
 FOREST 2114 Applied Silviculture .....4  
 FOREST 2115 Advanced Forest Measurement .....5  
 FOREST 2123 Timber Harvesting .....3  
 FOREST 2132 Forest Practices .....2  
 FOREST 2213 Forest Multiple Use & Cons .....3  
 FOREST 2214 Forest Protection .....4  
 FOREST 2992 Special Topics in Forestry .....2

**Total Credit Hours (minimum) .....67**

## DIVISION OF AGRICULTURE Horticulture (A.S.)

The A.S. in Horticulture is designed to outline the freshman and sophomore years of study for students who plan to transfer to Oklahoma State University or other universities to major in horticulture or a related field. Eastern also offers an A.A.S. degree in Horticulture/Parks Technology for students who want to enter the career directly after earning the associate degree.

<b>Required Hours</b> .....	<b>64</b>
<b>Orientation</b> .....	<b>1</b>
AG 1011 Agriculture Orientation .....	1
<b>General Education Courses</b> .....	<b>41</b>
<b>Behavioral and Social Sciences</b> .....	<b>10</b>
POLSC 1113 Amer Fed Govt .....	3
AGECON 1113 Intro to Ag Econ .....	3
<i>Take One of the following courses:</i>	
HIST 1483 American History to 1877 .....	3
HIST 1493 American History since 1877 .....	3
<b>Mathematics</b> .....	<b>3</b>
<i>Take One of the following courses:</i>	
MATH 1503 Survey of Mathematics.....	3
MATH 1513 College Algebra .....	3
MATH 2233 Elementary Statistics .....	3
<b>Natural Sciences</b> .....	<b>9</b>
BIOL 1114 General Biology .....	4
CHEM 1315 General College Chemistry I .....	5
<b>Communications</b> .....	<b>12</b>
SPCH 1113 Fundamentals of Speech .....	3
AG 2113 Microcomputer Tech in Ag .....	3
ENGL 1113 Freshman Composition I .....	3
ENGL 1213 Freshman Composition II .....	3
<b>Humanities</b> .....	<b>6</b>
<i>Take One of the following courses:</i>	
HUMAN 1133 Music in Life .....	3
HUMAN 1143 Art in Life .....	3
HUMAN 1153 Survey of World Religions .....	3
HUMAN 2103 Theatre Appreciation .....	3
HUMAN 2113 Global Humanities I .....	3
HUMAN 2213 Global Humanities II .....	3
HUMAN 2223 Introduction to Philosophy .....	3
HUMAN 2233 World Literature I .....	3
HUMAN 2243 World Literature II .....	3
HUMAN 2513 Social/Political Change .....	3
HUMAN 2613 Bible as Literature .....	3

*And*

*Take One Additional Course from the following courses or from the list above:*

HIST 2413 Early World Civilization .....	3
HIST 2423 Modern World Civilization .....	3
ENGL 2413 Intro to Literature .....	3
ENGL 2433 World Literature I .....	3
ENGL 2443 World Literature II .....	3
ENGL 2543 English Literature I .....	3
ENGL 2653 English Literature II .....	3
ENGL 2773 American Literature I .....	3
ENGL 2883 American Literature II .....	3
RELED 2103 Intro to Old Testament .....	3
RELED 2203 Intro to New Testament .....	3

**General Education Elective** **1**

*Select from the following courses:*

PSY 1113 Intro to Psychology .....	3
SOC 1113 Introduction to Sociology .....	3
SPAN 1115 Spanish I .....	5

**Program Requirements** **23**

AGRON 2124 Fundamentals of Soil Science .....	4
BOT 1114 General Botany .....	4
CHEM 1415 General College Chemistry II .....	5
HORT 1113 Prin of Horticulture & Ld Dsgn .....	3
HORT 2112 Indoor Plants .....	2
HORT 2212 Herbaceous Plants .....	2
3 hours of electives with advisor approval .....	3

**Total Credit Hours (minimum)** **64**

**Special Note About Physical Education–Health–Wellness.** Some universities have a requirement for physical education or health or wellness in their general education and/or teacher education curricula. Students should consult their advisors and the catalogs of the universities to which they intend to transfer to determine appropriate courses, if any, to take at Eastern.

## DIVISION OF AGRICULTURE Meat Processing and Food Safety (A.A.S.)

The A.A.S. in Meat Processing and Food Safety is designed to outline study for students who want to enter directly into the workforce in the field upon earning the associate degree. Although this A.A.S. degree is not intended primarily for university transfer, all of the general education and some of the major field courses in the program will count toward a bachelor's degree at Oklahoma State or other universities.

**Required Hours** **62**

**Orientation** **1**

AG 1011 Agriculture Orientation .....	1
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**General Education Courses** **18**

**Behavioral and Social Sciences** **6**

POLSC 1113 Amer Fed Govt .....	3
<i>Take One of the following courses:</i>	
HIST 1483 American History to 1877 .....	3

HIST 1493 American History since 1877 .....	3
<b>Communications .....</b>	<b>12</b>
SPCH 1113 Fundamentals of Speech .....	3
AG 2113 Microcomputer Tech in Ag .....	3
ENGL 1113 Freshman Composition I .....	3
SPAN 1103 Conversational Spanish .....	3
<b>Program Requirements .....</b>	<b>43</b>
ACCT 1113 Basic Bookkeeping .....	3
ANSI 1124 Introduction to Animal Science .....	4
ANSI 2253 Meat Animal and Carcass Eval .....	3
MPFS 1123 Meat Processing & Merchandising .....	3
MPFS 1214 Intro to Meat Technology .....	4
MPFS 1244 Intro to Livestock Processing .....	4
MPFS 2004 Meat Industry Internship .....	4
MPFS 2112 Advanced Meat Merchandising .....	2
MPFS 2134 Food Safety and Sanitation .....	4
MPFS 2144 Adv Lvstck Process/Safety Analysis .....	4
MPFS 2212 Adv Meat Tech and Fabrications .....	2
MPFS 2224 Processed Sausage & Cured Meats .....	4
MPFS 2122 Poultry Processing Technology .....	2
<b>Total Credit Hours (minimum) .....</b>	<b>62</b>

## DIVISION OF AGRICULTURE Meat Processing and Food Safety (Certificate)

The Certificate in Meat Processing and Food Safety is designed to outline the study for students who desire immediate employment opportunity in the area of processing meats with an understanding of the importance of food safety.

<b>Certificate Requirements .....</b>	<b>35</b>
ACCT 1113 Basic Bookkeeping .....	3
ANSI 2253 Meat Animal and Carcass Eval .....	3
MPFS 1123 Meat Processing & Merchandising .....	3
MPFS 1214 Intro to Meat Technology .....	4
MPFS 1244 Intro to Livestock Processing .....	4
MPFS 2112 Advanced Meat Merchandising .....	2
MPFS 2122 Poultry Processing Technology .....	2
MPFS 2134 Food Safety and Sanitation .....	4
MPFS 2144 Adv Lvstck Process/Safety Analysis .....	4
MPFS 2212 Adv Meat Tech and Fabrications .....	2
MPFS 2224 Processed Sausage & Cured Meats .....	4
<b>Total Credit Hours (minimum) .....</b>	<b>35</b>

Note: Students may choose to take additional courses, but these 35 credits are required to earn this Certificate from Eastern.

## DIVISION OF AGRICULTURE Ranch Management - Stocker Operations (A.A.S.)

The A.A.S. in Ranch Management - Stocker Operations is designed to provide students with an overview of ranch management and

hands-on training in the stocker cattle industry. Although this A.A.S. degree is not intended primarily for university transfer, all of the general education and some of the major field courses in the program will count toward a bachelor's degree at Oklahoma State University or other universities.

<b>Required Hours .....</b>	<b>65</b>
<b>Orientation .....</b>	<b>1</b>
AG 1011 Agriculture Orientation .....	1
<b>General Education Courses .....</b>	<b>18</b>
POLSC 1113 Amer Fed Govt .....	3
Take <i>One of the following courses:</i>	
HIST 1483 American History to 1877 .....	3
HIST 1493 American History since 1877 .....	3
<b>Communications .....</b>	<b>12</b>
AG 2113 Microcomputer Tech in Ag .....	3
SPAN 1103 Conversational Spanish .....	3
ENGL 1113 Freshman Composition I .....	3
Take <i>One of the following courses:</i>	
ENGL 1213 Freshman Composition II.....	3
SPCH 1113 Fundamentals of Speech .....	3
<b>Program Requirements .....</b>	<b>46</b>
ANSI 1124 Introduction to Animal Science .....	4
ANSI 1202 Beef Cattle Management .....	2
ANSI 1212 Live Animal Evaluation .....	2
ANSI 1223 Ranch Animal Anatomy and Diseases ...	3
ANSI 2113 Ranch Mgt Internship/Capstone .....	3
ANSI 2123 Livestock Feeding .....	3
ANSI 2253 Meat Animal and Carcass Evaluation ...	3
ANSI 2991 Special Topics - Ranch Mgmt-Sem 1 .....	1
ANSI 2991 Special Topics - Ranch Mgmt-Sem 2 .....	1
ANSI 2991 Special Topics - Ranch Mgmt-Sem 3 .....	1
AGEC 1113 Agriculture Economics .....	3
AGEC 2993 Special Topics in Ag Economics .....	3
AGRON 1213 Crop Production .....	3
AGRON 2014 Hay, Forage and Pastures .....	4
AGRON 2124 Fundamentals of Soil Science .....	4
BUS AD 1123 Introduction to Business .....	3
Take <i>One of the following courses:</i>	
BUS AD 1023 Business Math .....	3
BIOL 1114 General Biology .....	4
ZOO 1114 General Zoology .....	4
<b>Total Credit Hours (minimum) .....</b>	<b>65</b>